RELION® PROTECTION AND CONTROL

IEC 61850 Model Implementation Conformance Statement (MICS)

REX640





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1. About this manual

1.1. Read it first!

Before attempting any operation with IED from REX640, read carefully the IED documentation first.

This document is addressed to anyone who needs to interact with REX640 and its IEC 61850 features in more detail.

1.2. Document information

Revision	Date	Note
A	15.8.2018	REX640 PCL1
B	14.11.2022	REX640 PCL4

Applicability

This manual is applicable to all REX640 Protection and Control IED versions mentioned in document Revision History above or newer versions if document update is not required.

1.3. Safety Information

There are safety warnings and notes in the following text. They are in a different format to distinguish them from normal text.

Safety warning

The safety warnings should always be observed. Non-observance can result in death, personal injury, or substantial damages to property. Guarantee claims might not be accepted when safety warnings are not respected. They look like below:



Do not make any changes to the REX640 configuration unless you are familiar with the REX640 and its configuration tool. This might result in disoperation and loss of warranty.

Note

A note contains additional information worth noting in the specific context, and looks like below:



The selection of this control mode requires caution, because operations are al-lowed both from the HMI and remotely.

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2. Abbreviations and Definitions

2.1. Abbreviations

Abbreviation	Description
ACSI	Abstract Communication Service Interface
FTP	File Transfer Protocol
GCB	Goose Control Block
GOOSE	Generic Object Oriented Substation Event
GSE	Generic Substation Event
HMI	Human Machine Interface
IED	Intelligent Electronic Device
LED	Light Emitting Diode
MAC	Media Access Control
MICS	Model Implementation Conformance Statement
MMS	Manufacturing Message Specification
M/O	Mandatory/Optional
GOOSE	Generic Object Oriented Substation Event
GSE	Generic Substation Event
HMI	Human Machine Interface
IED	Intelligent Electronic Device
LED	Light Emitting Diode
MAC	Media Access Control
MICS	Model Implementation Conformance Statement
MMS	Manufacturing Message Specification
M/O	Mandatory/Optional
N	No
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
RCB	Report Control Block
SCADA	Supervision, Control and Data Acquisition
Y	Yes

2.2. Definitions

Abbreviation	Description
Operational State	The unit is active and it is protecting and controlling the switchgear.
Stand-alone	The unit is not connected to a SCADA system.

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3. Introduction

This document specifies the model implementation conformance statement (MICS) of the IEC 61850 communication for REX640.

Together with the PICS and the PIXIT the MICS forms the basis for a conformance test according to IEC 61850-10.

In this document all Logical Nodes with additional Data Objects are listed with intend-ed use for extensions. In these cases dataNs refers to this document. Also Data Objects with different namespace as standard CDC describes are listed. In these cases cdcNs data attribute refers to this document. Extended data classes' new Data At-tributes are introduced

4. Logical Nodes List

Table 1 L: System logical nodes

LLN0	LD0.LLN0	Protection LLN0
	CTRL.LLN0	Control LLN0
	DR.LLN0	DR LLN0
	MU01.LLN0	Std conformance
LPHD	LD0.LPHD1	Physical device
	CTRL.LPHD1	Std conformance
	DR.LPHD1	Physical device information
	MU01.LPHD1	Std conformance
LINF	LD0.LINF1	Customer information
	LD0.SGLINF1	Slot G
	LD0.SFLINF1	Slot F
	LD0.SELINF1	Slot E
	LD0.SDLINF1	Slot D
	LD0.SCLINF1	Slot C
	LD0.SBLINF1	Slot B
	LD0.SA1LINF1	Slot A1
	LD0.SA2LINF1	Slot A2
LDEV	LD0.LDEV1	Device
	LD0.ETHLDEV1	Ethernet Device
	LD0.ETHLDEV2	Ethernet Device
	LD0.HMILDEV1	HMI Device
LPRT	LD0.GSELPRT1	GSELPRT1,GSE
	LD0.MMSLPRT1	61850-8-1 MMS
	LD0.FTPLPRT1	FTPLPRT1
	LD0.HTTPLPRT1	HTTPLPRT1
	LD0.I3CLPRT1	IEC60870-5-103
	LD0.I3CLPRT2	IEC60870-5-103
	LD0.DNPLPRT1	DNP 3.0
	LD0.SDNPLPRT1	SDNP 3.0
	LD0.DNPLPRT2	DNP 3.0

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	LD0.SDNPLPRT2	SDNP 3.0
	LD0.DNPLPRT3	DNP 3.0
	LD0.SDNPLPRT3	SDNP 3.0
	LD0.DNPLPRT4	DNP 3.0
	LD0.SDNPLPRT4	SDNP 3.0
	LD0.DNPLPRT5	DNP 3.0
	LD0.SDNPLPRT5	SDNP 3.0
	LD0.MBSLPRT1	Modbus
	LD0.MBSLPRT2	Modbus
	LD0.MBSLPRT3	Modbus
	LD0.MBSLPRT4	Modbus
	LD0.MBSLPRT5	Modbus
	LD0.I5CLPRT1	IEC60870-5-101/104
	LD0.SI5CLPRT1	Secure IEC104
	LD0.I5CLPRT2	IEC60870-5-101/104
	LD0.SI5CLPRT2	Secure IEC104
	LD0.I5CLPRT3	IEC60870-5-101/104
	LD0.SI5CLPRT3	Secure IEC104
	LD0.I5CLPRT4	IEC60870-5-101/104
	LD0.SI5CLPRT4	Secure IEC104
	LD0.I5CLPRT5	IEC60870-5-101/104
	LD0.SI5CLPRT5	Secure IEC104
LTMS (ED2)	LD0.GNRLLTMS1	GNRLLTMS1,TSYNC(1)
LTMM (ED1)	LD0.GNRLLTMM1	GNRLLTMS1,TSYNC(1)
LTIM	LD0.GNRLLTIM1	GNRLLTIM1
LCCH	LD0.HMILCCH1	X0 remote HMI port Ethernet channel
	LD0.RCHLCCH1	Redundant Ethernet
	LD0.SCHLCCH1	X1/X16 port Ethernet channel
	LD0.SCHLCCH2	X2 port Ethernet channel
	LD0.SCHLCCH3	X3 port Ethernet channel
	LD0.SCHLCCH6	X6 port Ethernet channel
	LD0.SERLCCH1	Serial Port 1 Supervision
	LD0.SERLCCH2	Serial Port 2 Supervision
LTTP	LD0.SCH1LTTP1	X1/X16 PTP port
	LD0.SCH1LTTP2	X2 PTP port
	LD0.SCH1LTTP3	X3 PTP port
LSVS (ED2)	LD0.SMVLSVS1	SMVRCV1
LSVM (ED1)	LD0.SMVLSVM1	SMVRCV1
(ED2)	LD0.SMVLSVS2	SMVRCV2
LSVM (ED1)	LD0.SMVLSVM2	SMVRCV2
(ED2)	LD0.SMVLSVS3	SMVRCV3
LSVM (ED1)	LD0.SMVLSVM3	SMVRCV3
(ED2)	LD0.SMVLSVS4	SMVRCV4
LSVM (ED1)	LD0.SMVLSVM4	SMVRCV4

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Table 2 A: Logical nodes for automatic control

ATCC	LD0.OL5ATCC1	OL5ATCC1,90V(1),COLTC(1)
ANCR	LD0.PASANCR1	PASANCR1,90,ANCR
ARIS	LD0.PASARIS1	PASANCR1,90,ANCR
ABTC	LD0.HSABTC1	HSABTC1,I<->O BT(1)
	LD0.HSABTC2	HSABTC2,I<->O BT(2)
	LD0.HSABTC3	HSABTC3,I<->O BT(3)

Table 3 C: Logical nodes for control

CSYN	LD0.ASGCSYN1	ASGCSYN1,25AUTOSYNCG,AUTOSYNCG
	LD0.ASNSCSYN1	ASNSCSYN1,AUTOSYNCBT/T(1),AUTOSYNC(1)
	LD0.ASNSCSYN2	ASNSCSYN2,AUTOSYNCBT/T(2),AUTOSYNC(2)
	LD0.ASNSCSYN3	ASNSCSYN3,AUTOSYNCBT/T(3),AUTOSYNC(3)
CSWI	LD0.HSF1CSWI1	HSABTC1,I<->O BT(1)
	LD0.HSF2CSWI1	HSABTC1,I<->O BT(1)
	LD0.HSF1CSWI2	HSABTC2,I<->O BT(2)
	LD0.HSF2CSWI2	HSABTC2,I<->O BT(2)
	LD0.HSF1CSWI3	HSABTC3,I<->O BT(3)
	LD0.HSF2CSWI3	HSABTC3,I<->O BT(3)
	CTRL.CBCSWI1	CBXCBR1,I<->O CB(1)
	CTRL.CBCSWI2	CBXCBR2,52(2),I<->O CB(2)
	CTRL.CBCSWI3	CBXCBR3,52(3),I<->O CB(3)
	CTRL.CBCSWI4	CBXCBR4,52(4),I<->O CB(4)
	CTRL.CBCSWI5	CBXCBR5,52(5),I<->O CB(5)
	CTRL.DCCSWI1	DCXSWI1,29DS(1),I<->O DCC(1)
	CTRL.DCCSWI2	DCXSWI2,29DS(2),I<->O DCC(2)
	CTRL.DCCSWI3	DCXSWI3,29DS(3),I<->O DCC(3)
	CTRL.DCCSWI4	DCXSWI4,29DS(4),I<->O DCC(4)
	CTRL.DCCSWI5	DCXSWI5,29DS(5),I<->O DCC(5)
	CTRL.DCCSWI6	DCXSWI6,29DS(6),I<->O DCC(6)
	CTRL.DCCSWI7	DCXSWI7,29DS(7),I<->O DCC(7)
	CTRL.DCCSWI8	DCXSWI8,29DS(8),I<->O DCC(8)
	CTRL.DCSCSWI1	DCSXSWI1,29DS(1),I<->O DC(1)
	CTRL.DCSCSWI2	DCSXSWI2,29DS(2),I<->O DC(2)
	CTRL.DCSCSWI3	DCSXSWI3,29DS(3),I<->O DC(3)
	CTRL.DCSCSWI4	DCSXSWI4,29DS(4),I<->O DC(4)
	CTRL.DCSCSWI5	DCSXSWI5,29DS(5),I<->O DC(5)
	CTRL.DCSCSWI6	DCSXSWI6,29DS(6),I<->O DC(6)
	CTRL.DCSCSWI7	DCSXSWI7,29DS(7),I<->O DC(7)
	CTRL.DCSCSWI8	DCSXSWI8,29DS(8),I<->O DC(8)
	CTRL.ESCSWI1	ESXSWI1,29GS(1),I<->O ESC(1)
	CTRL.ESCSWI2	ESXSWI2,29GS(2),I<->O ESC(2)
	CTRL.ESCSWI3	ESXSWI3,29GS(3),I<->O ESC(3)

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	CTRL.ESSCSWI1	ESSXSWI1,29GS(1),I<->O ES(1)
	CTRL.ESSCSWI2	ESSXSWI2,29GS(2),I<->O ES(2)
	CTRL.ESSCSWI3	ESSXSWI3,29GS(3),I<->O ES(3)
	CTRL.P3SDCSWI1	P3SXSWI1,29DS/GS(1),I<->O P3S(1)
	CTRL.P3SECSWI1	P3SXSWI1,29DS/GS(1),I<->O P3S(1)
	CTRL.P3SDCSWI2	P3SXSWI2,29DS/GS(2),I<->O P3S(2)
	CTRL.P3SECSWI2	P3SXSWI2,29DS/GS(2),I<->O P3S(2)
	CTRL.P3SDCSWI3	P3SXSWI3,29DS/GS(3),I<->O P3S(3)
	CTRL.P3SECSWI3	P3SXSWI3,29DS/GS(3),I<->O P3S(3)
	CTRL.P3SDCSWI4	P3SXSWI4,29DS/GS(4),I<->O P3S(4)
	CTRL.P3SECSWI4	P3SXSWI4,29DS/GS(4),I<->O P3S(4)
	CTRL.P3SDCSWI5	P3SXSWI5,29DS/GS(5),I<->O P3S(5)
	CTRL.P3SECSWI5	P3SXSWI5,29DS/GS(5),I<->O P3S(5)
	CTRL.P3SDCSWI6	P3SXSWI6,29DS/GS(6),I<->O P3S(6)
	CTRL.P3SECSWI6	P3SXSWI6,29DS/GS(6),I<->O P3S(6)
	CTRL.P3SSDCSWI1	P3SSXSWI1,29DS/GS(1),I<->O P3SS(1)
	CTRL.P3SSECSWI1	P3SSXSWI1,29DS/GS(1),I<->O P3SS(1)
	CTRL.P3SSDCSWI2	P3SSXSWI2,">29DS/GS(2),I<->O P3SS(2)
	CTRL.P3SSECSWI2	P3SSXSWI2,">29DS/GS(2),I<->O P3SS(2)
	CTRL.P3SSDCSWI3	P3SSXSWI3,">29DS/GS(3),I<->O P3SS(3)
	CTRL.P3SSECSWI3	P3SSXSWI3,">29DS/GS(3),I<->O P3SS(3)
	CTRL.P3SSDCSWI4	P3SSXSWI4,">29DS/GS(4),I<->O P3SS(4)
	CTRL.P3SSECSWI4	P3SSXSWI4,">29DS/GS(4),I<->O P3SS(4)
	CTRL.P3SSDCSWI5	P3SSXSWI5,">29DS/GS(5),I<->O P3SS(5)
	CTRL.P3SSECSWI5	P3SSXSWI5,">29DS/GS(5),I<->O P3SS(5)
	CTRL.P3SSDCSWI6	P3SSXSWI6,">29DS/GS(6),I<->O P3SS(6)
	CTRL.P3SSECSWI6	P3SSXSWI6,">29DS/GS(6),I<->O P3SS(6)
CILO	CTRL.CBCILO1	CBXCBR1,I<->O CB(1)
	CTRL.CBCILO2	CBXCBR2,52(2),I<->O CB(2)
	CTRL.CBCILO3	CBXCBR3,52(3),I<->O CB(3)
	CTRL.CBCILO4	CBXCBR4,52(4),I<->O CB(4)
	CTRL.CBCILO5	CBXCBR5,52(5),I<->O CB(5)
	CTRL.DCCILO1	DCXSWI1,29DS(1),I<->O DCC(1)
	CTRL.DCCILO2	DCXSWI2,29DS(2),I<->O DCC(2)
	CTRL.DCCILO3	DCXSWI3,29DS(3),I<->O DCC(3)
	CTRL.DCCILO4	DCXSWI4,29DS(4),I<->O DCC(4)
	CTRL.DCCILO5	DCXSWI5,29DS(5),I<->O DCC(5)
	CTRL.DCCILO6	DCXSWI6,29DS(6),I<->O DCC(6)
	CTRL.DCCILO7	DCXSWI7,29DS(7),I<->O DCC(7)
	CTRL.DCCILO8	DCXSWI8,29DS(8),I<->O DCC(8)
	CTRL.ESCILO1	ESXSWI1,29GS(1),I<->O ESC(1)
	CTRL.ESCILO2	ESXSWI2,29GS(2),I<->O ESC(2)
	CTRL.ESCILO3	ESXSWI3,29GS(3),I<->O ESC(3)
	CTRL.P3SDCILO1	P3SXSWI1,29DS/GS(1),I<->O P3S(1)
	CTRL.P3SECILO1	P3SXSWI1,29DS/GS(1),I<->O P3S(1)

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	CTRL.P3SDCILO2	P3SXSWI2,29DS/GS(2),I<->O P3S(2)
	CTRL.P3SECILO2	P3SXSWI2,29DS/GS(2),I<->O P3S(2)
	CTRL.P3SDCILO3	P3SXSWI3,29DS/GS(3),I<->O P3S(3)
	CTRL.P3SECILO3	P3SXSWI3,29DS/GS(3),I<->O P3S(3)
	CTRL.P3SDCILO4	P3SXSWI4,29DS/GS(4),I<->O P3S(4)
	CTRL.P3SECILO4	P3SXSWI4,29DS/GS(4),I<->O P3S(4)
	CTRL.P3SDCILO5	P3SXSWI5,29DS/GS(5),I<->O P3S(5)
	CTRL.P3SECILO5	P3SXSWI5,29DS/GS(5),I<->O P3S(5)
	CTRL.P3SDCILO6	P3SXSWI6,29DS/GS(6),I<->O P3S(6)
	CTRL.P3SECILO6	P3SXSWI6,29DS/GS(6),I<->O P3S(6)

Table 4 F: Logical nodes for functional blocks

FCNT	LD0.UDFCNT1	UDFCNT1,UDCNT(1)
	LD0.UDFCNT2	UDFCNT2,UDCNT(2)
	LD0.UDFCNT3	UDFCNT3,UDCNT(3)
	LD0.UDFCNT4	UDFCNT4,UDCNT(4)
	LD0.UDFCNT5	UDFCNT5,UDCNT(5)
	LD0.UDFCNT6	UDFCNT6,UDCNT(6)
	LD0.UDFCNT7	UDFCNT7,UDCNT(7)
	LD0.UDFCNT8	UDFCNT8,UDCNT(8)
	LD0.UDFCNT9	UDFCNT9,UDCNT(9)
	LD0.UDFCNT10	UDFCNT10,UDCNT(10)
	LD0.UDFCNT11	UDFCNT11,UDCNT(11)
	LD0.UDFCNT12	UDFCNT12,UDCNT(12)

Table 5 G: Logical Nodes for generic references

GSAL	LD0.GSAL1	Security application
	LD0.PKIGSAL1	Public Key Infrastructure
GGIO	LD0.LEDGGIO1	Programmable LEDs
	LD0.LEDGGIO2	Programmable LEDs
	LD0.LEDGGIO3	Programmable LEDs
	LD0.LEDGGIO4	Programmable LEDs
	LD0.LEDGGIO5	Programmable LEDs
	LD0.LEDGGIO6	Programmable LEDs
	LD0.SGBOGGIO1	Slot G
	LD0.SGBIGGIO1	Slot G
	LD0.SGAIGGIO1	Slot G
	LD0.SGAOGGIO1	Slot G
	LD0.SFBOGGIO1	Slot F
	LD0.SFBIGGIO1	Slot F
	LD0.SFAIGGIO1	Slot F

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	LD0.SFAOGGIO1	Slot F
	LD0.SEBOGGIO1	Slot E
	LD0.SEBIGGIO1	Slot E
	LD0.SEAIGGIO1	Slot E
	LD0.SEAOGGIO1	Slot E
	LD0.SDBOGGIO1	Slot D
	LD0.SDBIGGIO1	Slot D
	LD0.SDAIGGIO1	Slot D
	LD0.SDAOGGIO1	Slot D
	LD0.SCBOGGIO1	Slot C
	LD0.SCBIGGIO1	Slot C
	LD0.SCAIGGIO1	Slot C
	LD0.SCAOGGIO1	Slot C
	LD0.SBBOGGIO1	Slot B
	LD0.SBBIGGIO1	Slot B
	LD0.SBAIGGIO1	Slot B
	LD0.SBAOGGIO1	Slot B
GAPC	LD0.TPGAPC1	TPGAPC1,TP(1)
	LD0.TPGAPC2	TPGAPC2,TP(2)
	LD0.TPGAPC3	TPGAPC3,TP(3)
	LD0.TPGAPC4	TPGAPC4,TP(4)
	LD0.TPSGAPC1	TPSGAPC1,TPS(1)
	LD0.TPSGAPC2	TPSGAPC2,TPS(2)
	LD0.TPMGAPC1	TPMGAPC1,TPM(1)
	LD0.TPMGAPC2	TPMGAPC2,TPM(2)
	LD0.PTGAPC1	PTGAPC1,PT(1)
	LD0.PTGAPC2	PTGAPC2,PT(2)
	LD0.PTGAPC3	PTGAPC3,PT(3)
	LD0.PTGAPC4	PTGAPC4,PT(4)
	LD0.PTGAPC5	PTGAPC5,PT(5)
	LD0.PTGAPC6	PTGAPC6,PT(6)
	LD0.PTGAPC7	PTGAPC7,PT(7)
	LD0.PTGAPC8	PTGAPC8,PT(8)
	LD0.PTGAPC9	PTGAPC9,PT(9)
	LD0.PTGAPC10	PTGAPC10,PT(10)
	LD0.TOFGAPC1	TOFGAPC1,TOF(1)
	LD0.TOFGAPC2	TOFGAPC2,TOF(2)
	LD0.TOFGAPC3	TOFGAPC3,TOF(3)
	LD0.TOFGAPC4	TOFGAPC4,TOF(4)
	LD0.TOFGAPC5	TOFGAPC5,TOF(5)
	LD0.TOFGAPC6	TOFGAPC6,TOF(6)
	LD0.TOFGAPC7	TOFGAPC7,TOF(7)
	LD0.TOFGAPC8	TOFGAPC8,TOF(8)
	LD0.TOFGAPC9	TOFGAPC9,TOF(9)
	LD0.TOFGAPC10	TOFGAPC10,TOF(10)

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	LD0.TONGAPC1	TONGAPC1,TON(1)
	LD0.TONGAPC2	TONGAPC2,TON(2)
	LD0.TONGAPC3	TONGAPC3,TON(3)
	LD0.TONGAPC4	TONGAPC4,TON(4)
	LD0.TONGAPC5	TONGAPC5,TON(5)
	LD0.TONGAPC6	TONGAPC6,TON(6)
	LD0.TONGAPC7	TONGAPC7,TON(7)
	LD0.TONGAPC8	TONGAPC8,TON(8)
	LD0.TONGAPC9	TONGAPC9,TON(9)
	LD0.TONGAPC10	TONGAPC10,TON(10)
	LD0.SRGAPC1	SRGAPC1,SR(1)
	LD0.SRGAPC2	SRGAPC2,SR(2)
	LD0.SRGAPC3	SRGAPC3,SR(3)
	LD0.SRGAPC4	SRGAPC4,SR(4)
	LD0.MVGAPC1	MVGAPC1,MV(1)
	LD0.MVGAPC2	MVGAPC2,MV(2)
	LD0.MVGAPC3	MVGAPC3,MV(3)
	LD0.MVGAPC4	MVGAPC4,MV(4)
	LD0.MVGAPC5	MVGAPC5,MV(5)
	LD0.MVGAPC6	MVGAPC6,MV(6)
	LD0.MVGAPC7	MVGAPC7,MV(7)
	LD0.MVGAPC8	MVGAPC8,MV(8)
	LD0.MVGAPC9	MVGAPC9,MV(9)
	LD0.MVGAPC10	MVGAPC10,MV(10)
	LD0.SPCGAPC1	SPCGAPC1,SPC(1)
	LD0.SPCGAPC2	SPCGAPC2,SPC(2)
	LD0.SPCGAPC3	SPCGAPC3,SPC(3)
	LD0.SPCGAPC4	SPCGAPC4,SPC(4)
	LD0.SPCGAPC5	SPCGAPC5,SPC(5)
	LD0.SPCGAPC6	SPCGAPC6,SPC(6)
	LD0.SPCLGAPC1	SPCLGAPC1,SPCL(1)
	LD0.SPCRGAPC1	SPCRGAPC1,SPCR(1)
	LD0.SCA4GAPC1	SCA4GAPC1,SCA4(1)
	LD0.SCA4GAPC2	SCA4GAPC2,SCA4(2)
	LD0.SCA4GAPC3	SCA4GAPC3,SCA4(3)
	LD0.SCA4GAPC4	SCA4GAPC4,SCA4(4)
	LD0.MVI4GAPC1	MVI4GAPC1,MVI4(1)
	LD0.MVI4GAPC2	MVI4GAPC2,MVI4(2)
	LD0.MVI4GAPC3	MVI4GAPC3,MVI4(3)
	LD0.MVI4GAPC4	MVI4GAPC4,MVI4(4)
	LD0.MAPGAPC1	MAPGAPC1,MAP(1)
	LD0.MAPGAPC2	MAPGAPC2,MAP(2)
	LD0.MAPGAPC3	MAPGAPC3,MAP(3)
	LD0.MAPGAPC4	MAPGAPC4,MAP(4)
	LD0.MAPGAPC5	MAPGAPC5,MAP(5)

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	LD0.MAPGAPC6	MAPGAPC6,MAP(6)
	LD0.MAPGAPC7	MAPGAPC7,MAP(7)
	LD0.MAPGAPC8	MAPGAPC8,MAP(8)
	LD0.MAPGAPC9	MAPGAPC9,MAP(9)
	LD0.MAPGAPC10	MAPGAPC10,MAP(10)
	LD0.MAPGAPC11	MAPGAPC11,MAP(11)
	LD0.MAPGAPC12	MAPGAPC12,MAP(12)
	LD0.MAPGAPC13	MAPGAPC13,MAP(13)
	LD0.MAPGAPC14	MAPGAPC14,MAP(14)
	LD0.MAPGAPC15	MAPGAPC15,MAP(15)
	LD0.MAPGAPC16	MAPGAPC16,MAP(16)
	LD0.MAPGAPC17	MAPGAPC17,MAP(17)
	LD0.MAPGAPC18	MAPGAPC18,MAP(18)
	LD0.MAPGAPC19	MAPGAPC19,MAP(19)
	LD0.MAPGAPC20	MAPGAPC20,MAP(20)
	LD0.MAPGAPC21	MAPGAPC21,MAP(21)
	LD0.MAPGAPC22	MAPGAPC22,MAP(22)
	LD0.MAPGAPC23	MAPGAPC23,MAP(23)
	LD0.MAPGAPC24	MAPGAPC24,MAP(24)
	LD0.IFGAPC1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IFGAPC2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IFGAPC3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
	LD0.BSTGAPC1	BSTGAPC1,BST(1)
	LD0.BSTGAPC2	BSTGAPC2,BST(2)
	LD0.OLGAPC1	OLGAPC1,OLGAPC(1)
	LD0.OLGAPC2	OLGAPC2,OLGAPC(2)
	LD0.OLGAPC3	OLGAPC3,OLGAPC(3)
	LD0.OLGAPC4	OLGAPC4,OLGAPC(4)
	LD0.OLGAPC5	OLGAPC5,OLGAPC(5)
	LD0.ASCGAPC1	ASCGAPC1,25AUTOSYNC(1),AUTOSYNC(1)
	LD0.ASGGAPC1	ASGGAPC1
	LD0.ASNSGAPC1	ASNSGAPC1
	LD0.ASNSGAPC2	ASNSGAPC2
	LD0.ASNSGAPC3	ASNSGAPC3
	LD0.DGMCGAPC1	DGMGAPC1,32/40G,P><
	LD0.DGMTGAPC1	DGMGAPC1,32/40G,P><
	LD0.HLTGAPC1	HLTGAPC1
	LD0.ESMGAPC1	ESMGAPC1,EST,62(1),ESTART(1)
	LD0.CALGAPC1	CALGAPC1
	LD0.CALGAPC2	CALGAPC2
	LD0.CALGAPC3	CALGAPC3
	LD0.CALGAPC4	CALGAPC4
	LD0.DTMGAPC1	DTMGAPC1
	LD0.DTMGAPC2	DTMGAPC2
	LD0.DTMGAPC3	DTMGAPC3

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	LD0.DTMGAPC4	DTMGAPC4
	LD0.SETRGAPC1	SETRGAPC1,SETRGAPC(1)
	LD0.SETRGAPC2	SETRGAPC2,SETRGAPC(2)
	LD0.SETI32GAPC1	SETI32GAPC1,SETI32(1)
	LD0.SETI32GAPC2	SETI32GAPC2,SETI32(2)
	LD0.GATEGAPC1	GATEGAPC1,GATEGAPC(1)
	LD0.PCGAPC1	PCGAPC1,PC(1)
	LD0.PCGAPC2	PCGAPC2,PC(2)
	LD0.PCGAPC3	PCGAPC3,PC(3)
	LD0.PCGAPC4	PCGAPC4,PC(4)
	CTRL.P3SGAPC1	P3SXSWI1,29DS/GS(1),I<->O P3S(1)
	CTRL.P3SGAPC2	P3SXSWI2,29DS/GS(2),I<->O P3S(2)
	CTRL.P3SGAPC3	P3SXSWI3,29DS/GS(3),I<->O P3S(3)
	CTRL.P3SGAPC4	P3SXSWI4,29DS/GS(4),I<->O P3S(4)
	CTRL.P3SGAPC5	P3SXSWI5,29DS/GS(5),I<->O P3S(5)
	CTRL.P3SGAPC6	P3SXSWI6,29DS/GS(6),I<->O P3S(6)
	CTRL.P3SSGAPC1	P3SSXSWI1,29DS/GS(1),I<->O P3SS(1)
	CTRL.P3SSGAPC2	P3SSXSWI2,">29DS/GS(2),I<->O P3SS(2)
	CTRL.P3SSGAPC3	P3SSXSWI3,">29DS/GS(3),I<->O P3SS(3)
	CTRL.P3SSGAPC4	P3SSXSWI4,">29DS/GS(4),I<->O P3SS(4)
	CTRL.P3SSGAPC5	P3SSXSWI5,">29DS/GS(5),I<->O P3SS(5)
	CTRL.P3SSGAPC6	P3SSXSWI6,">29DS/GS(6),I<->O P3SS(6)

Table 6 I: Logical Nodes for archiving

IHMI	LD0.EIHMI1	EIHMI1
ITPC	LD0.PCSITPC1	PCSITPC1,PCS(1)
	LD0.DSOCITPC1	DSOCPSCH1,85 21SCHLGC(1),CL(1)
	LD0.RESCITPC1	RESCPSCH1,85 67G/N SCHLGC(1),CLN(1)

Table 7 M: Logical Nodes for metering and measurement

MMXU	LD0.WMMXU1	WPWDE1,32N(1),Po>->(1)
	LD0.WMMXU2	WPWDE2,32N(2),Po>->(2)
	LD0.WMMXU3	WPWDE3,32N(3),Po>->(3)
	LD0.MPFMMXU1	MPUPF1,55U(1),PF<(1)
	LD0.MPFMMXU2	MPUPF2,55U(2),PF<(2)
	LD0.PHVMMXU1	PHVPTOV1,59.S1,3Urms>
	LD0.PHVMMXU2	PHVPTOV2,59.S1(2),3Urms>(2)
	LD0.UEXMMXU1	UEXPDIS1,40(1),X<(1)
	LD0.UEXMMXU2	UEXPDIS2,40(2),X<(2)
	LD0.DQMMXU1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
	LD0.DQMMXU2	DQPTUV2,32Q,27(2),Q>->,3U<(2)
	LD0.DGMMMXU1	DGMGAPC1,32/40G,P><
	LD0.HSF1MMXU1	HSABTC1,I<->O BT(1)

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	LD0.HSF2MMXU1	HSABTC1,I<->O BT(1)
	LD0.HSBBMMXU1	HSABTC1,I<->O BT(1)
	LD0.HSF1MMXU2	HSABTC2,I<->O BT(2)
	LD0.HSF2MMXU2	HSABTC2,I<->O BT(2)
	LD0.HSBBMMXU2	HSABTC2,I<->O BT(2)
	LD0.HSF1MMXU3	HSABTC3,I<->O BT(3)
	LD0.HSF2MMXU3	HSABTC3,I<->O BT(3)
	LD0.HSBBMMXU3	HSABTC3,I<->O BT(3)
	LD0.CNUMMXU1	CNUPTOV1,59NU(1),CNU>(1)
	LD0.CNUMMXU2	CNUPTOV2,59NU(2),CNU>(2)
	LD0.DPMMXU1	DUPPDPR1,32U(1),P<(1)
	LD0.DPMMXU2	DUPPDPR2,32U(2),P<(2)
	LD0.DPMMXU3	DUPPDPR3,32U(3),P<(3)
	LD0.DOPMMXU1	DOPPDPR1,32R/32O(1),P>/Q>(1)
	LD0.DOPMMXU2	DOPPDPR2,32R/32O(2),P>/Q>(2)
	LD0.DOPMMXU3	DOPPDPR3,32R/32O(3),P>/Q>(3)
	LD0.UZMMXU1	UZMMXU1
	LD0.UZMMXU2	UZMMXU2
	LD0.UZMMXU3	UZMMXU3
	LD0.OOSMMXU1	OOSRPSB1,78PS,OOS
	LD0.MRMMXU1	MSVPR1,27R(1),3U<R(1)
	LD0.MRMMXU2	MSVPR2,27R(2),3U<R(2)
	LD0.MRMMXU3	MSVPR3,27R(3),3U<R(3)
	LD0.CMMXU1	CMMXU1,IA,IB,IC(1),3I(1)
	LD0.CAVMMXU1	CMMXU1,IA,IB,IC(1),3I(1)
	LD0.CMAMMXU1	CMMXU1,IA,IB,IC(1),3I(1)
	LD0.CMIMMXU1	CMMXU1,IA,IB,IC(1),3I(1)
	LD0.CMMXU2	CMMXU2,IA,IB,IC(2),3I(2)
	LD0.CAVMMXU2	CMMXU2,IA,IB,IC(2),3I(2)
	LD0.CMAMMXU2	CMMXU2,IA,IB,IC(2),3I(2)
	LD0.CMIMMXU2	CMMXU2,IA,IB,IC(2),3I(2)
	LD0.CMMXU3	CMMXU3,IA,IB,IC(3),3I(3)
	LD0.CAVMMXU3	CMMXU3,IA,IB,IC(3),3I(3)
	LD0.CMAMMXU3	CMMXU3,IA,IB,IC(3),3I(3)
	LD0.CMIMMXU3	CMMXU3,IA,IB,IC(3),3I(3)
	LD0.CMMXU4	CMMXU4,IA,IB,IC(4),3I(4)
	LD0.CAVMMXU4	CMMXU4,IA,IB,IC(4),3I(4)
	LD0.CMAMMXU4	CMMXU4,IA,IB,IC(4),3I(4)
	LD0.CMIMMXU4	CMMXU4,IA,IB,IC(4),3I(4)
	LD0.CMMXU5	CMMXU5,IA,IB,IC(5),3I(5)
	LD0.CAVMMXU5	CMMXU5,IA,IB,IC(5),3I(5)
	LD0.CMAMMXU5	CMMXU5,IA,IB,IC(5),3I(5)
	LD0.CMIMMXU5	CMMXU5,IA,IB,IC(5),3I(5)
	LD0.CMMXU6	CMMXU6,IA,IB,IC(6),3I(6)
	LD0.CAVMMXU6	CMMXU6,IA,IB,IC(6),3I(6)

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	LD0.CMAMMXU6	CMMXU6,IA,IB,IC(6),3I(6)
	LD0.CMIMMXU6	CMMXU6,IA,IB,IC(6),3I(6)
	LD0.CMMXU7	CMMXU7,IA,IB,IC(7),3I(7)
	LD0.CAVMMXU7	CMMXU7,IA,IB,IC(7),3I(7)
	LD0.CMAMMXU7	CMMXU7,IA,IB,IC(7),3I(7)
	LD0.CMIMMXU7	CMMXU7,IA,IB,IC(7),3I(7)
	LD0.CMMXU8	CMMXU8,IA,IB,IC(8),3I(8)
	LD0.CAVMMXU8	CMMXU8,IA,IB,IC(8),3I(8)
	LD0.CMAMMXU8	CMMXU8,IA,IB,IC(8),3I(8)
	LD0.CMIMMXU8	CMMXU8,IA,IB,IC(8),3I(8)
	LD0.RESCMMXU1	RESCMMXU1,IG(1),Io(1)
	LD0.RCAVMMXU1	RESCMMXU1,IG(1),Io(1)
	LD0.RCMAMMXU1	RESCMMXU1,IG(1),Io(1)
	LD0.RCMIMMXU1	RESCMMXU1,IG(1),Io(1)
	LD0.RESCMMXU2	RESCMMXU2,IG(2),Io(2)
	LD0.RCAVMMXU2	RESCMMXU2,IG(2),Io(2)
	LD0.RCMAMMXU2	RESCMMXU2,IG(2),Io(2)
	LD0.RCMIMMXU2	RESCMMXU2,IG(2),Io(2)
	LD0.RESCMMXU3	RESCMMXU3,IG(3),Io(3)
	LD0.RCAVMMXU3	RESCMMXU3,IG(3),Io(3)
	LD0.RCMAMMXU3	RESCMMXU3,IG(3),Io(3)
	LD0.RCMIMMXU3	RESCMMXU3,IG(3),Io(3)
	LD0.RESCMMXU4	RESCMMXU4,IG(4),Io(4)
	LD0.RCAVMMXU4	RESCMMXU4,IG(4),Io(4)
	LD0.RCMAMMXU4	RESCMMXU4,IG(4),Io(4)
	LD0.RCMIMMXU4	RESCMMXU4,IG(4),Io(4)
	LD0.RESCMMXU5	RESCMMXU5,IG(5),Io(5)
	LD0.RCAVMMXU5	RESCMMXU5,IG(5),Io(5)
	LD0.RCMAMMXU5	RESCMMXU5,IG(5),Io(5)
	LD0.RCMIMMXU5	RESCMMXU5,IG(5),Io(5)
	LD0.RESCMMXU6	RESCMMXU6,IG(6),Io(6)
	LD0.RCAVMMXU6	RESCMMXU6,IG(6),Io(6)
	LD0.RCMAMMXU6	RESCMMXU6,IG(6),Io(6)
	LD0.RCMIMMXU6	RESCMMXU6,IG(6),Io(6)
	LD0.RESCMMXU7	RESCMMXU7,IG(7),Io(7)
	LD0.RCAVMMXU7	RESCMMXU7,IG(7),Io(7)
	LD0.RCMAMMXU7	RESCMMXU7,IG(7),Io(7)
	LD0.RCMIMMXU7	RESCMMXU7,IG(7),Io(7)
	LD0.RESCMMXU8	RESCMMXU8,IG(8),Io(8)
	LD0.RCAVMMXU8	RESCMMXU8,IG(8),Io(8)
	LD0.RCMAMMXU8	RESCMMXU8,IG(8),Io(8)
	LD0.RCMIMMXU8	RESCMMXU8,IG(8),Io(8)
	LD0.VMMXU1	VMMXU1,VA,VB,VC(1),3U(1)
	LD0.VAVMMXU1	VMMXU1,VA,VB,VC(1),3U(1)
	LD0.VMMXU2	VMMXU2,VA,VB,VC(2),3U(2)

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	LD0.VAVMMXU2	VMMXU2,VA,VB,VC(2),3U(2)
	LD0.VMMXU3	VMMXU3,VA,VB,VC(3),3U(3)
	LD0.VAVMMXU3	VMMXU3,VA,VB,VC(3),3U(3)
	LD0.VMMXU4	VMMXU4,VA,VB,VC(4),3U(4)
	LD0.VAVMMXU4	VMMXU4,VA,VB,VC(4),3U(4)
	LD0.VMMXU5	VMMXU5,VA,VB,VC(5),3U(5)
	LD0.VAVMMXU5	VMMXU5,VA,VB,VC(5),3U(5)
	LD0.VMMXU6	VMMXU6,VA,VB,VC(6),3U(6)
	LD0.VAVMMXU6	VMMXU6,VA,VB,VC(6),3U(6)
	LD0.VMMXU7	VMMXU7,VA,VB,VC(7),3U(7)
	LD0.VAVMMXU7	VMMXU7,VA,VB,VC(7),3U(7)
	LD0.VMMXU8	VMMXU8,VA,VB,VC(8),3U(8)
	LD0.VAVMMXU8	VMMXU8,VA,VB,VC(8),3U(8)
	LD0.VPHMMXU1	VPHMMXU1,VL(1),3UL(1)
	LD0.VPHAVMMXU1	VPHAVMMXU1
	LD0.VPHMMXU2	VPHMMXU2,VL(2),3UL(2)
	LD0.VPHAVMMXU2	VPHAVMMXU2
	LD0.RESVMMXU1	RESVMMXU1,VG/VN(1),Uo(1)
	LD0.RVAVMMXU1	RESVMMXU1,VG/VN(1),Uo(1)
	LD0.RVMAMMXU1	RESVMMXU1,VG/VN(1),Uo(1)
	LD0.RVMIMMXU1	RESVMMXU1,VG/VN(1),Uo(1)
	LD0.RESVMMXU2	RESVMMXU2,VG/VN(2),Uo(2)
	LD0.RVAVMMXU2	RESVMMXU2,VG/VN(2),Uo(2)
	LD0.RVMAMMXU2	RESVMMXU2,VG/VN(2),Uo(2)
	LD0.RVMIMMXU2	RESVMMXU2,VG/VN(2),Uo(2)
	LD0.RESVMMXU3	RESVMMXU3,VG/VN(3),Uo(3)
	LD0.RVAVMMXU3	RESVMMXU3,VG/VN(3),Uo(3)
	LD0.RVMAMMXU3	RESVMMXU3,VG/VN(3),Uo(3)
	LD0.RVMIMMXU3	RESVMMXU3,VG/VN(3),Uo(3)
	LD0.RESVMMXU4	RESVMMXU4,VG/VN(4),Uo(4)
	LD0.RVAVMMXU4	RESVMMXU4,VG/VN(4),Uo(4)
	LD0.RVMAMMXU4	RESVMMXU4,VG/VN(4),Uo(4)
	LD0.RVMIMMXU4	RESVMMXU4,VG/VN(4),Uo(4)
	LD0.RESVMMXU5	RESVMMXU5,VG/VN(5),Uo(5)
	LD0.RVAVMMXU5	RESVMMXU5,VG/VN(5),Uo(5)
	LD0.RVMAMMXU5	RESVMMXU5,VG/VN(5),Uo(5)
	LD0.RVMIMMXU5	RESVMMXU5,VG/VN(5),Uo(5)
	LD0.RESVMMXU6	RESVMMXU6,VG/VN(6),Uo(6)
	LD0.RVAVMMXU6	RESVMMXU6,VG/VN(6),Uo(6)
	LD0.RVMAMMXU6	RESVMMXU6,VG/VN(6),Uo(6)
	LD0.RVMIMMXU6	RESVMMXU6,VG/VN(6),Uo(6)
	LD0.RESVMMXU7	RESVMMXU7,VG/VN(7),Uo(7)
	LD0.RVAVMMXU7	RESVMMXU7,VG/VN(7),Uo(7)
	LD0.RVMAMMXU7	RESVMMXU7,VG/VN(7),Uo(7)
	LD0.RVMIMMXU7	RESVMMXU7,VG/VN(7),Uo(7)

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	LD0.RESVMMXU8	RESVMMXU8,VG/VN(8),Uo(8)
	LD0.RVAVMMXU8	RESVMMXU8,VG/VN(8),Uo(8)
	LD0.RVMAMMXU8	RESVMMXU8,VG/VN(8),Uo(8)
	LD0.RVMIMMXU8	RESVMMXU8,VG/VN(8),Uo(8)
	LD0.FMMXU1	FMMXU1,f(1)
	LD0.FMMXU2	FMMXU2,f(2)
	LD0.FMMXU3	FMMXU3,f(3)
	LD0.FMMXU4	FMMXU4,f(4)
	LD0.FMMXU5	FMMXU5,f(5)
	LD0.PEMMXU1	PEMMXU1,P,E(1)
	LD0.PEAVMMXU1	PEMMXU1,P,E(1)
	LD0.PEMAMMXU1	PEMMXU1,P,E(1)
	LD0.PEMIMMXU1	PEMMXU1,P,E(1)
	LD0.PEMMXU2	PEMMXU2,P,E(2)
	LD0.PEAVMMXU2	PEAVMMXU2
	LD0.PEMAMMXU2	PEMAMMXU2
	LD0.PEMIMMXU2	PEMIMMXU2
	LD0.PEMMXU3	PEMMXU3,P,E(3)
	LD0.PEAVMMXU3	PEAVMMXU3
	LD0.PEMAMMXU3	PEMAMMXU3
	LD0.PEMIMMXU3	PEMIMMXU3
	LD0.VAMMXU1	VAMMXU1,V_A(1),U_A(1)
	LD0.VAAVMMXU1	VAAVMMXU1
	LD0.VAMMXU2	VAMMXU2,V_A(2),U_A(2)
	LD0.VAAVMMXU2	VAAVMMXU2
	LD0.VAMMXU3	VAMMXU3,V_A(3),U_A(3)
	LD0.VAAVMMXU3	VAAVMMXU3
	LD0.VAMMXU4	VAMMXU4
	LD0.VAAVMMXU4	VAAVMMXU4
	LD0.DSTMMXU1	DSTRPSB1,68(1),Zpsb(1)
	LD0.LBMMXU1	LBRDOB1,21LB(1),LB(1)
	LD0.DNZMMXU1	DNZPDIS1,Z2Q(1),Z2>(1);
	LD0.DNZMMXU2	DNZPDIS2,Z2Q(2),Z2>(2);
	LD0.DNZMMXU3	DNZPDIS3,Z2Q(3),Z2>(3);
MHAI	LD0.HAEFMHAI1	HAEFPTOC1,51NH(1),Io>HA(1)
	LD0.CHMHAI1	CHMHAI1,PQM ITHD,IDC(1),PQM3IH(1)
	LD0.CHSMHAI1	CHMHAI1,PQM ITHD,IDC(1),PQM3IH(1)
	LD0.CHLMHAI1	CHMHAI1,PQM ITHD,IDC(1),PQM3IH(1)
	LD0.CHMHAI2	CHMHAI2,PQM ITHD,IDC(2),PQM3IH(2)
	LD0.CHSMHAI2	CHMHAI2,PQM ITHD,IDC(2),PQM3IH(2)
	LD0.CHLMHAI2	CHMHAI2,PQM ITHD,IDC(2),PQM3IH(2)
	LD0.VHMHAI1	VHMHAI1,PQM VTHD,VDC(1),PQM3VH(1)
	LD0.VHSMHAI1	VHMHAI1,PQM VTHD,VDC(1),PQM3VH(1)
	LD0.VHLMHAI1	VHMHAI1,PQM VTHD,VDC(1),PQM3VH(1)
	LD0.VHMHAI2	VHMHAI2,PQM VTHD,VDC(2),PQM3VH(2)

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	LD0.VHSMHAI2	VHMHAI2,PQM VTHD,VDC(2),PQM3VH(2)
	LD0.VHLMHAI2	VHMHAI2,PQM VTHD,VDC(2),PQM3VH(2)
MSWI	LD0.VMSWI1	VMSWI1,VSWI(1)
	LD0.VMSWI2	VMSWI2,VSWI(2)
	LD0.VMSWI3	VMSWI3,VSWI(3)
	LD0.CMSWI1	CMSWI1,CSWI(1)
	LD0.CMSWI2	CMSWI2,CSWI(2)
	LD0.CMSWI3	CMSWI3,CSWI(3)
MSUM	LD0.CMSUM1	Phase CT sets summing function
MSQI	LD0.CSMSQI1	CSMSQI1,I1,I2,I0(1)
	LD0.CSMSQI2	CSMSQI2,I1,I2,I0(2)
	LD0.CSMSQI3	CSMSQI3,I1,I2,I0(3)
	LD0.CSMSQI4	CSMSQI4,I1,I2,I0(4)
	LD0.CSMSQI5	CSMSQI5,I1,I2,I0(5)
	LD0.CSMSQI6	CSMSQI6,I1,I2,I0(6)
	LD0.CSMSQI7	CSMSQI7,I1,I2,I0(7)
	LD0.CSMSQI8	CSMSQI8,I1,I2,I0(8)
	LD0.VSMSQI1	VSMSQI1,V1,V2,V0(1),U1,U2,U0(1)
	LD0.VSMSQI2	VSMSQI2,V1,V2,V0(2),U1,U2,U0(2)
	LD0.VSMSQI3	VSMSQI3,V1,V2,V0(3),U1,U2,U0(3)
	LD0.VSMSQI4	VSMSQI4,V1,V2,V0(4),U1,U2,U0(4)
	LD0.VSMSQI5	VSMSQI5,V1,V2,V0(5),U1,U2,U0(5)
	LD0.VSMSQI6	VSMSQI6,V1,V2,V0(6),U1,U2,U0(6)
	LD0.VSMSQI7	VSMSQI7,V1,V2,V0(7),U1,U2,U0(7)
	LD0.VSMSQI8	VSMSQI8,V1,V2,V0(8),U1,U2,U0(8)
MMTR	LD0.PEMMTR1	PEMMXU1,P,E(1)
	LD0.PEMMTR2	PEMMXU2,P,E(2)
	LD0.PEMMTR3	PEMMXU3,P,E(3)

Table 8 P: Logical Nodes for protection functions

PTRC	LD0.LEDPTRC1	Global conditioning
	LD0.TRPPTRC1	TRPPTRC1,94/86(1),Master Trip(1)
	LD0.TRPPTRC2	TRPPTRC2,94/86(2),Master Trip(2)
	LD0.TRPPTRC3	TRPPTRC3,94/86(3),Master Trip(3)
	LD0.TRPPTRC4	TRPPTRC4,94/86(4),Master Trip(4)
	LD0.TRPPTRC5	TRPPTRC5,94/86(5),Master Trip(5)
	LD0.TRPPTRC6	TRPPTRC6,94/86(6),Master Trip(6)
	LD0.IFPTRC1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IFPTRC2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IFPTRC3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
	LD0.LNPTRC1	LNPLDF1,87L(1),3Id/I>(1)
	LD0.FRPTRC1	FRPFRQ1,81(1),f>/f
	LD0.FRPTRC2	FRPFRQ2,81(2),f>/f
	LD0.FRPTRC3	FRPFRQ3,81(3),f>/f

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	LD0.FRPTRC4	FRPFRQ4,81(4),f>/f
	LD0.FRPTRC5	FRPFRQ5,81(5),f>/f
	LD0.FRPTRC6	FRPFRQ6,81(6),f>/f
	LD0.FRPTRC7	FRPFRQ7,81(7),f>/f
	LD0.FRPTRC8	FRPFRQ8,81(8),f>/f
	LD0.FRPTRC9	FRPFRQ9,81(9),f>/f
	LD0.FRPTRC10	FRPFRQ10,81(10),f>/f
	LD0.FRPTRC11	FRPFRQ11,81(11),f>/f
	LD0.FRPTRC12	FRPFRQ12,81(12),f>/f
	LD0.LSHDPTRC1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
	LD0.LSHDPTRC2	LSHDPFRQ2,81LSH(2),UFLS/R(2)
	LD0.LSHDPTRC3	LSHDPFRQ3,81LSH(3),UFLS/R(3)
	LD0.LSHDPTRC4	LSHDPFRQ4,81LSH(4),UFLS/R(4)
	LD0.LSHDPTRC5	LSHDPFRQ5,81LSH(5),UFLS/R(5)
	LD0.LSHDPTRC6	LSHDPFRQ6,81LSH(6),UFLS/R(6)
	LD0.ARCPTRC11	ARCSARC1,AFD(1),ARC(1)
	LD0.ARCPTRC21	ARCSARC2,AFD(2),ARC(2)
	LD0.ARCPTRC31	ARCSARC3,AFD(3),ARC(3)
	LD0.ARCPTRC41	ARCSARC4,AFD(4),ARC(4)
	LD0.TR2PTRC1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.TR3PTRC1	TR3PTDF1,87T3(1),3dI>3W(1)
	LD0.MPTRC1	MPDIF1,87M/87G(1),3dI>M/G(1)
	LD0.H3EFPTRC1	H3EFPSEF1,64TN(1),dUo>/Uo3H(1)
PTOC	LD0.PHLPTOC1	PHLPTOC1,51P-1(1),3I>(1)
	LD0.PHLPTOC2	PHLPTOC2,51P-1(2),3I>(2)
	LD0.PHLPTOC3	PHLPTOC3,51P-1(3),3I>(3)
	LD0.PHLPTOC4	PHLPTOC4,51P-1(4),3I>(4)
	LD0.PHLPTOC5	PHLPTOC5,51P-1(5),3I>(5)
	LD0.PHHPTOC1	PHHPTOC1,51P-2(1),3I>>(1)
	LD0.PHHPTOC2	PHHPTOC2,51P-2(2),3I>>(2)
	LD0.PHHPTOC3	PHHPTOC3,51P-2(3),3I>>(3)
	LD0.PHHPTOC4	PHHPTOC4,51P-2(4),3I>>(4)
	LD0.PHHPTOC5	PHHPTOC5,51P-2(5),3I>>(5)
	LD0.PHIPTOC1	PHIPTOC1,50P(1),3I>>>(1)
	LD0.PHIPTOC2	PHIPTOC2,50P(2),3I>>>(2)
	LD0.PHIPTOC3	PHIPTOC3,50P(3),3I>>>(3)
	LD0.PHIPTOC4	PHIPTOC4,50P(4),3I>>>(4)
	LD0.PHIPTOC5	PHIPTOC5,50P(5),3I>>>(5)
	LD0.EFLPTOC1	EFLPTOC1,51G/51N-1(1),Io>(1)
	LD0.EFLPTOC2	EFLPTOC2,51G/51N-1(2),Io>(2)
	LD0.EFLPTOC3	EFLPTOC3,51N-1(3),Io>(3)
	LD0.EFLPTOC4	EFLPTOC4,51N-1(4),Io>(4)
	LD0.EFLPTOC5	EFLPTOC5,51N-1(5),Io>(5)
	LD0.EFHPTOC1	EFHPTOC1,51G/51N-2(1),Io>>(1)
	LD0.EFHPTOC2	EFHPTOC2,51G/51N-2(2),Io>>(2)

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	LD0.EFHPTOC3	EFHPTOC3,51G/51N-2(3),Io>>(3)
	LD0.EFHPTOC4	EFHPTOC4,51G/51N-2(4),Io>>(4)
	LD0.EFHPTOC5	EFHPTOC5,51N-2(5),Io>>(5)
	LD0.EFIPTOC1	EFIPTOC1,50G/50N(1),Io>>>(1)
	LD0.EFIPTOC2	EFIPTOC2,50G/50N(2),Io>>>(2)
	LD0.EFIPTOC3	EFIPTOC3,50G/50N(3),Io>>>(3)
	LD0.EFIPTOC4	EFIPTOC4,50G/50N(4),Io>>>(4)
	LD0.EFIPTOC5	EFIPTOC5,50G/50N(5),Io>>>(5)
	LD0.DPHLPTOC1	DPHLPDOC1,67P/51P-1(1),3I>->(1)
	LD0.DPHLPTOC2	DPHLPDOC2,67P/51P-1(2),3I>->(2)
	LD0.DPHLPTOC3	DPHLPDOC3,67P/51P-1(3),3I>->(3)
	LD0.DPHLPTOC4	DPHLPDOC4,67P/51P-1(4),3I>->(4)
	LD0.DPHLPTOC5	DPHLPDOC5,67P/51P-1(5),3I>->(5)
	LD0.DPHHPTOC1	DPHHPDOC1,67P/51P-2(1),3I>>->(1)
	LD0.DPHHPTOC2	DPHHPDOC2,67-2(2),3I>>->(2)
	LD0.DPHHPTOC3	DPHHPDOC3,67P/51P-2(3),3I>>->(3)
	LD0.DPHHPTOC4	DPHHPDOC4,67-2(4),3I>>->(4)
	LD0.DPHHPTOC5	DPHHPDOC5,67-2(5),3I>>->(5)
	LD0.DEFLPTOC1	DEFLPDEF1,67G/N-1 51G/N-1(1),Io>->(1)
	LD0.DEFLPTOC2	DEFLPDEF2,67G/N-1 51G/N-1(2),Io>->(2)
	LD0.DEFLPTOC3	DEFLPDEF3,67G/N-1 51G/N-1(3),Io>->(3)
	LD0.DEFLPTOC4	DEFLPDEF4,67G/N-1 51G/N-1(4),Io>->(4)
	LD0.DEFLPTOC5	DEFLPDEF5,67G/N-1 51G/N-1(5),Io>->(5)
	LD0.DEFHPTOC1	DEFHPDEF1,67G/N-1 51G/N-2(1),Io>>->(1)
	LD0.DEFHPTOC2	DEFHPDEF2,67G/N-1 51G/N-2(2),Io>>->(2)
	LD0.DEFHPTOC3	DEFHPDEF3,67G/N-1 51G/N-2(3),Io>>->(3)
	LD0.DEFHPTOC4	DEFHPDEF4,67G/N-1 51G/N-2(4),Io>>->(4)
	LD0.DEFHPTOC5	DEFHPDEF5,67G/N-1 51G/N-2(5),Io>>->(5)
	LD0.HAEFPTOC1	HAEFPTOC1,51NH(1),Io>HA(1)
	LD0.IFTPTOC1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IFHPTOC1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IFTPTOC2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IFHPTOC2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IFTPTOC3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
	LD0.IFHPTOC3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
	LD0.NSPTOC1	NSPTOC1,46M(1),I2>M(1)
	LD0.NSPTOC2	NSPTOC2,46M(2),I2>M(2)
	LD0.NSPTOC3	NSPTOC3,46M(3),I2>M(3)
	LD0.PDNSPTOC1	PDNSPTOC1,46PD(1),I2/I1>(1)
	LD0.COL1PTOC1	COLPTOC1,51,37,86C(1),3I>3I<(1)
	LD0.COL2PTOC1	COLPTOC1,51,37,86C(1),3I>3I<(1)
	LD0.CUB1PTOC1	CUBPTOC1,60N(1),dI>C(1)
	LD0.CUB2PTOC1	CUBPTOC1,60N(1),dI>C(1)
	LD0.CUB1PTOC2	CUBPTOC2,51NC-1(2),dI>C(2)
	LD0.CUB2PTOC2	CUBPTOC2,51NC-1(2),dI>C(2)

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	LD0.CUB1PTOC3	CUBPTOC3,51NC-1(3),dI>C(3)
	LD0.CUB2PTOC3	CUBPTOC3,51NC-1(3),dI>C(3)
	LD0.HCUB1PTOC1	HCUBPTOC1,60P(1),3dI>C(1)
	LD0.HCUB2PTOC1	HCUBPTOC1,60P(1),3dI>C(1)
	LD0.HCUB1PTOC2	HCUBPTOC2,60P(2),3dI>C(2)
	LD0.HCUB2PTOC2	HCUBPTOC2,60P(2),3dI>C(2)
	LD0.SRC1PTOC1	SRCPTOC1,55ITHD(1),TD>(1)
	LD0.SRC2PTOC1	SRCPTOC1,55ITHD(1),TD>(1)
	LD0.MRE1PTOC1	MREFPTOC1,64R(1),Io>R(1)
	LD0.MRE2PTOC1	MREFPTOC1,64R(1),Io>R(1)
	LD0.MRE1PTOC2	MREFPTOC2,64R(2),Io>R(2)
	LD0.MRE2PTOC2	MREFPTOC2,64R(2),Io>R(2)
	LD0.GSL1PTOC1	GSLPTOC1,38/51(1),GSLPTOC(1)
	LD0.GSL2PTOC1	GSLPTOC1,38/51(1),GSLPTOC(1)
	LD0.MNSPTOC1	MNSPTOC1,46M(1),I2>M(1)
	LD0.MNSPTOC2	MNSPTOC2,46M(2),I2>M(2)
	LD0.DNSPTOC1	DNSPDOC1,67Q,I2>->(1)
	LD0.DNSPTOC2	DNSPDOC2,67Q(2),I2>->(2)
	LD0.JAMPTOC1	JAMPTOC1,50TDJAM(1),Ist>(1)
	LD0.JAMPTOC2	JAMPTOC2,50TDJAM(2),Ist>(2)
	LD0.PREVPTOC1	PREVPTOC1,46R(1),I2>>(1)
PDIS	LD0.GFCPDIS1	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.DSTPDIS1	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.DSTPDIS2	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.DSTPDIS3	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.DSTPDIS4	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.DSTPDIS5	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.UEXPDIS1	UEXPDIS1,40(1),X<(1)
	LD0.UEXPDIS2	UEXPDIS2,40(2),X<(2)
	LD0.UZPDIS1	UZPDIS1,21G(1),Z<G(1)
	LD0.UZPDIS2	UZPDIS2,21G(2),Z<G(2)
	LD0.UZPDIS3	UZPDIS3,21G(3),Z<G(3)
	LD0.DNZPDIS1	DNZPDIS1,Z2Q(1),Z2>(1);
	LD0.DNZPDIS2	DNZPDIS2,Z2Q(2),Z2>(2);
	LD0.DNZPDIS3	DNZPDIS3,Z2Q(3),Z2>(3);
PLAL	LD0.DSTPLAL1	DSTPLAL1,21LAL(1),LAL(1)
PADM	LD0.EFPADM1	EFPADM1,21YN(1),Yo>->(1)
	LD0.EFPADM2	EFPADM2,21YN(2),Yo>->(2)
	LD0.EFPADM3	EFPADM3,21YN(3),Yo>->(3)
PSDE	LD0.WPSDE1	WPWDE1,32N(1),Po>->(1)
	LD0.WPSDE2	WPWDE2,32N(2),Po>->(2)
	LD0.WPSDE3	WPWDE3,32N(3),Po>->(3)
	LD0.MFADPSDE1	MFADPSDE1,67NYH(1),Io>->Y(1)
	LD0.MFADPSDE2	MFADPSDE2,67NYH(2),Io>->Y(2)
	LD0.MFADPSDE3	MFADPSDE3,67NYH(3),Io>->Y(3)

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PTEF	LD0.INTRPTEF1	INTRPTEF1,67NTEF/NIEF(1),Io>->IEF(1)
	LD0.INTRPTEF2	INTRPTEF2,67NTEF/NIEF(2),Io>->IEF(2)
	LD0.IFPTEF1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IFPTEF2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IFPTEF3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
PTOV	LD0.IFGFPTOV1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IFGFPTOV2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IFGFPTOV3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
	LD0.PHPTOV1	PHPTOV1,59(1),3U>(1)
	LD0.PHPTOV2	PHPTOV2,59(2),3U>(2)
	LD0.PHPTOV3	PHPTOV3,59(3),3U>(3)
	LD0.PHPTOV4	PHPTOV4,59(4),3U>(4)
	LD0.PHVPTOV1	PHVPTOV1,59.S1,3Urms>
	LD0.PHVPTOV2	PHVPTOV2,59.S1(2),3Urms>(2)
	LD0.ROVPTOV1	ROVPTOV1,59G/59N(1),Uo>(1)
	LD0.ROVPTOV2	ROVPTOV2,59G/59N(2),Uo>(2)
	LD0.ROVPTOV3	ROVPTOV3,59G/59N(3),Uo>(3)
	LD0.ROVPTOV4	ROVPTOV4,59G/59N(4),Uo>(4)
	LD0.PSPTOV1	PSPTOV1,59PS(1),U1>(1)
	LD0.PSPTOV2	PSPTOV2,59PS(2),U1>(2)
	LD0.PSPTOV3	PSPTOV3,59PS(3),U1>(3)
	LD0.PSPTOV4	PSPTOV4,59PS(4),U1>(4)
	LD0.NSPTOV1	NSPTOV1,47,59NS(1),U2>(1)
	LD0.NSPTOV2	NSPTOV2,47,59NS(2),U2>(2)
	LD0.NSPTOV3	NSPTOV3,47,59NS(3),U2>(3)
	LD0.NSPTOV4	NSPTOV4,47,59NS(4),U2>(4)
	LD0.CNUPTOV1	CNUPTOV1,59NU(1),CNU>(1)
	LD0.CNUPTOV2	CNUPTOV2,59NU(2),CNU>(2)
PSOF	LD0.IFPSOF1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IFPSOF2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IFPSOF3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
	LD0.CVPSOF1	CVPSOF1,SOTF(1),CVPSOF(1)
PUPF	LD0.M1PUPF1	MPUPF1,55U(1),PF<(1)
	LD0.M2PUPF1	MPUPF1,55U(1),PF<(1)
	LD0.M1PUPF2	MPUPF2,55U(2),PF<(2)
	LD0.M2PUPF2	MPUPF2,55U(2),PF<(2)
PTUC	LD0.PHPTUC1	PHPTUC1,37(1),3I<(1)
	LD0.PHPTUC2	PHPTUC2,37(2),3I<(2)
	LD0.PHPTUC3	PHPTUC3,37(3),3I<(3)
	LD0.LOFLPTUC1	LOFLPTUC1,37(1),3I<(1)
	LD0.COLPTUC1	COLPTOC1,51,37,86C(1),3I>3I<(1)
PTUV	LD0.PHPTUV1	PHPTUV1,27(1),3U<(1)
	LD0.PHPTUV2	PHPTUV2,27(2),3U<(2)
	LD0.PHPTUV3	PHPTUV3,27(3),3U<(3)
	LD0.PHPTUV4	PHPTUV4,27(4),3U<(4)

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	LD0.PHPTUV5	PHPTUV5,27(5),3U<(5)
	LD0.PSPTUV1	PSPTUV1,27PS(1),U1<(1)
	LD0.PSPTUV2	PSPTUV2,27PS(2),U1<(2)
	LD0.PSPTUV3	PSPTUV3,27PS(3),U1<(3)
	LD0.PSPTUV4	PSPTUV4,27PS(4),U1<(4)
	LD0.DQPTUV1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
	LD0.DQPTUV2	DQPTUV2,32Q,27(2),Q>->,3U<(2)
	LD0.H3EFPTUV1	H3EFPSEF1,64TN(1),dUo>/Uo3H(1)
	LD0.LVRTPTUV1	LVRTPTUV1,27RT(1),U<RT(1)
	LD0.LVRTPTUV2	LVRTPTUV2,27RT(2),U<RT(2)
	LD0.LVRTPTUV3	LVRTPTUV3,27RT(3),U<RT(3)
PDIF	LD0.LNLPDIF1	LNPLDF1,87L(1),3Id/I>(1)
	LD0.LNHPDIF1	LNPLDF1,87L(1),3Id/I>(1)
	LD0.HREFPDIF1	HREFPDIF1,87NHI(1),dIoHi>(1)
	LD0.HREFPDIF2	HREFPDIF2,87NHI(2),dIoHi>(2)
	LD0.HIAPDIF1	HIAPDIF1,87_A(1),dHi_A>(1)
	LD0.HIAPDIF2	HIAPDIF2,87_A(2),dHi_A>(2)
	LD0.HIAPDIF3	HIAPDIF3,87_A(3),dHi_A>(3)
	LD0.HIBPDIF1	HIBPDIF1,87_B(1),dHi_B>(1)
	LD0.HIBPDIF2	HIBPDIF2,87_B(2),dHi_B>(2)
	LD0.HIBPDIF3	HIBPDIF3,87_B(3),dHi_B>(3)
	LD0.HICPDIF1	HICPDIF1,87_C(1),dHi_C>(1)
	LD0.HICPDIF2	HICPDIF2,87_C(2),dHi_C>(2)
	LD0.HICPDIF3	HICPDIF3,87_C(3),dHi_C>(3)
	LD0.LREFPDIF1	LREFPNDF1,87NLI(1),dIoLo>(1)
	LD0.LREFPDIF2	LREFPNDF2,87NLI(2),dIoLo>(2)
	LD0.TR2LPDIF1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.TR2HPDIF1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.TR3LPDIF1	TR3PTDF1,87T3(1),3dI>3W(1)
	LD0.TR3HPDIF1	TR3PTDF1,87T3(1),3dI>3W(1)
	LD0.MHPDIF1	MPDIF1,87M/87G(1),3dI>M/G(1)
	LD0.MLPDIF1	MPDIF1,87M/87G(1),3dI>M/G(1)
	LD0.MHZPDIF1	MHZPDIF1,87HIM(1),3dIHi>M(1)
PHAR	LD0.LNPHAR1	LNPLDF1,87L(1),3Id/I>(1)
	LD0.INRPHAR1	INRPHAR1,68HB(1),3I2f>(1)
	LD0.INRPHAR2	INRPHAR2,68(2),3I2f>(2)
	LD0.LREFPHAR1	LREFPNDF1,87NLI(1),dIoLo>(1)
	LD0.LREFPHAR2	LREFPNDF2,87NLI(2),dIoLo>(2)
	LD0.TR2H2PHAR1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.TR2H5PHAR1	TR2PTDF1,87T(1),3dI>T(1)
	LD0.TR3H2PHAR1	TR3PTDF1,87T3(1),3dI>3W(1)
	LD0.TR3H5PHAR1	TR3PTDF1,87T3(1),3dI>3W(1)
PTOF	LD0.FRPTOF1	FRPFRQ1,81(1),f>/f
	LD0.FRPTOF2	FRPFRQ2,81(2),f>/f
	LD0.FRPTOF3	FRPFRQ3,81(3),f>/f

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	LD0.FRPTOF4	FRPFRQ4,81(4),f>/f
	LD0.FRPTOF5	FRPFRQ5,81(5),f>/f
	LD0.FRPTOF6	FRPFRQ6,81(6),f>/f
	LD0.FRPTOF7	FRPFRQ7,81(7),f>/f
	LD0.FRPTOF8	FRPFRQ8,81(8),f>/f
	LD0.FRPTOF9	FRPFRQ9,81(9),f>/f
	LD0.FRPTOF10	FRPFRQ10,81(10),f>/f
	LD0.FRPTOF11	FRPFRQ11,81(11),f>/f
	LD0.FRPTOF12	FRPFRQ12,81(12),f>/f
	LD0.LSHDPTOF1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
	LD0.LSHDPTOF2	LSHDPFRQ2,81LSH(2),UFLS/R(2)
	LD0.LSHDPTOF3	LSHDPFRQ3,81LSH(3),UFLS/R(3)
	LD0.LSHDPTOF4	LSHDPFRQ4,81LSH(4),UFLS/R(4)
	LD0.LSHDPTOF5	LSHDPFRQ5,81LSH(5),UFLS/R(5)
	LD0.LSHDPTOF6	LSHDPFRQ6,81LSH(6),UFLS/R(6)
PTUF	LD0.FRPTUF1	FRPFRQ1,81(1),f>/f
	LD0.FRPTUF2	FRPFRQ2,81(2),f>/f
	LD0.FRPTUF3	FRPFRQ3,81(3),f>/f
	LD0.FRPTUF4	FRPFRQ4,81(4),f>/f
	LD0.FRPTUF5	FRPFRQ5,81(5),f>/f
	LD0.FRPTUF6	FRPFRQ6,81(6),f>/f
	LD0.FRPTUF7	FRPFRQ7,81(7),f>/f
	LD0.FRPTUF8	FRPFRQ8,81(8),f>/f
	LD0.FRPTUF9	FRPFRQ9,81(9),f>/f
	LD0.FRPTUF10	FRPFRQ10,81(10),f>/f
	LD0.FRPTUF11	FRPFRQ11,81(11),f>/f
	LD0.FRPTUF12	FRPFRQ12,81(12),f>/f
	LD0.LSHDPTUF1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
	LD0.LSHDPTUF2	LSHDPFRQ2,81LSH(2),UFLS/R(2)
	LD0.LSHDPTUF3	LSHDPFRQ3,81LSH(3),UFLS/R(3)
	LD0.LSHDPTUF4	LSHDPFRQ4,81LSH(4),UFLS/R(4)
	LD0.LSHDPTUF5	LSHDPFRQ5,81LSH(5),UFLS/R(5)
	LD0.LSHDPTUF6	LSHDPFRQ6,81LSH(6),UFLS/R(6)
PFRC	LD0.FRPFRC1	FRPFRQ1,81(1),f>/f
	LD0.FRPFRC2	FRPFRQ2,81(2),f>/f
	LD0.FRPFRC3	FRPFRQ3,81(3),f>/f
	LD0.FRPFRC4	FRPFRQ4,81(4),f>/f
	LD0.FRPFRC5	FRPFRQ5,81(5),f>/f
	LD0.FRPFRC6	FRPFRQ6,81(6),f>/f
	LD0.FRPFRC7	FRPFRQ7,81(7),f>/f
	LD0.FRPFRC8	FRPFRQ8,81(8),f>/f
	LD0.FRPFRC9	FRPFRQ9,81(9),f>/f
	LD0.FRPFRC10	FRPFRQ10,81(10),f>/f
	LD0.FRPFRC11	FRPFRQ11,81(11),f>/f
	LD0.FRPFRC12	FRPFRQ12,81(12),f>/f

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	LD0.LSHDPFRC1	LSHDPFRQ1,81LSH(1),UFLS/R(1)
	LD0.LSHDPFRC2	LSHDPFRQ2,81LSH(2),UFLS/R(2)
	LD0.LSHDPFRC3	LSHDPFRQ3,81LSH(3),UFLS/R(3)
	LD0.LSHDPFRC4	LSHDPFRQ4,81LSH(4),UFLS/R(4)
	LD0.LSHDPFRC5	LSHDPFRQ5,81LSH(5),UFLS/R(5)
	LD0.LSHDPFRC6	LSHDPFRQ6,81LSH(6),UFLS/R(6)
PIOC	LD0.ARCPIOC11	ARCSARC1,AFD(1),ARC(1)
	LD0.ARCPIOC12	ARCSARC1,AFD(1),ARC(1)
	LD0.ARCPIOC21	ARCSARC2,AFD(2),ARC(2)
	LD0.ARCPIOC22	ARCSARC2,AFD(2),ARC(2)
	LD0.ARCPIOC31	ARCSARC3,AFD(3),ARC(3)
	LD0.ARCPIOC32	ARCSARC3,AFD(3),ARC(3)
	LD0.ARCPIOC41	ARCSARC4,AFD(4),ARC(4)
	LD0.ARCPIOC42	ARCSARC4,AFD(4),ARC(4)
PVPH	LD0.OEPVPH1	OEPVPH1,24(1),U/f>(1)
	LD0.OEPVPH2	OEPVPH2,24(2),U/f>(2)
PSCH	LD0.DSOCPSCH1	DSOCPSCH1,85 21SCHLGC(1),CL(1)
	LD0.RESCPSCH1	RESCPSCH1,85 67G/N SCHLGC(1),CLN(1)
	LD0.RCRWPSCH1	RCRWPSCH1,85 67G/N CREV,WEI(1),CLCRWN(1)
	LD0.CRWPSCH1	CRWPSCH1,85 21CREV,WEI(1),CLCRW(1)
PDOP	LD0.DQPDOP1	DQPTUV1,32Q,27(1),Q>->,3U<(1)
	LD0.DQPDOP2	DQPTUV2,32Q,27(2),Q>->,3U<(2)
	LD0.DPPDOP1	DOPPDPR1,32R/32O(1),P>/Q>(1)
	LD0.DPPDOP2	DOPPDPR2,32R/32O(2),P>/Q>(2)
	LD0.DPPDOP3	DOPPDPR3,32R/32O(3),P>/Q>(3)
PPAM	LD0.VVSPPAM1	VVSPPAM1,78VS(1),VS(1)
	LD0.VVSPPAM2	VVSPPAM2,78VS(2),VS(2)
	LD0.VVSPPAM3	VVSPPAM3,78VS(3),VS(3)
PTTR	LD0.T1PTTR1	T1PTTR1,49F(1),3Ith>F(1)
	LD0.T2PTTR1	T2PTTR1,49T/G/C(1),3Ith>T/G/C(1)
	LD0.RPTTR1	RPTTR1,49R(1),3Ith>R(1)
	LD0.MPTTR1	MPTTR1,49M(1),3Ith>M(1)
PVOC	LD0.PHPVOC1	PHPVOC1,51V(1),3I(U)>(1)
	LD0.PHPVOC2	PHPVOC2,51V(2),3I(U)>(2)
	LD0.PHPVOC3	PHPVOC3,51V(3),3I(U)>(3)
	LD0.PHPVOC4	PHPVOC4,51V(4),3I(U)>(4)
	LD0.PHPVOC5	PHPVOC5,51V(5),3I(U)>(5)
	LD0.GAEPVOC1	GAEPVOC1,50/27(1),U(1)
PHIZ	LD0.PHIZ1	PHIZ1,HIZ(1),HIF(1)
PTDV	LD0.H3EFPTDV1	H3EFPSEF1,64TN(1),dUo>/Uo3H(1)
PDUP	LD0.DPPDUP1	DUPPDPR1,32U(1),P<(1)
	LD0.DPPDUP2	DUPPDPR2,32U(2),P<(2)
	LD0.DPPDUP3	DUPPDPR3,32U(3),P<(3)
PMSS	LD0.STTPMSS1	STTPMSU1,49,66,48,50TDLR(1),Is2t n<(1)
PMRI	LD0.STTPMRI1	STTPMSU1,49,66,48,50TDLR(1),Is2t n<(1)

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	LD0.MSCPMRI1	MSCPMRI1,66(1),n<(1)

Table 9 Q: Logical nodes for power quality events

QVVR	LD0.PH1QVVR1	PHQVVR1,PQMV SWE,SAG,INT(1),PQMU(1)
	LD0.PH2QVVR1	PHQVVR1,PQMV SWE,SAG,INT(1),PQMU(1)
	LD0.PH3QVVR1	PHQVVR1,PQMV SWE,SAG,INT(1),PQMU(1)
	LD0.PH1QVVR2	PHQVVR2,PQMV SWE,SAG,INT(2),PQMU(2)
	LD0.PH2QVVR2	PHQVVR2,PQMV SWE,SAG,INT(2),PQMU(2)
	LD0.PH3QVVR2	PHQVVR2,PQMV SWE,SAG,INT(2),PQMU(2)
QVUB	LD0.VSQVUB1	VSQVUB1,PQMV UB(1),PQUUB(1)
	LD0.VSQVUB2	VSQVUB2,PQMV UB(2),PQUUB(2)

Table 10 R: Logical nodes for protection related functions

RFRC	LD0.FLTRFRC1	FLTRFRC1,FR,FAULTREC
	LD0.FLTRFRC2	FLTRFRC2
	LD0.FLTRFRC3	FLTRFRC3
	LD0.GFC1RFRC1	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.GFC2RFRC1	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.GFC3RFRC1	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.IF1RFRC1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IF2RFRC1	IFPTOC1,46SNQ/59N(1),IFPTOC(1)
	LD0.IF1RFRC2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IF2RFRC2	IFPTOC2,46SNQ/59N(2),IFPTOC(2)
	LD0.IF1RFRC3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
	LD0.IF2RFRC3	IFPTOC3,46SNQ/59N(3),IFPTOC(3)
	LD0.FLO1RFRC1	SCEFRFLO1,FLOC(1)
RLRC	LD0.LDPRLRC1	LDPRLRC1
RBRF	LD0.CCBRBRF1	CCBRBRF1,50BF(1),3I>/Io>BF(1)
	LD0.CCBRBRF2	CCBRBRF2,51BF/51NBF(2),3I>/Io>BF(2)
	LD0.CCBRBRF3	CCBRBRF3,51BF/51NBF(3),3I>/Io>BF(3)
RDIR	LD0.DPHLRDIR1	DPHLPDOC1,67P/51P-1(1),3I>->(1)
	LD0.DPHLRDIR2	DPHLPDOC2,67P/51P-1(2),3I>->(2)
	LD0.DPHLRDIR3	DPHLPDOC3,67P/51P-1(3),3I>->(3)
	LD0.DPHLRDIR4	DPHLPDOC4,67P/51P-1(4),3I>->(4)
	LD0.DPHLRDIR5	DPHLPDOC5,67P/51P-1(5),3I>->(5)
	LD0.DPHHRDIR1	DPHHPDOC1,67P/51P-2(1),3I>>->(1)
	LD0.DPHHRDIR2	DPHHPDOC2,67-2(2),3I>>->(2)
	LD0.DPHHRDIR3	DPHHPDOC3,67P/51P-2(3),3I>>->(3)
	LD0.DPHHRDIR4	DPHHPDOC4,67-2(4),3I>>->(4)
	LD0.DPHHRDIR5	DPHHPDOC5,67-2(5),3I>>->(5)
	LD0.GFCRDIR1	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.DSTRDIR1	DSTPDIS1,21P,21N(1),Z<(1)
	LD0.DEFLRDIR1	DEFLPDEF1,67G/N-1 51G/N-1(1),Io>->(1)

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	LD0.DEFLRDIR2	DEFLPDEF2,67G/N-1 51G/N-1(2),Io>->(2)
	LD0.DEFLRDIR3	DEFLPDEF3,67G/N-1 51G/N-1(3),Io>->(3)
	LD0.DEFLRDIR4	DEFLPDEF4,67G/N-1 51G/N-1(4),Io>->(4)
	LD0.DEFLRDIR5	DEFLPDEF5,67G/N-1 51G/N-1(5),Io>->(5)
	LD0.DEFHRDIR1	DEFHPDEF1,67G/N-1 51G/N-2(1),Io>>->(1)
	LD0.DEFHRDIR2	DEFHPDEF2,67G/N-1 51G/N-2(2),Io>>->(2)
	LD0.DEFHRDIR3	DEFHPDEF3,67G/N-1 51G/N-2(3),Io>>->(3)
	LD0.DEFHRDIR4	DEFHPDEF4,67G/N-1 51G/N-2(4),Io>>->(4)
	LD0.DEFHRDIR5	DEFHPDEF5,67G/N-1 51G/N-2(5),Io>>->(5)
	LD0.WRDIR1	WPWDE1,32N(1),Po>->(1)
	LD0.WRDIR2	WPWDE2,32N(2),Po>->(2)
	LD0.WRDIR3	WPWDE3,32N(3),Po>->(3)
	LD0.DPSRDIR1	DPSRDIR1,67P-TC(1),I1->(1)
	LD0.DPSRDIR2	DPSRDIR2,67P-TC(2),I1->(2)
	LD0.DPSRDIR3	DPSRDIR3,67P-TC(3),I1->(3)
	LD0.DPSRDIR4	DPSRDIR4,67P-TC(4),I1->(4)
	LD0.DNZSRDIR1	DNZSRDIR1,67N-TC(1),I2->,Io->(1)
	LD0.DNZSRDIR2	DNZSRDIR2,67N-TC(2),I2->,Io->(2)
	LD0.DNSRDIR1	DNSPDOC1,67Q,I2>->(1)
	LD0.DNSRDIR2	DNSPDOC2,67Q(2),I2>->(2)
	LD0.MFADRDIR1	MFADPSDE1,67NYH(1),Io>->Y(1)
	LD0.MFADRDIR2	MFADPSDE2,67NYH(2),Io>->Y(2)
	LD0.MFADRDIR3	MFADPSDE3,67NYH(3),Io>->Y(3)
	LD0.DNZRDIR1	DNZPDIS1,Z2Q(1),Z2>(1);
	LD0.DNZRDIR2	DNZPDIS2,Z2Q(2),Z2>(2);
	LD0.DNZRDIR3	DNZPDIS3,Z2Q(3),Z2>(3);
RMXU	LD0.LNRMXU1	LNPLDF1,87L(1),3Id/I>(1)
RQRC	LD0.QVV1RQRC1	PHQVVR1,PQMV SWE,SAG,INT(1),PQMU(1)
	LD0.QVV2RQRC1	PHQVVR1,PQMV SWE,SAG,INT(1),PQMU(1)
	LD0.QVV3RQRC1	PHQVVR1,PQMV SWE,SAG,INT(1),PQMU(1)
	LD0.QVV1RQRC2	PHQVVR2,PQMV SWE,SAG,INT(2),PQMU(2)
	LD0.QVV2RQRC2	PHQVVR2,PQMV SWE,SAG,INT(2),PQMU(2)
	LD0.QVV3RQRC2	PHQVVR2,PQMV SWE,SAG,INT(2),PQMU(2)
	LD0.QVU1RQRC1	VSQVUB1,PQMV UB(1),PQUUB(1)
	LD0.QVU2RQRC1	VSQVUB1,PQMV UB(1),PQUUB(1)
	LD0.QVU3RQRC1	VSQVUB1,PQMV UB(1),PQUUB(1)
	LD0.QVU1RQRC2	VSQVUB2,PQMV UB(2),PQUUB(2)
	LD0.QVU2RQRC2	VSQVUB2,PQMV UB(2),PQUUB(2)
	LD0.QVU3RQRC2	VSQVUB2,PQMV UB(2),PQUUB(2)
RREC	LD0.DARREC1	DARREC1,79(1),O->I(1)
	LD0.DARREC2	DARREC2,79(2),O->I(2)
RSYN	LD0.SECRSYN1	SECRSYN1,25(1),SYNC(1)
	LD0.SECRSYN2	SECRSYN2,25(2),SYNC(2)
	LD0.SECRSYN3	SECRSYN3,25(3),SYNC(3)
	LD0.SECRSYN4	SECRSYN4,25(4),SYNC(4)

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RBRC	LD0.HS1RBRC1	HSABTC1,I<->O BT(1)
	LD0.HS2RBRC1	HSABTC1,I<->O BT(1)
	LD0.HS3RBRC1	HSABTC1,I<->O BT(1)
	LD0.HS1RBRC2	HSABTC2,I<->O BT(2)
	LD0.HS2RBRC2	HSABTC2,I<->O BT(2)
	LD0.HS3RBRC2	HSABTC2,I<->O BT(2)
	LD0.HS1RBRC3	HSABTC3,I<->O BT(3)
	LD0.HS2RBRC3	HSABTC3,I<->O BT(3)
	LD0.HS3RBRC3	HSABTC3,I<->O BT(3)
RFLO	LD0.SCEFRFLO1	SCEFRFLO1,FLOC(1)
RCFD	LD0.RCFD1	RCFD1,CFD(1),RCFD(1)
	LD0.RCFD2	RCFD2,CFD(2),RCFD(2)
	LD0.RCFD3	RCFD3,CFD(3),RCFD(3)
RPSB	LD0.OOSRPSB1	OOSRPSB1,78PS,OOS
	LD0.DSTRPSB1	DSTRPSB1,68(1),Zpsb(1)
RCTF	LD0.CTSRCTF1	CTSRCTF1,CCM 3I,I2(1),MCS 3I,I2(1)
RDOB	LD0.LBRDOB1	LBRDOB1,21LB(1),LB(1)
RDRE	DR.RDRE1	Disturbance recorder
RADR	DR.A1RADR1	Analog ch 1
	DR.A1RADR2	Analog ch 2
	DR.A1RADR3	Analog ch 3
	DR.A1RADR4	Analog ch 4
	DR.A1RADR5	Analog ch 5
	DR.A1RADR6	Analog ch 6
	DR.A1RADR7	Analog ch 7
	DR.A1RADR8	Analog ch 8
	DR.A1RADR9	Analog ch 9
	DR.A1RADR10	Analog ch 10
	DR.A1RADR11	Analog ch 11
	DR.A1RADR12	Analog ch 12
	DR.A2RADR13	Analog ch 13
	DR.A2RADR14	Analog ch 14
	DR.A2RADR15	Analog ch 15
	DR.A2RADR16	Analog ch 16
	DR.A2RADR17	Analog ch 17
	DR.A2RADR18	Analog ch 18
	DR.A2RADR19	Analog ch 19
	DR.A2RADR20	Analog ch 20
	DR.A2RADR21	Analog ch 21
	DR.A2RADR22	Analog ch 22
	DR.A2RADR23	Analog ch 23
	DR.A2RADR24	Analog ch 24
RBDR	DR.B1RBDR1	Binary ch 1
	DR.B1RBDR2	Binary ch 2
	DR.B1RBDR3	Binary ch 3

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	DR.B1RBDR4	Binary ch 4
	DR.B1RBDR5	Binary ch 5
	DR.B1RBDR6	Binary ch 6
	DR.B1RBDR7	Binary ch 7
	DR.B1RBDR8	Binary ch 8
	DR.B1RBDR9	Binary ch 9
	DR.B1RBDR10	Binary ch 10
	DR.B1RBDR11	Binary ch 11
	DR.B1RBDR12	Binary ch 12
	DR.B1RBDR13	Binary ch 13
	DR.B1RBDR14	Binary ch 14
	DR.B1RBDR15	Binary ch 15
	DR.B1RBDR16	Binary ch 16
	DR.B1RBDR17	Binary ch 17
	DR.B1RBDR18	Binary ch 18
	DR.B1RBDR19	Binary ch 19
	DR.B1RBDR20	Binary ch 20
	DR.B1RBDR21	Binary ch 21
	DR.B1RBDR22	Binary ch 22
	DR.B1RBDR23	Binary ch 23
	DR.B1RBDR24	Binary ch 24
	DR.B1RBDR25	Binary ch 25
	DR.B1RBDR26	Binary ch 26
	DR.B1RBDR27	Binary ch 27
	DR.B1RBDR28	Binary ch 28
	DR.B1RBDR29	Binary ch 29
	DR.B1RBDR30	Binary ch 30
	DR.B1RBDR31	Binary ch 31
	DR.B1RBDR32	Binary ch 32
	DR.B2RBDR33	Binary ch 33
	DR.B2RBDR34	Binary ch 34
	DR.B2RBDR35	Binary ch 35
	DR.B2RBDR36	Binary ch 36
	DR.B2RBDR37	Binary ch 37
	DR.B2RBDR38	Binary ch 38
	DR.B2RBDR39	Binary ch 39
	DR.B2RBDR40	Binary ch 40
	DR.B2RBDR41	Binary ch 41
	DR.B2RBDR42	Binary ch 42
	DR.B2RBDR43	Binary ch 43
	DR.B2RBDR44	Binary ch 44
	DR.B2RBDR45	Binary ch 45
	DR.B2RBDR46	Binary ch 46
	DR.B2RBDR47	Binary ch 47
	DR.B2RBDR48	Binary ch 48

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	DR.B2RBDR49	Binary ch 49
	DR.B2RBDR50	Binary ch 50
	DR.B2RBDR51	Binary ch 51
	DR.B2RBDR52	Binary ch 52
	DR.B2RBDR53	Binary ch 53
	DR.B2RBDR54	Binary ch 54
	DR.B2RBDR55	Binary ch 55
	DR.B2RBDR56	Binary ch 56
	DR.B2RBDR57	Binary ch 57
	DR.B2RBDR58	Binary ch 58
	DR.B2RBDR59	Binary ch 59
	DR.B2RBDR60	Binary ch 60
	DR.B2RBDR61	Binary ch 61
	DR.B2RBDR62	Binary ch 62
	DR.B2RBDR63	Binary ch 63
	DR.B2RBDR64	Binary ch 64

Table 11 S: Logical nodes for supervision and monitoring

SCBR	LD0.TCSSCBR1	TCSSCBR1,TCM(1),TCS(1)
	LD0.TCSSCBR2	TCSSCBR2,TCM(2),TCS(2)
	LD0.TCSSCBR3	TCSSCBR3,TCM(3),TCS(3)
	LD0.TCSSCBR4	TCSSCBR4,TCM(4),TCS(4)
	LD0.TCSSCBR5	TCSSCBR5,TCM(5),TCS(5)
	LD0.TCSSCBR6	TCSSCBR6,TCM(6),TCS(6)
	LD0.SSCBR1	SSCBR1,52CM(1),CBCM(1)
	LD0.SPH1SCBR1	SPH1SCBR1
	LD0.SPH2SCBR1	SPH2SCBR1
	LD0.SPH3SCBR1	SPH3SCBR1
	LD0.SSCBR2	SSCBR2,52CM(2),CBCM(2)
	LD0.SPH1SCBR2	SPH1SCBR2
	LD0.SPH2SCBR2	SPH2SCBR2
	LD0.SPH3SCBR2	SPH3SCBR2
	LD0.SSCBR3	SSCBR3,52CM(3),CBCM(3)
	LD0.SPH1SCBR3	SPH1SCBR3
	LD0.SPH2SCBR3	SPH2SCBR3
	LD0.SPH3SCBR3	SPH3SCBR3
	LD0.HSF1SCBR1	HSABTC1,I<->O BT(1)
	LD0.HSF2SCBR1	HSABTC1,I<->O BT(1)
	LD0.HSF1SCBR2	HSABTC2,I<->O BT(2)
	LD0.HSF2SCBR2	HSABTC2,I<->O BT(2)
	LD0.HSF1SCBR3	HSABTC3,I<->O BT(3)
	LD0.HSF2SCBR3	HSABTC3,I<->O BT(3)
SIMG	LD0.SSIMG1	SSIMG1
	LD0.SSIMG2	SSIMG2

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	LD0.SSIMG3	SSIMG3
SOPM	LD0.SSOPM1	SSOPM1
	LD0.SSOPM2	SSOPM2
	LD0.SSOPM3	SSOPM3
SPVC	LD0.CCSPVC1	CCSPVC1,CCM(1),MCS 3I(1)
	LD0.CCSPVC2	CCSPVC2,CCM(2),MCS 3I(2)
	LD0.CCSPVC3	CCSPVC3,CCM(3),MCS 3I(3)
	LD0.CCSPVC4	CCSPVC4,CCM(4),MCS 3I(4)
	LD0.CCSPVC5	CCSPVC5,CCM(5),MCS 3I(5)
	LD0.SEQSPVC1	SEQSPVC1,VCM,60(1),FUSEF(1)
	LD0.SEQSPVC2	SEQSPVC2,60(2),FUSEF(2)
	LD0.SEQSPVC3	SEQSPVC3,60(3),FUSEF(3)
	LD0.SEQSPVC4	SEQSPVC4,60(4),FUSEF(4)
	LD0.SEQSPVC5	SEQSPVC5,60(5),FUSEF(5)
	LD0.SEQSPVC6	SEQSPVC6,60(6),FUSEF(6)
	LD0.SEQSPVC7	SEQSPVC7,60(7),FUSEF(7)
	LD0.HZCCASPVC1	HZCCASPVC1,CCM_A(1),MCS I_A(1)
	LD0.HZCCASPVC2	HZCCASPVC2,CCM_A(2),MCS I_A(2)
	LD0.HZCCASPVC3	HZCCASPVC3,CCM_A(3),MCS I_A(3)
	LD0.HZCCBSPVC1	HZCCBSPVC1,CCM_B(1),MCS I_B(1)
	LD0.HZCCBSPVC2	HZCCBSPVC2,CCM_B(2),MCS I_B(2)
	LD0.HZCCBSPVC3	HZCCBSPVC3,CCM_B(3),MCS I_B(3)
	LD0.HZCCCSPVC1	HZCCCSPVC1,CCM_C(1),MCS I_C(1)
	LD0.HZCCCSPVC2	HZCCCSPVC2,CCM_C(2),MCS I_C(2)
	LD0.HZCCCSPVC3	HZCCCSPVC3,CCM_C(3),MCS I_C(3)
SARC	LD0.ARCSARC11	ARCSARC1,AFD(1),ARC(1)
	LD0.ARCSARC21	ARCSARC2,AFD(2),ARC(2)
	LD0.ARCSARC31	ARCSARC3,AFD(3),ARC(3)
	LD0.ARCSARC41	ARCSARC4,AFD(4),ARC(4)
SVPR	LD0.MSVPR1	MSVPR1,27R(1),3U<R(1)
	LD0.MSVPR2	MSVPR2,27R(2),3U<R(2)
	LD0.MSVPR3	MSVPR3,27R(3),3U<R(3)
SPTR	LD0.HSARSPTR1	HSARSPTR1,26/49HS,3Ihp>T
	LD0.ARASPTR1	HSARSPTR1,26/49HS,3Ihp>T
SSWI	LD0.ESDCSSWI1	ESDCSSWI1,29CM(1),ESDCM(1)
	LD0.ESDCMSSWI1	ESDCSSWI1,29CM(1),ESDCM(1)
	LD0.ESDCSSWI2	ESDCSSWI2,29CM(2),ESDCM(2)
	LD0.ESDCMSSWI2	ESDCSSWI2,29CM(2),ESDCM(2)
	LD0.ESDCSSWI3	ESDCSSWI3,29CM(3),ESDCM(3)
	LD0.ESDCMSSWI3	ESDCSSWI3,29CM(3),ESDCM(3)
	LD0.ESDCSSWI4	ESDCSSWI4,29CM(4),ESDCM(4)
	LD0.ESDCMSSWI4	ESDCSSWI4,29CM(4),ESDCM(4)
	LD0.ESDCSSWI5	ESDCSSWI5,29CM(5),ESDCM(5)
	LD0.ESDCMSSWI5	ESDCSSWI5,29CM(5),ESDCM(5)
	LD0.ESDCSSWI6	ESDCSSWI6,29CM(6),ESDCM(6)

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	LD0.ESDCMSSWI6	ESDCSSWI6,29CM(6),ESDCM(6)
	LD0.ESDCSSWI7	ESDCSSWI7,29CM(7),ESDCM(7)
	LD0.ESDCMSSWI7	ESDCSSWI7,29CM(7),ESDCM(7)
	LD0.ESDCSSWI8	ESDCSSWI8,29CM(8),ESDCM(8)
	LD0.ESDCMSSWI8	ESDCSSWI8,29CM(8),ESDCM(8)
	LD0.ESDCSSWI9	ESDCSSWI9,29CM(9),ESDCM(9)
	LD0.ESDCMSSWI9	ESDCSSWI9,29CM(9),ESDCM(9)
	LD0.ESDCSSWI10	ESDCSSWI10,29CM(10),ESDCM(10)
	LD0.ESDCMSSWI10	ESDCSSWI10,29CM(10),ESDCM(10)
	LD0.ESDCSSWI11	ESDCSSWI11,29CM(11),ESDCM(11)
	LD0.ESDCMSSWI11	ESDCSSWI11,29CM(11),ESDCM(11)
SOPT	LD0.MDSOPT1	MDSOPT1,OPTM(1),OPTS(1)
	LD0.MDSOPT2	MDSOPT2,OPTM(2),OPTS(2)

Table 12 T: Logical nodes for instrument transformers and sensors

TCTR	LD0.IL1TCTR1	Current (3I)
	LD0.IL2TCTR1	Current (3I)
	LD0.IL3TCTR1	Current (3I)
	LD0.IL1TCTR2	Current (3IB)
	LD0.IL2TCTR2	Current (3IB)
	LD0.IL3TCTR2	Current (3IB)
	LD0.IL1TCTR3	Current (3IC)
	LD0.IL2TCTR3	Current (3IC)
	LD0.IL3TCTR3	Current (3IC)
	LD0.IL1TCTR4	Current (3ID)
	LD0.IL2TCTR4	Current (3ID)
	LD0.IL3TCTR4	Current (3ID)
	LD0.IL1TCTR5	Current (3IE)
	LD0.IL2TCTR5	Current (3IE)
	LD0.IL3TCTR5	Current (3IE)
	LD0.IL1TCTR6	Current (3IF)
	LD0.IL2TCTR6	Current (3IF)
	LD0.IL3TCTR6	Current (3IF)
	LD0.IL1TCTR7	Current (3IG)
	LD0.IL2TCTR7	Current (3IG)
	LD0.IL3TCTR7	Current (3IG)
	LD0.IL1TCTR8	Current (3IH)
	LD0.IL2TCTR8	Current (3IH)
	LD0.IL3TCTR8	Current (3IH)
	LD0.RESUTCTR1	Current (Io(U))
	LD0.RESTCTR1	Current (Io)
	LD0.RESTCTR2	Current (IoB)
	LD0.RESTCTR3	Current (IoC)
	LD0.RESTCTR4	Current (IoD)

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	LD0.RESTCTR5	Current (IoE)
	LD0.RESTCTR6	Current (IoF)
	LD0.RESTCTR7	Current (IoG)
	LD0.RESTCTR8	Current (IoH)
	MU01.I01ATCTR1	Std conformance
	MU01.I01BTCTR2	Std conformance
	MU01.I01CTCTR3	Std conformance
	MU01.I01NTCTR4	Std conformance
TVTR	LD0.UL1TVTR1	Voltage (3U)
	LD0.UL2TVTR1	Voltage (3U)
	LD0.UL3TVTR1	Voltage (3U)
	LD0.RESTVTR1	Voltage (Uo)
	LD0.UL1TVTR2	Voltage (3UB)
	LD0.UL2TVTR2	Voltage (3UB)
	LD0.UL3TVTR2	Voltage (3UB)
	LD0.RESTVTR2	Voltage (UoB)
	LD0.UL1TVTR3	Voltage (3UC)
	LD0.UL2TVTR3	Voltage (3UC)
	LD0.UL3TVTR3	Voltage (3UC)
	LD0.RESTVTR3	Voltage (UoC)
	LD0.UL1TVTR4	Voltage (3UD)
	LD0.UL2TVTR4	Voltage (3UD)
	LD0.UL3TVTR4	Voltage (3UD)
	LD0.RESTVTR4	Voltage (UoD)
	LD0.UL1TVTR5	Voltage (3UE)
	LD0.UL2TVTR5	Voltage (3UE)
	LD0.UL3TVTR5	Voltage (3UE)
	LD0.RESTVTR5	Voltage (UoE)
	LD0.UL1TVTR6	Voltage (3UF)
	LD0.UL2TVTR6	Voltage (3UF)
	LD0.UL3TVTR6	Voltage (3UF)
	LD0.RESTVTR6	Voltage (UoF)
	LD0.UL1TVTR7	Voltage (3UG)
	LD0.UL2TVTR7	Voltage (3UG)
	LD0.UL3TVTR7	Voltage (3UG)
	LD0.RESTVTR7	Voltage (UoG)
	LD0.UL1TVTR8	Voltage (3UH)
	LD0.UL2TVTR8	Voltage (3UH)
	LD0.UL3TVTR8	Voltage (3UH)
	LD0.RESTVTR8	Voltage (UoH)
	MU01.U01ATVTR1	Std conformance
	MU01.U01BTVTR2	Std conformance
	MU01.U01CTVTR3	Std conformance
	MU01.U01NTVTR4	Std conformance

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Table 13 X: Logical Nodes for switchgear

XCBR	CTRL.CBXCBR1	CBXCBR1,I<->O CB(1)
	CTRL.CBXCBR2	CBXCBR2,52(2),I<->O CB(2)
	CTRL.CBXCBR3	CBXCBR3,52(3),I<->O CB(3)
	CTRL.CBXCBR4	CBXCBR4,52(4),I<->O CB(4)
	CTRL.CBXCBR5	CBXCBR5,52(5),I<->O CB(5)
XSWI	CTRL.DCXSWI1	DCXSWI1,29DS(1),I<->O DCC(1)
	CTRL.DCXSWI2	DCXSWI2,29DS(2),I<->O DCC(2)
	CTRL.DCXSWI3	DCXSWI3,29DS(3),I<->O DCC(3)
	CTRL.DCXSWI4	DCXSWI4,29DS(4),I<->O DCC(4)
	CTRL.DCXSWI5	DCXSWI5,29DS(5),I<->O DCC(5)
	CTRL.DCXSWI6	DCXSWI6,29DS(6),I<->O DCC(6)
	CTRL.DCXSWI7	DCXSWI7,29DS(7),I<->O DCC(7)
	CTRL.DCXSWI8	DCXSWI8,29DS(8),I<->O DCC(8)
	CTRL.DCSXSWI1	DCSXSWI1,29DS(1),I<->O DC(1)
	CTRL.DCSXSWI2	DCSXSWI2,29DS(2),I<->O DC(2)
	CTRL.DCSXSWI3	DCSXSWI3,29DS(3),I<->O DC(3)
	CTRL.DCSXSWI4	DCSXSWI4,29DS(4),I<->O DC(4)
	CTRL.DCSXSWI5	DCSXSWI5,29DS(5),I<->O DC(5)
	CTRL.DCSXSWI6	DCSXSWI6,29DS(6),I<->O DC(6)
	CTRL.DCSXSWI7	DCSXSWI7,29DS(7),I<->O DC(7)
	CTRL.DCSXSWI8	DCSXSWI8,29DS(8),I<->O DC(8)
	CTRL.ESXSWI1	ESXSWI1,29GS(1),I<->O ESC(1)
	CTRL.ESXSWI2	ESXSWI2,29GS(2),I<->O ESC(2)
	CTRL.ESXSWI3	ESXSWI3,29GS(3),I<->O ESC(3)
	CTRL.ESSXSWI1	ESSXSWI1,29GS(1),I<->O ES(1)
	CTRL.ESSXSWI2	ESSXSWI2,29GS(2),I<->O ES(2)
	CTRL.ESSXSWI3	ESSXSWI3,29GS(3),I<->O ES(3)
	CTRL.P3SDXSWI1	P3SXSWI1,29DS/GS(1),I<->O P3S(1)
	CTRL.P3SEXSWI1	P3SXSWI1,29DS/GS(1),I<->O P3S(1)
	CTRL.P3SDXSWI2	P3SXSWI2,29DS/GS(2),I<->O P3S(2)
	CTRL.P3SEXSWI2	P3SXSWI2,29DS/GS(2),I<->O P3S(2)
	CTRL.P3SDXSWI3	P3SXSWI3,29DS/GS(3),I<->O P3S(3)
	CTRL.P3SEXSWI3	P3SXSWI3,29DS/GS(3),I<->O P3S(3)
	CTRL.P3SDXSWI4	P3SXSWI4,29DS/GS(4),I<->O P3S(4)
	CTRL.P3SEXSWI4	P3SXSWI4,29DS/GS(4),I<->O P3S(4)
	CTRL.P3SDXSWI5	P3SXSWI5,29DS/GS(5),I<->O P3S(5)
	CTRL.P3SEXSWI5	P3SXSWI5,29DS/GS(5),I<->O P3S(5)
	CTRL.P3SDXSWI6	P3SXSWI6,29DS/GS(6),I<->O P3S(6)
	CTRL.P3SEXSWI6	P3SXSWI6,29DS/GS(6),I<->O P3S(6)
	CTRL.P3SSDXSWI1	P3SSXSWI1,29DS/GS(1),I<->O P3SS(1)
	CTRL.P3SSEXSWI1	P3SSXSWI1,29DS/GS(1),I<->O P3SS(1)
	CTRL.P3SSDXSWI2	P3SSXSWI2,">29DS/GS(2),I<->O P3SS(2)
	CTRL.P3SSEXSWI2	P3SSXSWI2,">29DS/GS(2),I<->O P3SS(2)

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	CTRL.P3SSDXSWI3	P3SSXSWI3,">29DS/GS(3),I<->O P3SS(3)
	CTRL.P3SSEXSWI3	P3SSXSWI3,">29DS/GS(3),I<->O P3SS(3)
	CTRL.P3SSDXSWI4	P3SSXSWI4,">29DS/GS(4),I<->O P3SS(4)
	CTRL.P3SSEXSWI4	P3SSXSWI4,">29DS/GS(4),I<->O P3SS(4)
	CTRL.P3SSDXSWI5	P3SSXSWI5,">29DS/GS(5),I<->O P3SS(5)
	CTRL.P3SSEXSWI5	P3SSXSWI5,">29DS/GS(5),I<->O P3SS(5)
	CTRL.P3SSDXSWI6	P3SSXSWI6,">29DS/GS(6),I<->O P3SS(6)
	CTRL.P3SSEXSWI6	P3SSXSWI6,">29DS/GS(6),I<->O P3SS(6)

Table 14 Y: Logical nodes for power transformers

YLTC	LD0.TPOSYLTC1	TPOSYLTC1,84T(1),TPOSM(1)
YEFN	LD0.PASYEFN1	PASANCR1,90,ANCR
YPTR	LD0.HSARYPTR1	HSARSPTR1,26/49HS,3Ihp>T

Table 15 Z: Logical nodes for further power system equipment

ZGEN	LD0.DGMZGEN1	DGMGAPC1,32/40G,P><
ZLIN	LD0.SCEF1ZLIN1	SCEFRFLO1,FLOC(1)
	LD0.SCEF2ZLIN1	SCEFRFLO1,FLOC(1)
	LD0.SCEF3ZLIN1	SCEFRFLO1,FLOC(1)

5. Logical Node Extensions

5.1. New Logical Nodes

5.1.1 LN: LINF1 Name: LINF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Re-marks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev7_LPL_LD0_LINF_ED2	Name plate		
BayNam	ABBIED600_Rev4_VSG_2_20	Name of the bay		
CfgNam	ABBIED600_Rev3_VSG_1_20	IED confi-guration name		
DevRev	ABBIED600_Rev3_VSG_1_64	Product version number		

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CstNam	ABBIED600_Rev2_VSG_2_64	Name of the customer		
CstStNam	ABBIED600_Rev2_VSG_2_64	Name of the state		
CstStreNam	ABBIED600_Rev2_VSG_2_64	Name of the street		
CstHouNum	ABBIED600_Rev2_VSG_2_64	Number of the house		
CstZip	ABBIED600_Rev4_VSG_2_20	ZIP/Postal code		
CstCityNam	ABBIED600_Rev2_VSG_2_64	City/Province		
CstCntyNam	ABBIED600_Rev2_VSG_2_64	Name of the country		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2	Card information		
TestStaId	ABBIED600_Rev1_VSS_dU_20	Testing		
HwId	ABBIED600_Rev1_VSS_1_20	HW module		
DevLev	ABBIED600_Rev3_VSG_1_64	Interface level		

5.1.2 LN: LDEV1 Name: LDEV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev6_LPL_LD0_LDEV_ED2	Name plate		
SwrNum	ABBIED600_Rev1_VSS_1_20	SW		
OrdrNum	ABBIED600_Rev1_VSS_1_20	Order number		
WrmStrDet	ABBIED600_Rev1_SPS	Warm start detected		
WacTrgDet	ABBIED600_Rev1_SPS	Watchdog reset detected		
DevWrn	ABBIED600_Rev20_ENS_warning	Warning		

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DevWrnSt	ABBIED600_Rev1_SPS	Warning as binary		
DevFail	ABBIED600_Rev16_ENS_error	Internal Fault		
DevFailSt	ABBIED600_Rev1_SPS	Internal Fault as binary		
StLstOv	ABBIED600_Rev1_SPS	Status overflow		
MeasLstOv	ABBIED600_Rev1_SPS	Meas overflow		
ChgAckCnt	ABBIED600_Rev1_INS_retain	Number of composition changes		
ChgFlg	ABBIED600_Rev3_INC_control_int	Composition has changed		status-only,direct-with-normal-security
WrmStrCmd	ABBIED600_Rev3_SPC_control	Reset device		status-only,direct-with-normal-security
FailTest	ABBIED600_Rev3_SPC_control	Internal fault test		status-only,direct-with-normal-security
BlkMod	ABBIED600_Rev3_ENG_SP_BlkMod_Sub1	Global blocking mode		

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		selec-tion		
HzSetSel	ABBIED600_Rev3_ENG_SP_HzSet	Rated fre-quency		
PhRotSet	ABBIED600_Rev3_ENG_SP_PhRotSet	Phase rotation order		
DigVLev	ABBIED600_Rev2_ING_SP	Input threshol d vol-tage		
DigOs-cLev	ABBIED600_Rev2_ING_SP_1	Input osc. le-vel		
DigOs-cHys	ABBIED600_Rev2_ING_SP_1	Input osc. hyst		
SetSeld	ABBIED600_Rev1_SPS	Settings reserva-tion		
SetChg	ABBIED600_Rev1_SPS	Settings change		
PhOrd-Mod	ABBIED600_Rev3_ENG_SP_PhOrdSet	Phase connec-tion or-der		
ACrvSatPt	ABBIED600_Rev4_ASG_SP_f	Over-current IDMT satura-tion point		
AD-mdAvMod	ABBIED600_Rev3_ENG_SP_DmdAvMod	A de-mand Av mode		
MtrD-mdIntv	ABBIED600_Rev3_ENG_SP_dmdItrv	De-mand interval		
HzAd-pEna	ABBIED600_Rev2_SPG_SP	Fre-quency adapti-vity		

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ModRemCtl	ABBIED600_Rev4_ENG_SP_ModRemCtrl	Authority for remote activation of test mode		
LangSel	ABBIED600_Rev7_ENG_SP_Languages	Language selection		
Contr	ABBIED600_Rev2_ING_SP_1	Contrast selection		
NumFrm	ABBIED600_Rev2_ING_SP_1	NUMf		
LgtLivTm	ABBIED600_Rev2_ING_SP_1	Backligth timeout		
TmFrm	ABBIED600_Rev3_ENG_SP_FormatTime	Time format		
DateFrm	ABBIED600_Rev3_ENG_SP_FormatDate	Date format		
NamConvn	ABBIED600_Rev5_ENG_SP_NamingConvention_Sub1	FB naming convention		
DftVw	ABBIED600_Rev5_ENG_SP_DefaultView	Default view		
WhmiMod	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Web HMI mode		
ConnExpTm	ABBIED600_Rev7_ING_SP_Unit	Web HMI timeout		
EvtLstClr	ABBIED600_Rev3_SPC_control	Event clear		status-only,direct-with-normal-security
SLDSymFrm	ABBIED600_Rev3_ENG_SP_SLDSymbolFormat	SLD symbol format		

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ScrDlTms	ABBIED600_Rev2_ING_SP_1	Au-toscroll delay		
ClsDlMod	ABBIED600_Rev3_ENG_SP_InUse	CB close delay mode		
ClsDlTms	ABBIED600_Rev2_ING_SP_1	CB close delay		
SetVsb	ABBIED600_Rev3_ENG_SP_SetVsb	Setting visibi-lity		
CBCnfMo d	ABBIED600_Rev2_ENG_SP_BrkConfMod	LHMI breaker opera-tion confir-mation		
UsrLo-gEna1	ABBIED600_Rev4_ENG_SP_Enable	Autho-rity Log-ging		
UsrLo-gEna2	ABBIED600_Rev4_ENG_SP_Enable	Autho-rity Log-ging		
SrvI-PAddr1	ABBIED600_Rev4_VSG_2_20	Remote Server IP		
SrvI-PAddr2	ABBIED600_Rev4_VSG_2_20	Remote Server IP		
SrvPort1	ABBIED600_Rev2_ING_SP_1	Com-munica-tion port used		
SrvPort2	ABBIED600_Rev2_ING_SP_1	Com-munica-tion port used		

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CommTyp 1	ABBIED600_Rev3_ENG_SP_CommConnTyp	Con-nection Type		
CommTyp 2	ABBIED600_Rev3_ENG_SP_CommConnTyp	Con-nection Type		
CAMI-PAddr1	ABBIED600_Rev4_VSG_2_20	IP ad-dress of CAM server 1		
CAMI-PAddr2	ABBIED600_Rev4_VSG_2_20	IP ad-dress of CAM server 2		
CAMRpl Gr	ABBIED600_Rev2_VSG_2	Repli-cation group name		
CAM-BaseNam	ABBIED600_Rev2_VSG_2_64	CAM base name		
HzAd-pFail	ABBIED600_Rev1_SPS	Fre-quency adapti-vity sta-tus		
Dig-VLevMod	ABBIED600_Rev2_SPG_SP	Input voltage threshol d mode		
Dig-VHysMod	ABBIED600_Rev2_SPG_SP	Input voltage hyste-resis mode		
DigVHys	ABBIED600_Rev2_ING_SP	Input threshol d hyste-resis		
Udn	ABBIED600_Rev2_SPG_SP_TxtInput	User Defined name parame-ter		

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CmpCd	ABBIED600_Rev3_VSG_1	Com-position Code		
HzAdpBu	ABBIED600_Rev1_SPS	Backup fre-quency adapti-vity source		
DevStrReas	ABBIED600_Rev2_ENS_DevStrReas	Boot up reason		
DevFailAct	ABBIED600_Rev5_ENS_error_action	Recom-mended fault re-covery action		
DevWrnAct	ABBIED600_Rev7_ENS_warning_action	Recom-mended warning action		
SenAllEvt	ABBIED600_Rev3_SPC_control	Send all events		status-only,direct-with-nor-mal-secu-rity
HzAd-pWrn	ABBIED600_Rev1_SPS	Fre-quency adapti-vity warning		
PhShtDet	ABBIED600_Rev2_SPG_SP	Vector (phase angle) shift de-tection		
IndTms	ABBIED600_Rev2_ING_SP_1	Indica-tion ti-meout		
IndEna	ABBIED600_Rev4_ENG_SP_Enable	Indica-tion enable		

5.1.3 LN: ETHLDEV1 Name: LDEV (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev3_LPL_LD0_LDEV_1_ED2	Name plate		
IPAddr1	ABBIED600_Rev4_VSG_2_20_e	IP address for Network1	E	ABBIED600:2014
IPSubNtw1	ABBIED600_Rev4_VSG_2_20_e	Subnet mask for Network1	E	ABBIED600:2014
IPAddrGtw1	ABBIED600_Rev4_VSG_2_20_e	Default gateway for Network1	E	ABBIED600:2014
Mac1	ABBIED600_Rev3_VSG_1_20_e	Mac address for Network1	E	ABBIED600:2014

5.1.4 LN: ETHLDEV2 Name: LDEV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev3_LPL_LD0_LDEV_1_ED2	Name plate		
IPAddr1	ABBIED600_Rev4_VSG_2_20_e	IP address for Network2	E	ABBIED600:2014

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IP-SubNtw1	ABBIED600_Rev4_VSG_2_20_e	Sub-net mask for Net-work2	E	ABBIED600:2014
IPAd-drGtw1	ABBIED600_Rev4_VSG_2_20_e	De-fault gate-way for Net-work2	E	ABBIED600:2014
Mac1	ABBIED600_Rev4_VSG_2_20_e	Mac addres s for Net-work2	E	ABBIED600:2014
IPEna	ABBIED600_Rev2_SPG_SP_e	Enabl e Net-work2 IP addres s	E	ABBIED600:2014

5.1.5 LN: HMILDEV1 Name: LDEV (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
NamPlt	ABBIED600_Rev3_LPL_LD0_LDEV_1_ED2	Nam e plate		
IPAddr1	ABBIED600_Rev3_VSG_1_20_e	IP ad-dress for HMI port	E	ABBIED600:2014
Mac1	ABBIED600_Rev3_VSG_1_20_e	Mac ad-dress	E	ABBIED600:2014

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		for HMI port		

5.1.6 LN: GSELPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
FrRxCnt	ABBIED600_Rev1_INS	Received msgs		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted Messages		
RxStCnt	ABBIED600_Rev1_INS	Received State Changes		
RxSeqCnt	ABBIED600_Rev1_INS	Received Sequence Number		
RxTestCnt	ABBIED600_Rev1_INS	Received frames with Test bit		
StWrnCnt	ABBIED600_Rev1_INS	State warnings		
SeqWrnCnt	ABBIED600_Rev1_INS	Sequence warnings		
RxTmOutCnt	ABBIED600_Rev1_INS	Receiver Timeouts		
CfgErrCnt	ABBIED600_Rev1_INS	Received ConfRev mismatches		
NdsComCnt	ABBIED600_Rev1_INS	Received frames with NeedsCommissioning bit		

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Dat-SetErrCnt	ABBIED600_Rev1_INS	Errors in received dataset		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
CntRs	ABBIED600_Rev3_SPC_control_e	Goose counters reset	E	ABBIED600:2014,status-only,direct-with-normal-security
RptProtCnt	ABBIED600_Rev1_INS	Replay Protection Warnings		
ChgDe-tIntvTm	ABBIED600_Rev7_ING_SP_Unit	Change detection interval time		

5.1.7 LN: MMSLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev5_LPL_mms	Name plate		
SucConn	ABBIED600_Rev1_INS	Suc-cess-ful Con-necti-ons		
FailConn	ABBIED600_Rev1_INS	Failed Con-necti-ons		
ConcCnt	ABBIED600_Rev1_INS	Con-cludes		
TxAbtCnt	ABBIED600_Rev1_INS	Sent Abort s		
RxAbtCnt	ABBIED600_Rev1_INS	Re-ceived Abort s		

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TxRejCnt	ABBIED600_Rev1_INS	Sent Rejects		
RxRqCnt	ABBIED600_Rev1_INS	Received Request		
FailRqCnt	ABBIED600_Rev1_INS	Failed Requests		
SucReaCnt	ABBIED600_Rev1_INS	Successful Reads		
FailReaCnt	ABBIED600_Rev1_INS	Failed Reads		
SucWrCnt	ABBIED600_Rev1_INS	Successful Writes		
FailWrCnt	ABBIED600_Rev1_INS	Failed Writes		
InfRpCnt	ABBIED600_Rev1_INS	Information Reports		
ActConnCnt	ABBIED600_Rev1_INS	Active Connections		
UntMod	ABBIED600_Rev3_ENG_SP_UnitMod	Unit mode		
SetCnfMod	ABBIED600_Rev3_SPC_technical	Setting group editing mode		status-only,direct-with-normal-security
CntRs	ABBIED600_Rev3_SPC_control	Communication status		status-only,direct-with-normal-security

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StdConf1	ABBIED600_Rev2_SPG_SP	Standard conformance		
StdConf2	ABBIED600_Rev2_SPG_SP	Standard conformance		
ChLiv	ABBIED600_Rev1_SPS_e	MMS Communication status	E	IEC 61850-7-4:2007
CliIP1	ABBIED600_Rev1_VSS_1_20	Client 1 IP address		
CliIP2	ABBIED600_Rev1_VSS_1_20	Client 2 IP address		
CliIP3	ABBIED600_Rev1_VSS_1_20	Client 3 IP address		
CliIP4	ABBIED600_Rev1_VSS_1_20	Client 4 IP address		
CliIP5	ABBIED600_Rev1_VSS_1_20	Client 5 IP address		
CommMod1	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Network 1 communication mode		
CommMod2	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Network		

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		2 communication mode		
CommMod3	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	HMI port communication mode		
EngSt	ABBIED600_Rev2_ENS_EngineerinModel	Engineering model		
RpStdConf	ABBIED600_Rev2_SPG_SP_e	RCB standard conformance	E	REx615:2014

5.1.8 LN: FTPLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommMod1	ABBIED600_Rev3_ENG_SP_CommMod	Network 1 communication mode		
CommMod2	ABBIED600_Rev3_ENG_SP_CommMod	Network 2		

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		communication mode		
CommMod3	ABBIED600_Rev3_ENG_SP_CommMod	HMI port communication mode		

5.1.9 LN: HTTPLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommMod1	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Network 1 communication mode		
CommMod2	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Network 2 communication mode		

5.1.10 LN: SCH1LTTP1 Name: LTTP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	PTP Port X1 behavior		
NamPlt	ABBIED600_Rev2_LPL_lnNs_90_4	SCH1LTTP1		

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P2pDlTmns	ABBIED600_Rev1_INS	PTP peer mean path delay X1		
P2pDlLimT-mns	ABBIED600_Rev2_ING_SP_1	PTP peer mean path delay alarm limit		

5.1.11 LN: SCH1LTTP2 Name: LTTP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Re-marks
Beh	ABBIED600_Rev10_ENS_beh	PTP Port X2 be-havior		
NamPlt	ABBIED600_Rev2_LPL_lnNs_90_4	SCH1LTTP2		
P2pDlTmns	ABBIED600_Rev1_INS	PTP peer mean path delay X2		
P2pDlLimT-mns	ABBIED600_Rev2_ING_SP_1	PTP peer mean path delay alarm limit X2		

5.1.12 LN: SCH1LTTP3 Name: LTTP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Re-marks
Beh	ABBIED600_Rev10_ENS_beh	PTP Port X3 be-havior		
NamPlt	ABBIED600_Rev2_LPL_lnNs_90_4	SCH1LTTP3		
P2pDlTmns	ABBIED600_Rev1_INS	PTP peer mean path delay X3		
P2pDlLimT-mns	ABBIED600_Rev2_ING_SP_1	PTP peer mean path delay alarm limit X3		

5.1.13 LN: FLTRFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Re-marks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-nor-mal-secu-rity

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Hz	ABBIED600_Rev7_MV_simple_i_e	Frequency	E	IEC 61850-7-4:2007
FltPtRis	ABBIED600_Rev7_MV_simple_i	Fault resistance		
PhReact	ABBIED600_Rev7_MV_simple_i	Fault phase reactance		
FltDiskm	ABBIED600_Rev7_MV_simple_i_e	Distance to fault measured in pu	E	IEC 61850-7-4:2007
OpCnt	ABBIED600_Rev1_INS_e	time	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
InOp	ABBIED600_Rev1_SPS	Operate input for triggering		
InStr	ABBIED600_Rev1_SPS	Start input for triggering		
RcdRs	ABBIED600_Rev3_SPC_control	Reset fault records		status-only,direct-with-normal-security
SelRow	ABBIED600_Rev3_INC_all_rights	Select recording		status-only,direct-with-

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				nor-mal-secu-rity
TrgSet	ABBIED600_Rev3_ENG_SP_TrgSet	Triggering mode		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2	A measure-ment mode		
ProFcn1	ABBIED600_Rev39_ENS_ProFcn	Protection function		
ProFcn2	ABBIED600_Rev3_ENS_ProFcn2	Protection function		
StrDur	ABBIED600_Rev7_MV_2	Maximum start dura-tion of all stages dur-ing the fault		
StrOpTm	ABBIED600_Rev7_MV_simple_i	Operate time		
ActSetGr	ABBIED600_Rev2_INC_simple_int	Active set-ting group		status-only
ShotPntr	ABBIED600_Rev1_INS_d	Shot pointer		
Max50DifAA	ABBIED600_Rev7_MV_simple_i	Maximum differential current phase A		
Max50DifAB	ABBIED600_Rev7_MV_simple_i	Maximum differential current phase B		
Max50DifAC	ABBIED600_Rev7_MV_simple_i	Maximum differential current phase C		
Max50RstAA	ABBIED600_Rev7_MV_simple_i	Maximum bias current phase A		
Max50RstAB	ABBIED600_Rev7_MV_simple_i	Maximum bias current phase B		
Max50RstAC	ABBIED600_Rev7_MV_simple_i	Maximum bias current phase C		

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DifAPhsA	ABBIED600_Rev7_MV_simple_i	Differential current phase A		
DifAPhsB	ABBIED600_Rev7_MV_simple_i	Differential current phase B		
DifAPhsC	ABBIED600_Rev7_MV_simple_i	Differential current phase C		
RstAPhsA	ABBIED600_Rev7_MV_simple_i	Bias current phase A		
RstAPhsB	ABBIED600_Rev7_MV_simple_i	Bias current phase B		
RstAPhsC	ABBIED600_Rev7_MV_simple_i	Bias current phase C		
DifARes	ABBIED600_Rev7_MV_simple_i	Differential current residual		
RstARes	ABBIED600_Rev7_MV_simple_i	Bias current residual		
Max50APhsA	ABBIED600_Rev7_MV_simple_i	Maximum phase A current		
Max50APhsB	ABBIED600_Rev7_MV_simple_i	Maximum phase B current		
Max50APhsC	ABBIED600_Rev7_MV_simple_i	Maximum phase C current		
Max50ARes	ABBIED600_Rev7_MV_simple_i	Maximum residual current		
APhsA	ABBIED600_Rev7_MV_simple_i	Phase A current		
APhsB	ABBIED600_Rev7_MV_simple_i	Phase B current		
APhsC	ABBIED600_Rev7_MV_simple_i	Phase C current		
ARes	ABBIED600_Rev7_MV_simple_i	Residual current		
AResClc	ABBIED600_Rev7_MV_simple_i	Calculated residual current		

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APsSeq	ABBIED600_Rev7_MV_simple_i	Positive sequence current		
ANgSeq	ABBIED600_Rev7_MV_simple_i	Negative sequence current		
PhVPhsA	ABBIED600_Rev7_MV_simple_i	Phase A voltage		
PhVPhsB	ABBIED600_Rev7_MV_simple_i	Phase B voltage		
PhVPhsC	ABBIED600_Rev7_MV_simple_i	Phase C voltage		
PPVPhsAB	ABBIED600_Rev7_MV_simple_i	Phase A to phase B voltage		
PPVPhsBC	ABBIED600_Rev7_MV_simple_i	Phase B to phase C voltage		
PPVPhsCA	ABBIED600_Rev7_MV_simple_i	Phase C to phase A voltage		
VRes	ABBIED600_Rev7_MV_simple_i	Residual voltage		
VZro	ABBIED600_Rev7_MV_simple_i	Zero sequence voltage		
VPsSeq	ABBIED600_Rev7_MV_simple_i	Positive sequence voltage		
VNgSeq	ABBIED600_Rev7_MV_simple_i	Negative sequence voltage		
MaxTmpRl	ABBIED600_Rev7_MV_simple_i	PTTR thermal level		
AMaxNgPs	ABBIED600_Rev7_MV_simple_i	PDNSPTOC1 rat. I2/I1		
DifANAngVN	ABBIED600_Rev7_MV_simple_i	Angle residual voltage - residual current		
DifAAAngVBC	ABBIED600_Rev7_MV_simple_i	Angle phase B to phase C voltage -		

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		phase A current		
DifABAng-VCA	ABBIED600_Rev7_MV_simple_i	Angle phase C to phase A voltage - phase B current		
DifACAng-VAB	ABBIED600_Rev7_MV_simple_i	Angle phase A to phase B voltage - phase C current		
HzRteChg	ABBIED600_Rev7_MV_simple_i	Frequency gradient		
CondNeut	ABBIED600_Rev7_MV_simple_i	Conductance Yo		
SusNeut	ABBIED600_Rev7_MV_simple_i	Susceptance Yo		
InCBClr	ABBIED600_Rev1_SPS	Breaker open status		
CBClrTm	ABBIED600_Rev7_MV_simple_i	Breaker clear time		
InOpCnf	ABBIED600_Rev1_SPS	Operate input for triggering		
InStrCnf	ABBIED600_Rev1_SPS	Start input for triggering		

5.1.14 LN: FLTRFRC2 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Max50APhsA	ABBIED600_Rev7_MV_simple_i	Maximum phase A current (2)		
Max50APhsB	ABBIED600_Rev7_MV_simple_i	Maximum phase B current (2)		

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Max50APhsC	ABBIED600_Rev7_MV_simple_i	Maximum phase C current (2)		
Max50ARes	ABBIED600_Rev7_MV_simple_i	Maximum residual current (2)		
APhsA	ABBIED600_Rev7_MV_simple_i	Phase A current (2)		
APhsB	ABBIED600_Rev7_MV_simple_i	Phase B current (2)		
APhsC	ABBIED600_Rev7_MV_simple_i	Phase C current (2)		
ARes	ABBIED600_Rev7_MV_simple_i	Residual current (2)		
AResClc	ABBIED600_Rev7_MV_simple_i	Calculated residual current (2)		
APsSeq	ABBIED600_Rev7_MV_simple_i	Positive sequence current (2)		
ANgSeq	ABBIED600_Rev7_MV_simple_i	Negative sequence current (2)		
PhVPhsA	ABBIED600_Rev7_MV_simple_i	Phase A voltage (2)		
PhVPhsB	ABBIED600_Rev7_MV_simple_i	Phase B voltage (2)		
PhVPhsC	ABBIED600_Rev7_MV_simple_i	Phase C voltage (2)		
PPVPhsAB	ABBIED600_Rev7_MV_simple_i	Phase A to phase B voltage (2)		
PPVPhsBC	ABBIED600_Rev7_MV_simple_i	Phase B to phase C voltage (2)		
PPVPhsCA	ABBIED600_Rev7_MV_simple_i	Phase C to phase A voltage (2)		
VRes	ABBIED600_Rev7_MV_simple_i	Residual voltage (2)		
VZro	ABBIED600_Rev7_MV_simple_i	Zero sequence voltage (2)		
VPsSeq	ABBIED600_Rev7_MV_simple_i	Positive sequence voltage (2)		

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VNgSeq	ABBIED600_Rev7_MV_simple_i	Negative sequence voltage (2)		
DifANAngVN	ABBIED600_Rev7_MV_simple_i	Angle residual voltage - residual current (2)		
DifAAAngVBC	ABBIED600_Rev7_MV_simple_i	Angle phase B to phase C voltage - phase A current (2)		
DifABAngVCA	ABBIED600_Rev7_MV_simple_i	Angle phase C to phase A voltage - phase B current (2)		
DifACAngVAB	ABBIED600_Rev7_MV_simple_i	Angle phase A to phase B voltage - phase C current (2)		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency (2)		
HzRteChg	ABBIED600_Rev7_MV_simple_i	Frequency gradient (2)		

5.1.15 LN: FLTRFRC3 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Max50APhsA	ABBIED600_Rev7_MV_simple_i	Maximum phase A current (3)		
Max50APhsB	ABBIED600_Rev7_MV_simple_i	Maximum phase B current (3)		
Max50APhsC	ABBIED600_Rev7_MV_simple_i	Maximum phase C current (3)		
Max50ARes	ABBIED600_Rev7_MV_simple_i	Maximum residual current (3)		
APhsA	ABBIED600_Rev7_MV_simple_i	Phase A current (3)		

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APhsB	ABBIED600_Rev7_MV_simple_i	Phase B current (3)		
APhsC	ABBIED600_Rev7_MV_simple_i	Phase C current (3)		
ARes	ABBIED600_Rev7_MV_simple_i	Residual current (3)		
AResClc	ABBIED600_Rev7_MV_simple_i	Calculated residual current (3)		
APsSeq	ABBIED600_Rev7_MV_simple_i	Positive sequence current (3)		
ANgSeq	ABBIED600_Rev7_MV_simple_i	Negative sequence current (3)		
PhVPhsA	ABBIED600_Rev7_MV_simple_i	Phase A voltage (3)		
PhVPhsB	ABBIED600_Rev7_MV_simple_i	Phase B voltage (3)		
PhVPhsC	ABBIED600_Rev7_MV_simple_i	Phase C voltage (3)		
PPVPhsAB	ABBIED600_Rev7_MV_simple_i	Phase A to phase B voltage (3)		
PPVPhsBC	ABBIED600_Rev7_MV_simple_i	Phase B to phase C voltage (3)		
PPVPhsCA	ABBIED600_Rev7_MV_simple_i	Phase C to phase A voltage (3)		
VRes	ABBIED600_Rev7_MV_simple_i	Residual voltage (3)		
VZro	ABBIED600_Rev7_MV_simple_i	Zero sequence voltage (3)		
VPsSeq	ABBIED600_Rev7_MV_simple_i	Positive sequence voltage (3)		
VNgSeq	ABBIED600_Rev7_MV_simple_i	Negative sequence voltage (3)		
DifANAngVN	ABBIED600_Rev7_MV_simple_i	Angle residual voltage - residual current (3)		

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DifAAAng-VBC	ABBIED600_Rev7_MV_simple_i	Angle phase B to phase C voltage - phase A current (3)		
DifABAng-VCA	ABBIED600_Rev7_MV_simple_i	Angle phase C to phase A voltage - phase B current (3)		
DifACAng-VAB	ABBIED600_Rev7_MV_simple_i	Angle phase A to phase B voltage - phase C current (3)		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency (3)		
HzRteChg	ABBIED600_Rev7_MV_simple_i	Frequency gradient (3)		

5.1.16 LN: LDPRLRC1 Name: RLRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
RcdRs	ABBIED600_Rev3_SPC_control	Reset load profile rec.		status-only,direct-with-normal-security
MemUsed	ABBIED600_Rev1_INS_e	Rec. memory used	E	IEC 61850-7-4:2007
MemWrn	ABBIED600_Rev1_SPS_simple	Memory warning		
MemAlm	ABBIED600_Rev1_SPS_simple	Memory alarm		

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MemWrn-Lev	ABBIED600_Rev2_ING_SP_1	Mem. warning level		
MemAlm-Lev	ABBIED600_Rev2_ING_SP_1	Mem. alarn level		

5.1.17 LN: CCSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate current differential level	E	IEC 61850-7-4:2007
MaxOpA	ABBIED600_Rev8_ASG_SP_i	Block of the function at high phase current		
FailA-Circ	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
Sig-FailAlm	ABBIED600_Rev1_SPS	Alarm		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub2	Test control for outputs		status-only,direct-with-

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				normal-security
DifAClc	ABBIED600_Rev7_WYE_res_simple_i_e	IDIFF	E	IEC 61850-7-4:2007

5.1.18 LN: CCSPVC2 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate current differential level	E	IEC 61850-7-4:2007
MaxOpA	ABBIED600_Rev8_ASG_SP_i	Block of the function		

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		at high phase current		
FailA-Circ	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
Sig-FailAlm	ABBIED600_Rev1_SPS	Alarm		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
DifACIc	ABBIED600_Rev7_WYE_res_simple_i_e	IDIFF	E	IEC 61850-7-4:2007

5.1.19 LN: CCSPVC3 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007

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StrVal	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate current differen-tial level	E	IEC 61850-7-4:2007
MaxOpA	ABBIED600_Rev8_ASG_SP_i	Block of the func-tion at high phase current		
FailA-Circ	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
Sig-FailAlm	ABBIED600_Rev1_SPS	Alarm		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub2	Test cont-rol for outputs		status-only,di-rect-with-normal-se-curity
DifAClc	ABBIED600_Rev7_WYE_res_simple_i_e	IDIFF	E	IEC 61850-7-4:2007

5.1.20 LN: CCSPVC4 Name: SPVC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-normal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007

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StrVal	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate current differen-tial level	E	IEC 61850-7-4:2007
MaxOpA	ABBIED600_Rev8_ASG_SP_i	Block of the func-tion at high phase current		
FailA-Circ	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
Sig-FailAlm	ABBIED600_Rev1_SPS	Alarm		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub2	Test cont-rol for outputs		status-only,di-rect-with-normal-se-curity
DifAClc	ABBIED600_Rev7_WYE_res_simple_i_e	IDIFF	E	IEC 61850-7-4:2007

5.1.21 LN: CCSPVC5 Name: SPVC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-normal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007

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StrVal	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate current differential level	E	IEC 61850-7-4:2007
MaxOpA	ABBIED600_Rev8_ASG_SP_i	Block of the function at high phase current		
FailA-Circ	ABBIED600_Rev1_ACT_simple	Detection of current circuit failure		
Sig-FailAlm	ABBIED600_Rev1_SPS	Alarm		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub2	Test control for outputs		status-only,direct-with-normal-security
DifAClc	ABBIED600_Rev7_WYE_res_simple_i_e	IDIFF	E	IEC 61850-7-4:2007

5.1.22 LN: SEQSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007

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Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when circuit breaker is closed		
InDsconOpn	ABBIED600_Rev1_SPS	Active when line disconnector is open		
InMCBOpn	ABBIED600_Rev1_SPS	Active when external MCB opens protected Volt. circuit		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	IEC 61850-7-4:2007
NgSeqLevA	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq undercurrent element		
ChgRteA	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev2_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev8_ASG_SP_i	Operate level of		

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		change in phase voltage		
EnaSealIn	ABBIED600_Rev2_SPG_SP	Enabling seal in functionality		
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	IEC 61850-7-4:2007
SealInV	ABBIED600_Rev8_ASG_SP_i	Operate level of seal-in phase voltage		
NgSeqLevV	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq overvoltage element		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub7	SEQSPVC 1		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev8_ASG_SP_i	Operate level for open phase current detection		

5.1.23 LN: SEQSPVC2 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-

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				nor-mal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block sig-nal for all binary out-puts	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when cir-cuit breaker is closed		
InDsconOpn	ABBIED600_Rev1_SPS	Active when line discon-nector is open		
InMCBOpn	ABBIED600_Rev1_SPS	Active when exter-nal MCB opens pro-tected Volt. circuit		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase cur-rent for delta calcu-lation	E	IEC 61850-7-4:2007
NgSeqLevA	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq under-current ele-ment		
ChgRteA	ABBIED600_Rev8_ASG_SP_i	Operate level of		

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		change in phase current		
ChgRteEna	ABBIED600_Rev2_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase voltage		
EnaSealIn	ABBIED600_Rev2_SPG_SP	Enabling seal in functionality		
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	IEC 61850-7-4:2007
SealInV	ABBIED600_Rev8_ASG_SP_i	Operate level of seal-in phase voltage		
NgSeqLevV	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq overvoltage element		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub7	SEQSPVC 2		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev8_ASG_SP_i	Operate level for open phase current detection		

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5.1.24 LN: SEQSPVC3 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when circuit breaker is closed		
InDsconOpn	ABBIED600_Rev1_SPS	Active when line disconnector is open		
InMCBOpn	ABBIED600_Rev1_SPS	Active when external MCB opens protected Volt. circuit		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	IEC 61850-7-4:2007

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NgSeqLevA	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq under-current element		
ChgRteA	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev2_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase voltage		
EnaSealIn	ABBIED600_Rev2_SPG_SP	Enabling seal in functionality		
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	IEC 61850-7-4:2007
SealInV	ABBIED600_Rev8_ASG_SP_i	Operate level of seal-in phase voltage		
NgSeqLevV	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq over-voltage element		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub7	SEQSPVC 3		status-only,direct-with-

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				nor-mal-se-curity
DeaLin-ValA	ABBIED600_Rev8_ASG_SP_i	Operate level for open phase current de-tection		

5.1.25 LN: SEQSPVC4 Name: SPVC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Re-marks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-nor-mal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block sig-nal for all binary out-puts	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when cir-cuit breaker is closed		
InDsconOpn	ABBIED600_Rev1_SPS	Active when line discon-nector is open		
InMCBOpn	ABBIED600_Rev1_SPS	Active when exter-nal MCB		

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		opens protected Volt. circuit		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	IEC 61850-7-4:2007
NgSeqLevA	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq undercurrent element		
ChgRteA	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev2_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase voltage		
EnaSealIn	ABBIED600_Rev2_SPG_SP	Enabling seal in functionality		
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	IEC 61850-7-4:2007
SealInV	ABBIED600_Rev8_ASG_SP_i	Operate level of seal-in phase voltage		

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NgSeqLevV	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq over-voltage element		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub7	SEQSPVC 4		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev8_ASG_SP_i	Operate level for open phase current detection		

5.1.26 LN: SEQSPVC5 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when		

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		circuit breaker is closed		
InDsconOpn	ABBIED600_Rev1_SPS	Active when line disconnector is open		
InMCBOpn	ABBIED600_Rev1_SPS	Active when external MCB opens protected Volt. circuit		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	IEC 61850-7-4:2007
NgSeqLevA	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq undercurrent element		
ChgRteA	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev2_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase voltage		
EnaSealIn	ABBIED600_Rev2_SPG_SP	Enabling seal in functionality		

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BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	IEC 61850-7-4:2007
SealInV	ABBIED600_Rev8_ASG_SP_i	Operate level of seal-in phase voltage		
NgSeqLevV	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq overvoltage element		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub7	SEQSPVC 5		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev8_ASG_SP_i	Operate level for open phase current detection		

5.1.27 LN: SEQSPVC6 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all	E	IEC 61850-

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		binary outputs		7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when circuit breaker is closed		
InDsconOpn	ABBIED600_Rev1_SPS	Active when line disconnector is open		
InMCBOpn	ABBIED600_Rev1_SPS	Active when external MCB opens protected Volt. circuit		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	IEC 61850-7-4:2007
NgSeqLevA	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq undercurrent element		
ChgRteA	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev2_SPG_SP	Enabling operation of change based function		

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ChgRteV	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase voltage		
EnaSealIn	ABBIED600_Rev2_SPG_SP	Enabling seal in functionality		
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	IEC 61850-7-4:2007
SealInV	ABBIED600_Rev8_ASG_SP_i	Operate level of seal-in phase voltage		
NgSeqLevV	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq overvoltage element		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub7	SEQSPVC6		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev8_ASG_SP_i	Operate level for open phase current detection		

5.1.28 LN: SEQSPVC7 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-

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				with-nor-mal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	General start of function	E	IEC 61850-7-4:2007
Str3Ph	ABBIED600_Rev1_ACD_simple	Three-phase start of function		
InPosCls	ABBIED600_Rev1_SPS	Active when circuit breaker is closed		
InDsconOpn	ABBIED600_Rev1_SPS	Active when line disconnector is open		
InMCBOpn	ABBIED600_Rev1_SPS	Active when external MCB opens protected Volt. circuit		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase current for delta calculation	E	IEC 61850-7-4:2007
NgSeqLevA	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq undercurrent element		

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ChgRteA	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase current		
ChgRteEna	ABBIED600_Rev2_SPG_SP	Enabling operation of change based function		
ChgRteV	ABBIED600_Rev8_ASG_SP_i	Operate level of change in phase voltage		
EnaSealIn	ABBIED600_Rev2_SPG_SP	Enabling seal in functionality		
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate level of phase voltage for delta calculation	E	IEC 61850-7-4:2007
SealInV	ABBIED600_Rev8_ASG_SP_i	Operate level of seal-in phase voltage		
NgSeqLevV	ABBIED600_Rev8_ASG_SP_i	Operate level of neg seq overvoltage element		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub7	SEQSPVC 7		status-only,direct-with-normal-security
DeaLinValA	ABBIED600_Rev8_ASG_SP_i	Operate level for open phase		

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		current detection		

5.1.29 LN: HZCCASPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control for outputs		status-only,direct-with-normal-security

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AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used measu-rement mode		
AlmOut-Mod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1	Select the op-eration mode for alarm output		
LORs	ABBIED600_Rev3_SPC_control	Reset lockou t alarm		status-only,di rect-with-nor-mal-se-curity

5.1.30 LN: HZCCASPVC2 Name: SPVC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Re-marks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di rect-with-nor-mal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-

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				7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control for outputs		status-only,direct-with-normal-security
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used measurement mode		
AlmOut-Mod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1	Select the operation mode for alarm output		
LORs	ABBIED600_Rev3_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

5.1.31 LN: HZCCASPVC3 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-

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				nor-mal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control for outputs		status-only,direct-with-nor-mal-se-curity
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used measu-rement mode		
AlmOut-Mod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1	Select the op-eration mode for alarm output		

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LORs	ABBIED600_Rev3_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

5.1.32 LN: HZCCBSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control		status-only,di

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		for outputs		rect-with-nor-mal-se-curity
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used measu-rement mode		
AlmOut-Mod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub 1	Select the op-eration mode for alarm output		
LORs	ABBIED600_Rev3_SPC_control	Reset lockou t alarm		status-only,di rect-with-nor-mal-se-curity

5.1.33 LN: HZCCBSPVC2 Name: SPVC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Re-marks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di rect-with-nor-mal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007

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Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1	Select the operation mode for alarm output		
LORs	ABBIED600_Rev3_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

5.1.34 LN: HZCCBSPVC3 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1	Select the operation		

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		mode for alarm output		
LORs	ABBIED600_Rev3_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

5.1.35 LN: HZCCCSPVC1 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		

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RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1	Select the operation mode for alarm output		
LORs	ABBIED600_Rev3_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

5.1.36 LN: HZCCCSPVC2 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		

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Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used measurement mode		
AlmOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1	Select the operation mode for alarm output		
LORs	ABBIED600_Rev3_SPC_control	Reset lockout alarm		status-only,direct-with-normal-security

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5.1.37 LN: HZCCCSPVC3 Name: SPVC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
AlmTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub12	Test control for outputs		status-only,direct-with-normal-security
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub1	Selects used		

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		measu-rement mode		
AlmOut-Mod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1	Select the op-eration mode for alarm output		
LORs	ABBIED600_Rev3_SPC_control	Reset lockou t alarm		status-only,di rect-with-nor-mal-se-curity

5.1.38 LN: GFC1RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
RelPhLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PE-loops, GFC	E	ABBIED600:20 14
RelPPLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PP/3P loops, GFC	E	ABBIED600:20 14
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indica-tion of a cross-coun-try-fault (high imp.	E	ABBIED600:20 14

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		earthed), GFC		
EFDet	ABBIED600_Rev1_SPS_simple_e	Indication of a single phase earth-fault, GFC	E	ABBIED600:2014
EFDir	ABBIED600_Rev1_ACD_threephase_e	Earth-fault direction (low impedance earthed), GFC	E	ABBIED600:2014
ZnOpSt	ABBIED600_Rev1_INS_e	Time-delayed operate signal of all zones	E	ABBIED600:2014
DirZn1	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 1	E	ABBIED600:2014
DirRisZn1	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 1	E	ABBIED600:2014
DirXZn1	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 1	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 1	E	ABBIED600:2014

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PhLoopX1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 1	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 1	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 1	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 1	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 1	E	ABBIED600:2014
PhX	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 1	E	ABBIED600:2014
DirRisZn2	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 2	E	ABBIED600:2014
DirRisZn3	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 3	E	ABBIED600:2014
DirRisZn4	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir.	E	ABBIED600:2014

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		eval., zone 4		
DirRisZn5	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 5	E	ABBIED600:2014
DirXZn2	ABBIED600_Rev7_MV_simple_i_e	Reac-tance used in dir. eval., zone 2	E	ABBIED600:2014
DirXZn3	ABBIED600_Rev7_MV_simple_i_e	Reac-tance used in dir. eval., zone 3	E	ABBIED600:2014
DirXZn4	ABBIED600_Rev7_MV_simple_i_e	Reac-tance used in dir. eval., zone 4	E	ABBIED600:2014
DirXZn5	ABBIED600_Rev7_MV_simple_i_e	Reac-tance used in dir. eval., zone 5	E	ABBIED600:2014
PhRisFstZn2	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-sistance, zone 2	E	ABBIED600:2014
PhRisFstZn3	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-sistance, zone 3	E	ABBIED600:2014
PhRisFstZn4	ABBIED600_Rev7_MV_simple_i_e	First PE-loop	E	ABBIED600:2014

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		re-sistance, zone 4		
PhRisFstZn5	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-sistance, zone 5	E	ABBIED600:2014
PhXFstZn2	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 2	E	ABBIED600:2014
PhXFstZn3	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 3	E	ABBIED600:2014
PhXFstZn4	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 4	E	ABBIED600:2014
PhXFstZn5	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 5	E	ABBIED600:2014
PhRisScdZn2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 2	E	ABBIED600:2014
PhRisScdZn3	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 3	E	ABBIED600:2014
PhRisScdZn4	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 4	E	ABBIED600:2014
PhRisScdZn5	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop	E	ABBIED600:2014

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		re-sistance, zone 5		
PhXScdZn2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 2	E	ABBIED600:2014
PhXScdZn3	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 3	E	ABBIED600:2014
PhXScdZn4	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 4	E	ABBIED600:2014
PhXScdZn5	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 5	E	ABBIED600:2014
PPRisZn2	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 2	E	ABBIED600:2014
PPRisZn3	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 3	E	ABBIED600:2014
PPRisZn4	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 4	E	ABBIED600:2014
PPRisZn5	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 5	E	ABBIED600:2014
PPXZn2	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 2	E	ABBIED600:2014
PPXZn3	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop	E	ABBIED600:2014

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		reac-tance, zone 3		
PPXZn4	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 4	E	ABBIED600:2014
PPXZn5	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 5	E	ABBIED600:2014
PhXZn2	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 2	E	ABBIED600:2014
PhXZn3	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 3	E	ABBIED600:2014
PhXZn4	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 4	E	ABBIED600:2014
PhXZn5	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 5	E	ABBIED600:2014
DirZn2	ABBIED600_Rev1_ACD_threephase_e	Direc-tion of fault or load zone 2	E	IEC 61850-7-4:2007
DirZn3	ABBIED600_Rev1_ACD_threephase_e	Direc-tion of	E	IEC 61850-7-4:2007

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		fault or load zone 3		
DirZn4	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 4	E	IEC 61850-7-4:2007
DirZn5	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 5	E	IEC 61850-7-4:2007

5.1.39 LN: GFC2RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
RelPhLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PE-loops, GFC	E	ABBIED600:2014
RelPPLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PP/3P loops. GFC	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault (high imp. earthed), GFC	E	ABBIED600:2014

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EFDet	ABBIED600_Rev1_SPS_simple_e	Indication of a single phase earth-fault, GFC	E	ABBIED600:2014
EFDir	ABBIED600_Rev1_ACD_threephase_e	Earth-fault direction (low impedance earthed), GFC	E	ABBIED600:2014
ZnOpSt	ABBIED600_Rev1_INS_e	Time-delayed operate signal of all zones	E	ABBIED600:2014
DirZn1	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 1	E	ABBIED600:2014
DirRisZn1	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 1	E	ABBIED600:2014
DirXZn1	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 1	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop	E	ABBIED600:2014

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		reac-tance, zone 1		
PhLoopRis2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 1	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 1	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 1	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 1	E	ABBIED600:2014
PhX	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 1	E	ABBIED600:2014
DirRisZn2	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 2	E	ABBIED600:2014
DirRisZn3	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 3	E	ABBIED600:2014
DirRisZn4	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 4	E	ABBIED600:2014

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DirRisZn5	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 5	E	ABBIED600:2014
DirXZn2	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 2	E	ABBIED600:2014
DirXZn3	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 3	E	ABBIED600:2014
DirXZn4	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 4	E	ABBIED600:2014
DirXZn5	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 5	E	ABBIED600:2014
PhRisFstZn2	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 2	E	ABBIED600:2014
PhRisFstZn3	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 3	E	ABBIED600:2014
PhRisFstZn4	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 4	E	ABBIED600:2014

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PhRisFstZn5	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-sistance, zone 5	E	ABBIED600:2014
PhXFstZn2	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 2	E	ABBIED600:2014
PhXFstZn3	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 3	E	ABBIED600:2014
PhXFstZn4	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 4	E	ABBIED600:2014
PhXFstZn5	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 5	E	ABBIED600:2014
PhRisScdZn2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 2	E	ABBIED600:2014
PhRisScdZn3	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 3	E	ABBIED600:2014
PhRisScdZn4	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 4	E	ABBIED600:2014
PhRisScdZn5	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 5	E	ABBIED600:2014

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PhXScdZn2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 2	E	ABBIED600:2014
PhXScdZn3	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 3	E	ABBIED600:2014
PhXScdZn4	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 4	E	ABBIED600:2014
PhXScdZn5	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 5	E	ABBIED600:2014
PPRisZn2	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 2	E	ABBIED600:2014
PPRisZn3	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 3	E	ABBIED600:2014
PPRisZn4	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 4	E	ABBIED600:2014
PPRisZn5	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 5	E	ABBIED600:2014
PPXZn2	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 2	E	ABBIED600:2014
PPXZn3	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 3	E	ABBIED600:2014
PPXZn4	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop	E	ABBIED600:2014

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		reac-tance, zone 4		
PPXZn5	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 5	E	ABBIED600:2014
PhXZn2	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 2	E	ABBIED600:2014
PhXZn3	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 3	E	ABBIED600:2014
PhXZn4	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 4	E	ABBIED600:2014
PhXZn5	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 5	E	ABBIED600:2014
DirZn2	ABBIED600_Rev1_ACD_threephase_e	Direc-tion of fault or load zone 2	E	IEC 61850-7-4:2007
DirZn3	ABBIED600_Rev1_ACD_threephase_e	Direc-tion of fault or load zone 3	E	IEC 61850-7-4:2007

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DirZn4	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 4	E	IEC 61850-7-4:2007
DirZn5	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 5	E	IEC 61850-7-4:2007

5.1.40 LN: GFC3RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
RelPhLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PE-loops, GFC	E	ABBIED600:2014
RelPPLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PP/3P loops. GFC	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault (high imp. earthed), GFC	E	ABBIED600:2014
EFDet	ABBIED600_Rev1_SPS_simple_e	Indication of a single phase earth-	E	ABBIED600:2014

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		fault, GFC		
EFDir	ABBIED600_Rev1_ACD_threephase_e	Earth-fault direction (low impedance earthed), GFC	E	ABBIED600:2014
ZnOpSt	ABBIED600_Rev1_INS_e	Time-delayed operate signal of all zones	E	ABBIED600:2014
DirZn1	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 1	E	ABBIED600:2014
DirRisZn1	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 1	E	ABBIED600:2014
DirXZn1	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 1	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop reactance, zone 1	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop	E	ABBIED600:2014

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		re-sistance, zone 1		
PhLoopX2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 1	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 1	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 1	E	ABBIED600:2014
PhX	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 1	E	ABBIED600:2014
DirRisZn2	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 2	E	ABBIED600:2014
DirRisZn3	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 3	E	ABBIED600:2014
DirRisZn4	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir. eval., zone 4	E	ABBIED600:2014
DirRisZn5	ABBIED600_Rev7_MV_simple_i_e	Re-sistance used in dir.	E	ABBIED600:2014

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		eval., zone 5		
DirXZn2	ABBIED600_Rev7_MV_simple_i_e	Reac-tance used in dir. eval., zone 2	E	ABBIED600:2014
DirXZn3	ABBIED600_Rev7_MV_simple_i_e	Reac-tance used in dir. eval., zone 3	E	ABBIED600:2014
DirXZn4	ABBIED600_Rev7_MV_simple_i_e	Reac-tance used in dir. eval., zone 4	E	ABBIED600:2014
DirXZn5	ABBIED600_Rev7_MV_simple_i_e	Reac-tance used in dir. eval., zone 5	E	ABBIED600:2014
PhRisFstZn2	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-sistance, zone 2	E	ABBIED600:2014
PhRisFstZn3	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-sistance, zone 3	E	ABBIED600:2014
PhRisFstZn4	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-sistance, zone 4	E	ABBIED600:2014
PhRisFstZn5	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-sistance, zone 5	E	ABBIED600:2014

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PhXFstZn2	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 2	E	ABBIED600:2014
PhXFstZn3	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 3	E	ABBIED600:2014
PhXFstZn4	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 4	E	ABBIED600:2014
PhXFstZn5	ABBIED600_Rev7_MV_simple_i_e	First PE-loop re-actance, zone 5	E	ABBIED600:2014
PhRisScdZn2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 2	E	ABBIED600:2014
PhRisScdZn3	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 3	E	ABBIED600:2014
PhRisScdZn4	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 4	E	ABBIED600:2014
PhRisScdZn5	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-sistance, zone 5	E	ABBIED600:2014
PhXScdZn2	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 2	E	ABBIED600:2014

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PhXScdZn3	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 3	E	ABBIED600:2014
PhXScdZn4	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 4	E	ABBIED600:2014
PhXScdZn5	ABBIED600_Rev7_MV_simple_i_e	Second PE-loop re-actance, zone 5	E	ABBIED600:2014
PPRisZn2	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 2	E	ABBIED600:2014
PPRisZn3	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 3	E	ABBIED600:2014
PPRisZn4	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 4	E	ABBIED600:2014
PPRisZn5	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-sistance, zone 5	E	ABBIED600:2014
PPXZn2	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 2	E	ABBIED600:2014
PPXZn3	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 3	E	ABBIED600:2014
PPXZn4	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop re-actance, zone 4	E	ABBIED600:2014
PPXZn5	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop	E	ABBIED600:2014

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		reac-tance, zone 5		
PhXZn2	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 2	E	ABBIED600:2014
PhXZn3	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 3	E	ABBIED600:2014
PhXZn4	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 4	E	ABBIED600:2014
PhXZn5	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase domain, zone 5	E	ABBIED600:2014
DirZn2	ABBIED600_Rev1_ACD_threephase_e	Direc-tion of fault or load zone 2	E	IEC 61850-7-4:2007
DirZn3	ABBIED600_Rev1_ACD_threephase_e	Direc-tion of fault or load zone 3	E	IEC 61850-7-4:2007
DirZn4	ABBIED600_Rev1_ACD_threephase_e	Direc-tion of fault or load zone 4	E	IEC 61850-7-4:2007

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DirZn5	ABBIED600_Rev1_ACD_threephase_e	Direction of fault or load zone 5	E	IEC 61850-7-4:2007

5.1.41 LN: DSTPLAL1 Name: PLAL (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Op2	ABBIED600_Rev1_ACT_simple	Operate by loss of load		
Op1	ABBIED600_Rev1_ACT_simple	Operate by zone extension		
LodAVal	ABBIED600_Rev8_ASG_SP_i	Load current before disturbance		
LodOnTmms	ABBIED600_Rev2_ING_SP_time	Time delay on pick-up for load current release		
LodOffTmms	ABBIED600_Rev2_ING_SP_time	Time delay on drop		

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		off for load current release		
StrVal	ABBIED600_Rev8_ASG_SP_i	Level taken as current loss due to remote CB trip		
OpDlTmms	ABBIED600_Rev2_ING_SP	Operate delay time for loss of load operation		
LocAccMod	ABBIED600_Rev2_ENG_SP_OpModLocAcc	Operation Mode		
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub5	Test control for outputs		status-only,direct-with-normal-security
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

5.1.42 LN: EFPADM1 Name: PADM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	IEC 61850-7-4:2007
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	IEC 61850-7-4:2007
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage Start Va-lue	E	IEC 61850-7-4:2007
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
StrDur	ABBIED600_Rev7_MV_2	Ratio of start time / operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2	Test control for out-puts		status-only,di-rect-with-nor-mal-se-curity
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directi-onal Mode	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
OpModY	ABBIED600_Rev2_ENG_SG_OpModAdm	Opera-tion mode		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Mini-mum	E	IEC 61850-7-4:2007

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		operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operating voltage	E	IEC 61850-7-4:2007
CondTiltAng	ABBIED600_Rev8_ASG_SG_i	Conductance tilt angle		
CondFwd	ABBIED600_Rev8_ASG_SG_i	Conductance forward		
CondRv	ABBIED600_Rev8_ASG_SG_i	Conductance reverse		
SusTiltAng	ABBIED600_Rev8_ASG_SG_i	Susceptance tilt angle		
SusFwd	ABBIED600_Rev8_ASG_SG_i	Susceptance forward		
SusRv	ABBIED600_Rev8_ASG_SG_i	Susceptance reverse		
CirclRd	ABBIED600_Rev8_ASG_SG_i	Circle radius		
CirclCond	ABBIED600_Rev8_ASG_SG_i	Circle conductance		
CirclSus	ABBIED600_Rev8_ASG_SG_i	Circle susceptance		
RvPol	ABBIED600_Rev2_SPG_SP	Rotate polarizing quantity		
Cond	ABBIED600_Rev7_MV_simple_i	Measured neutral conductance		
Sus	ABBIED600_Rev7_MV_simple_i	Measured		

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		neutral susceptance		
TrgSt	ABBIED600_Rev1_SPS	Signal indicating function triggering		
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel	Selection for used Io signal		
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel	Selection for used Uo signal		
YClcMod	ABBIED600_Rev3_ENG_SP_AdmClcMod	Admittance calculation mode		

5.1.43 LN: EFPADM2 Name: PADM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	IEC 61850-7-4:2007

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Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	IEC 61850-7-4:2007
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage Start Value	E	IEC 61850-7-4:2007
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
StrDur	ABBIED600_Rev7_MV_2	Ratio of start time / operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2	Test control for outputs		status-only,direct-with-normal-security
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional Mode	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
OpModY	ABBIED600_Rev2_ENG_SG_OpModAdm	Operation mode		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operating current	E	IEC 61850-7-4:2007
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operating voltage	E	IEC 61850-7-4:2007
CondTiltAng	ABBIED600_Rev8_ASG_SG_i	Conductance tilt angle		
CondFwd	ABBIED600_Rev8_ASG_SG_i	Conductance forward		

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CondRv	ABBIED600_Rev8_ASG_SG_i	Conductance reverse		
SusTiltAng	ABBIED600_Rev8_ASG_SG_i	Susceptance tilt angle		
SusFwd	ABBIED600_Rev8_ASG_SG_i	Susceptance forward		
SusRv	ABBIED600_Rev8_ASG_SG_i	Susceptance reverse		
CirclRd	ABBIED600_Rev8_ASG_SG_i	Circle radius		
CirclCond	ABBIED600_Rev8_ASG_SG_i	Circle conductance		
CirclSus	ABBIED600_Rev8_ASG_SG_i	Circle susceptance		
RvPol	ABBIED600_Rev2_SPG_SP	Rotate polarizing quantity		
Cond	ABBIED600_Rev7_MV_simple_i	Measured neutral conductance		
Sus	ABBIED600_Rev7_MV_simple_i	Measured neutral susceptance		
TrgSt	ABBIED600_Rev1_SPS	Signal indicating function triggering		
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel	Selection for used Io signal		

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VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel	Selection for used Uo signal		
YClcMod	ABBIED600_Rev3_ENG_SP_AdmClcMod	Admittance calculation mode		

5.1.44 LN: EFPADM3 Name: PADM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Str	ABBIED600_Rev1_ACD_simple_e	Start	E	IEC 61850-7-4:2007
Op	ABBIED600_Rev1_ACT_simple_e	Operate	E	IEC 61850-7-4:2007
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage Start Value	E	IEC 61850-7-4:2007
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
StrDur	ABBIED600_Rev7_MV_2	Ratio of start time /		

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		operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2	Test control for outputs		status-only,direct-with-normal-security
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional Mode	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
OpModY	ABBIED600_Rev2_ENG_SG_OpModAdm	Operation mode		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operating current	E	IEC 61850-7-4:2007
BlkValV	ABBIED600_Rev8_ASG_SP_i_e	Minimum operating voltage	E	IEC 61850-7-4:2007
CondTiltAng	ABBIED600_Rev8_ASG_SG_i	Conductance tilt angle		
CondFwd	ABBIED600_Rev8_ASG_SG_i	Conductance forward		
CondRv	ABBIED600_Rev8_ASG_SG_i	Conductance reverse		
SusTiltAng	ABBIED600_Rev8_ASG_SG_i	Susceptance tilt angle		
SusFwd	ABBIED600_Rev8_ASG_SG_i	Susceptance forward		
SusRv	ABBIED600_Rev8_ASG_SG_i	Susceptance reverse		

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CirclRd	ABBIED600_Rev8_ASG_SG_i	Circle radius		
CirclCond	ABBIED600_Rev8_ASG_SG_i	Circle conductance		
CirclSus	ABBIED600_Rev8_ASG_SG_i	Circle susceptance		
RvPol	ABBIED600_Rev2_SPG_SP	Rotate polarizing quantity		
Cond	ABBIED600_Rev7_MV_simple_i	Measured neutral conductance		
Sus	ABBIED600_Rev7_MV_simple_i	Measured neutral susceptance		
TrgSt	ABBIED600_Rev1_SPS	Signal indicating function triggering		
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel	Selection for used Io signal		
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel	Selection for used Uo signal		
YClcMod	ABBIED600_Rev3_ENG_SP_AdmClcMod	Admittance calculation mode		

5.1.45 LN: IF1RFRC1 Name: RFRC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
StrDur	ABBIED600_Rev7_MV_2	Start duration		
RcdTrg	ABBIED600_Rev3_SPC_control	Triggering recorded data		status-only,direct-with-normal-security
FltLoop	ABBIED600_Rev5_ENS_FltLoop	Fault loop		
NonQualH	ABBIED600_Rev1_INS	Non qualified harmonics		
EFDet	ABBIED600_Rev1_SPS_simple	Non-directional earth fault detection		
EFDetVald	ABBIED600_Rev1_SPS_simple	Valid EF detection in protected feeder		
XcnDet	ABBIED600_Rev1_SPS_simple	Cross-country fault detection		
ItmEFInd	ABBIED600_Rev1_SPS_simple	Restriking (intermittent) earth fault detection		
ActStrSt	ABBIED600_Rev1_INS	Started timers		
ActOpSt	ABBIED600_Rev1_INS	Operated timers		
VRes	ABBIED600_Rev7_MV_2	Residual voltage magnitude		
ARes	ABBIED600_Rev7_MV_2	Residual current magnitude		

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TchV	ABBIED600_Rev7_MV_2	Touch voltage magnitude		
TchVRms	ABBIED600_Rev7_MV_2	Touch voltage including harmonics		
FltA	ABBIED600_Rev7_WYE_res_simpler_i	Fault current magnitude		
FltARms	ABBIED600_Rev7_MV_2	Fault current including harmonics		
FltPtRis	ABBIED600_Rev7_MV_2	Fault point resistance		
AResReal	ABBIED600_Rev7_MV_2	Transient resistive component		
StrOpTm	ABBIED600_Rev7_MV_2	Actual operate time		
TmOpEst	ABBIED600_Rev7_MV_2	Time left to operate		

5.1.46 LN: IF2RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
StrDur	ABBIED600_Rev7_MV_2	Start duration		
FltLoop	ABBIED600_Rev5_ENS_FltLoop	Fault loop		
NonQualH	ABBIED600_Rev1_INS	Non qualified harmonics		
EFDet	ABBIED600_Rev1_SPS_simple	Non-directional earth fault detection		
EFDetVald	ABBIED600_Rev1_SPS_simple	Valid EF detection in protected feeder		

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XcnDet	ABBIED600_Rev1_SPS_simple	Cross-country fault detection		
ItmEFInd	ABBIED600_Rev1_SPS_simple	Restriking (intermittent) earth fault detection		
ActStrSt	ABBIED600_Rev1_INS	Started timers		
ActOpSt	ABBIED600_Rev1_INS	Operated timers		
VRes	ABBIED600_Rev7_MV_2	Residual voltage magnitude		
ARes	ABBIED600_Rev7_MV_2	Residual current magnitude		
TchV	ABBIED600_Rev7_MV_2	Touch voltage magnitude		
TchVRms	ABBIED600_Rev7_MV_2	Touch voltage including harmonics		
FltA	ABBIED600_Rev7_WYE_res_simpler_i	Fault current magnitude		
FltARms	ABBIED600_Rev7_MV_2	Fault current including harmonics		
FltPtRis	ABBIED600_Rev7_MV_2	Fault point resistance		
AResReal	ABBIED600_Rev7_MV_2	Transient resistive component		
StrOpTm	ABBIED600_Rev7_MV_2	Actual operate time		
TmOpEst	ABBIED600_Rev7_MV_2	Time left to operate		

5.1.47 LN: IF1RFRC2 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
StrDur	ABBIED600_Rev7_MV_2	Start duration		

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RcdTrg	ABBIED600_Rev3_SPC_control	Triggering recorded data		status-only,direct-with-normal-security
FltLoop	ABBIED600_Rev5_ENS_FltLoop	Fault loop		
NonQualH	ABBIED600_Rev1_INS	Non qualified harmonics		
EFDet	ABBIED600_Rev1_SPS_simple	Non-directional earth fault detection		
EFDetVald	ABBIED600_Rev1_SPS_simple	Valid EF detection in protected feeder		
XcnDet	ABBIED600_Rev1_SPS_simple	Cross-country fault detection		
ItmEFInd	ABBIED600_Rev1_SPS_simple	Restriking (intermittent) earth fault detection		
ActStrSt	ABBIED600_Rev1_INS	Started timers		
ActOpSt	ABBIED600_Rev1_INS	Operated timers		
VRes	ABBIED600_Rev7_MV_2	Residual voltage magnitude		
ARes	ABBIED600_Rev7_MV_2	Residual current magnitude		
TchV	ABBIED600_Rev7_MV_2	Touch voltage magnitude		
TchVRms	ABBIED600_Rev7_MV_2	Touch voltage including harmonics		
FltA	ABBIED600_Rev7_WYE_res_simpler_i	Fault current		

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FltARms	ABBIED600_Rev7_MV_2	Fault current including harmonics		
FltPtRis	ABBIED600_Rev7_MV_2	Fault point resistance		
AResReal	ABBIED600_Rev7_MV_2	Transient resistive component		
StrOpTm	ABBIED600_Rev7_MV_2	Actual operate time		
TmOpEst	ABBIED600_Rev7_MV_2	Time left to operate		

5.1.48 LN: IF2RFRC2 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
StrDur	ABBIED600_Rev7_MV_2	Start duration		
FltLoop	ABBIED600_Rev5_ENS_FltLoop	Fault loop		
NonQualH	ABBIED600_Rev1_INS	Non qualified harmonics		
EFDet	ABBIED600_Rev1_SPS_simple	Non-directional earth fault detection		
EFDetVald	ABBIED600_Rev1_SPS_simple	Valid EF detection in protected feeder		
XcnDet	ABBIED600_Rev1_SPS_simple	Cross-country fault detection		
ItmEFInd	ABBIED600_Rev1_SPS_simple	Restriking (intermittent) earth fault detection		
ActStrSt	ABBIED600_Rev1_INS	Started timers		
ActOpSt	ABBIED600_Rev1_INS	Operated timers		
VRes	ABBIED600_Rev7_MV_2	Residual voltage magnitude		

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ARes	ABBIED600_Rev7_MV_2	Residual current magnitude		
TchV	ABBIED600_Rev7_MV_2	Touch voltage magnitude		
TchVRms	ABBIED600_Rev7_MV_2	Touch voltage including harmonics		
FltA	ABBIED600_Rev7_WYE_res_simpler_i	Fault current		
FltARms	ABBIED600_Rev7_MV_2	Fault current including harmonics		
FltPtRis	ABBIED600_Rev7_MV_2	Fault point resistance		
AResReal	ABBIED600_Rev7_MV_2	Transient resistive component		
StrOpTm	ABBIED600_Rev7_MV_2	Actual operate time		
TmOpEst	ABBIED600_Rev7_MV_2	Time left to operate		

5.1.49 LN: IF1RFRC3 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
StrDur	ABBIED600_Rev7_MV_2	Start duration		
RcdTrg	ABBIED600_Rev3_SPC_control	Triggering recorded data		status-only,direct-with-normal-security
FltLoop	ABBIED600_Rev5_ENS_FltLoop	Fault loop		
NonQualH	ABBIED600_Rev1_INS	Non qualified harmonics		
EFDet	ABBIED600_Rev1_SPS_simple	Non-directional earth fault detection		

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EFDet-Vald	ABBIED600_Rev1_SPS_simple	Valid EF detection in protected feeder		
XcnDet	ABBIED600_Rev1_SPS_simple	Cross-country fault detection		
ItmEFInd	ABBIED600_Rev1_SPS_simple	Restriking (intermittent) earth fault detection		
ActStrSt	ABBIED600_Rev1_INS	Started timers		
ActOpSt	ABBIED600_Rev1_INS	Operated timers		
VRes	ABBIED600_Rev7_MV_2	Residual voltage magnitude		
ARes	ABBIED600_Rev7_MV_2	Residual current magnitude		
TchV	ABBIED600_Rev7_MV_2	Touch voltage magnitude		
TchVRms	ABBIED600_Rev7_MV_2	Touch voltage including harmonics		
FltA	ABBIED600_Rev7_WYE_res_simpler_i	Fault current magnitude		
FltARms	ABBIED600_Rev7_MV_2	Fault current including harmonics		
FltPtRis	ABBIED600_Rev7_MV_2	Fault point resistance		
AResReal	ABBIED600_Rev7_MV_2	Transient resistive component		
StrOpTm	ABBIED600_Rev7_MV_2	Actual operate time		

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TmOpEst	ABBIED600_Rev7_MV_2	Time left to operate		

5.1.50 LN: IF2RFRC3 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
StrDur	ABBIED600_Rev7_MV_2	Start duration		
FltLoop	ABBIED600_Rev5_ENS_FltLoop	Fault loop		
NonQualH	ABBIED600_Rev1_INS	Non qualified harmonics		
EFDet	ABBIED600_Rev1_SPS_simple	Non-directional earth fault detection		
EFDetVald	ABBIED600_Rev1_SPS_simple	Valid EF detection in protected feeder		
XcnDet	ABBIED600_Rev1_SPS_simple	Cross-country fault detection		
ItmEFInd	ABBIED600_Rev1_SPS_simple	Restriking (intermittent) earth fault detection		
ActStrSt	ABBIED600_Rev1_INS	Started timers		
ActOpSt	ABBIED600_Rev1_INS	Operated timers		
VRes	ABBIED600_Rev7_MV_2	Residual voltage magnitude		
ARes	ABBIED600_Rev7_MV_2	Residual current magnitude		
TchV	ABBIED600_Rev7_MV_2	Touch voltage magnitude		
TchVRms	ABBIED600_Rev7_MV_2	Touch voltage including harmonics		
FltA	ABBIED600_Rev7_WYE_res_simpler_i	Fault current magnitude		

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FltARms	ABBIED600_Rev7_MV_2	Fault current including harmonics		
FltPtRis	ABBIED600_Rev7_MV_2	Fault point resistance		
AResReal	ABBIED600_Rev7_MV_2	Transient resistive component		
StrOpTm	ABBIED600_Rev7_MV_2	Actual operate time		
TmOpEst	ABBIED600_Rev7_MV_2	Time left to operate		

5.1.51 LN: QVV1RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase A of the newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase B of the newest	E	ABBIED600:2014

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		comp-leted event		
VVaPhsC	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase C of the ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev7_MV_simple_i_e	VVa Phase A Dur of the ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev7_MV_simple_i_e	VVa Phase B Dur of the ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev7_MV_simple_i_e	VVa Phase C Dur of the ne-west comp-leted event	E	ABBIED600:2014
AP-reVaPhsA	ABBIED600_Rev7_MV_simple_i_e	I_A pre-cedin g Va start of the	E	ABBIED600:2014

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		ne-west comp-leted event		
APreVaPhsB	ABBIED600_Rev7_MV_simple_i_e	I_B pre-cedin g Va start of the ne-west comp-leted event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev7_MV_simple_i_e	I_C pre-cedin g Va start of the ne-west comp-leted event	E	ABBIED600:2014

5.1.52 LN: QVV2RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Vol-tage va-riation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase	E	ABBIED600:2014

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		A of the second newest completed event		
VVaPhsB	ABBIED600_Rev7_MV_simple_ie	VVa Magn phase B of the second newest completed event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev7_MV_simple_ie	VVa Magn phase C of the second newest completed event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev7_MV_simple_ie	VVa Phase A Dur of the second newest completed event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev7_MV_simple_ie	VVa Phase B Dur of the	E	ABBIED600:2014

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		se-cond ne-west comp-leted event		
VVaTmPhsC	ABBIED600_Rev7_MV_simple_ie	VVa Phase C Dur of the se-cond ne-west comp-leted event	E	ABBIED600:2014
AP-reVaPhsA	ABBIED600_Rev7_MV_simple_ie	I_A pre-cedin g Va start of the 2nd ne-west comp-leted event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev7_MV_simple_ie	I_B pre-cedin g Va start of the 2nd ne-west comp-leted event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev7_MV_simple_ie	I_C pre-cedin g Va start of the	E	ABBIED600:2014

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		2nd newest completed event		

5.1.53 LN: QVV3RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase A of the third newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase B of the third newest completed event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev7_MV_simple_i_e	VVa Magn	E	ABBIED600:2014

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		phase C of the third ne-west comp-leted event		
VVaTmPhsA	ABBIED600_Rev7_MV_simple_ie	VVa Phase A Dur of the third ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev7_MV_simple_ie	VVa Phase B Dur of the third ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev7_MV_simple_ie	VVa Phase C Dur of the third ne-west comp-leted event	E	ABBIED600:2014
AP-reVaPhsA	ABBIED600_Rev7_MV_simple_ie	I_A pre-cedin g Va start of the 3rd ne-west	E	ABBIED600:2014

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		completed event		
APreVaPhsB	ABBIED600_Rev7_MV_simple_ie	I_B preceding Va start of the 3rd newest completed event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev7_MV_simple_ie	I_C preceding Va start of the 3rd newest completed event	E	ABBIED600:2014

5.1.54 LN: PH2QVVR2 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev4_LPL_lnNs_Ed2	Name plate		
VaStr	ABBIED600_Rev1_SPS	Start Phase B (Voltage Variation Event in progress)		
VVa	ABBIED600_Rev7_MV_simple_i	Voltage Variation		

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		Magnitude of the last completed event		
VVaTm	ABBIED600_Rev7_MV_simple_i	Voltage Variation Duration of the last completed event		
APreVa	ABBIED600_Rev7_MV_simple_i_e	Current magnitude Phase B preceding variation	E	ABBIED600:2014

5.1.55 LN: PH3QVVR2 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev4_LPL_lnNs_Ed2	Name plate		
VaStr	ABBIED600_Rev1_SPS	Start Phase C (Voltage Variation Event in progress)		
VVa	ABBIED600_Rev7_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev7_MV_simple_i	Voltage Variation Duration of the last completed event		

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APreVa	ABBIED600_Rev7_MV_simple_i_e	Current magnitude Ph C preceding variation	E	ABBIED600:2014

5.1.56 LN: QVV1RQRC2 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase A of the newest completed event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase B of the newest completed event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase C of the	E	ABBIED600:2014

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		ne-west comp-leted event		
VVaTmPhsA	ABBIED600_Rev7_MV_simple_ie	VVa Phase A Dur of the ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev7_MV_simple_ie	VVa Phase B Dur of the ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev7_MV_simple_ie	VVa Phase C Dur of the ne-west comp-leted event	E	ABBIED600:2014
AP-reVaPhsA	ABBIED600_Rev7_MV_simple_ie	I_A pre-cedin g Va start of the ne-west comp-leted event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev7_MV_simple_ie	I_B pre-cedin g Va	E	ABBIED600:2014

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		start of the ne-west comp-leted event		
APreVaPhsC	ABBIED600_Rev7_MV_simple_i_e	I_C pre-cedin g Va start of the ne-west comp-leted event	E	ABBIED600:2014

5.1.57 LN: QVV2RQRC2 Name: RQRC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Vol-tage va-riation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase A of the se-cond ne-west comp-leted event	E	ABBIED600:2014

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VVaPhsB	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase B of the se-cond ne-west comp-leted event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase C of the se-cond ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsA	ABBIED600_Rev7_MV_simple_i_e	VVa Phase A Dur of the se-cond ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev7_MV_simple_i_e	VVa Phase B Dur of the se-cond ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev7_MV_simple_i_e	VVa Phase	E	ABBIED600:2014

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		C Dur of the se-cond ne-west comp-leted event		
AP-reVaPhsA	ABBIED600_Rev7_MV_simple_i_e	I_A pre-cedin g Va start of the 2nd ne-west comp-leted event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev7_MV_simple_i_e	I_B pre-cedin g Va start of the 2nd ne-west comp-leted event	E	ABBIED600:2014
APreVaPhsC	ABBIED600_Rev7_MV_simple_i_e	I_C pre-cedin g Va start of the 2nd ne-west comp-leted event	E	ABBIED600:2014

5.1.58 LN: QVV3RQRC2 Name: RQRC (ED2)

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Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Vol-tage va-riation type	E	ABBIED600:2014
VVaPhsA	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase A of the third ne-west comp-leted event	E	ABBIED600:2014
VVaPhsB	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase B of the third ne-west comp-leted event	E	ABBIED600:2014
VVaPhsC	ABBIED600_Rev7_MV_simple_i_e	VVa Magn phase C of the third ne-west comp-leted event	E	ABBIED600:2014

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VVaTmPhsA	ABBIED600_Rev7_MV_simple_ie	VVa Phase A Dur of the third ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsB	ABBIED600_Rev7_MV_simple_ie	VVa Phase B Dur of the third ne-west comp-leted event	E	ABBIED600:2014
VVaTmPhsC	ABBIED600_Rev7_MV_simple_ie	VVa Phase C Dur of the third ne-west comp-leted event	E	ABBIED600:2014
AP-reVaPhsA	ABBIED600_Rev7_MV_simple_ie	I_A pre-cedin g Va start of the 3rd ne-west comp-leted event	E	ABBIED600:2014
APreVaPhsB	ABBIED600_Rev7_MV_simple_ie	I_B pre-cedin g Va start of the	E	ABBIED600:2014

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		3rd newest completed event		
APreVaPhsC	ABBIED600_Rev7_MV_simple_i_e	I_C preceding Va start of the 3rd newest completed event	E	ABBIED600:2014

5.1.59 LN: QVU1RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name Plate		
MaxVVa	ABBIED600_Rev7_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev7_MV_simple_i_e	Duration of newest high mean unbalance voltage alarm	E	IEC 61850-7-4:2007

5.1.60 LN: QVU2RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name Plate		

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MaxVVa	ABBIED600_Rev7_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev7_MV_simple_i_e	Duration of second newest high mean unbalance Volt alarm	E	IEC 61850-7-4:2007

5.1.61 LN: QVU3RQRC1 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name Plate		
MaxVVa	ABBIED600_Rev7_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev7_MV_simple_i_e	Duration of third newest high mean unbalance Volt alarm	E	IEC 61850-7-4:2007

5.1.62 LN: QVU1RQRC2 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name Plate		
MaxVVa	ABBIED600_Rev7_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev7_MV_simple_i_e	Duration of newest high mean unbalance voltage alarm	E	IEC 61850-7-4:2007

5.1.63 LN: QVU2RQRC2 Name: RQRC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name Plate		
MaxVVa	ABBIED600_Rev7_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev7_MV_simple_i_e	Duration of second newest high mean unbalance Volt alarm	E	IEC 61850-7-4:2007

5.1.64 LN: QVU3RQRC2 Name: RQRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name Plate		
MaxVVa	ABBIED600_Rev7_MV_simple_i_e	Maximum unbalance deviation value	E	IEC 61850-7-4:2007
VVaTm	ABBIED600_Rev7_MV_simple_i_e	Duration of third newest high mean unbalance Volt alarm	E	IEC 61850-7-4:2007

5.1.65 LN: OL5ATCC1 Name: ATCC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev4_LPL_lnNs_Ed2	Name plate		
Loc	ABBIED600_Rev1_SPS	Local operation		

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OpCntRs	ABBIED600_Rev2_INC_simple_int	Resetable operation counter		status-only
TapChg	ABBIED600_Rev5_BSC_control	Change Tap Position (stop, lower, higher)		status-only,direct-with-normal-security
ParOp	ABBIED600_Rev3_SPC_control	Parallel/Independent operation		status-only,direct-with-normal-security
LTCBlk	ABBIED600_Rev2_SPC_simple	Block (Inhibit) control output of LTC		status-only
VRed	ABBIED600_Rev2_SPC_simple	Voltage reduction step 1		status-only
CtlV	ABBIED600_Rev7_MV_simple_i	Control voltage		
LodA	ABBIED600_Rev7_MV_simple_i	Load current (total transformer secondary current)		
CircA	ABBIED600_Rev7_MV_simple_i	Circulating current		
Auto	ABBIED600_Rev3_SPC_control	Automatic/Manual operation		status-only,direct-with-normal-security
BndCtr	ABBIED600_Rev8_ASG_SG_i	Band center voltage		
BndWid	ABBIED600_Rev8_ASG_SP_i	Band width voltage		
CtlDlTmms	ABBIED600_Rev2_ING_SG	Control intentional time delay 1		
CtlDl2Tmms	ABBIED600_Rev2_ING_SG_e	Control intentional time delay 2	E	ABBIED600:2014
LDCR	ABBIED600_Rev8_ASG_SG_i	Line drop voltage due to line resistance component		

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LDCX	ABBIED600_Rev8_ASG_SG_i	Line drop voltage due to line reactance component		
RnbkRV	ABBIED600_Rev8_ASG_SP_i	Runback raise voltage		
LimLodA	ABBIED600_Rev8_ASG_SP_i	Limit load current (LTC Block Load current)		
TmDlChr	ABBIED600_Rev2_SPG_SP	Time delay linear or inverse characteristics		
VRedVal	ABBIED600_Rev8_ASG_SG_i	Reduction of band centre (percent) when voltage step is active		
TapBlkR	ABBIED600_Rev2_ING_SG	Tap position of Load tap changer where automatic Raise commands are blocked		
TapBlkL	ABBIED600_Rev2_ING_SG	Tap position of Load tap changer where automatic Lower commands are blocked		
BlkVLo	ABBIED600_Rev8_ASG_SP_i	Control voltage below which auto Raise commands are blocked		
EndPosR	ABBIED600_Rev1_SPS	End position raise reached		

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EndPosL	ABBIED600_Rev1_SPS	End position lower reached		
ParTrf-Mod	ABBIED600_Rev5_ENG_SG_ParTrfMod_Sub1	Parallel mode		
TapO-pErr	ABBIED600_Rev1_SPS	Alarm		
TapOpR	ABBIED600_Rev1_SPS	Raise command for own transformer		
TapOpL	ABBIED600_Rev1_SPS	Lower command for own transformer		
LTCBl-kAHi	ABBIED600_Rev1_SPS	Block load current		
LTCBlk VLo	ABBIED600_Rev1_SPS	Block under voltage		
Blk	ABBIED600_Rev1_SPS	External block status		
ErrPar	ABBIED600_Rev1_SPS	Parallel failure		
VolSpt	ABBIED600_Rev9_APC_control	Voltage setpoint		status-only,direct-with-normal-security
LTCBlkREnd	ABBIED600_Rev1_SPS_e	Block raise	E	ABBIED600:2014
LTCBlk-LEnd	ABBIED600_Rev1_SPS_e	Block lower	E	ABBIED600:2014
Lod-PhAng	ABBIED600_Rev8_ASG_SG_i_e	Load phase angle	E	ABBIED600:2014
StabFact	ABBIED600_Rev8_ASG_SG_i_e	Stability	E	ABBIED600:2014
VCt-lOpMod	ABBIED600_Rev6_ENG_SP_OpModSetATCC_e	Operation mode	E	ABBIED600:2014
LTCPlsTmms	ABBIED600_Rev2_ING_SP_e	Output pulse	E	ABBIED600:2014
ManBlk-Typ	ABBIED600_Rev3_ENG_SP_ManBlkType_e	Manual blocking type	E	ABBIED600:2014
Lim-CircA	ABBIED600_Rev8_ASG_SP_i_e	Circulating current limit	E	ABBIED600:2014

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LimLDC	ABBIED600_Rev8_ASG_SG_i_e	Line Drop Compensation limit	E	ABBIED600:2014
LDCEna	ABBIED600_Rev1_SPG_SG_e	Line Drop Compensation enable	E	ABBIED600:2014
RPFAllw	ABBIED600_Rev1_SPG_SG_e	Reverse power flow allowed	E	ABBIED600:2014
OpTmh Max	ABBIED600_Rev2_ING_SP_1_e	Max operations in 1h	E	ABBIED600:2014
CmdErrTms	ABBIED600_Rev2_ING_SP_1_e	Command error delay	E	ABBIED600:2014
FolDlTms	ABBIED600_Rev2_ING_SP_1_e	Follower delay	E	ABBIED600:2014
AlmEna	ABBIED600_Rev2_SPG_SP_e	Alarms enabled	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Counter reset	E	ABBIED600:2014,status-only,direct-with-normal-security
TapOpFol1	ABBIED600_Rev1_INS_e	Change follower 1 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
TapOpFol2	ABBIED600_Rev1_INS_e	Change follower 2 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
TapOpFol3	ABBIED600_Rev1_INS_e	Change follower 3 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
TapOpFol4	ABBIED600_Rev1_INS_e	Change follower 4 tap position	E	ABBIED600:2014

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		command from master (stop, lower, higher)		
TapOp-Fol5	ABBIED600_Rev1_INS_e	Change follower 5 tap position command from master (stop, lower, higher)	E	ABBIED600:2014
LodAVec	ABBIED600_Rev7_CMV_S_1_e	Transmitted current phasor	E	ABBIED600:2014
VMeas	ABBIED600_Rev7_MV_simple_i_e	Voltage, average filtered	E	ABBIED600:2014
Ang-VAPhA	ABBIED600_Rev7_MV_simple_i_e	Angle U_A-I_A	E	ABBIED600:2014
CtlDlOn	ABBIED600_Rev2_ENS_TimerOn_e	Timer status	E	ABBIED600:2014
CtlOpModSt	ABBIED600_Rev3_ENS_OpModATCC_e	Acting oper mode	E	ABBIED600:2014
CtlVDif	ABBIED600_Rev7_MV_simple_i_e	Voltage difference	E	ABBIED600:2014
ClcLDC	ABBIED600_Rev7_MV_simple_i_e	Calculated Line Drop Compensation	E	ABBIED600:2014
BlkSt	ABBIED600_Rev1_INS_e	Block status	E	ABBIED600:2014
LTC-Rnbk	ABBIED600_Rev1_SPS_e	Block run-back raise voltage	E	ABBIED600:2014
CircA-HiBlk	ABBIED600_Rev1_SPS_e	Block circulating current	E	ABBIED600:2014
AlmReas	ABBIED600_Rev2_ENS_AlmReas_e	Alarm reason	E	ABBIED600:2014
FolFlt	ABBIED600_Rev3_ENS_FllwFlt_e	Failed followers	E	ABBIED600:2014
NumParUnt	ABBIED600_Rev3_ENS_ParUnits_e	Parallel units in MCC	E	ABBIED600:2014

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InConnSt	ABBIED600_Rev1_SPS_e	Connection status	E	ABBIED600:2014
InLTCOp	ABBIED600_Rev1_SPS_e	Tap Changer Operating	E	ABBIED600:2014
ParTrfNum	ABBIED600_Rev2_ING_SP_1_e	Parallel trafos	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub9_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpTmhNum	ABBIED600_Rev1_INS_e	Controls per last 1h	E	ABBIED600:2014
TapChgR	ABBIED600_Rev1_SPS_e	RAISE_LOCAL	E	ABBIED600:2014
TapChgL	ABBIED600_Rev1_SPS_e	LOWER_LOCAL	E	ABBIED600:2014
CtlDlSt	ABBIED600_Rev1_SPS_e	Timer on	E	ABBIED600:2014
InAuto	ABBIED600_Rev1_SPS_e	Input auto operation	E	ABBIED600:2014
InParOp	ABBIED600_Rev1_SPS_e	Input parallel operation	E	ABBIED600:2014
InMstrOp	ABBIED600_Rev1_SPS_e	Input master operation	E	ABBIED600:2014
TrfSt	ABBIED600_Rev3_ENS_TrfSt_e	Transformer status	E	ABBIED600:2014
MstrOp	ABBIED600_Rev3_SPC_control_e	Master/Follower operation	E	ABBIED600:2014,status-only,direct-with-normal-security
TapDif	ABBIED600_Rev1_SPS_e	Tap difference	E	ABBIED600:2014
StepCorEna	ABBIED600_Rev2_SPG_SP_e	Instant out of step correction	E	ABBIED600:2014
PwrDir	ABBIED600_Rev1_ENS_PwrDir_e	Power flow direction	E	ABBIED600:2014
RvReg	ABBIED600_Rev1_SPS_e	Reverse regulaton	E	ABBIED600:2014
StepTap	ABBIED600_Rev8_ASG_SP_i_e	Step of tap	E	ABBIED600:2014
TapNomLTC	ABBIED600_Rev2_ING_SP_1_e	Tap nominal	E	ABBIED600:2014

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RegMod	ABBIED600_Rev2_ENG_SP_RegModATCC_e	Regulation mode	E	ABBIED600:2014
PctImpVol	ABBIED600_Rev8_ASG_SP_i_e	The percentage impedance voltage at rated current referred to MV side	E	ABBIED600:2014

5.1.66 LN: HSABTC1 Name: ABTC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_e	Block signal for all binary outputs	E	ABBIED600:2014
TrnRdy	ABBIED600_Rev1_SPS_e	Transfer ready	E	ABBIED600:2014
TrnNoRdy	ABBIED600_Rev1_SPS_e	Transfer not ready	E	ABBIED600:2014
TrnNoIdle	ABBIED600_Rev1_SPS_e	Transfer is not in idle state	E	ABBIED600:2014
TrnRun	ABBIED600_Rev1_SPS_e	Transfer is in	E	ABBIED600:2014

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		running state		
FastTrnRdy	ABBIED600_Rev1_SPS_e	Ready for fast transfer	E	ABBIED600:2014
CmplFast	ABBIED600_Rev1_SPS_e	Fast transfer complete	E	ABBIED600:2014
CmplFBBM	ABBIED600_Rev1_SPS_e	HBT transfer complete	E	ABBIED600:2014
Cmpl1Ph	ABBIED600_Rev1_SPS_e	First phase coincidence transfer complete	E	ABBIED600:2014
CmplRes	ABBIED600_Rev1_SPS_e	Residual Voltage based transfer complete	E	ABBIED600:2014
CmplTmDl	ABBIED600_Rev1_SPS_e	Time delayed based transfer complete	E	ABBIED600:2014
InhTrnIni	ABBIED600_Rev1_SPS_e	Inhibit	E	ABBIED600:2014

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		transfer initiation		
DifHzFail	ABBIED600_Rev1_SPS_e	Frequency difference is not in range for fast transfer	E	ABBIED600:2014
DifAngFail	ABBIED600_Rev1_SPS_e	Phase angle difference is not in range for fast transfer	E	ABBIED600:2014
HzGraFail	ABBIED600_Rev1_SPS_e	Frequency gradient above limit for 1st phase transfer	E	ABBIED600:2014
StdbyVFail	ABBIED600_Rev1_SPS_e	Stand by feeder voltage below set limit for transfer	E	ABBIED600:2014

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BusVFail	ABBIED600_Rev1_SPS_e	Bus-bar voltage below set limit for fast transfer	E	ABBIED600:2014
BusVResLo	ABBIED600_Rev1_SPS_e	Bus-bar voltage below residual voltage limit	E	ABBIED600:2014
DeCpOp	ABBIED600_Rev1_SPS_e	De-coupling operated	E	ABBIED600:2014
InTrnOn	ABBIED600_Rev1_SPS_e	Transfer On	E	ABBIED600:2014
IniHz	ABBIED600_Rev1_SPS_e	Transfer initiated by under frequency	E	ABBIED600:2014
IniVlo	ABBIED600_Rev1_SPS_e	Transfer initiated by under voltage	E	ABBIED600:2014
IniExt	ABBIED600_Rev1_SPS_e	Transfer	E	ABBIED600:2014

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		initiated by external initiation		
IniTrn12	ABBIED600_Rev1_SPS_e	Transfer initiation from feeder 1 to feeder 2	E	ABBIED600:2014
IniTrn21	ABBIED600_Rev1_SPS_e	Transfer initiation from feeder 2 to feeder 1	E	ABBIED600:2014
DirTrn12	ABBIED600_Rev1_SPS_e	Transfer direction from feeder 1 to feeder 2	E	ABBIED600:2014
DirTrn21	ABBIED600_Rev1_SPS_e	Transfer direction from feeder 2 to feeder 1	E	ABBIED600:2014
LastTrn12	ABBIED600_Rev1_SPS_e	Last valid transfer from	E	ABBIED600:2014

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		feeder 1 to feeder 2		
LastTrn21	ABBIED600_Rev1_SPS_e	Last valid trans-fer from feeder 2 to feeder 1	E	ABBIED600:2014
LodShd	ABBIED600_Rev1_SPS_e	Ope-rate load shed-ding	E	ABBIED600:2014
InhTrn12	ABBIED600_Rev1_SPS_e	Di-sable trans-fer from feeder 1 to feeder 2	E	ABBIED600:2014
InhTrn21	ABBIED600_Rev1_SPS_e	Di-sable trans-fer from feeder 2 to feeder 1	E	ABBIED600:2014
InhFastTrn	ABBIED600_Rev1_SPS_e	Di-sable fast trans-fer	E	ABBIED600:2014
InhFBBMTrn	ABBIED600_Rev1_SPS_e	Di-sable fast break before make	E	ABBIED600:2014

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		trans-fer		
Inh1PhTrn	ABBIED600_Rev1_SPS_e	Di-sable 1st phase trans-fer	E	ABBIED600:2014
InhResVTrn	ABBIED600_Rev1_SPS_e	Di-sable resi-dual trans-fer	E	ABBIED600:2014
InhTmDlTrn	ABBIED600_Rev1_SPS_e	Di-sable time de-layed trans-fer	E	ABBIED600:2014
InhDeCp	ABBIED600_Rev1_SPS_e	Di-sable de-coup-ling	E	ABBIED600:2014
InhTrnRun	ABBIED600_Rev1_SPS_e	Stop run-ning trans-fer	E	ABBIED600:2014
InEna-FastTrn	ABBIED600_Rev1_SPS_e	Enabl e only fast trans-fer	E	ABBIED600:2014
InEnaF-BBMTrn	ABBIED600_Rev1_SPS_e	Enabl e only FBB M	E	ABBIED600:2014
InhCBOp-nTrn	ABBIED600_Rev1_SPS_e	Di-sable CB open trans-fer	E	ABBIED600:2014

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MinVStdby	ABBIED600_Rev8_ASG_SG_i_e	Minimum standby voltage	E	ABBIED600:2014
MinVBus	ABBIED600_Rev8_ASG_SG_i_e	Minimum busbar voltage	E	ABBIED600:2014
ResVLim	ABBIED600_Rev8_ASG_SG_i_e	Residual voltage limit	E	ABBIED600:2014
StrValHz	ABBIED600_Rev8_ASG_SG_i_e	Under frequency start value	E	ABBIED600:2014
StrValV	ABBIED600_Rev8_ASG_SG_i_e	Under voltage start value	E	ABBIED600:2014
StrHzTmms	ABBIED600_Rev2_ING_SG_e	Under frequency initiation delay	E	ABBIED600:2014
StrVTmms	ABBIED600_Rev2_ING_SG_e	Under voltage initiation delay	E	ABBIED600:2014
OpModTrn	ABBIED600_Rev1_ENG_SP_OpModTrn_e	Operation mode for transfer initiation	E	ABBIED600:2014

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LodShdMth	ABBIED600_Rev1_ENG_SP_LodShdMth_e	Load shed-ding met-hod	E	ABBIED600:2014
LodShdVLim	ABBIED600_Rev8_ASG_SG_i_e	Load shed-ding vol-tage limit	E	ABBIED600:2014
LodShdVTmms	ABBIED600_Rev2_ING_SG_e	Vol-tage based load-shed-ding time delay	E	ABBIED600:2014
LodShdTmms	ABBIED600_Rev2_ING_SG_e	Load shed-ding time delay	E	ABBIED600:2014
DifHz	ABBIED600_Rev8_ASG_SP_i_e	Diffe-rence Fre-quenc y	E	IEC 61850-7-4:2007
MaxPh-LdLim	ABBIED600_Rev2_ING_SP_e	Maxi-mum phase lead limit for fast trans-fer	E	ABBIED600:2014
Max-PhLgLim	ABBIED600_Rev2_ING_SP_e	Maxi-mum phase lag li-mit for fast trans-fer	E	ABBIED600:2014

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MaxAng-FBBM	ABBIED600_Rev2_ING_SP_e	Max phase angle allo-wed for fast break before make trans-fer	E	ABBIED600:2014
MaxHzGra	ABBIED600_Rev2_ING_SP_e	Maxi-mum DfDt limit	E	ABBIED600:2014
MaxTrnTmms	ABBIED600_Rev2_ING_SP_e	Maxi-mum trans-fer run time	E	ABBIED600:2014
TrnDlTmms	ABBIED600_Rev2_ING_SP_e	Time de-layed trans-fer time	E	ABBIED600:2014
TrnWtTmms	ABBIED600_Rev2_ING_SP_e	Trans-fer wait time	E	ABBIED600:2014
EnaFastTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enabe fast trans-fer	E	ABBIED600:2014
EnaF-BBMTrn	ABBIED600_Rev2_SPG_SP_e	Enabl e fast break before make trans-fer	E	ABBIED600:2014
Ena1PhTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enabl e 1st phase	E	ABBIED600:2014

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		tran-fer		
EnaRes-VTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable resi-dual vol-tage trans-fer	E	ABBIED600:2014
EnaTmDlTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable time de-layed trans-fer	E	ABBIED600:2014
EnaCBTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable trans-fer based on circuit brea-ker ope-ning	E	ABBIED600:2014
EnaManTrn	ABBIED600_Rev2_SPG_SP_e	Enable ma-nual trans-fer	E	ABBIED600:2014
EnaDeCp	ABBIED600_Rev2_SPG_SP_e	Enable cir-cuit brea-ker de-coup-ling	E	ABBIED600:2014
DeCpTmms	ABBIED600_Rev2_ING_SP_e	Cir-cuit brea-ker de-coup-ling delay	E	ABBIED600:2014

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TrnSt	ABBIED600_Rev2_ENS_TrnSt_e	Transfer status	E	ABBIED600:2014
ManTrnTrg	ABBIED600_Rev3_SPC_control_e	Trigger manual transfer	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Reset travel time	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvTmSet	ABBIED600_Rev3_SPC_control_e	Set travel time	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkRs	ABBIED600_Rev3_SPC_control_e	Block reset	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub15_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.1.67 LN: HS1RBRC1 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		

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VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of frequency of busbar voltage		
BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.68 LN: HS2RBRC1 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		
VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of frequency of busbar voltage		

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BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.69 LN: HS3RBRC1 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Re-marks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		
VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of fre-quency of busbar voltage		
BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		

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DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.70 LN: HSABTC2 Name: ABTC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_e	Block signal for all binary outputs	E	ABBIED600:2014
TrnRdy	ABBIED600_Rev1_SPS_e	Transfer ready	E	ABBIED600:2014
TrnNoRdy	ABBIED600_Rev1_SPS_e	Transfer not ready	E	ABBIED600:2014
TrnNoIdle	ABBIED600_Rev1_SPS_e	Transfer is not in idle state	E	ABBIED600:2014
TrnRun	ABBIED600_Rev1_SPS_e	Transfer is in	E	ABBIED600:2014

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		running state		
FastTrnRdy	ABBIED600_Rev1_SPS_e	Ready for fast transfer	E	ABBIED600:2014
CmplFast	ABBIED600_Rev1_SPS_e	Fast transfer complete	E	ABBIED600:2014
CmplFBBM	ABBIED600_Rev1_SPS_e	HBT transfer complete	E	ABBIED600:2014
Cmpl1Ph	ABBIED600_Rev1_SPS_e	First phase coincidence transfer complete	E	ABBIED600:2014
CmplRes	ABBIED600_Rev1_SPS_e	Residual Voltage based transfer complete	E	ABBIED600:2014
CmplTmDl	ABBIED600_Rev1_SPS_e	Time delayed based transfer complete	E	ABBIED600:2014
InhTrnIni	ABBIED600_Rev1_SPS_e	Inhibit	E	ABBIED600:2014

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		transfer initiation		
DifHzFail	ABBIED600_Rev1_SPS_e	Frequency difference is not in range for fast transfer	E	ABBIED600:2014
DifAngFail	ABBIED600_Rev1_SPS_e	Phase angle difference is not in range for fast transfer	E	ABBIED600:2014
HzGraFail	ABBIED600_Rev1_SPS_e	Frequency gradient above limit for 1st phase transfer	E	ABBIED600:2014
StdbyVFail	ABBIED600_Rev1_SPS_e	Stand by feeder voltage below set limit for transfer	E	ABBIED600:2014

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BusVFail	ABBIED600_Rev1_SPS_e	Bus-bar voltage below set limit for fast transfer	E	ABBIED600:2014
BusVResLo	ABBIED600_Rev1_SPS_e	Bus-bar voltage below residual voltage limit	E	ABBIED600:2014
DeCpOp	ABBIED600_Rev1_SPS_e	De-coupling operated	E	ABBIED600:2014
InTrnOn	ABBIED600_Rev1_SPS_e	Transfer On	E	ABBIED600:2014
IniHz	ABBIED600_Rev1_SPS_e	Transfer initiated by under frequency	E	ABBIED600:2014
IniVlo	ABBIED600_Rev1_SPS_e	Transfer initiated by under voltage	E	ABBIED600:2014
IniExt	ABBIED600_Rev1_SPS_e	Transfer	E	ABBIED600:2014

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		initiated by external initiation		
IniTrn12	ABBIED600_Rev1_SPS_e	Transfer initiation from feeder 1 to feeder 2	E	ABBIED600:2014
IniTrn21	ABBIED600_Rev1_SPS_e	Transfer initiation from feeder 2 to feeder 1	E	ABBIED600:2014
DirTrn12	ABBIED600_Rev1_SPS_e	Transfer direction from feeder 1 to feeder 2	E	ABBIED600:2014
DirTrn21	ABBIED600_Rev1_SPS_e	Transfer direction from feeder 2 to feeder 1	E	ABBIED600:2014
LastTrn12	ABBIED600_Rev1_SPS_e	Last valid transfer from	E	ABBIED600:2014

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		feeder 1 to feeder 2		
LastTrn21	ABBIED600_Rev1_SPS_e	Last valid trans-fer from feeder 2 to feeder 1	E	ABBIED600:2014
LodShd	ABBIED600_Rev1_SPS_e	Ope-rate load shed-ding	E	ABBIED600:2014
InhTrn12	ABBIED600_Rev1_SPS_e	Di-sable trans-fer from feeder 1 to feeder 2	E	ABBIED600:2014
InhTrn21	ABBIED600_Rev1_SPS_e	Di-sable trans-fer from feeder 2 to feeder 1	E	ABBIED600:2014
InhFastTrn	ABBIED600_Rev1_SPS_e	Di-sable fast trans-fer	E	ABBIED600:2014
InhFBBMTrn	ABBIED600_Rev1_SPS_e	Di-sable fast break before make	E	ABBIED600:2014

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		trans-fer		
Inh1PhTrn	ABBIED600_Rev1_SPS_e	Di-sable 1st phase trans-fer	E	ABBIED600:2014
InhResVTrn	ABBIED600_Rev1_SPS_e	Di-sable resi-dual trans-fer	E	ABBIED600:2014
InhTmDlTrn	ABBIED600_Rev1_SPS_e	Di-sable time de-layed trans-fer	E	ABBIED600:2014
InhDeCp	ABBIED600_Rev1_SPS_e	Di-sable de-coup-ling	E	ABBIED600:2014
InhTrnRun	ABBIED600_Rev1_SPS_e	Stop run-ning trans-fer	E	ABBIED600:2014
InEna-FastTrn	ABBIED600_Rev1_SPS_e	Enabl e only fast trans-fer	E	ABBIED600:2014
InEnaF-BBMTrn	ABBIED600_Rev1_SPS_e	Enabl e only FBB M	E	ABBIED600:2014
InhCBOp-nTrn	ABBIED600_Rev1_SPS_e	Di-sable CB open trans-fer	E	ABBIED600:2014

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MinVStdby	ABBIED600_Rev8_ASG_SG_i_e	Minimum standby voltage	E	ABBIED600:2014
MinVBus	ABBIED600_Rev8_ASG_SG_i_e	Minimum busbar voltage	E	ABBIED600:2014
ResVLim	ABBIED600_Rev8_ASG_SG_i_e	Residual voltage limit	E	ABBIED600:2014
StrValHz	ABBIED600_Rev8_ASG_SG_i_e	Under frequency start value	E	ABBIED600:2014
StrValV	ABBIED600_Rev8_ASG_SG_i_e	Under voltage start value	E	ABBIED600:2014
StrHzTmms	ABBIED600_Rev2_ING_SG_e	Under frequency initiation delay	E	ABBIED600:2014
StrVTmms	ABBIED600_Rev2_ING_SG_e	Under voltage initiation delay	E	ABBIED600:2014
OpModTrn	ABBIED600_Rev1_ENG_SP_OpModTrn_e	Operation mode for transfer initiation	E	ABBIED600:2014

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LodShdMth	ABBIED600_Rev1_ENG_SP_LodShdMth_e	Load shed-ding met-hod	E	ABBIED600:2014
LodShdVLim	ABBIED600_Rev8_ASG_SG_i_e	Load shed-ding vol-tage limit	E	ABBIED600:2014
LodShdVTmms	ABBIED600_Rev2_ING_SG_e	Vol-tage based load-shed-ding time delay	E	ABBIED600:2014
LodShdTmms	ABBIED600_Rev2_ING_SG_e	Load shed-ding time delay	E	ABBIED600:2014
DifHz	ABBIED600_Rev8_ASG_SP_i_e	Diffe-rence Fre-quenc y	E	IEC 61850-7-4:2007
MaxPh-LdLim	ABBIED600_Rev2_ING_SP_e	Maxi-mum phase lead limit for fast trans-fer	E	ABBIED600:2014
Max-PhLgLim	ABBIED600_Rev2_ING_SP_e	Maxi-mum phase lag li-mit for fast trans-fer	E	ABBIED600:2014

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MaxAng-FBBM	ABBIED600_Rev2_ING_SP_e	Max phase angle allo-wed for fast break before make trans-fer	E	ABBIED600:2014
MaxHzGra	ABBIED600_Rev2_ING_SP_e	Maxi-mum DfDt limit	E	ABBIED600:2014
MaxTrnTmms	ABBIED600_Rev2_ING_SP_e	Maxi-mum trans-fer run time	E	ABBIED600:2014
TrnDlTmms	ABBIED600_Rev2_ING_SP_e	Time de-layed trans-fer time	E	ABBIED600:2014
TrnWtTmms	ABBIED600_Rev2_ING_SP_e	Trans-fer wait time	E	ABBIED600:2014
EnaFastTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enabe fast trans-fer	E	ABBIED600:2014
EnaF-BBMTrn	ABBIED600_Rev2_SPG_SP_e	Enabl e fast break before make trans-fer	E	ABBIED600:2014
Ena1PhTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enabl e 1st phase	E	ABBIED600:2014

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		tran-fer		
EnaRes-VTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable resi-dual vol-tage trans-fer	E	ABBIED600:2014
EnaTmDlTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable time de-layed trans-fer	E	ABBIED600:2014
EnaCBTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable trans-fer based on circuit brea-ker ope-ning	E	ABBIED600:2014
EnaManTrn	ABBIED600_Rev2_SPG_SP_e	Enable ma-nual trans-fer	E	ABBIED600:2014
EnaDeCp	ABBIED600_Rev2_SPG_SP_e	Enable cir-cuit brea-ker de-coup-ling	E	ABBIED600:2014
DeCpTmms	ABBIED600_Rev2_ING_SP_e	Cir-cuit brea-ker de-coup-ling delay	E	ABBIED600:2014

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TrnSt	ABBIED600_Rev2_ENS_TrnSt_e	Transfer status	E	ABBIED600:2014
ManTrnTrg	ABBIED600_Rev3_SPC_control_e	Trigger manual transfer	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Reset travel time	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvTmSet	ABBIED600_Rev3_SPC_control_e	Set travel time	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkRs	ABBIED600_Rev3_SPC_control_e	Block reset	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub15_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.1.71 LN: HS1RBRC2 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		

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VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of frequency of busbar voltage		
BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.72 LN: HS2RBRC2 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		
VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of frequency of busbar voltage		

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BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.73 LN: HS3RBRC2 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Re-marks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		
VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of frequency of busbar voltage		
BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		

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DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.74 LN: HSABTC3 Name: ABTC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_e	Block signal for all binary outputs	E	ABBIED600:2014
TrnRdy	ABBIED600_Rev1_SPS_e	Transfer ready	E	ABBIED600:2014
TrnNoRdy	ABBIED600_Rev1_SPS_e	Transfer not ready	E	ABBIED600:2014
TrnNoIdle	ABBIED600_Rev1_SPS_e	Transfer is not in idle state	E	ABBIED600:2014
TrnRun	ABBIED600_Rev1_SPS_e	Transfer is in	E	ABBIED600:2014

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		running state		
FastTrnRdy	ABBIED600_Rev1_SPS_e	Ready for fast transfer	E	ABBIED600:2014
CmplFast	ABBIED600_Rev1_SPS_e	Fast transfer complete	E	ABBIED600:2014
CmplFBBM	ABBIED600_Rev1_SPS_e	HBT transfer complete	E	ABBIED600:2014
Cmpl1Ph	ABBIED600_Rev1_SPS_e	First phase coincidence transfer complete	E	ABBIED600:2014
CmplRes	ABBIED600_Rev1_SPS_e	Residual Voltage based transfer complete	E	ABBIED600:2014
CmplTmDl	ABBIED600_Rev1_SPS_e	Time delayed based transfer complete	E	ABBIED600:2014
InhTrnIni	ABBIED600_Rev1_SPS_e	Inhibit	E	ABBIED600:2014

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		transfer initiation		
DifHzFail	ABBIED600_Rev1_SPS_e	Frequency difference is not in range for fast transfer	E	ABBIED600:2014
DifAngFail	ABBIED600_Rev1_SPS_e	Phase angle difference is not in range for fast transfer	E	ABBIED600:2014
HzGraFail	ABBIED600_Rev1_SPS_e	Frequency gradient above limit for 1st phase transfer	E	ABBIED600:2014
StdbyVFail	ABBIED600_Rev1_SPS_e	Stand by feeder voltage below set limit for transfer	E	ABBIED600:2014

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BusVFail	ABBIED600_Rev1_SPS_e	Bus-bar voltage below set limit for fast transfer	E	ABBIED600:2014
BusVResLo	ABBIED600_Rev1_SPS_e	Bus-bar voltage below residual voltage limit	E	ABBIED600:2014
DeCpOp	ABBIED600_Rev1_SPS_e	Decoupling operated	E	ABBIED600:2014
InTrnOn	ABBIED600_Rev1_SPS_e	Transfer On	E	ABBIED600:2014
IniHz	ABBIED600_Rev1_SPS_e	Transfer initiated by under frequency	E	ABBIED600:2014
IniVlo	ABBIED600_Rev1_SPS_e	Transfer initiated by under voltage	E	ABBIED600:2014
IniExt	ABBIED600_Rev1_SPS_e	Transfer	E	ABBIED600:2014

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		initiated by external initiation		
IniTrn12	ABBIED600_Rev1_SPS_e	Transfer initiation from feeder 1 to feeder 2	E	ABBIED600:2014
IniTrn21	ABBIED600_Rev1_SPS_e	Transfer initiation from feeder 2 to feeder 1	E	ABBIED600:2014
DirTrn12	ABBIED600_Rev1_SPS_e	Transfer direction from feeder 1 to feeder 2	E	ABBIED600:2014
DirTrn21	ABBIED600_Rev1_SPS_e	Transfer direction from feeder 2 to feeder 1	E	ABBIED600:2014
LastTrn12	ABBIED600_Rev1_SPS_e	Last valid transfer from	E	ABBIED600:2014

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		feeder 1 to feeder 2		
LastTrn21	ABBIED600_Rev1_SPS_e	Last valid trans-fer from feeder 2 to feeder 1	E	ABBIED600:2014
LodShd	ABBIED600_Rev1_SPS_e	Ope-rate load shed-ding	E	ABBIED600:2014
InhTrn12	ABBIED600_Rev1_SPS_e	Di-sable trans-fer from feeder 1 to feeder 2	E	ABBIED600:2014
InhTrn21	ABBIED600_Rev1_SPS_e	Di-sable trans-fer from feeder 2 to feeder 1	E	ABBIED600:2014
InhFastTrn	ABBIED600_Rev1_SPS_e	Di-sable fast trans-fer	E	ABBIED600:2014
InhFBBMTrn	ABBIED600_Rev1_SPS_e	Di-sable fast break before make	E	ABBIED600:2014

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		trans-fer		
Inh1PhTrn	ABBIED600_Rev1_SPS_e	Di-sable 1st phase trans-fer	E	ABBIED600:2014
InhResVTrn	ABBIED600_Rev1_SPS_e	Di-sable resi-dual trans-fer	E	ABBIED600:2014
InhTmDlTrn	ABBIED600_Rev1_SPS_e	Di-sable time de-layed trans-fer	E	ABBIED600:2014
InhDeCp	ABBIED600_Rev1_SPS_e	Di-sable de-coup-ling	E	ABBIED600:2014
InhTrnRun	ABBIED600_Rev1_SPS_e	Stop run-ning trans-fer	E	ABBIED600:2014
InEna-FastTrn	ABBIED600_Rev1_SPS_e	Enabl e only fast trans-fer	E	ABBIED600:2014
InEnaF-BBMTrn	ABBIED600_Rev1_SPS_e	Enabl e only FBB M	E	ABBIED600:2014
InhCBOp-nTrn	ABBIED600_Rev1_SPS_e	Di-sable CB open trans-fer	E	ABBIED600:2014

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MinVStdby	ABBIED600_Rev8_ASG_SG_i_e	Minimum standby voltage	E	ABBIED600:2014
MinVBus	ABBIED600_Rev8_ASG_SG_i_e	Minimum busbar voltage	E	ABBIED600:2014
ResVLim	ABBIED600_Rev8_ASG_SG_i_e	Residual voltage limit	E	ABBIED600:2014
StrValHz	ABBIED600_Rev8_ASG_SG_i_e	Under frequency start value	E	ABBIED600:2014
StrValV	ABBIED600_Rev8_ASG_SG_i_e	Under voltage start value	E	ABBIED600:2014
StrHzTmms	ABBIED600_Rev2_ING_SG_e	Under frequency initiation delay	E	ABBIED600:2014
StrVTmms	ABBIED600_Rev2_ING_SG_e	Under voltage initiation delay	E	ABBIED600:2014
OpModTrn	ABBIED600_Rev1_ENG_SP_OpModTrn_e	Operation mode for transfer initiation	E	ABBIED600:2014

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LodShdMth	ABBIED600_Rev1_ENG_SP_LodShdMth_e	Load shed-ding met-hod	E	ABBIED600:2014
LodShdVLim	ABBIED600_Rev8_ASG_SG_i_e	Load shed-ding vol-tage limit	E	ABBIED600:2014
LodShdVTmms	ABBIED600_Rev2_ING_SG_e	Vol-tage based load-shed-ding time delay	E	ABBIED600:2014
LodShdTmms	ABBIED600_Rev2_ING_SG_e	Load shed-ding time delay	E	ABBIED600:2014
DifHz	ABBIED600_Rev8_ASG_SP_i_e	Diffe-rence Fre-quenc y	E	IEC 61850-7-4:2007
MaxPh-LdLim	ABBIED600_Rev2_ING_SP_e	Maxi-mum phase lead limit for fast trans-fer	E	ABBIED600:2014
Max-PhLgLim	ABBIED600_Rev2_ING_SP_e	Maxi-mum phase lag li-mit for fast trans-fer	E	ABBIED600:2014

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MaxAng-FBBM	ABBIED600_Rev2_ING_SP_e	Max phase angle allo-wed for fast break before make trans-fer	E	ABBIED600:2014
MaxHzGra	ABBIED600_Rev2_ING_SP_e	Maxi-mum DfDt limit	E	ABBIED600:2014
MaxTrnTmms	ABBIED600_Rev2_ING_SP_e	Maxi-mum trans-fer run time	E	ABBIED600:2014
TrnDlTmms	ABBIED600_Rev2_ING_SP_e	Time de-layed trans-fer time	E	ABBIED600:2014
TrnWtTmms	ABBIED600_Rev2_ING_SP_e	Trans-fer wait time	E	ABBIED600:2014
EnaFastTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enabe fast trans-fer	E	ABBIED600:2014
EnaF-BBMTrn	ABBIED600_Rev2_SPG_SP_e	Enabl e fast break before make trans-fer	E	ABBIED600:2014
Ena1PhTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enabl e 1st phase	E	ABBIED600:2014

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		tran-fer		
EnaRes-VTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable resi-dual vol-tage trans-fer	E	ABBIED600:2014
EnaTmDlTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable time de-layed trans-fer	E	ABBIED600:2014
EnaCBTrn	ABBIED600_Rev1_ENG_SP_EnaTrn_e	Enable trans-fer based on circuit brea-ker ope-ning	E	ABBIED600:2014
EnaManTrn	ABBIED600_Rev2_SPG_SP_e	Enable ma-nual trans-fer	E	ABBIED600:2014
EnaDeCp	ABBIED600_Rev2_SPG_SP_e	Enable cir-cuit brea-ker de-coup-ling	E	ABBIED600:2014
DeCpTmms	ABBIED600_Rev2_ING_SP_e	Cir-cuit brea-ker de-coup-ling delay	E	ABBIED600:2014

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TrnSt	ABBIED600_Rev2_ENS_TrnSt_e	Transfer status	E	ABBIED600:2014
ManTrnTrg	ABBIED600_Rev3_SPC_control_e	Trigger manual transfer	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Reset travel time	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvTmSet	ABBIED600_Rev3_SPC_control_e	Set travel time	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkRs	ABBIED600_Rev3_SPC_control_e	Block reset	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub15_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.1.75 LN: HS1RBRC3 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		

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VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of frequency of busbar voltage		
BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.76 LN: HS2RBRC3 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		
VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of frequency of busbar voltage		

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BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.77 LN: HS3RBRC3 Name: RBRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Re-marks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
TrnModSt	ABBIED600_Rev1_ABB_TrnModSt	Transfer mode		
TrnReas	ABBIED600_Rev1_ABB_TrnReas	Transfer reason		
TrnDir	ABBIED600_Rev1_ABB_TrnDir	Transfer direction		
TrnDur	ABBIED600_Rev7_MV_simple_i	Transfer duration		
VGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of busbar voltage		
HzGraMax	ABBIED600_Rev7_MV_simple_i	Maximum rate of change of frequency of busbar voltage		
BusVClc	ABBIED600_Rev7_MV_simple_i	Busbar voltage at the time of CB close command		
BusHz	ABBIED600_Rev7_MV_simple_i	Busbar frequency at the time of CB close command		

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DifAngClc	ABBIED600_Rev7_MV_simple_i	Busbar and standby feeder phase diff at CB close command		
CBDeCp	ABBIED600_Rev2_SPC_simple	CB decoupling happened during the transfer		status-only
OpShdSt	ABBIED600_Rev1_SPS	Load shedding operate during transfer		

5.1.78 LN: FLO1RFRC1 Name: RFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
FltLoop	ABBIED600_Rev5_ENS_FltLoop_e	Fault loop	E	IEC 61850-7-4:2007
FltDiskm	ABBIED600_Rev7_MV_simple_i_e	Fault distance	E	IEC 61850-7-4:2007
FltPtRis	ABBIED600_Rev7_MV_simple_i_e	Fault point resistance	E	ABBIED600:2014
FltDisQ	ABBIED600_Rev1_INS_e	Fault distance quality	E	ABBIED600:2014
FltR	ABBIED600_Rev7_MV_simple_i_e	Fault loop resistance	E	ABBIED600:2014
FltX	ABBIED600_Rev7_MV_simple_i_e	Fault loop reactance	E	ABBIED600:2014
PhReact	ABBIED600_Rev7_MV_simple_i_e	Fault phase	E	ABBIED600:2014

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		reac-tance		
RatFltALod	ABBIED600_Rev7_MV_simple_i_e	Fault to load current ratio	E	ABBIED600:2014
EqDisLod	ABBIED600_Rev7_MV_simple_i_e	Esti-mated equival ent load dis-tance	E	ABBIED600:2014
PhGnd-Capac	ABBIED600_Rev7_MV_simple_i_e	Esti-mated PE ca-paci-tive reac-tance of the line	E	ABBIED600:2014
AP-reFltPhA	ABBIED600_Rev7_CMV_S_1_e	A Pre Flt Phs A	E	ABBIED600:2014
APreFltPhB	ABBIED600_Rev7_CMV_S_1_e	A Pre Flt Phs B	E	ABBIED600:2014
APreFltPhC	ABBIED600_Rev7_CMV_S_1_e	A Pre Flt Phs C	E	ABBIED600:2014
VPreFltPhA	ABBIED600_Rev7_CMV_S_1_e	V Pre Flt Phs A	E	ABBIED600:2014
VPreFltPhB	ABBIED600_Rev7_CMV_S_1_e	V Pre Flt Phs B	E	ABBIED600:2014
VPreFltPhC	ABBIED600_Rev7_CMV_S_1_e	V Pre Flt Phs C	E	ABBIED600:2014
AFltPhA	ABBIED600_Rev7_CMV_S_1_e	A Flt Phs A	E	ABBIED600:2014
AFltPhB	ABBIED600_Rev7_CMV_S_1_e	A Flt Phs B	E	ABBIED600:2014

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AFltPhC	ABBIED600_Rev7_CMV_S_1_e	A Flt Phs C	E	ABBIED600:2014
VFltPhA	ABBIED600_Rev7_CMV_S_1_e	V Flt Phs A	E	ABBIED600:2014
VFltPhB	ABBIED600_Rev7_CMV_S_1_e	V Flt Phs B	E	ABBIED600:2014
VFltPhC	ABBIED600_Rev7_CMV_S_1_e	V Flt Phs C	E	ABBIED600:2014

5.1.79 LN: RCFD1 Name: RCFD (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelfClr3Ph	ABBIED600_Rev1_SPS	Three phase event		
StrDet	ABBIED600_Rev1_ACT_full	Pick up no trip in each phase		
Rs	ABBIED600_Rev3_SPC_control	Reset		status-only,direct-with-normal-security
EnaAdpStr	ABBIED600_Rev1_SPG_SG	Adaptive threshold enable		
CycMult	ABBIED600_Rev2_ING_SG	Fault detect threshold		
AbsMinLodA	ABBIED600_Rev8_ASG_SG_i	Absolute minimum		

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		loading on feeder		
EnaSelfClrEF	ABBIED600_Rev1_SPG_SG	Enable self clear detection on residual current		
AbsMaxResA	ABBIED600_Rev8_ASG_SG_i	Absolute maximum residual current under normal condition		
SelfClrFlt	ABBIED600_Rev1_ACT_full	Self clear fault detect		
FltCntPhsA	ABBIED600_Rev1_INS	Number of faults in phase A		
FltCntPhsB	ABBIED600_Rev1_INS	Number of faults in phase B		
FltCntPhsC	ABBIED600_Rev1_INS	Number of faults in phase C		
FltCntGnd	ABBIED600_Rev1_INS	Number of		

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		faults detected by ground channel		
AdpStrVal	ABBIED600_Rev3_WYE_5	Adaptive Phase A pickup threshold		
ClcA	ABBIED600_Rev3_WYE_5	Calculated current magnitude		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
PhStr	ABBIED600_Rev8_ASG_SG_i_e	Phase start value	E	IEC 61850-7-4:2007
ResStr	ABBIED600_Rev8_ASG_SG_i_e	Residual start value	E	IEC 61850-7-4:2007
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub9_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SelfClrAlm	ABBIED600_Rev1_SPS	Self clearing fault detection alarm		

5.1.80 LN: RCFD2 Name: RCFD (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelfClr3Ph	ABBIED600_Rev1_SPS	Three phase event		
StrDet	ABBIED600_Rev1_ACT_full	Pick up no trip in each phase		
Rs	ABBIED600_Rev3_SPC_control	Reset		status-only,direct-with-normal-security
EnaAdpStr	ABBIED600_Rev1_SPG_SG	Adaptive threshold enable		
CycMult	ABBIED600_Rev2_ING_SG	Fault detect threshold		
AbsMinLodA	ABBIED600_Rev8_ASG_SG_i	Absolute minimum loading on feeder		
EnaSelfClrEF	ABBIED600_Rev1_SPG_SG	Enable self clear detection on residual current		
AbsMaxResA	ABBIED600_Rev8_ASG_SG_i	Absolute		

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		maximum residual current under normal condition		
SelfClrFlt	ABBIED600_Rev1_ACT_full	Self clear fault detect		
FltCntPhsA	ABBIED600_Rev1_INS	Number of faults in phase A		
FltCntPhsB	ABBIED600_Rev1_INS	Number of faults in phase B		
FltCntPhsC	ABBIED600_Rev1_INS	Number of faults in phase C		
FltCntGnd	ABBIED600_Rev1_INS	Number of faults detected by ground channel		
AdpStrVal	ABBIED600_Rev3_WYE_5	Adaptive Phase A pickup threshold		

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ClcA	ABBIED600_Rev3_WYE_5	Calcu-lated current magni-tude		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
PhStr	ABBIED600_Rev8_ASG_SG_i_e	Phase start value	E	IEC 61850-7-4:2007
ResStr	ABBIED600_Rev8_ASG_SG_i_e	Resi-dual start value	E	IEC 61850-7-4:2007
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub9_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity
SelfClrAlm	ABBIED600_Rev1_SPS	Self clea-ring fault detec-tion alarm		

5.1.81 LN: RCFD3 Name: RCFD (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelfClr3Ph	ABBIED600_Rev1_SPS	Three phase event		
StrDet	ABBIED600_Rev1_ACT_full	Pick up no		

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		trip in each phase		
Rs	ABBIED600_Rev3_SPC_control	Reset		status-only,direct-with-normal-security
EnaAdpStr	ABBIED600_Rev1_SPG_SG	Adaptive threshold enable		
CycMult	ABBIED600_Rev2_ING_SG	Fault detect threshold		
AbsMinLodA	ABBIED600_Rev8_ASG_SG_i	Absolute minimum loading on feeder		
EnaSelfClrEF	ABBIED600_Rev1_SPG_SG	Enable self clear detection on residual current		
AbsMaxResA	ABBIED600_Rev8_ASG_SG_i	Absolute maximum residual current under normal condition		
SelfClrFlt	ABBIED600_Rev1_ACT_full	Self clear fault detect		

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FltCntPhsA	ABBIED600_Rev1_INS	Number of faults in phase A		
FltCntPhsB	ABBIED600_Rev1_INS	Number of faults in phase B		
FltCntPhsC	ABBIED600_Rev1_INS	Number of faults in phase C		
FltCntGnd	ABBIED600_Rev1_INS	Number of faults detected by ground channel		
AdpStrVal	ABBIED600_Rev3_WYE_5	Adaptive Phase A pickup threshold		
ClcA	ABBIED600_Rev3_WYE_5	Calculated current magnitude		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
PhStr	ABBIED600_Rev8_ASG_SG_i_e	Phase start value	E	IEC 61850-7-4:2007

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ResStr	ABBIED600_Rev8_ASG_SG_i_e	Residual start value	E	IEC 61850-7-4:2007
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub9_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SelfClrAlm	ABBIED600_Rev1_SPS	Self clearing fault detection alarm		

5.1.82 LN: VMSWI1 Name: MSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelStSrc1	ABBIED600_Rev1_SPS	Source 1 selected		
SelStSrc2	ABBIED600_Rev1_SPS	Source 2 selected		
SelStSrc3	ABBIED600_Rev1_SPS	Source 3 selected		
SelStSrc4	ABBIED600_Rev1_SPS	Source 4 selected		
InSrcSwSt1	ABBIED600_Rev1_SPS	Switch logic input 1		
InSrcSwSt2	ABBIED600_Rev1_SPS	Switch logic input 2		

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InSrcSwSt3	ABBIED600_Rev1_SPS	Switch logic input 3		
SrcUsed	ABBIED600_Rev3_ENS_BusSwPos_e	Switch position	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
AlmRes	ABBIED600_Rev1_SPS_e	Residual alarm	E	ABBIED600:2014
WrnRes	ABBIED600_Rev1_SPS_e	Residual warning	E	ABBIED600:2014

5.1.83 LN: VMSWI2 Name: MSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelStSrc1	ABBIED600_Rev1_SPS	Source 1 selected		
SelStSrc2	ABBIED600_Rev1_SPS	Source 2 selected		
SelStSrc3	ABBIED600_Rev1_SPS	Source 3 selected		
SelStSrc4	ABBIED600_Rev1_SPS	Source 4 selected		
InSrcSwSt1	ABBIED600_Rev1_SPS	Switch logic input 1		

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InSrcSwSt2	ABBIED600_Rev1_SPS	Switch logic input 2		
InSrcSwSt3	ABBIED600_Rev1_SPS	Switch logic input 3		
SrcUsed	ABBIED600_Rev3_ENS_BusSwPos_e	Switch position	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
AlmRes	ABBIED600_Rev1_SPS_e	Residual alarm	E	ABBIED600:2014
WrnRes	ABBIED600_Rev1_SPS_e	Residual warning	E	ABBIED600:2014

5.1.84 LN: VMSWI3 Name: MSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelStSrc1	ABBIED600_Rev1_SPS	Source 1 selected		
SelStSrc2	ABBIED600_Rev1_SPS	Source 2 selected		
SelStSrc3	ABBIED600_Rev1_SPS	Source 3 selected		
SelStSrc4	ABBIED600_Rev1_SPS	Source 4 selected		

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InSrcSwSt1	ABBIED600_Rev1_SPS	Switch logic input 1		
InSrcSwSt2	ABBIED600_Rev1_SPS	Switch logic input 2		
InSrcSwSt3	ABBIED600_Rev1_SPS	Switch logic input 3		
SrcUsed	ABBIED600_Rev3_ENS_BusSwPos_e	Switch position	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
AlmRes	ABBIED600_Rev1_SPS_e	Residual alarm	E	ABBIED600:2014
WrnRes	ABBIED600_Rev1_SPS_e	Residual warning	E	ABBIED600:2014

5.1.85 LN: CMSWI1 Name: MSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelStSrc1	ABBIED600_Rev1_SPS	Source 1 selected		
SelStSrc2	ABBIED600_Rev1_SPS	Source 2 selected		
SelStSrc3	ABBIED600_Rev1_SPS	Source 3 selected		

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SelStSrc4	ABBIED600_Rev1_SPS	Source 4 selected		
InSrcSwSt1	ABBIED600_Rev1_SPS	Switch logic input 1		
InSrcSwSt2	ABBIED600_Rev1_SPS	Switch logic input 2		
InSrcSwSt3	ABBIED600_Rev1_SPS	Switch logic input 3		
SrcUsed	ABBIED600_Rev3_ENS_BusSwPos_e	Switch position	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
AlmRes	ABBIED600_Rev1_SPS_e	Residual alarm	E	ABBIED600:2014
WrnRes	ABBIED600_Rev1_SPS_e	Residual warning	E	ABBIED600:2014

5.1.86 LN: CMSWI2 Name: MSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelStSrc1	ABBIED600_Rev1_SPS	Source 1 selected		
SelStSrc2	ABBIED600_Rev1_SPS	Source 2 selected		

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SelStSrc3	ABBIED600_Rev1_SPS	Source 3 selected		
SelStSrc4	ABBIED600_Rev1_SPS	Source 4 selected		
InSrcSwSt1	ABBIED600_Rev1_SPS	Switch logic input 1		
InSrcSwSt2	ABBIED600_Rev1_SPS	Switch logic input 2		
InSrcSwSt3	ABBIED600_Rev1_SPS	Switch logic input 3		
SrcUsed	ABBIED600_Rev3_ENS_BusSwPos_e	Switch position	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
AlmRes	ABBIED600_Rev1_SPS_e	Residual alarm	E	ABBIED600:2014
WrnRes	ABBIED600_Rev1_SPS_e	Residual warning	E	ABBIED600:2014

5.1.87 LN: CMSWI3 Name: MSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
SelStSrc1	ABBIED600_Rev1_SPS	Source 1 selected		

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SelStSrc2	ABBIED600_Rev1_SPS	Source 2 selected		
SelStSrc3	ABBIED600_Rev1_SPS	Source 3 selected		
SelStSrc4	ABBIED600_Rev1_SPS	Source 4 selected		
InSrcSwSt1	ABBIED600_Rev1_SPS	Switch logic input 1		
InSrcSwSt2	ABBIED600_Rev1_SPS	Switch logic input 2		
InSrcSwSt3	ABBIED600_Rev1_SPS	Switch logic input 3		
SrcUsed	ABBIED600_Rev3_ENS_BusSwPos_e	Switch position	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS	Alarm		
Wrn	ABBIED600_Rev1_SPS	Warning		
AlmRes	ABBIED600_Rev1_SPS_e	Residual alarm	E	ABBIED600:2014
WrnRes	ABBIED600_Rev1_SPS_e	Residual warning	E	ABBIED600:2014

5.1.88 LN: CMSUM1 Name: MSUM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beh		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		

5.1.89 LN: MSVPR1 Name: SVPR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1	Parameter to select phase or phase-to-phase voltages		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1	Number of phases required for operate		

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		activation		
PhSpvn	ABBIED600_Rev3_ENG_SP_PhSv_Sub2	Phase supervision		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub6	Test control for outputs		status-only,direct-with-normal-security
VLo	ABBIED600_Rev1_SPS	Low remanent voltage		

5.1.90 LN: MSVPR2 Name: SVPR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-

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				7-4:2007
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1	Parameter to select phase or phase-to-phase voltages		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1	Number of phases required for operate activation		
PhSpvn	ABBIED600_Rev3_ENG_SP_PhSv_Sub2	Phase supervision		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub6	Test control for outputs		status-only,direct-with-normal-security
VLo	ABBIED600_Rev1_SPS	Low remanent voltage		

5.1.91 LN: MSVPR3 Name: SVPR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Start value	E	IEC 61850-7-4:2007
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1	Parameter to select phase or phase-to-phase voltages		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1	Number of phases required for operate activation		
PhSpvn	ABBIED600_Rev3_ENG_SP_PhSv_Sub2	Phase supervision		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub6	Test control for outputs		status-only,direct-with-normal-security

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VLo	ABBIED600_Rev1_SPS	Low remanent voltage		

5.1.92 LN: MDSOPT1 Name: SOPT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	IEC 61850-7-4:2007
OpTmRs	ABBIED600_Rev3_SPC_control	MDSOPT1 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	IEC 61850-7-4:2007
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	IEC 61850-7-4:2007
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		

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OpWrnTmh	ABBIED600_Rev2_ING_SP_1_e	Warning value for operation time supervision	E	IEC 61850-7-4:2007
OpAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm value for operation time supervision	E	IEC 61850-7-4:2007
IniOpTmh	ABBIED600_Rev2_ING_SP_1	Initial value for operation time supervision		
OpActTmh	ABBIED600_Rev2_ING_SP_1	Time of day when alarm and warning will occur		
OpActMod	ABBIED600_Rev3_ENG_SP_TmrAlmMod	Operating time mode for warning and alarm		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub13	Test control for outputs		status-only,direct-with-normal-security

5.1.93 LN: MDSOPT2 Name: SOPT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all	E	IEC 61850-

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		binary outputs		7-4:2007
OpTmh	ABBIED600_Rev1_INS_e	OPR_TIME	E	IEC 61850-7-4:2007
OpTmRs	ABBIED600_Rev3_SPC_control	MDSOPT2 operation t		status-only,direct-with-normal-security
OpTmWrn	ABBIED600_Rev1_SPS_e	Operation time warning	E	IEC 61850-7-4:2007
OpTmAlm	ABBIED600_Rev1_SPS_e	Operation time alarm	E	IEC 61850-7-4:2007
TmOp	ABBIED600_Rev1_SPS	Indicates that operation time is running		
OpWrnTmh	ABBIED600_Rev2_ING_SP_1_e	Warning value for operation time supervision	E	IEC 61850-7-4:2007
OpAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm value for operation time supervision	E	IEC 61850-7-4:2007
IniOpTmh	ABBIED600_Rev2_ING_SP_1	Initial value for operation time supervision		
OpActTmh	ABBIED600_Rev2_ING_SP_1	Time of day when alarm and warning will occur		
OpActMod	ABBIED600_Rev3_ENG_SP_TmrAlmMod	Operating time mode		

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		for warning and alarm		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub13	Test control for outputs		status-only,direct-with-normal-security

5.1.94 LN: CTSRCTF1 Name: RCTF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block signal for all binary outputs	E	IEC 61850-7-4:2007
Alm	ABBIED600_Rev1_SPS_e	Alarm output	E	IEC 61850-7-4:2007
Op	ABBIED600_Rev1_ACT_simple_e	CT secondary failure	E	IEC 61850-7-4:2007
OpGrp1	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 1		
OpGrp2	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 2		
OpGrp3	ABBIED600_Rev1_ACT_simple	CT secondary failure in group 3		

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BlkInSt	ABBIED600_Rev1_ACT_simple	Function blocked internally		
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub11	Test control for outputs		status-only,direct-with-normal-security
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operate current	E	IEC 61850-7-4:2007
MaxOpA	ABBIED600_Rev8_ASG_SP_i	Maximum phase current		
MaxNgSeqA	ABBIED600_Rev8_ASG_SP_i	Maximum I2 current in healthy sets		

5.1.95 LN: LBRDOB1 Name: RDOB (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple_e	Block	E	IEC 61850-7-4:2007
LodDsrFwd	ABBIED600_Rev1_SPS_simple	Load discrimination active in forward direction		
LodDsrRv	ABBIED600_Rev1_SPS_simple	Load discrimination		

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		active in reverse direction		
RisFwdLod	ABBIED600_Rev8_ASG_SG_i	Resistive forward reach for load discrimination		
RisRvLod	ABBIED600_Rev8_ASG_SG_i	Resistive reverse reach for load discrimination		
AngLodMax	ABBIED600_Rev8_ASG_SG_i	Maximum angle for load area		
AngLodMin	ABBIED600_Rev8_ASG_SG_i	Minimum angle for load area		
MinPsSeqV	ABBIED600_Rev8_ASG_SP_i	Minimum positive sequence voltage		
MaxNgSeqA	ABBIED600_Rev8_ASG_SP_i	Maximum negative sequence current		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional mode	E	IEC 61850-7-4:2007
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub7	Test control for outputs		status-only,direct-with-

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				normal-security

5.1.96 LN: SGLINF1 Name: LINF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014

5.1.97 LN: SFLINF1 Name: LINF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014

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5.1.98 LN: SELINF1 Name: LINF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014

5.1.99 LN: SDLINF1 Name: LINF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014

5.1.100 LN: SCLINF1 Name: LINF (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014

5.1.101 LN: SBLINF1 Name: LINF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014

5.1.102 LN: SA1LINF1 Name: LINF (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014

5.1.103 LN: SA2LINF1 Name: LINF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CardNam	ABBIED600_Rev8_DPL_eeprom_2_ED2_e	Card information	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014

5.1.104 LN: I3CLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di

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				rect-with-nor-mal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Over-flow		
CommPort	ABBIED600_Rev5_ENG_SP_CommPort_Sub2_ED2	Serial port		
UntAddr	ABBIED600_Rev2_ING_SP_1	Address		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Start delay		
EndFrDl	ABBIED600_Rev2_ING_SP_1	End de-lay		
Cla2Tms	ABBIED600_Rev2_ING_SP_1	Class 2 interval		
Cla2Fr1	ABBIED600_Rev3_ENG_SP_I3CCls2Frame	Class2 Frame 1 in use		
Cla2Fr2	ABBIED600_Rev3_ENG_SP_I3CCls2Frame	Class2 Frame 2 in use		
Cla2Fr3	ABBIED600_Rev3_ENG_SP_I3CCls2Frame	Class2 Frame 3 in use		
Cla2Fr4	ABBIED600_Rev3_ENG_SP_I3CCls2Frame	Class2 Frame 4 in use		
UsrFcnTyp	ABBIED600_Rev2_ING_SP_1	Func-tion Type for User Class2 Frame		
UsrInfNum	ABBIED600_Rev2_ING_SP_1	Infor-mation Number		

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		for User Class2 Frame		
Cla1OvInd	ABBIED600_Rev3_ENG_SP_I3COvInd	Class1 Buffer Over-flow In-dication		
Cla1FcnTyp	ABBIED600_Rev2_ING_SP_1	Func-tion Type for Class1 Buffer Over-flow In-dication		
Cla1InfNum	ABBIED600_Rev2_ING_SP_1	Infor-mation Number for Class1 Buffer Over-flow In-dication		
Cla1OvBkOf	ABBIED600_Rev2_ING_SP_1	Backoff Range for Class1 Buffer Over-flow In-dication		
GIOpt	ABBIED600_Rev3_ENG_SP_I3CGIOpt	Opti-mize GI traffic		
DevFcnTyp	ABBIED600_Rev2_ING_SP_1	Device Func-tion Type		
FrRxCnt	ABBIED600_Rev1_INS	Re-ceived frames		

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ChkErrCnt	ABBIED600_Rev1_INS	Checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
Cla1Prio	ABBIED600_Rev3_ENG_SP_I3CC1Prio	Class 1 Priority		
RcdEnaMod	ABBIED600_Rev2_SPG_SP	Disturbance Recorder Enabled		
BlkMon	ABBIED600_Rev3_ENG_SP_I3CBlkMon	Blocking of Monitoring Direction		
EnCntFrz	ABBIED600_Rev3_SPC_control	Energy Counter Freeze		status-only,direct-with-normal-security
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		

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PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.105 LN: I3CLPRT2 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev5_ENG_SP_CommPort_Sub2_ED2	Serial port		
UntAddr	ABBIED600_Rev2_ING_SP_1	Address		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Start delay		
EndFrDl	ABBIED600_Rev2_ING_SP_1	End delay		
Cla2Tms	ABBIED600_Rev2_ING_SP_1	Class 2 interval		
Cla2Fr1	ABBIED600_Rev3_ENG_SP_I3CCls2Frame	Class2 Frame 1 in use		
Cla2Fr2	ABBIED600_Rev3_ENG_SP_I3CCls2Frame	Class2 Frame 2 in use		

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Cla2Fr3	ABBIED600_Rev3_ENG_SP_I3CCls2Frame	Class2 Frame 3 in use		
Cla2Fr4	ABBIED600_Rev3_ENG_SP_I3CCls2Frame	Class2 Frame 4 in use		
UsrFcnTyp	ABBIED600_Rev2_ING_SP_1	Function Type for User Class2 Frame		
UsrInfNum	ABBIED600_Rev2_ING_SP_1	Information Number for User Class2 Frame		
Cla1OvInd	ABBIED600_Rev3_ENG_SP_I3COvInd	Class1 Buffer Overflow Indication		
Cla1FcnTyp	ABBIED600_Rev2_ING_SP_1	Function Type for Class1 Buffer Overflow Indication		
Cla1InfNum	ABBIED600_Rev2_ING_SP_1	Information Number for Class1 Buffer Overflow Indication		
Cla1OvBkOf	ABBIED600_Rev2_ING_SP_1	Backoff Range for Class1		

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		Buffer Over-flow In-dication		
GIOpt	ABBIED600_Rev3_ENG_SP_I3CGIOpt	Opti-mize GI traffic		
DevFcnTyp	ABBIED600_Rev2_ING_SP_1	Device Func-tion Type		
FrRxCnt	ABBIED600_Rev1_INS	Re-ceived frames		
ChkErrCnt	ABBIED600_Rev1_INS	Check-sum er-rors		
FrTxCnt	ABBIED600_Rev1_INS	Trans-mitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850 -7-4:200 7
Cla1Prio	ABBIED600_Rev3_ENG_SP_I3CC1Prio	Class 1 Priority		
RcdEnaMo d	ABBIED600_Rev2_SPG_SP	Distur-bance Recor-der Enabled		
BlkMon	ABBIED600_Rev3_ENG_SP_I3CBlkMon	Blockin g of Monito-ring Di-rection		
EnCntFrz	ABBIED600_Rev3_SPC_control	Energy Counter Freeze		status-only,di rect-with-nor-mal-secu-rity

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CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.106 LN: DNPLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommPort	ABBIED600_Rev5_ENG_SP_CommPort_Sub1_ED2	Port selection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev2_ING_SP_1	Master address		

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MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
SynIntvTmm	ABBIED600_Rev2_ING_SP_1	Need time interval		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CROBSelTms	ABBIED600_Rev2_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev3_ENG_SP_DataLinkConfirm	Data link confirm		
LnkCnfTmms	ABBIED600_Rev2_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev2_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev2_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev2_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev4_ENG_SP_Enable	App layer confirm		
AplCnfTmms	ABBIED600_Rev2_ING_SP_1	App/UR confirm TO		
AplLayFrg	ABBIED600_Rev2_ING_SP_1	App layer fragment		
URMod	ABBIED600_Rev4_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev2_ING_SP_1	UR retries		

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URReTmms	ABBIED600_Rev2_ING_SP_1	UR retry delay		
UROfTm	ABBIED600_Rev7_ING_SP_Unit	UR off-fline in-terval		
URCla1	ABBIED600_Rev2_ING_SP_1	UR Class 1 Min events		
UR-Cla1Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev2_ING_SP_1	UR Class 2 Min events		
UR-Cla2Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev2_ING_SP_1	UR Class 3 Min events		
UR-Cla3Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev4_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev4_ENG_SP_Enable	Legacy master SBO		
DftVa1	ABBIED600_Rev2_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	ABBIED600_Rev2_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	ABBIED600_Rev2_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	ABBIED600_Rev2_ENG_SP_DNPDefVari04	Default Var Obj 04		

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DftVa20	ABBIED600_Rev2_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	ABBIED600_Rev3_ENG_SP_DNPDefVari21	Default Var Obj 21		
DftVa22	ABBIED600_Rev2_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	ABBIED600_Rev2_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	ABBIED600_Rev2_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	ABBIED600_Rev2_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	ABBIED600_Rev2_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	ABBIED600_Rev2_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev4_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev4_ENG_SP_Enable	Self Address Support		
ChLivTms	ABBIED600_Rev2_ING_SP_1_e	Link keep-alive TO	E	IEC 61850-7-4:2007
TCPAuth	ABBIED600_Rev2_ENG_SP_TCPAuth	Client control autho-rity		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-

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				4:2007
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Over-flow		
IntnOvCnt	ABBIED600_Rev1_INS	Internal Over-flow Counter		
FrRxCnt	ABBIED600_Rev1_INS	Re-ceived frames		
FrTxCnt	ABBIED600_Rev1_INS	Trans-mitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link er-rors		
PhyErrCnt	ABBIED600_Rev1_INS	Physi-cal er-rors		
TranErrCnt	ABBIED600_Rev1_INS	Transpo rt errors		
MapErrCnt	ABBIED600_Rev1_INS	Map-ping er-rors		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diag-nostic coun-ters re-set		status-only,direct-with-nor-mal-secu-rity
CommMod 1	ABBIED600_Rev2_ENG_SP_CommMod_Sub 1	Net-work 1 commu-nication mode		
CommMod 2	ABBIED600_Rev2_ENG_SP_CommMod_Sub 1	Net-work 2		

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		communication mode		
AnInEvtMod	ABBIED600_Rev2_ENG_SP_DNPAnInEvtMod_Sub1	Analog Input Event Mode		
UDPPortRx	ABBIED600_Rev2_ING_SP_1	UDP Rx port		
UDPPortTxIni	ABBIED600_Rev2_ING_SP_1	UDP Tx port Ini		
UDPPortTx	ABBIED600_Rev2_ING_SP_1	UDP Tx port		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.107 LN: SDNPLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
AggrMod	ABBIED600_Rev4_ENG_SP_Enable	Aggressive		

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		mode enable		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply ti-meout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expec-ted Ses-sion key change inter-val		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expec-ted ses-sion key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maxi-mum session key status count		
UnEx-pecMsg	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for unex-pected messa-ges		
AuthFail-Lev	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for autho-riza-tion failures		
AuthnFail-Lev	ABBIED600_Rev2_ING_SP_1	Secu-rity		

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		statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages received		

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RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful		

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		authen-ticati-ons		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for session key chan-ges		
SesKeyFail	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for failed session key chan-ges		
Up-dKeyLev	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for update key chan-ges		
UpdKey-Fail	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for failed update key chan-ges		
MaxAuthnF ail	ABBIED600_Rev2_ING_SP_1	Maxi-mum		

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		authentication failures threshold		
MaxRplTmSet	ABBIED600_Rev2_ING_SP_1	Maximum reply timeouts threshold		
MaxAuthnKey	ABBIED600_Rev2_ING_SP_1	Maximum authentication rekeys threshold		
MaxTxErrMsg	ABBIED600_Rev2_ING_SP_1	Maximum error messages sent threshold		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		

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AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total		

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		messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for		

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		successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		

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EvCObj122	ENG_SP_SDNP_EvClassObj122	Event Class for Obj 122		
DftVa122	ABBIED600_Rev2_ENG_SP_SDNP_DefVari122	Default Var Obj 122		
ClrUsrLst	ABBIED600_Rev3_SPC_userlist_e	Clear DNP Secure authentication User List	E	REx615:2014, status-only,direct-with-normal-security

5.1.108 LN: DNPLPRT2 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommPort	ABBIED600_Rev5_ENG_SP_CommPort_Sub1_ED2	Port selection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev2_ING_SP_1	Master address		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
SynIntvTmm	ABBIED600_Rev2_ING_SP_1	Need time interval		

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TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CROB-SelTms	ABBIED600_Rev2_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev3_ENG_SP_DataLinkConfirm	Data link confirm		
LnkCnfTmms	ABBIED600_Rev2_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev2_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev2_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev2_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev4_ENG_SP_Enable	App layer confirm		
AplCnfTmms	ABBIED600_Rev2_ING_SP_1	App/UR confirm TO		
AplLayFrg	ABBIED600_Rev2_ING_SP_1	App layer fragment		
URMod	ABBIED600_Rev4_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev2_ING_SP_1	UR retries		
URReTmms	ABBIED600_Rev2_ING_SP_1	UR retry delay		
UROfTm	ABBIED600_Rev7_ING_SP_Unit	UR offline interval		

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URCla1	ABBIED600_Rev2_ING_SP_1	UR Class 1 Min events		
UR-Cla1Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev2_ING_SP_1	UR Class 2 Min events		
UR-Cla2Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev2_ING_SP_1	UR Class 3 Min events		
UR-Cla3Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev4_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev4_ENG_SP_Enable	Legacy master SBO		
DftVa1	ABBIED600_Rev2_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	ABBIED600_Rev2_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	ABBIED600_Rev2_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	ABBIED600_Rev2_ENG_SP_DNPDefVari04	Default Var Obj 04		
DftVa20	ABBIED600_Rev2_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	ABBIED600_Rev3_ENG_SP_DNPDefVari21	Default Var Obj 21		

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DftVa22	ABBIED600_Rev2_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	ABBIED600_Rev2_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	ABBIED600_Rev2_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	ABBIED600_Rev2_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	ABBIED600_Rev2_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	ABBIED600_Rev2_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev4_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev4_ENG_SP_Enable	Self Address Support		
ChLivTms	ABBIED600_Rev2_ING_SP_1_e	Link keep-alive TO	E	IEC 61850-7-4:2007
TCPAuth	ABBIED600_Rev2_ENG_SP_TCPAuth	Client control autho-rity		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
FrRxCnt	ABBIED600_Rev1_INS	Re-ceived frames		

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FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
AnInEvtMod	ABBIED600_Rev2_ENG_SP_DNPAnInEvtMod_Sub1	Analog Input Event Mode		
UDPPortRx	ABBIED600_Rev2_ING_SP_1	UDP Rx port		
UDPPortTxIni	ABBIED600_Rev2_ING_SP_1	UDP Tx port Ini		
UDPPortTx	ABBIED600_Rev2_ING_SP_1	UDP Tx port		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please,		

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		refer to the protocol manual.		

5.1.109 LN: SDNPLPRT2 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beh		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
AggrMod	ABBIED600_Rev4_ENG_SP_Enable	Aggressive mode enable		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		

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UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to		

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		authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics		

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		threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for session key changes		
SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		

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UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
MaxAuthnFail	ABBIED600_Rev2_ING_SP_1	Maximum authentication failures threshold		
MaxRplTmSet	ABBIED600_Rev2_ING_SP_1	Maximum reply timeouts threshold		
MaxAuthnKey	ABBIED600_Rev2_ING_SP_1	Maximum authentication rekeys threshold		
MaxTxErrMsg	ABBIED600_Rev2_ING_SP_1	Maximum error messages		

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		sent threshold		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for		

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		rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security		

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		statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		

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UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		
EvCObj122	ENG_SP_SDNP_EvClassObj122	Event Class for Obj 122		
DftVa122	ABBIED600_Rev2_ENG_SP_SDNP_DefVari122	Default Var Obj 122		
ClrUsrLst	ABBIED600_Rev3_SPC_userlist_e	Clear DNP Secure authentication User List	E	REx615:2014, status-only,direct-with-normal-security

5.1.110 LN: DNPLPRT3 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-

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				security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommPort	ABBIED600_Rev5_ENG_SP_CommPort_Sub1_ED2	Port selection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev2_ING_SP_1	Master address		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
SynIntvTmm	ABBIED600_Rev2_ING_SP_1	Need time interval		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CROB-SelTms	ABBIED600_Rev2_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev3_ENG_SP_DataLinkConfirm	Data link confirm		
LnkCnfTmms	ABBIED600_Rev2_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev2_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev2_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev2_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev4_ENG_SP_Enable	App layer confirm		

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Ap-lCnfTmms	ABBIED600_Rev2_ING_SP_1	App/UR con-firm TO		
AplLayFrg	ABBIED600_Rev2_ING_SP_1	App layer frag-ment		
URMod	ABBIED600_Rev4_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev2_ING_SP_1	UR ret-ries		
URReTmms	ABBIED600_Rev2_ING_SP_1	UR retry delay		
UROfTm	ABBIED600_Rev7_ING_SP_Unit	UR of-fline in-terval		
URCla1	ABBIED600_Rev2_ING_SP_1	UR Class 1 Min events		
UR-Cla1Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev2_ING_SP_1	UR Class 2 Min events		
UR-Cla2Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev2_ING_SP_1	UR Class 3 Min events		
UR-Cla3Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev4_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev4_ENG_SP_Enable	Legacy master SBO		

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DftVa1	ABBIED600_Rev2_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	ABBIED600_Rev2_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	ABBIED600_Rev2_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	ABBIED600_Rev2_ENG_SP_DNPDefVari04	Default Var Obj 04		
DftVa20	ABBIED600_Rev2_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	ABBIED600_Rev3_ENG_SP_DNPDefVari21	Default Var Obj 21		
DftVa22	ABBIED600_Rev2_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	ABBIED600_Rev2_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	ABBIED600_Rev2_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	ABBIED600_Rev2_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	ABBIED600_Rev2_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	ABBIED600_Rev2_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev4_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev4_ENG_SP_Enable	Self Address Support		
ChLivTms	ABBIED600_Rev2_ING_SP_1_e	Link keep-	E	IEC 61850

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		alive TO		-7-4:2007
TCPAuth	ABBIED600_Rev2_ENG_SP_TCPAuth	Client control authority		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
AnInEvtMod	ABBIED600_Rev2_ENG_SP_DNPAnInEvtMod_Sub1	Analog Input Event Mode		

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UDPPortRx	ABBIED600_Rev2_ING_SP_1	UDP Rx port		
UDPPortTx Ini	ABBIED600_Rev2_ING_SP_1	UDP Tx port Ini		
UDPPortTx	ABBIED600_Rev2_ING_SP_1	UDP Tx port		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.111 LN: SDNPLPRT3 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
AggrMod	ABBIED600_Rev4_ENG_SP_Enable	Aggressive mode enable		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected		

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		Session key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		
UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authentication failures		

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RplTmLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical		

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		messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for		

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		session key changes		
SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
MaxAuthnFail	ABBIED600_Rev2_ING_SP_1	Maximum authentication failures threshold		
MaxRplTmSet	ABBIED600_Rev2_ING_SP_1	Maximum reply		

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		ti-meouts thresho ld		
MaxAuthn Key	ABBIED600_Rev2_ING_SP_1	Maxi-mum authen-tication rekeys thresho ld		
Max-TxErrMsg	ABBIED600_Rev2_ING_SP_1	Maxi-mum error messa-ges sent thresho ld		
UnEx-pecCnt	ABBIED600_Rev1_INS	Secu-rity statis-tics counter for unex-pected messa-ges		
Auth-FailCnt	ABBIED600_Rev1_INS	Secu-rity statis-tics counter for autho-riza-tion failures		
AuthnFailC nt	ABBIED600_Rev1_INS	Secu-rity statis-tics counter for		

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		authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics		

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		counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security		

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		statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		
EvCObj122	ENG_SP_SDNP_EvClassObj122	Event Class for Obj 122		
DftVa122	ABBIED600_Rev2_ENG_SP_SDNP_DefVari122	Default Var Obj 122		

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ClrUsrLst	ABBIED600_Rev3_SPC_userlist_e	Clear DNP Secure authen-tication User List	E	REx615:2014, status-only,di-rect-with-nor-mal-security

5.1.112 LN: DNPLPRT4 Name: LPRT (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Re-marks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-nor-mal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommPort	ABBIED600_Rev5_ENG_SP_CommPort_Sub1_ED2	Port se-lection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev2_ING_SP_1	Master address		
MapSel	ABBIED600_Rev2_ING_SP_1	Map-ping se-lection		
SynIntvTmm	ABBIED600_Rev2_ING_SP_1	Need time in-terval		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CROB-SelTms	ABBIED600_Rev2_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev3_ENG_SP_DataLinkConfirm	Data link confirm		

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LnkCnfTmms	ABBIED600_Rev2_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev2_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev2_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev2_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev4_ENG_SP_Enable	App layer confirm		
AplCnfTmms	ABBIED600_Rev2_ING_SP_1	App/UR confirm TO		
AplLayFrg	ABBIED600_Rev2_ING_SP_1	App layer fragment		
URMod	ABBIED600_Rev4_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev2_ING_SP_1	UR retries		
URReTmms	ABBIED600_Rev2_ING_SP_1	UR retry delay		
UROfTm	ABBIED600_Rev7_ING_SP_Unit	UR offline interval		
URCla1	ABBIED600_Rev2_ING_SP_1	UR Class 1 Min events		
URCla1Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev2_ING_SP_1	UR Class 2		

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		Min events		
UR-Cla2Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev2_ING_SP_1	UR Class 3 Min events		
UR-Cla3Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 3 TO		
URLgcyMod	ABBIED600_Rev4_ENG_SP_Enable	Legacy master UR		
SBOLgcyMod	ABBIED600_Rev4_ENG_SP_Enable	Legacy master SBO		
DftVa1	ABBIED600_Rev2_ENG_SP_DNPDefVari01	Default Var Obj 01		
DftVa2	ABBIED600_Rev2_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	ABBIED600_Rev2_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	ABBIED600_Rev2_ENG_SP_DNPDefVari04	Default Var Obj 04		
DftVa20	ABBIED600_Rev2_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	ABBIED600_Rev3_ENG_SP_DNPDefVari21	Default Var Obj 21		
DftVa22	ABBIED600_Rev2_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	ABBIED600_Rev2_ENG_SP_DNPDefVari23	Default Var Obj 23		

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DftVa30	ABBIED600_Rev2_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	ABBIED600_Rev2_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	ABBIED600_Rev2_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	ABBIED600_Rev2_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev4_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev4_ENG_SP_Enable	Self Address Support		
ChLivTms	ABBIED600_Rev2_ING_SP_1_e	Link keep-alive TO	E	IEC 61850-7-4:2007
TCPAuth	ABBIED600_Rev2_ENG_SP_TCPAuth	Client control autho-rity		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
FrRxCnt	ABBIED600_Rev1_INS	Re-ceived frames		
FrTxCnt	ABBIED600_Rev1_INS	Trans-mitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link er-rors		
PhyErrCnt	ABBIED600_Rev1_INS	Physi-cal er-rors		

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TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
AnInEvtMod	ABBIED600_Rev2_ENG_SP_DNPAnInEvtMod_Sub1	Analog Input Event Mode		
UDPPortRx	ABBIED600_Rev2_ING_SP_1	UDP Rx port		
UDPPortTxIni	ABBIED600_Rev2_ING_SP_1	UDP Tx port Ini		
UDPPortTx	ABBIED600_Rev2_ING_SP_1	UDP Tx port		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.113 LN: SDNPLPRT4 Name: LPRT (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
AggrMod	ABBIED600_Rev4_ENG_SP_Enable	Aggressive mode enable		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		
UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for		

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		unex-pected messa-ges		
AuthFail-Lev	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for autho-riza-tion failures		
AuthnFail-Lev	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for authen-tication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for reply ti-meouts		
RekeyFail-Lev	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics thresho ld for rekeys due to authen-tication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Secu-rity statis-tics		

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		threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security		

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		statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for session key changes		
SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key		

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		changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
MaxAuthnFail	ABBIED600_Rev2_ING_SP_1	Maximum authentication failures threshold		
MaxRplTmSet	ABBIED600_Rev2_ING_SP_1	Maximum reply timeouts threshold		
MaxAuthnKey	ABBIED600_Rev2_ING_SP_1	Maximum authentication rekeys threshold		
MaxTxErrMsg	ABBIED600_Rev2_ING_SP_1	Maximum error messages sent threshold		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter		

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		for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security		

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		statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		

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RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key		

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		changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		
EvCObj122	ENG_SP_SDNP_EvClassObj122	Event Class for Obj 122		
DftVa122	ABBIED600_Rev2_ENG_SP_SDNP_DefVari122	Default Var Obj 122		
ClrUsrLst	ABBIED600_Rev3_SPC_userlist_e	Clear DNP Secure authentication User List	E	REx615:2014, status-only,direct-with-normal-security

5.1.114 LN: DNPLPRT5 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		

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CommPort	ABBIED600_Rev5_ENG_SP_CommPort_Sub1_ED2	Port selection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Unit address		
MstrAddr	ABBIED600_Rev2_ING_SP_1	Master address		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
SynIntvTmm	ABBIED600_Rev2_ING_SP_1	Need time interval		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CROBSelTms	ABBIED600_Rev2_ING_SP_1	CROB select timeout		
LnkCnf	ABBIED600_Rev3_ENG_SP_DataLinkConfirm	Data link confirm		
LnkCnfTmms	ABBIED600_Rev2_ING_SP_1	Data link confirm TO		
LnkReLim	ABBIED600_Rev2_ING_SP_1	Data link retries		
RxTxDlTmms	ABBIED600_Rev2_ING_SP_1	Data link Rx to Tx delay		
CharDl	ABBIED600_Rev2_ING_SP_1	Data link inter char delay		
AplLayCnf	ABBIED600_Rev4_ENG_SP_Enable	App layer confirm		
AplCnfTmms	ABBIED600_Rev2_ING_SP_1	App/UR confirm TO		
AplLayFrg	ABBIED600_Rev2_ING_SP_1	App layer		

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		frag-ment		
URMod	ABBIED600_Rev4_ENG_SP_Enable	UR mode		
URRe	ABBIED600_Rev2_ING_SP_1	UR ret-ries		
URReTmms	ABBIED600_Rev2_ING_SP_1	UR retry delay		
UROfTm	ABBIED600_Rev7_ING_SP_Unit	UR of-fline in-terval		
URCla1	ABBIED600_Rev2_ING_SP_1	UR Class 1 Min events		
UR-Cla1Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 1 TO		
URCla2	ABBIED600_Rev2_ING_SP_1	UR Class 2 Min events		
UR-Cla2Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 2 TO		
URCla3	ABBIED600_Rev2_ING_SP_1	UR Class 3 Min events		
UR-Cla3Tmms	ABBIED600_Rev2_ING_SP_1	UR Class 3 TO		
URLgcyMo d	ABBIED600_Rev4_ENG_SP_Enable	Legacy master UR		
SBOLgcyM od	ABBIED600_Rev4_ENG_SP_Enable	Legacy master SBO		
DftVa1	ABBIED600_Rev2_ENG_SP_DNPDefVari01	Default Var Obj 01		

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DftVa2	ABBIED600_Rev2_ENG_SP_DNPDefVari02	Default Var Obj 02		
DftVa3	ABBIED600_Rev2_ENG_SP_DNPDefVari03	Default Var Obj 03		
DftVa4	ABBIED600_Rev2_ENG_SP_DNPDefVari04	Default Var Obj 04		
DftVa20	ABBIED600_Rev2_ENG_SP_DNPDefVari20	Default Var Obj 20		
DftVa21	ABBIED600_Rev3_ENG_SP_DNPDefVari21	Default Var Obj 21		
DftVa22	ABBIED600_Rev2_ENG_SP_DNPDefVari22	Default Var Obj 22		
DftVa23	ABBIED600_Rev2_ENG_SP_DNPDefVari23	Default Var Obj 23		
DftVa30	ABBIED600_Rev2_ENG_SP_DNPDefVari30	Default Var Obj 30		
DftVa32	ABBIED600_Rev2_ENG_SP_DNPDefVari32	Default Var Obj 32		
DftVa40	ABBIED600_Rev2_ENG_SP_DNPDefVari40	Default Var Obj 40		
DftVa42	ABBIED600_Rev2_ENG_SP_DNPDefVari42	Default Var Obj 42		
VldAddr	ABBIED600_Rev4_ENG_SP_Enable	Validate Master Addr		
SelfAddr	ABBIED600_Rev4_ENG_SP_Enable	Self Address Support		
ChLivTms	ABBIED600_Rev2_ING_SP_1_e	Link keep-alive TO	E	IEC 61850-7-4:2007

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TCPAuth	ABBIED600_Rev2_ENG_SP_TCPAuth	Client control authority		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP port		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
MapErrCnt	ABBIED600_Rev1_INS	Mapping errors		
CliIPAddr	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
AnInEvtMod	ABBIED600_Rev2_ENG_SP_DNPAnInEvtMod_Sub1	Analog Input Event Mode		
UDPPortRx	ABBIED600_Rev2_ING_SP_1	UDP Rx port		

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UDPPortTx Ini	ABBIED600_Rev2_ING_SP_1	UDP Tx port Ini		
UDPPortTx	ABBIED600_Rev2_ING_SP_1	UDP Tx port		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.115 LN: SDNPLPRT5 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
AggrMod	ABBIED600_Rev4_ENG_SP_Enable	Aggressive mode enable		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected Session		

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		key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		
UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Security		

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		statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical		

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		messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for		

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		session key changes		
SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
MaxAuthnFail	ABBIED600_Rev2_ING_SP_1	Maximum authentication failures threshold		
MaxRplTmSet	ABBIED600_Rev2_ING_SP_1	Maximum reply		

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		ti-meouts thresho ld		
MaxAuthn Key	ABBIED600_Rev2_ING_SP_1	Maxi-mum authen-tication rekeys thresho ld		
Max-TxErrMsg	ABBIED600_Rev2_ING_SP_1	Maxi-mum error messa-ges sent thresho ld		
UnEx-pecCnt	ABBIED600_Rev1_INS	Secu-rity statis-tics counter for unex-pected messa-ges		
Auth-FailCnt	ABBIED600_Rev1_INS	Secu-rity statis-tics counter for autho-riza-tion failures		
AuthnFailC nt	ABBIED600_Rev1_INS	Secu-rity statis-tics counter for		

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		authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		
RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics		

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		counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security		

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		statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		
EvCObj122	ENG_SP_SDNP_EvClassObj122	Event Class for Obj 122		
DftVa122	ABBIED600_Rev2_ENG_SP_SDNP_DefVari122	Default Var Obj 122		

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ClrUsrLst	ABBIED600_Rev3_SPC_userlist_e	Clear DNP Secure authen-tication User List	E	REx615:2014, status-only,di-rect-with-nor-mal-security

5.1.116 LN: MBSLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Re-marks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-nor-mal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev8_LPL_MBS_ED2	Name plate		
BufBkOff	ABBIED600_Rev2_ING_SP_1	Event buffer backoff value		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP liste-ning port		
MapSel	ABBIED600_Rev2_ING_SP_1	Map-ping se-lection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Slave Addres s		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Res-ponse start de-lay for serial clients		

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EndFrDl	ABBIED600_Rev2_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted exception responses 01 and 02		
TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted exception responses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not	E	IEC 61850-7-4:2007

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		connec-ted)		
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Over-flow in-dication		
Conn-RejSck	ABBIED600_Rev1_INS	Con-nection rejected due to no socket availabl e		
Conn-RejRg	ABBIED600_Rev1_INS	Con-nection rejected due to unre-gistered client		
CtlPwd1	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 1		
CtlPwd2	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 2		
CtlPwd3	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 3		
CtlPwd4	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 4		
CtlPwd5	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 5		
CtlPwd6	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 6		

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CtlPwd7	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 7		
CtlPwd8	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 8		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port se-lection		
LnkMod	ABBIED600_Rev3_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev3_ENG_SP_MBWrAuth	Write autho-rity		
EvtIdSel	ABBIED600_Rev3_ENG_SP_MBSEventID	Event ID se-lection		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Event buffe-ring mode		
CRCOrdr	ABBIED600_Rev3_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
SerPty	ABBIED600_Rev3_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev3_SPC_control	Diag-nostic coun-ters re-set		status-only,di rect-with-nor-mal-secu-rity
CommMod1	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Net-work 1 com-mu-nication mode		

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CommMod2	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Network 2 communication mode		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.117 LN: MBSLPRT2 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev8_LPL_MBS_ED2	Name plate		
BufBkOff	ABBIED600_Rev2_ING_SP_1	Event buffer backoff value		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP listening port		

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MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Slave Address		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev2_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted exception responses 01 and 02		
TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted		

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		exception responses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CtlPwd1	ABBIED600_Rev4_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev4_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev4_VSG_2_20	Control Struct Password 3		

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CtlPwd4	ABBIED600_Rev4_VSG_2_20	Control Struct Password 4		
CtlPwd5	ABBIED600_Rev4_VSG_2_20	Control Struct Password 5		
CtlPwd6	ABBIED600_Rev4_VSG_2_20	Control Struct Password 6		
CtlPwd7	ABBIED600_Rev4_VSG_2_20	Control Struct Password 7		
CtlPwd8	ABBIED600_Rev4_VSG_2_20	Control Struct Password 8		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port selection		
LnkMod	ABBIED600_Rev3_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev3_ENG_SP_MBWrAuth	Write authority		
EvtIdSel	ABBIED600_Rev3_ENG_SP_MBSEventID	Event ID selection		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Event buffering mode		
CRCOrdr	ABBIED600_Rev3_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
SerPty	ABBIED600_Rev3_ENG_SP_SerPty	Serial parity		

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CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.118 LN: MBSLPRT3 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev8_LPL_MBS_ED2	Name plate		
BufBkOff	ABBIED600_Rev2_ING_SP_1	Event buffer backoff value		

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TCPPort	ABBIED600_Rev2_ING_SP_1	TCP listening port		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Slave Address		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev2_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted exception responses 01 and 02		

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TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted exception responses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket availabl e		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CtlPwd1	ABBIED600_Rev4_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev4_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev4_VSG_2_20	Control Struct		

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		Pass-word 3		
CtlPwd4	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 4		
CtlPwd5	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 5		
CtlPwd6	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 6		
CtlPwd7	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 7		
CtlPwd8	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 8		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port se-lection		
LnkMod	ABBIED600_Rev3_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev3_ENG_SP_MBWrAuth	Write autho-rity		
EvtIdSel	ABBIED600_Rev3_ENG_SP_MBSEventID	Event ID se-lection		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Event buffe-ring mode		
CRCOrdr	ABBIED600_Rev3_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		

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SerPty	ABBIED600_Rev3_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.119 LN: MBSLPRT4 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev8_LPL_MBS_ED2	Name plate		
BufBkOff	ABBIED600_Rev2_ING_SP_1	Event buffer backoff value		

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TCPPort	ABBIED600_Rev2_ING_SP_1	TCP listening port		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Slave Address		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev2_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted exception responses 01 and 02		

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TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted exception responses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket availabl e		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CtlPwd1	ABBIED600_Rev4_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev4_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev4_VSG_2_20	Control Struct		

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		Pass-word 3		
CtlPwd4	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 4		
CtlPwd5	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 5		
CtlPwd6	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 6		
CtlPwd7	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 7		
CtlPwd8	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 8		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port se-lection		
LnkMod	ABBIED600_Rev3_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev3_ENG_SP_MBWrAuth	Write autho-rity		
EvtIdSel	ABBIED600_Rev3_ENG_SP_MBSEventID	Event ID se-lection		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Event buffe-ring mode		
CRCOrdr	ABBIED600_Rev3_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		

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SerPty	ABBIED600_Rev3_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.120 LN: MBSLPRT5 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev8_LPL_MBS_ED2	Name plate		
BufBkOff	ABBIED600_Rev2_ING_SP_1	Event buffer backoff value		

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TCPPort	ABBIED600_Rev2_ING_SP_1	TCP listening port		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
UntAddr	ABBIED600_Rev2_ING_SP_1	Slave Address		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Response start delay for serial clients		
EndFrDl	ABBIED600_Rev2_ING_SP_1	Message end delay for serial client		
FrRxCnt	ABBIED600_Rev1_INS	Number of received frames		
ChkErrCnt	ABBIED600_Rev1_INS	Number of checksum errors		
FrTxCnt	ABBIED600_Rev1_INS	Number of transmitted frames		
TxExcpCnt1	ABBIED600_Rev1_INS	Number of transmitted exception responses 01 and 02		

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TxExcpCnt2	ABBIED600_Rev1_INS	Number of transmitted exception responses 03		
ChLiv	ABBIED600_Rev1_SPS_e	Communication status (True = OK, False = Not connected)	E	IEC 61850-7-4:2007
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow indication		
ConnRejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket availabl e		
ConnRejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CtlPwd1	ABBIED600_Rev4_VSG_2_20	Control Struct Password 1		
CtlPwd2	ABBIED600_Rev4_VSG_2_20	Control Struct Password 2		
CtlPwd3	ABBIED600_Rev4_VSG_2_20	Control Struct		

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		Pass-word 3		
CtlPwd4	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 4		
CtlPwd5	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 5		
CtlPwd6	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 6		
CtlPwd7	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 7		
CtlPwd8	ABBIED600_Rev4_VSG_2_20	Control Struct Pass-word 8		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port se-lection		
LnkMod	ABBIED600_Rev3_ENG_SP_LnkMod	Link mode		
MBWrAuth	ABBIED600_Rev3_ENG_SP_MBWrAuth	Write autho-rity		
EvtIdSel	ABBIED600_Rev3_ENG_SP_MBSEventID	Event ID se-lection		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Event buffe-ring mode		
CRCOrdr	ABBIED600_Rev3_ENG_SP_CRCOrd	CRC order		
TmFrm	ABBIED600_Rev3_ENG_SP_MBSTimeFormat	Time format		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		

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SerPty	ABBIED600_Rev3_ENG_SP_SerPty	Serial parity		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.121 LN: I5CLPRT1 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommIntnOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port selection		

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StrFrDl	ABBIED600_Rev2_ING_SP_1	Start delay		
EndFrDl	ABBIED600_Rev2_ING_SP_1	End delay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link errors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmitted frames		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
ITotFrz	ABBIED600_Rev3_SPC_control	IT Freeze		status-only,direct-with-normal-security
DevAddr	ABBIED600_Rev2_ING_SP_1	Device link address		
ASDUAddr	ABBIED600_Rev2_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP Port		
UnbLnkMod	ABBIED600_Rev3_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev2_ING_SP_1	Cause of transmission length in bytes		
IOALen	ABBIED600_Rev2_ING_SP_1	Information Object		

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		Address length in bytes		
LnkAddrLen	ABBIED600_Rev2_ING_SP_1	Link Address length in bytes		
AS-DUAddrLen	ABBIED600_Rev2_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev2_SPG_SP	Single character response		
Ind-BadTmQ	ABBIED600_Rev2_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev3_ENG_SP_I5CTimeFormat	Times-tamp mode		
EvtTmMod	ABBIED600_Rev3_ENG_SP_I5CTimeMode	Event time		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Overflow Mode		
CntRpMod	ABBIED600_Rev3_ENG_SP_I5CCnRepMode	Counter Repor-ting		
Cnt-FrzMod	ABBIED600_Rev3_ENG_SP_I5CPrCnMode	Freeze Mode		
TxWinWid	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 transmit window (k)		
RxWinWid	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in millise-conds		

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Tm2Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive timeout (t2) in millise-conds		
Tm3Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 link test interval (t3) in millise-conds		
OvIn-dAddrGI	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for inter-rogated data		
OvIn-dAddr	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for non-interro-gated data		
SelTms	ABBIED600_Rev2_ING_SP_1	Select ti-meout		
CycPer	ABBIED600_Rev2_ING_SP_1	Cyclic period		
InvDIR	ABBIED600_Rev2_SPG_SP	Inverted DIR bit		
Conn-RejSck	ABBIED600_Rev1_INS	Connec-tion re-jected due to no socket available		
Conn-RejRg	ABBIED600_Rev1_INS	Connec-tion re-jected due to		

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		unregistered client		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDl	ABBIED600_Rev2_ING_SP_1	Command delay		
CommMod1	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Network 1 communication mode		
CommMod2	ABBIED600_Rev2_ENG_SP_CommMod_Sub1	Network 2 communication mode		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

5.1.122 LN: SI5CLPRT1 Name: LPRT (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		
SecStatCntGr	ABBIED600_Rev2_ENG_SP_SI5C_SecStatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev2_ING_SP_1	Base information object address for secure statistics counters		

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UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshol		

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		d for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for successful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for session key changes		

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SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		

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RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error		

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		messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		

5.1.123 LN: I5CLPRT2 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-

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				nor-mal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port se-lection		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Start de-lay		
EndFrDl	ABBIED600_Rev2_ING_SP_1	End de-lay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link er-rors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmit-ted fra-mes		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
ITotFrz	ABBIED600_Rev3_SPC_control	IT Freeze		status-only,direct-with-nor-mal-secu-rity
DevAddr	ABBIED600_Rev2_ING_SP_1	Device link address		

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AS-DUAddr	ABBIED600_Rev2_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP Port		
Un-bLnkMod	ABBIED600_Rev3_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev2_ING_SP_1	Cause of transmis-sion length in bytes		
IOALen	ABBIED600_Rev2_ING_SP_1	Informa-tion Ob-ject Address length in bytes		
LnkAddrLen	ABBIED600_Rev2_ING_SP_1	Link Address length in bytes		
AS-DUAddrLen	ABBIED600_Rev2_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev2_SPG_SP	Single character response		
Ind-BadTmQ	ABBIED600_Rev2_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev3_ENG_SP_I5CTimeFormat	Times-tamp mode		
EvtTmMod	ABBIED600_Rev3_ENG_SP_I5CTimeMode	Event time		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Overflow Mode		
CntRpMod	ABBIED600_Rev3_ENG_SP_I5CCnRepMode	Counter Repor-ting		
Cnt-FrzMod	ABBIED600_Rev3_ENG_SP_I5CPrCnMode	Freeze Mode		
TxWinWid	ABBIED600_Rev2_ING_SP_1	IEC6087 0-5-104 transmit		

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		window (k)		
RxWinWid	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in millise-conds		
Tm2Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive timeout (t2) in millise-conds		
Tm3Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 link test interval (t3) in millise-conds		
OvIn-dAddrGI	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for inter-rogated data		
OvIn-dAddr	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for non-interro-gated data		
SelTms	ABBIED600_Rev2_ING_SP_1	Select ti-meout		

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CycPer	ABBIED600_Rev2_ING_SP_1	Cyclic period		
InvDIR	ABBIED600_Rev2_SPG_SP	Inverted DIR bit		
Conn-RejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
Conn-RejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDl	ABBIED600_Rev2_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

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5.1.124 LN: SI5CLPRT2 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		
SecStatCntGr	ABBIED600_Rev2_ENG_SP_SI5C_SecStatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev2_ING_SP_1	Base information object address for secure statistics counters		

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UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshol		

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		d for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for session key changes		

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SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		

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RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error		

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		messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		

5.1.125 LN: I5CLPRT3 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-

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				nor-mal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port se-lection		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Start de-lay		
EndFrDl	ABBIED600_Rev2_ING_SP_1	End de-lay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link er-rors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmit-ted fra-mes		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
ITotFrz	ABBIED600_Rev3_SPC_control	IT Freeze		status-only,direct-with-nor-mal-secu-rity
DevAddr	ABBIED600_Rev2_ING_SP_1	Device link address		

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AS-DUAddr	ABBIED600_Rev2_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP Port		
Un-bLnkMod	ABBIED600_Rev3_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev2_ING_SP_1	Cause of transmis-sion length in bytes		
IOALen	ABBIED600_Rev2_ING_SP_1	Informa-tion Ob-ject Address length in bytes		
LnkAddrLen	ABBIED600_Rev2_ING_SP_1	Link Address length in bytes		
AS-DUAddrLen	ABBIED600_Rev2_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev2_SPG_SP	Single character response		
Ind-BadTmQ	ABBIED600_Rev2_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev3_ENG_SP_I5CTimeFormat	Times-tamp mode		
EvtTmMod	ABBIED600_Rev3_ENG_SP_I5CTimeMode	Event time		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Overflow Mode		
CntRpMod	ABBIED600_Rev3_ENG_SP_I5CCnRepMode	Counter Repor-ting		
Cnt-FrzMod	ABBIED600_Rev3_ENG_SP_I5CPrCnMode	Freeze Mode		
TxWinWid	ABBIED600_Rev2_ING_SP_1	IEC6087 0-5-104 transmit		

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		window (k)		
RxWinWid	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in millise-conds		
Tm2Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive timeout (t2) in millise-conds		
Tm3Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 link test interval (t3) in millise-conds		
OvIn-dAddrGI	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for inter-rogated data		
OvIn-dAddr	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for non-interro-gated data		
SelTms	ABBIED600_Rev2_ING_SP_1	Select ti-meout		

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CycPer	ABBIED600_Rev2_ING_SP_1	Cyclic period		
InvDIR	ABBIED600_Rev2_SPG_SP	Inverted DIR bit		
Conn-RejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
Conn-RejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDl	ABBIED600_Rev2_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

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5.1.126 LN: SI5CLPRT3 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		
SecStatCntGr	ABBIED600_Rev2_ENG_SP_SI5C_SecStatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev2_ING_SP_1	Base information object address for secure statistics counters		

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UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshol		

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		d for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for session key changes		

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SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		

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RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error		

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		messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		

5.1.127 LN: I5CLPRT4 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-

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				nor-mal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub 3_ED2	Port se-lection		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Start de-lay		
EndFrDl	ABBIED600_Rev2_ING_SP_1	End de-lay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link er-rors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmit-ted fra-mes		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850 -7-4:200 7
ITotFrz	ABBIED600_Rev3_SPC_control	IT Freeze		status-only,d irect-with-nor-mal-secu-rity
DevAddr	ABBIED600_Rev2_ING_SP_1	Device link address		

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AS-DUAddr	ABBIED600_Rev2_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP Port		
Un-bLnkMod	ABBIED600_Rev3_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev2_ING_SP_1	Cause of transmis-sion length in bytes		
IOALen	ABBIED600_Rev2_ING_SP_1	Informa-tion Ob-ject Address length in bytes		
LnkAddrLen	ABBIED600_Rev2_ING_SP_1	Link Address length in bytes		
AS-DUAddrLen	ABBIED600_Rev2_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev2_SPG_SP	Single character response		
Ind-BadTmQ	ABBIED600_Rev2_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev3_ENG_SP_I5CTimeFormat	Times-tamp mode		
EvtTmMod	ABBIED600_Rev3_ENG_SP_I5CTimeMode	Event time		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Overflow Mode		
CntRpMod	ABBIED600_Rev3_ENG_SP_I5CCnRepMode	Counter Repor-ting		
Cnt-FrzMod	ABBIED600_Rev3_ENG_SP_I5CPrCnMode	Freeze Mode		
TxWinWid	ABBIED600_Rev2_ING_SP_1	IEC6087 0-5-104 transmit		

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		window (k)		
RxWinWid	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in millise-conds		
Tm2Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive timeout (t2) in millise-conds		
Tm3Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 link test interval (t3) in millise-conds		
OvIn-dAddrGI	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for inter-rogated data		
OvIn-dAddr	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for non-interro-gated data		
SelTms	ABBIED600_Rev2_ING_SP_1	Select ti-meout		

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CycPer	ABBIED600_Rev2_ING_SP_1	Cyclic period		
InvDIR	ABBIED600_Rev2_SPG_SP	Inverted DIR bit		
Conn-RejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
Conn-RejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDl	ABBIED600_Rev2_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

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5.1.128 LN: SI5CLPRT4 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		
SecStatCntGr	ABBIED600_Rev2_ENG_SP_SI5C_SecStatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev2_ING_SP_1	Base information object address for secure statistics counters		

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UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshol		

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		d for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for session key changes		

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SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		

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RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error		

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		messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		

5.1.129 LN: I5CLPRT5 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-

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				nor-mal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
CommInt-nOv	ABBIED600_Rev1_SPS	Internal Overflow		
CommPort	ABBIED600_Rev6_ENG_SP_CommPort_Sub3_ED2	Port se-lection		
StrFrDl	ABBIED600_Rev2_ING_SP_1	Start de-lay		
EndFrDl	ABBIED600_Rev2_ING_SP_1	End de-lay		
FrRxCnt	ABBIED600_Rev1_INS	Received frames		
LnkErrCnt	ABBIED600_Rev1_INS	Link er-rors		
PhyErrCnt	ABBIED600_Rev1_INS	Physical errors		
TranErrCnt	ABBIED600_Rev1_INS	Transport errors		
FrTxCnt	ABBIED600_Rev1_INS	Transmit-ted fra-mes		
ChLiv	ABBIED600_Rev1_SPS_e	Status	E	IEC 61850-7-4:2007
ITotFrz	ABBIED600_Rev3_SPC_control	IT Freeze		status-only,direct-with-nor-mal-secu-rity
DevAddr	ABBIED600_Rev2_ING_SP_1	Device link address		

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AS-DUAddr	ABBIED600_Rev2_ING_SP_1	ASDU address		
TCPPort	ABBIED600_Rev2_ING_SP_1	TCP Port		
Un-bLnkMod	ABBIED600_Rev3_ENG_SP_I5CLinkMode	Link Mode		
COTLen	ABBIED600_Rev2_ING_SP_1	Cause of transmis-sion length in bytes		
IOALen	ABBIED600_Rev2_ING_SP_1	Informa-tion Ob-ject Address length in bytes		
LnkAddrLen	ABBIED600_Rev2_ING_SP_1	Link Address length in bytes		
AS-DUAddrLen	ABBIED600_Rev2_ING_SP_1	ASDU Address length in bytes		
SglCharRsp	ABBIED600_Rev2_SPG_SP	Single character response		
Ind-BadTmQ	ABBIED600_Rev2_SPG_SP	Indicate bad time		
TmFrmSel	ABBIED600_Rev3_ENG_SP_I5CTimeFormat	Times-tamp mode		
EvtTmMod	ABBIED600_Rev3_ENG_SP_I5CTimeMode	Event time		
Evt-BufMod	ABBIED600_Rev3_ENG_SP_MBEvtBufMod	Overflow Mode		
CntRpMod	ABBIED600_Rev3_ENG_SP_I5CCnRepMode	Counter Repor-ting		
Cnt-FrzMod	ABBIED600_Rev3_ENG_SP_I5CPrCnMode	Freeze Mode		
TxWinWid	ABBIED600_Rev2_ING_SP_1	IEC6087 0-5-104 transmit		

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		window (k)		
RxWinWid	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive window (w)		
Tm1Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 transmit timeout (t1) in millise-conds		
Tm2Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 receive timeout (t2) in millise-conds		
Tm3Tmms	ABBIED600_Rev2_ING_SP_1	IEC60870-5-104 link test interval (t3) in millise-conds		
OvIn-dAddrGI	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for inter-rogated data		
OvIn-dAddr	ABBIED600_Rev2_ING_SP_1	Overflow indica-tion address for non-interro-gated data		
SelTms	ABBIED600_Rev2_ING_SP_1	Select ti-meout		

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CycPer	ABBIED600_Rev2_ING_SP_1	Cyclic period		
InvDIR	ABBIED600_Rev2_SPG_SP	Inverted DIR bit		
Conn-RejSck	ABBIED600_Rev1_INS	Connection rejected due to no socket available		
Conn-RejRg	ABBIED600_Rev1_INS	Connection rejected due to unregistered client		
CliIP	ABBIED600_Rev4_VSG_2_20	Client IP address		
CntRs	ABBIED600_Rev3_SPC_control	Diagnostic counters reset		status-only,direct-with-normal-security
CmdDl	ABBIED600_Rev2_ING_SP_1	Command delay		
MapSel	ABBIED600_Rev2_ING_SP_1	Mapping selection		
PrtlCustom	ABBIED600_Rev1_ENS_ABB_Prtl_Customization	Protocol Customization Mode		
PrmCustom	ABBIED600_Rev2_ING_SP_1	Customization parameter. Please, refer to the protocol manual.		

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5.1.130 LN: SI5CLPRT5 Name: LPRT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev2_LPL_lnNs_1	Name plate		
PrtlSecMod	ABBIED600_Rev3_ENG_SP_PrtlSecMode	Protocol Security Mode		
RplTmSet	ABBIED600_Rev2_ING_SP_1	Reply timeout		
KeyChgIntv	ABBIED600_Rev2_ING_SP_1	Expected Session key change interval		
KeyChgCnt	ABBIED600_Rev2_ING_SP_1	Expected session key change count		
MaxKeySt	ABBIED600_Rev2_ING_SP_1	Maximum session key status count		
SecStatCntGr	ABBIED600_Rev2_ENG_SP_SI5C_SecStatGrp	Secure statistics counter group		
SecStatIOA	ABBIED600_Rev2_ING_SP_1	Base information object address for secure statistics counters		

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UnExpecMsg	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for unexpected messages		
AuthFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authorization failures		
AuthnFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for authentication failures		
RplTmLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for reply timeouts		
RekeyFailLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for rekeys due to authentication failure		
TxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total messages sent		
RxMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshol		

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		d for total messages received		
RxCritMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for total critical messages received		
DscarMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold discarded messages		
TxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages sent		
RxErrMsgLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold error messages received		
AuthnSucLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for succesful authentications		
SesKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for session key changes		

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SesKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed session key changes		
UpdKeyLev	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for update key changes		
UpdKeyFail	ABBIED600_Rev2_ING_SP_1	Security statistics threshold for failed update key changes		
UnExpecCnt	ABBIED600_Rev1_INS	Security statistics counter for unexpected messages		
AuthFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authorization failures		
AuthnFailCnt	ABBIED600_Rev1_INS	Security statistics counter for authentication failures		
RplTmCnt	ABBIED600_Rev1_INS	Security statistics counter for reply timeouts		

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RekeyFailCnt	ABBIED600_Rev1_INS	Security statistics counter for rekeys due to authentication failure		
FrTxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages sent		
FrRxCnt	ABBIED600_Rev1_INS	Security statistics counter for total messages received		
RxCritMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for critical messages received		
DscarMsgCnt	ABBIED600_Rev1_INS	Security statistics counter for discarded messages		
TxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error messages sent		
RxErrMsgCnt	ABBIED600_Rev1_INS	Security statistics counter error		

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		messages received		
AuthnSucCnt	ABBIED600_Rev1_INS	Security statistics counter for successful authentications		
SesKeyCnt	ABBIED600_Rev1_INS	Security statistics counter for session key changes		
SesFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed session key changes		
UpdKeyCnt	ABBIED600_Rev1_INS	Security statistics counter update key changes		
UpdFailCnt	ABBIED600_Rev1_INS	Security statistics counter for failed update key changes		

5.1.131 LN: I01ATCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On			status-only
Beh	ABBIED600_Rev10_ENS_beh			
NamPlt	ABBIED600_Rev4_LPL_lnNs_Ed2			

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AmpSv	ABBIED600_Rev2_SAV_92_lite			
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg			
HzRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg			
Clip	ABBIED600_Rev4_ASG_SP_f			

5.1.132 LN: U01ATVTR1 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On			status-only
Beh	ABBIED600_Rev10_ENS_beh			
NamPlt	ABBIED600_Rev4_LPL_lnNs_Ed2			
VolSv	ABBIED600_Rev2_SAV_92_lite			
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg			
HzRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg			
Clip	ABBIED600_Rev4_ASG_SP_f			

5.2 Extented Logical Nodes

5.2.1 LN: LLN0 Name: LLN0 (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OnTestBlock	Test mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Health	ABBIED600_Rev6_ENS_health	Health		
NamPlt	ABBIED600_Rev9_LPL_LD0_LNN0_ED2	Name plate		
IndLEDRs	ABBIED600_Rev3_SPC_indications_e	Indications and LEDs	E	ABBIED600:2014,status-only,direct-with-normal-security
ProgLEDRs	ABBIED600_Rev3_SPC_indications_e	Programmable LEDs	E	ABBIED600:2014,status-only,direct-with-normal-security

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MeasStatRs	ABBIED600_Rev3_SPC_control_e	Reset minimum and maximum demands	E	ABBIED600:2014,status-only,direct-with-normal-security
PQRs	ABBIED600_Rev3_SPC_control_e	Reset all power quality data	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModSetGr	ABBIED600_Rev3_ENG_SP_OpModSG_e	Operation mode for setting group change	E	ABBIED600:2014
ActSetGr	ABBIED600_Rev3_INC_control_int_e	Active setting group	E	ABBIED600:2014,status-only,direct-with-normal-security
Act1SetGr	ABBIED600_Rev2_SPC_simple_e	Active setting group 1	E	ABBIED600:2014,status-only
Act2SetGr	ABBIED600_Rev2_SPC_simple_e	Active setting group 2	E	ABBIED600:2014,status-only
Act3SetGr	ABBIED600_Rev2_SPC_simple_e	Active setting group 3	E	ABBIED600:2014,status-only

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Act4SetGr	ABBIED600_Rev2_SPC_simple_e	Active setting group 4	E	ABBIED600:2014,status-only
Act5SetGr	ABBIED600_Rev2_SPC_simple_e	Active setting group 5	E	ABBIED600:2014,status-only
Act6SetGr	ABBIED600_Rev2_SPC_simple_e	Active setting group 6	E	ABBIED600:2014,status-only
LgcSelSetGr	ABBIED600_Rev2_SPC_simple_e	Logic selection for setting group	E	ABBIED600:2014,status-only
SetSvMaxDl	ABBIED600_Rev3_ENG_SP_SetSvMaxDl_e	SMV Max Delay	E	ABBIED600:2014
FcnSt	ABBIED600_Rev2_VSG_2_e	Configuration information	E	ABBIED600:2014
ParChgCnt	ABBIED600_Rev1_INS_retain_e	Number of setting changes	E	ABBIED600:2014
CnfChg	ABBIED600_Rev2_SPC_simple_e	Configuration Change	E	ABBIED600:2014,status-only

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AllLORs	ABBIED600_Rev3_SPC_indications_e	Reset all trip lockout and latch	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.2 LN: GSAL1 Name: GSAL (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Resetable Security Violations counter		status-only
NumCntRs	ABBIED600_Rev1_INS	Number of counter resets		
AuthFail	ABBIED600_Rev1_SEC	Authorization failures detected		
AcsCtlFail	ABBIED600_Rev1_SEC	Access control failures detected		
SvcViol	ABBIED600_Rev1_SEC	Service		

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		privilege violations		
Ina	ABBIED600_Rev1_SEC	Inactive associations		
AuthLoc	ABBIED600_Rev4_SPG_SP_authority_ED2_e	Local authorization	E	ABBIED600:2014
AuthRem	ABBIED600_Rev4_SPG_SP_authority_ED2_e	Remote authorization	E	ABBIED600:2014
RemUpdEna	ABBIED600_Rev2_SPG_SP_AccessAdmW_e	Remote Update Enable	E	ABBIED600:2014
AuthRemAdm	ABBIED600_Rev2_VSG_2_64_e	Remote authorization (administrator)	E	ABBIED600:2014
AuthRemEng	ABBIED600_Rev2_VSG_2_64_e	Remote authorization (engineer)	E	ABBIED600:2014
AuthRemOpr	ABBIED600_Rev2_VSG_2_64_e	Remote authorization	E	ABBIED600:2014

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		(operator)		
Auth-RemVw	ABBIED600_Rev2_VSG_2_64_e	Remote authorization (viewer)	E	ABBIED600:2014
EnaCAM	ABBIED600_Rev2_SPG_SP_e	Authority Mode	E	ABBIED600:2014
TmmR-pIntv	ABBIED600_Rev2_ING_SP_1_e	Replication Time Interval	E	ABBIED600:2014
AuthMod	ABBIED600_Rev1_ENS_AuthMod_e	Authority mode of relay	E	ABBIED600:2014
CAMSrv1	ABBIED600_Rev1_ENS_SrvSt_e	Status of CAM server 1	E	ABBIED600:2014
CAMSrv2	ABBIED600_Rev1_ENS_SrvSt_e	Status of CAM server 2	E	ABBIED600:2014
CAMRplSt	ABBIED600_Rev2_ENS_RplSt_e	Replication status of CAM server	E	ABBIED600:2014
EthBndCtl	ABBIED600_Rev2_SPG_SP_e	Ethernet rate limiter	E	REx615:2014
DOSWrn	ABBIED600_Rev1_SPS_e	DoS warning	E	REx615:2014

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DOSAlm	ABBIED600_Rev1_SPS_e	DoS alarm	E	REx615:2014
FTPWrAcs1	ABBIED600_Rev2_ENG_SP_CommMod_Sub1_e	FTP write access	E	REx615:2014
MMSWrAcs1	ABBIED600_Rev2_ENG_SP_CommMod_Sub1_e	MMS write access	E	REx615:2014
WhmiWrAcs1	ABBIED600_Rev2_ENG_SP_CommMod_Sub1_e	HTTPS write access	E	REx615:2014
FTPWrAcs2	ABBIED600_Rev2_ENG_SP_CommMod_Sub1_e	FTP write access	E	REx615:2014
MMSWrAcs2	ABBIED600_Rev2_ENG_SP_CommMod_Sub1_e	MMS write access	E	REx615:2014
WhmiWrAcs2	ABBIED600_Rev2_ENG_SP_CommMod_Sub1_e	HTTPS write access	E	REx615:2014
FTPWrAcs3	ABBIED600_Rev2_ENG_SP_CommMod_Sub1_e	FTP write access	E	REx615:2014
MMSWrAcs3	ABBIED600_Rev2_ENG_SP_CommMod_Sub1_e	MMS write access	E	REx615:2014
CAMC-fgMod	ABBIED600_Rev2_ENG_SP_CamConfMod_e	Central Account Management	E	REx615:2014

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		Con-figu-ration mode		
ClrUsrLst	ABBIED600_Rev3_SPC_userlist_e	Clear User List	E	REx615:2014, status-only,di-rect-with-nor-mal-security

5.2.3 LN: PKIGSAL1 Name: GSAL (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Rese-table Secu-rity Vio-lations coun-ter		status-only
NumCntRs	ABBIED600_Rev1_INS	Num-ber of coun-ter re-sets		
AuthFail	ABBIED600_Rev1_SEC	Autho riza-tion failu-res de-tected		
AcsCtlFail	ABBIED600_Rev1_SEC	Ac-cess cont-rol failu-res de-tected		
SvcViol	ABBIED600_Rev1_SEC	Ser-vice privi-lege		

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		violations		
Ina	ABBIED600_Rev1_SEC	Inactive associations		
EnaPKI	ABBIED600_Rev2_SPG_SP_e	Enable PKI	E	ABBIED600:2014
RAIPAdr	ABBIED600_Rev4_VSG_2_20_e	RA server IP address	E	ABBIED600:2014
RAAdr	ABBIED600_Rev2_VSG_2_20_dU_e	RA server address	E	ABBIED600:2014
RAPort	ABBIED600_Rev2_ING_SP_1_e	RA port number	E	ABBIED600:2014
CAThmbPrn	ABBIED600_Rev2_VSG_2_64_e	CA thumb print	E	ABBIED600:2014
CANam	ABBIED600_Rev4_VSG_2_20_e	CA name	E	ABBIED600:2014
KeyLenBit	ABBIED600_Rev4_ENG_SP_KeyLenBit_e	Key length in bits	E	ABBIED600:2014
EnrollPwd	ABBIED600_Rev4_VSG_2_20_e	Enrollment password	E	ABBIED600:2014
CARspTms	ABBIED600_Rev2_ING_SP_e	CA server response timeout in Sec	E	ABBIED600:2014
CASrvSt	ABBIED600_Rev1_ENS_SrvSt_e	CA Server Status	E	ABBIED600:2014

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5.2.4 LN: LEDGGIO1 Name: GGIO (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mod e		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Alm1	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 1		
Alm2	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 2		
Alm3	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 3		
Alm4	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 4		
Alm5	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 5		
Alm6	ABBIED600_Rev1_SPS_simple	Alar m in-put for		

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		LED 6		
Alm7	ABBIED600_Rev1_SPS_simple	Alarm input for LED 7		
Alm8	ABBIED600_Rev1_SPS_simple	Alarm input for LED 8		
Alm9	ABBIED600_Rev1_SPS_simple	Alarm input for LED 9		
Alm10	ABBIED600_Rev1_SPS_simple	Alarm input for LED 10		
Alm11	ABBIED600_Rev1_SPS_simple	Alarm input for LED 11		
Ind1	ABBIED600_Rev1_SPS_simple	Ok input for LED 1		
Ind2	ABBIED600_Rev1_SPS_simple	Ok input for LED 2		
Ind3	ABBIED600_Rev1_SPS_simple	Ok input for		

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		LED 3		
Ind4	ABBIED600_Rev1_SPS_simple	Ok input for LED 4		
Ind5	ABBIED600_Rev1_SPS_simple	Ok input for LED 5		
Ind6	ABBIED600_Rev1_SPS_simple	Ok input for LED 6		
Ind7	ABBIED600_Rev1_SPS_simple	Ok input for LED 7		
Ind8	ABBIED600_Rev1_SPS_simple	Ok input for LED 8		
Ind9	ABBIED600_Rev1_SPS_simple	Ok input for LED 9		
Ind10	ABBIED600_Rev1_SPS_simple	Ok input for LED 10		
Ind11	ABBIED600_Rev1_SPS_simple	Ok input for LED 11		
LEDSt1	ABBIED600_Rev6_ENC_control_led_e	LED 1	E	ABBIED600:2014,status-only,direct-with-normal-security

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LEDSt2	ABBIED600_Rev6_ENC_control_led_e	LED 2	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt3	ABBIED600_Rev6_ENC_control_led_e	LED 3	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt4	ABBIED600_Rev6_ENC_control_led_e	LED 4	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt5	ABBIED600_Rev6_ENC_control_led_e	LED 5	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt6	ABBIED600_Rev6_ENC_control_led_e	LED 6	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt7	ABBIED600_Rev6_ENC_control_led_e	LED 7	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt8	ABBIED600_Rev6_ENC_control_led_e	LED 8	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt9	ABBIED600_Rev6_ENC_control_led_e	LED 9	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt10	ABBIED600_Rev6_ENC_control_led_e	LED 10	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt11	ABBIED600_Rev6_ENC_control_led_e	LED 11	E	ABBIED600:2014,status-only,direct-with-normal-security
LED-Seq1	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq2	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq3	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq4	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014

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LED-Seq5	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq6	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq7	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq8	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq9	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq10	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq11	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
In-RsLED1	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 1	E	ABBIED600:2014
In-RsLED2	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 2	E	ABBIED600:2014
In-RsLED3	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 3	E	ABBIED600:2014
In-RsLED4	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 4	E	ABBIED600:2014
In-RsLED5	ABBIED600_Rev1_SPS_simple_e	Reset input for	E	ABBIED600:2014

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		LED 5		
In-RsLED6	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 6	E	ABBIED600:2014
In-RsLED7	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 7	E	ABBIED600:2014
In-RsLED8	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 8	E	ABBIED600:2014
In-RsLED9	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 9	E	ABBIED600:2014
In-RsLED10	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 10	E	ABBIED600:2014
In-RsLED11	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 11	E	ABBIED600:2014
Alm-Colr	ABBIED600_Rev4_ENG_SP_LedColor_e	Alarm co-lour	E	ABBIED600:2014

5.2.5 LN: LEDGGIO2 Name: GGIO (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Alm1	ABBIED600_Rev1_SPS_simple	Alarm input for LED 12		
Alm2	ABBIED600_Rev1_SPS_simple	Alarm input for LED 13		
Alm3	ABBIED600_Rev1_SPS_simple	Alarm input for LED 14		
Alm4	ABBIED600_Rev1_SPS_simple	Alarm input for LED 15		
Alm5	ABBIED600_Rev1_SPS_simple	Alarm input for LED 16		
Alm6	ABBIED600_Rev1_SPS_simple	Alarm input for LED 17		
Alm7	ABBIED600_Rev1_SPS_simple	Alarm input for LED 18		

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Alm8	ABBIED600_Rev1_SPS_simple	Alarm input for LED 19		
Alm9	ABBIED600_Rev1_SPS_simple	Alarm input for LED 20		
Alm10	ABBIED600_Rev1_SPS_simple	Alarm input for LED 21		
Alm11	ABBIED600_Rev1_SPS_simple	Alarm input for LED 22		
Ind1	ABBIED600_Rev1_SPS_simple	Ok input for LED 12		
Ind2	ABBIED600_Rev1_SPS_simple	Ok input for LED 13		
Ind3	ABBIED600_Rev1_SPS_simple	Ok input for LED 14		
Ind4	ABBIED600_Rev1_SPS_simple	Ok input for LED 15		
Ind5	ABBIED600_Rev1_SPS_simple	Ok input		

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		for LED 16		
Ind6	ABBIED600_Rev1_SPS_simple	Ok input for LED 17		
Ind7	ABBIED600_Rev1_SPS_simple	Ok input for LED 18		
Ind8	ABBIED600_Rev1_SPS_simple	Ok input for LED 19		
Ind9	ABBIED600_Rev1_SPS_simple	Ok input for LED 20		
Ind10	ABBIED600_Rev1_SPS_simple	Ok input for LED 21		
Ind11	ABBIED600_Rev1_SPS_simple	Ok input for LED 22		
LEDSt1	ABBIED600_Rev6_ENC_control_led_e	LED 12	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt2	ABBIED600_Rev6_ENC_control_led_e	LED 13	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt3	ABBIED600_Rev6_ENC_control_led_e	LED 14	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt4	ABBIED600_Rev6_ENC_control_led_e	LED 15	E	ABBIED600:2014,status-only,direct-with-normal-security

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LEDSt5	ABBIED600_Rev6_ENC_control_led_e	LED 17	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt6	ABBIED600_Rev6_ENC_control_led_e	LED 17	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt7	ABBIED600_Rev6_ENC_control_led_e	LED 18	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt8	ABBIED600_Rev6_ENC_control_led_e	LED 19	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt9	ABBIED600_Rev6_ENC_control_led_e	LED 20	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt10	ABBIED600_Rev6_ENC_control_led_e	LED 21	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt11	ABBIED600_Rev6_ENC_control_led_e	LED 22	E	ABBIED600:2014,status-only,direct-with-normal-security
LED-Seq1	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq2	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq3	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq4	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq5	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq6	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq7	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014

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LED-Seq8	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq9	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq10	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq11	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
In-RsLED1	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 12	E	ABBIED600:2014
In-RsLED2	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 13	E	ABBIED600:2014
In-RsLED3	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 14	E	ABBIED600:2014
In-RsLED4	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 15	E	ABBIED600:2014
In-RsLED5	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 16	E	ABBIED600:2014
In-RsLED6	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 17	E	ABBIED600:2014
In-RsLED7	ABBIED600_Rev1_SPS_simple_e	Reset input for	E	ABBIED600:2014

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		LED 18		
In-RsLED8	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 19	E	ABBIED600:2014
In-RsLED9	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 20	E	ABBIED600:2014
In-RsLED10	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 21	E	ABBIED600:2014
In-RsLED11	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 22	E	ABBIED600:2014
Alm-Colr	ABBIED600_Rev4_ENG_SP_LedColor_e	Alarm co-lour	E	ABBIED600:2014

5.2.6 LN: LEDGGIO3 Name: GGIO (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Alm1	ABBIED600_Rev1_SPS_simple	Alarm in-put for LED 23		

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Alm2	ABBIED600_Rev1_SPS_simple	Alarm input for LED 24		
Alm3	ABBIED600_Rev1_SPS_simple	Alarm input for LED 25		
Alm4	ABBIED600_Rev1_SPS_simple	Alarm input for LED 26		
Alm5	ABBIED600_Rev1_SPS_simple	Alarm input for LED 27		
Alm6	ABBIED600_Rev1_SPS_simple	Alarm input for LED 28		
Alm7	ABBIED600_Rev1_SPS_simple	Alarm input for LED 29		
Alm8	ABBIED600_Rev1_SPS_simple	Alarm input for LED 30		
Alm9	ABBIED600_Rev1_SPS_simple	Alarm input for		

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		LED 31		
Alm10	ABBIED600_Rev1_SPS_simple	Alarm input for LED 32		
Alm11	ABBIED600_Rev1_SPS_simple	Alarm input for LED 33		
Ind1	ABBIED600_Rev1_SPS_simple	Ok input for LED 23		
Ind2	ABBIED600_Rev1_SPS_simple	Ok input for LED 24		
Ind3	ABBIED600_Rev1_SPS_simple	Ok input for LED 25		
Ind4	ABBIED600_Rev1_SPS_simple	Ok input for LED 26		
Ind5	ABBIED600_Rev1_SPS_simple	Ok input for LED 27		
Ind6	ABBIED600_Rev1_SPS_simple	Ok input for LED 28		
Ind7	ABBIED600_Rev1_SPS_simple	Ok input		

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		for LED 29		
Ind8	ABBIED600_Rev1_SPS_simple	Ok input for LED 30		
Ind9	ABBIED600_Rev1_SPS_simple	Ok input for LED 31		
Ind10	ABBIED600_Rev1_SPS_simple	Ok input for LED 32		
Ind11	ABBIED600_Rev1_SPS_simple	Ok input for LED 33		
LEDSt1	ABBIED600_Rev6_ENC_control_led_e	LED 23	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt2	ABBIED600_Rev6_ENC_control_led_e	LED 24	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt3	ABBIED600_Rev6_ENC_control_led_e	LED 25	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt4	ABBIED600_Rev6_ENC_control_led_e	LED 26	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt5	ABBIED600_Rev6_ENC_control_led_e	LED 27	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt6	ABBIED600_Rev6_ENC_control_led_e	LED 28	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt7	ABBIED600_Rev6_ENC_control_led_e	LED 29	E	ABBIED600:2014,status-only,direct-with-normal-security

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LEDSt8	ABBIED600_Rev6_ENC_control_led_e	LED 30	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt9	ABBIED600_Rev6_ENC_control_led_e	LED 31	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt10	ABBIED600_Rev6_ENC_control_led_e	LED 32	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt11	ABBIED600_Rev6_ENC_control_led_e	LED 33	E	ABBIED600:2014,status-only,direct-with-normal-security
LED-Seq1	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq2	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq3	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq4	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq5	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq6	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq7	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq8	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq9	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq10	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014

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LED-Seq11	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
In-RsLED1	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 23	E	ABBIED600:2014
In-RsLED2	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 24	E	ABBIED600:2014
In-RsLED3	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 25	E	ABBIED600:2014
In-RsLED4	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 26	E	ABBIED600:2014
In-RsLED5	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 27	E	ABBIED600:2014
In-RsLED6	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 28	E	ABBIED600:2014
In-RsLED7	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 29	E	ABBIED600:2014
In-RsLED8	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 30	E	ABBIED600:2014
In-RsLED9	ABBIED600_Rev1_SPS_simple_e	Reset input for	E	ABBIED600:2014

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		LED 31		
In-RsLED10	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 32	E	ABBIED600:2014
In-RsLED11	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 33	E	ABBIED600:2014
Alm-Colr	ABBIED600_Rev4_ENG_SP_LedColor_e	Alarm co-lour	E	ABBIED600:2014

5.2.7 LN: LEDGGIO4 Name: GGIO (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Alm1	ABBIED600_Rev1_SPS_simple	Alarm in-put for LED 34		
Alm2	ABBIED600_Rev1_SPS_simple	Alarm in-put for LED 35		
Alm3	ABBIED600_Rev1_SPS_simple	Alarm in-put for LED 36		

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Alm4	ABBIED600_Rev1_SPS_simple	Alarm input for LED 37		
Alm5	ABBIED600_Rev1_SPS_simple	Alarm input for LED 38		
Alm6	ABBIED600_Rev1_SPS_simple	Alarm input for LED 39		
Alm7	ABBIED600_Rev1_SPS_simple	Alarm input for LED 40		
Alm8	ABBIED600_Rev1_SPS_simple	Alarm input for LED 41		
Alm9	ABBIED600_Rev1_SPS_simple	Alarm input for LED 42		
Alm10	ABBIED600_Rev1_SPS_simple	Alarm input for LED 43		
Alm11	ABBIED600_Rev1_SPS_simple	Alarm input for		

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		LED 44		
Ind1	ABBIED600_Rev1_SPS_simple	Ok input for LED 34		
Ind2	ABBIED600_Rev1_SPS_simple	Ok input for LED 35		
Ind3	ABBIED600_Rev1_SPS_simple	Ok input for LED 36		
Ind4	ABBIED600_Rev1_SPS_simple	Ok input for LED 37		
Ind5	ABBIED600_Rev1_SPS_simple	Ok input for LED 38		
Ind6	ABBIED600_Rev1_SPS_simple	Ok input for LED 39		
Ind7	ABBIED600_Rev1_SPS_simple	Ok input for LED 40		
Ind8	ABBIED600_Rev1_SPS_simple	Ok input for LED 41		
Ind9	ABBIED600_Rev1_SPS_simple	Ok input for		

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		LED 42		
Ind10	ABBIED600_Rev1_SPS_simple	Ok input for LED 43		
Ind11	ABBIED600_Rev1_SPS_simple	Ok input for LED 44		
LEDSt1	ABBIED600_Rev6_ENC_control_led_e	LED 34	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt2	ABBIED600_Rev6_ENC_control_led_e	LED 35	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt3	ABBIED600_Rev6_ENC_control_led_e	LED 36	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt4	ABBIED600_Rev6_ENC_control_led_e	LED 37	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt5	ABBIED600_Rev6_ENC_control_led_e	LED 38	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt6	ABBIED600_Rev6_ENC_control_led_e	LED 39	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt7	ABBIED600_Rev6_ENC_control_led_e	LED 40	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt8	ABBIED600_Rev6_ENC_control_led_e	LED 41	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt9	ABBIED600_Rev6_ENC_control_led_e	LED 42	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt10	ABBIED600_Rev6_ENC_control_led_e	LED 43	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt11	ABBIED600_Rev6_ENC_control_led_e	LED 44	E	ABBIED600:2014,status-only,direct-with-normal-security

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LED-Seq1	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq2	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq3	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq4	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq5	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq6	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq7	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq8	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq9	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq10	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq11	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
In-RsLED1	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 34	E	ABBIED600:2014
In-RsLED2	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 35	E	ABBIED600:2014
In-RsLED3	ABBIED600_Rev1_SPS_simple_e	Reset input	E	ABBIED600:2014

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		for LED 36		
In-RsLED4	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 37	E	ABBIED600:2014
In-RsLED5	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 38	E	ABBIED600:2014
In-RsLED6	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 39	E	ABBIED600:2014
In-RsLED7	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 40	E	ABBIED600:2014
In-RsLED8	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 41	E	ABBIED600:2014
In-RsLED9	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 42	E	ABBIED600:2014
In-RsLED10	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 43	E	ABBIED600:2014
In-RsLED11	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 44	E	ABBIED600:2014
Alm-Colr	ABBIED600_Rev4_ENG_SP_LedColor_e	Alarm	E	ABBIED600:2014

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		co-lour		

5.2.8 LN: LEDGGIO5 Name: GGIO (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mod e		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Alm1	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 45		
Alm2	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 46		
Alm3	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 47		
Alm4	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 48		
Alm5	ABBIED600_Rev1_SPS_simple	Alar m in-put for LED 49		
Alm6	ABBIED600_Rev1_SPS_simple	Alar m		

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		input for LED 50		
Alm7	ABBIED600_Rev1_SPS_simple	Alarm input for LED 51		
Alm8	ABBIED600_Rev1_SPS_simple	Alarm input for LED 52		
Alm9	ABBIED600_Rev1_SPS_simple	Alarm input for LED 53		
Alm10	ABBIED600_Rev1_SPS_simple	Alarm input for LED 54		
Alm11	ABBIED600_Rev1_SPS_simple	Alarm input for LED 55		
Ind1	ABBIED600_Rev1_SPS_simple	Ok input for LED 45		
Ind2	ABBIED600_Rev1_SPS_simple	Ok input for LED 46		
Ind3	ABBIED600_Rev1_SPS_simple	Ok input		

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		for LED 47		
Ind4	ABBIED600_Rev1_SPS_simple	Ok input for LED 48		
Ind5	ABBIED600_Rev1_SPS_simple	Ok input for LED 49		
Ind6	ABBIED600_Rev1_SPS_simple	Ok input for LED 50		
Ind7	ABBIED600_Rev1_SPS_simple	Ok input for LED 51		
Ind8	ABBIED600_Rev1_SPS_simple	Ok input for LED 52		
Ind9	ABBIED600_Rev1_SPS_simple	Ok input for LED 53		
Ind10	ABBIED600_Rev1_SPS_simple	Ok input for LED 54		
Ind11	ABBIED600_Rev1_SPS_simple	Ok input for LED 55		
LEDSt1	ABBIED600_Rev6_ENC_control_led_e	LED 45	E	ABBIED600:2014,status-only,direct-with-normal-security

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LEDSt2	ABBIED600_Rev6_ENC_control_led_e	LED 46	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt3	ABBIED600_Rev6_ENC_control_led_e	LED 47	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt4	ABBIED600_Rev6_ENC_control_led_e	LED 48	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt5	ABBIED600_Rev6_ENC_control_led_e	LED 49	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt6	ABBIED600_Rev6_ENC_control_led_e	LED 50	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt7	ABBIED600_Rev6_ENC_control_led_e	LED 51	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt8	ABBIED600_Rev6_ENC_control_led_e	LED 52	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt9	ABBIED600_Rev6_ENC_control_led_e	LED 53	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt10	ABBIED600_Rev6_ENC_control_led_e	LED 54	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt11	ABBIED600_Rev6_ENC_control_led_e	LED 55	E	ABBIED600:2014,status-only,direct-with-normal-security
LED-Seq1	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq2	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq3	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq4	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014

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LED-Seq5	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq6	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq7	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq8	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq9	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq10	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq11	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
In-RsLED1	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 45	E	ABBIED600:2014
In-RsLED2	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 46	E	ABBIED600:2014
In-RsLED3	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 47	E	ABBIED600:2014
In-RsLED4	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 48	E	ABBIED600:2014
In-RsLED5	ABBIED600_Rev1_SPS_simple_e	Reset input for	E	ABBIED600:2014

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		LED 49		
In-RsLED6	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 50	E	ABBIED600:2014
In-RsLED7	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 51	E	ABBIED600:2014
In-RsLED8	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 52	E	ABBIED600:2014
In-RsLED9	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 53	E	ABBIED600:2014
In-RsLED10	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 54	E	ABBIED600:2014
In-RsLED11	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 55	E	ABBIED600:2014
Alm-Colr	ABBIED600_Rev4_ENG_SP_LedColor_e	Alarm co-lour	E	ABBIED600:2014

5.2.9 LN: LEDGGIO6 Name: GGIO (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Alm1	ABBIED600_Rev1_SPS_simple	Alarm input for LED 56		
Alm2	ABBIED600_Rev1_SPS_simple	Alarm input for LED 57		
Alm3	ABBIED600_Rev1_SPS_simple	Alarm input for LED 58		
Alm4	ABBIED600_Rev1_SPS_simple	Alarm input for LED 59		
Alm5	ABBIED600_Rev1_SPS_simple	Alarm input for LED 60		
Alm6	ABBIED600_Rev1_SPS_simple	Alarm input for LED 61		
Alm7	ABBIED600_Rev1_SPS_simple	Alarm input for LED 62		

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Alm8	ABBIED600_Rev1_SPS_simple	Alarm input for LED 63		
Alm9	ABBIED600_Rev1_SPS_simple	Alarm input for LED 64		
Alm10	ABBIED600_Rev1_SPS_simple	Alarm input for LED 65		
Alm11	ABBIED600_Rev1_SPS_simple	Alarm input for LED 66		
Ind1	ABBIED600_Rev1_SPS_simple	Ok input for LED 56		
Ind2	ABBIED600_Rev1_SPS_simple	Ok input for LED 57		
Ind3	ABBIED600_Rev1_SPS_simple	Ok input for LED 58		
Ind4	ABBIED600_Rev1_SPS_simple	Ok input for LED 59		
Ind5	ABBIED600_Rev1_SPS_simple	Ok input		

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		for LED 60		
Ind6	ABBIED600_Rev1_SPS_simple	Ok input for LED 61		
Ind7	ABBIED600_Rev1_SPS_simple	Ok input for LED 62		
Ind8	ABBIED600_Rev1_SPS_simple	Ok input for LED 63		
Ind9	ABBIED600_Rev1_SPS_simple	Ok input for LED 64		
Ind10	ABBIED600_Rev1_SPS_simple	Ok input for LED 65		
Ind11	ABBIED600_Rev1_SPS_simple	Ok input for LED 66		
LEDSt1	ABBIED600_Rev6_ENC_control_led_e	LED 56	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt2	ABBIED600_Rev6_ENC_control_led_e	LED 57	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt3	ABBIED600_Rev6_ENC_control_led_e	LED 58	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt4	ABBIED600_Rev6_ENC_control_led_e	LED 59	E	ABBIED600:2014,status-only,direct-with-normal-security

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LEDSt5	ABBIED600_Rev6_ENC_control_led_e	LED 60	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt6	ABBIED600_Rev6_ENC_control_led_e	LED 61	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt7	ABBIED600_Rev6_ENC_control_led_e	LED 62	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt8	ABBIED600_Rev6_ENC_control_led_e	LED 63	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt9	ABBIED600_Rev6_ENC_control_led_e	LED 64	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt10	ABBIED600_Rev6_ENC_control_led_e	LED 65	E	ABBIED600:2014,status-only,direct-with-normal-security
LEDSt11	ABBIED600_Rev6_ENC_control_led_e	LED 66	E	ABBIED600:2014,status-only,direct-with-normal-security
LED-Seq1	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq2	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq3	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq4	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq5	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq6	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq7	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014

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LED-Seq8	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq9	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq10	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
LED-Seq11	ABBIED600_Rev4_ENG_SP_LedMode_e	Alarm mode	E	ABBIED600:2014
In-RsLED1	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 56	E	ABBIED600:2014
In-RsLED2	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 57	E	ABBIED600:2014
In-RsLED3	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 58	E	ABBIED600:2014
In-RsLED4	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 59	E	ABBIED600:2014
In-RsLED5	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 60	E	ABBIED600:2014
In-RsLED6	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 61	E	ABBIED600:2014
In-RsLED7	ABBIED600_Rev1_SPS_simple_e	Reset input for	E	ABBIED600:2014

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		LED 62		
In-RsLED8	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 63	E	ABBIED600:2014
In-RsLED9	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 64	E	ABBIED600:2014
In-RsLED10	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 65	E	ABBIED600:2014
In-RsLED11	ABBIED600_Rev1_SPS_simple_e	Reset input for LED 66	E	ABBIED600:2014
Alm-Colr	ABBIED600_Rev4_ENG_SP_LedColor_e	Alarm co-lour	E	ABBIED600:2014

5.2.10 LN: EIHMI1 Name: IHMI (ED2)

Attri-bute name	Attribute type	Expla-nation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ho-meBtnInd	ABBIED600_Rev1_SPS_simple_e	EIHMI HOME Button indica-tor	E	ABBIED600:2014
Wkup	ABBIED600_Rev1_SPS_simple_e	EIHMI wa-keup	E	ABBIED600:2014
Card-Nam	ABBIED600_Rev3_DPL_eeprom_EIHMI_ED2_e	HMI infor-mation	E	ABBIED600:2014

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LgtBri	ABBIED600_Rev2_ING_SP_1_e	HMI backlight brightness (1-100)	E	ABBIED600:2014
EnaUSB	ABBIED600_Rev2_SPG_SP_e	Enable or disable HMI's USB port	E	ABBIED600:2014
ActHMI	ABBIED600_Rev3_SPS_dU_e	HMI and relay connection status	E	ABBIED600:2014
HwId	ABBIED600_Rev1_VSS_1_20_e	HW module	E	ABBIED600:2014
TestStaId	ABBIED600_Rev1_VSS_dU_20_e	Testing	E	ABBIED600:2014
IPAddr1	ABBIED600_Rev3_VSG_1_20_e	HMI service port IP address	E	ABBIED600:2014
IPAddr2	ABBIED600_Rev3_VSG_1_20_e	HMI main unit port IP address	E	ABBIED600:2014
ApplRevHMI	ABBIED600_Rev3_VSG_1_20_e	HMI application version	E	ABBIED600:2014
SwrRevHMI	ABBIED600_Rev3_VSG_1_20_e	HMI firmware version	E	ABBIED600:2014
Mac1	ABBIED600_Rev3_VSG_1_20_e	HMI service port	E	ABBIED600:2014

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		MAC address		
Mac2	ABBIED600_Rev3_VSG_1_20_e	HMI main unit port MAC address	E	ABBIED600:2014
WkupInd	ABBIED600_Rev1_SPS_simple_e	Indication for HMI wakeup	E	ABBIED600:2014
EnaEth1	ABBIED600_Rev2_SPG_SP_e	Enable or disable HMI's service ethernet port	E	ABBIED600:2014
AlmAckInd	ABBIED600_Rev1_SPS_e	Signal to indicate alarms were acknowledged	E	ABBIED600:2014
AlmAck	ABBIED600_Rev2_SPC_simple_e	Acknowledge alarms	E	ABBIED600:2014,status-only

5.2.11 LN: GNRLLTMS1 Name: LTMS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TmAcc	ABBIED600_Rev1_INS	Number of significant		

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		bits in the Fraction Of Second in the time accuracy part of the time stamp.		
TmSrc	ABBIED600_Rev1_VSS_1_64	Current time source		
TmSyn	ABBIED600_Rev2_ENS_TmSyn	Time synchronized according to IEC 61850-9-2		
TmChSt1	ABBIED600_Rev1_SPS	Time channel status (up/down)		
TmSrcSel1	ABBIED600_Rev8_ENG_SP_SyncSrc_e	Time source setting	E	ABBIED600:2014
TmSrcSt	ABBIED600_Rev4_ENS_TmSrc_e	Current time source	E	ABBIED600:2014
DomId	ABBIED600_Rev2_ING_SP_1_e	The domain is identified by an integer, the domainNumber, in the range of 0 to 255.	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007

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ExtClk-Mstr	ABBIED600_Rev1_SPS_e	External Clock Master	E	ABBIED600:2014
PTPT-mSrc	ABBIED600_Rev2_ENS_PTPTmSrc_e	Grand-Master ti-meSource enum accor-ding to PTPv2	E	ABBIED600:2014
PTPClkAcc	ABBIED600_Rev2_ENS_PTPClkAcc_e	Grand-master clockAc-curacy enum ac-cording to PTPv2	E	ABBIED600:2014
LocClkAcc	ABBIED600_Rev1_INS_e	Local clock ac-curacy (master + IED synch accu-racy)[us]	E	ABBIED600:2014
MaxDe-vAcc	ABBIED600_Rev1_INS_e	Maxi-mum de-viation of the Local synch accuracy [us]	E	ABBIED600:2014
PTPPrio1	ABBIED600_Rev2_ING_SP_1_e	PTP priority 1, in the range of 0 to 255.	E	ABBIED600:2014
PTPPrio2	ABBIED600_Rev2_ING_SP_1_e	PTP priority 2, in the range of 0 to 255.	E	ABBIED600:2014
MstrId	ABBIED600_Rev3_VSG_1_20_e	Grand-master Identity	E	ABBIED600:2014

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		octet string according to PTPv2		
IPAddrSNTP1	ABBIED600_Rev4_VSG_2_20_e	IP address for SNTP primary server	E	ABBIED600:2014
IPAddrSNTP2	ABBIED600_Rev4_VSG_2_20_e	IP address for SNTP secondary server	E	ABBIED600:2014
ClrStoClk	ABBIED600_Rev3_SPC_control_e	Clear master clock list	E	REx615:2014,status-only,direct-with-normal-security
TmSrcTmm	ABBIED600_Rev2_ING_SP_1_e	Time synchronization timeout for legacy protocols as clock source (Modbus, IEC103, IEC101, IEC104 and DNP)	E	ABBIED600:2014
PTPProf	ABBIED600_Rev1_ENG_PTPProf_e	Profile Selection for the Precision Time Protocol	E	ABBIED600:2014
TmSrcTyp	ABBIED600_Rev1_ENS_TmSrcTyp	Time Source Type		

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5.2.12 LN: GNRLLTIM1 Name: LTIM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TmDT	ABBIED600_Rev1_SPS	Indicating if DST is in effect		
TmOfsTmm	ABBIED600_Rev2_ING_SP_1	Offset of local time from UTC in minutes		
TmUseDT	ABBIED600_Rev2_SPG_SP	DST in use setting		
TmChgDT	ABBIED600_Rev6_TSG_SP_setCal	Local time of next change to daylight saving time		
TmChgST	ABBIED600_Rev6_TSG_SP_setCal	Local time of next change to standard time		
TmSys	ABBIED600_Rev4_VSG_2_20_e	System time	E	ABBIED600:2014
DateSys	ABBIED600_Rev4_VSG_2_20_e	System date	E	ABBIED600:2014
TmOfsDT	ABBIED600_Rev2_ING_SP_1_e	Daylight saving time offset	E	ABBIED600:2014

5.2.13 LN: HMILCCH1 Name: LCCH (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Physical Channel behavior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	ABBIED600:2014

5.2.14 LN: RCHLCCH1 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Physical Channel behavior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status of port A		
RedChLiv	ABBIED600_Rev1_SPS	Physical channel status of port B		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status of port A	E	ABBIED600:2014
RedLnkLiv	ABBIED600_Rev1_SPS_e	Link status of port B	E	ABBIED600:2014
RedCfg	ABBIED600_Rev2_ENG_SP_ChRedKind_e	Redundant mode	E	REx615:2014

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GoBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Goose rate limit (Mbps)	E	REx615:2014
MsvBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Sampled measured values rate limit (Mbps)	E	REx615:2014
DftBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Default rate limit (Mbps)	E	REx615:2014
Go-LimCnt	ABBIED600_Rev1_INS_e	Goose rate limit exceed count	E	REx615:2014
MsvLimCnt	ABBIED600_Rev1_INS_e	Sampled measured values rate limit exceed count	E	REx615:2014
ULimCnt	ABBIED600_Rev1_INS_e	Unicast rate limit exceed count	E	REx615:2014
Dft-LimCnt	ABBIED600_Rev1_INS_e	Default rate	E	REx615:2014

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		limit ex-ceed count		
GoLi-mAlm	ABBIED600_Rev1_SPS_e	Goos e rate limit ex-ceed alarm	E	REx615:2014
MsvLi-mAlm	ABBIED600_Rev1_SPS_e	Smv rate limit ex-ceed alarm	E	REx615:2014
ULi-mAlm	ABBIED600_Rev1_SPS_e	Unica st rate limit ex-ceed alarm	E	REx615:2014
DftLi-mAlm	ABBIED600_Rev1_SPS_e	De-fault rate limit ex-ceed alarm	E	REx615:2014
FilMod	ABBIED600_Rev5_ENG_SP_EthFil Mod_e	Ether-net filter mode	E	REx615:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset coun-ters	E	ABBIED600:2014,st atus-only,direct-with-normal-security

5.2.15 LN: SCHLCCH1 Name: LCCH (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Physical Channel beha-vior		

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ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	ABBIED600:2014
PortMod	ABBIED600_Rev5_ENG_SP_EthPortMod_e	Ethernet port mode	E	ABBIED600:2014
GoBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Goose rate limit (Mbps)	E	REx615:2014
MsvBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Sampled measured values rate limit (Mbps)	E	REx615:2014
DftBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Default rate limit(Mbps)	E	REx615:2014
Go-LimCnt	ABBIED600_Rev1_INS_e	Goose rate limit exceed count	E	REx615:2014
MsvLimCnt	ABBIED600_Rev1_INS_e	Sampled measured values rate limit exceed count	E	REx615:2014
ULimCnt	ABBIED600_Rev1_INS_e	Unicast rate limit exceed count	E	REx615:2014
Dft-LimCnt	ABBIED600_Rev1_INS_e	Default rate limit exceed count	E	REx615:2014

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GoLi-mAlm	ABBIED600_Rev1_SPS_e	Goose rate limit exceed alarm	E	REx615:2014
MsvLi-mAlm	ABBIED600_Rev1_SPS_e	Smv rate limit exceed alarm	E	REx615:2014
ULi-mAlm	ABBIED600_Rev1_SPS_e	Unicast rate limit exceed alarm	E	REx615:2014
DftLi-mAlm	ABBIED600_Rev1_SPS_e	Default rate limit exceed alarm	E	REx615:2014
FilMod	ABBIED600_Rev5_ENG_SP_EthFilMod_e	Ethernet filter mode	E	REx615:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset counters	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.16 LN: SCHLCCH2 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Physical Channel behavior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	ABBIED600:2014
PortMod	ABBIED600_Rev5_ENG_SP_EthPortMod_e	Ethernet port mode	E	ABBIED600:2014

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GoBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Goose rate limit (Mbps)	E	REx615:2014
MsvBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Sampled measured values rate limit (Mbps)	E	REx615:2014
DftBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Default rate limit(Mbps)	E	REx615:2014
Go-LimCnt	ABBIED600_Rev1_INS_e	Goose rate limit exceed count	E	REx615:2014
MsvLim Cnt	ABBIED600_Rev1_INS_e	Sampled measured values rate limit exceed count	E	REx615:2014
ULimCnt	ABBIED600_Rev1_INS_e	Unicast rate limit exceed count	E	REx615:2014
Dft-LimCnt	ABBIED600_Rev1_INS_e	Default rate limit exceed count	E	REx615:2014
GoLi-mAlm	ABBIED600_Rev1_SPS_e	Goose rate limit exceed alarm	E	REx615:2014
MsvLi-mAlm	ABBIED600_Rev1_SPS_e	Smv rate limit	E	REx615:2014

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		exceed alarm		
ULimAlm	ABBIED600_Rev1_SPS_e	Unicast rate limit exceed alarm	E	REx615:2014
DftLimAlm	ABBIED600_Rev1_SPS_e	Default rate limit exceed alarm	E	REx615:2014
FilMod	ABBIED600_Rev5_ENG_SP_EthFilMod_e	Ethernet filter mode	E	REx615:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset counters	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.17 LN: SCHLCCH3 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Physical Channel behavior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	ABBIED600:2014
PortMod	ABBIED600_Rev5_ENG_SP_EthPortMod_e	Ethernet port mode	E	ABBIED600:2014
GoBndWid	ABBIED600_Rev4_ASG_SP_f_e	Goose rate limit (Mbps)	E	REx615:2014
MsvBndWid	ABBIED600_Rev4_ASG_SP_f_e	Sampled measured values rate	E	REx615:2014

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		limit (Mbps)		
DftBnd-Wid	ABBIED600_Rev4_ASG_SP_f_e	Default rate limit(Mbps)	E	REx615:2014
Go-LimCnt	ABBIED600_Rev1_INS_e	Goose rate limit exceed count	E	REx615:2014
MsvLimCnt	ABBIED600_Rev1_INS_e	Sampled measured values rate limit exceed count	E	REx615:2014
ULimCnt	ABBIED600_Rev1_INS_e	Unicast rate limit exceed count	E	REx615:2014
Dft-LimCnt	ABBIED600_Rev1_INS_e	Default rate limit exceed count	E	REx615:2014
GoLi-mAlm	ABBIED600_Rev1_SPS_e	Goose rate limit exceed alarm	E	REx615:2014
MsvLi-mAlm	ABBIED600_Rev1_SPS_e	Smv rate limit exceed alarm	E	REx615:2014
ULi-mAlm	ABBIED600_Rev1_SPS_e	Unicast rate limit exceed alarm	E	REx615:2014
DftLi-mAlm	ABBIED600_Rev1_SPS_e	Default rate	E	REx615:2014

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		limit exceed alarm		
FilMod	ABBIED600_Rev5_ENG_SP_EthFilMod_e	Ethernet filter mode	E	REx615:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset counters	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.18 LN: SCHLCCH6 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Physical Channel behavior		
ChLiv	ABBIED600_Rev1_SPS	Physical channel status		
LnkLiv	ABBIED600_Rev1_SPS_e	Link status	E	ABBIED600:2014
PrtTmp1	ABBIED600_Rev7_MV_simple_i_e	XCVR temperature	E	REx615:2014
PrtVol1	ABBIED600_Rev7_MV_simple_i_e	XCVR voltage	E	REx615:2014
BiasAmp1	ABBIED600_Rev7_MV_simple_i_e	XCVR TX bias current	E	REx615:2014
MeasTxPwr1	ABBIED600_Rev7_MV_simple_i_e	XCVR TX power	E	REx615:2014

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MeasRxPwr1	ABBIED600_Rev7_MV_simple_i_e	XCVR RX power	E	REx615:2014
XCVRDetSt1	ABBIED600_Rev1_SPS_e	XCVR detected	E	REx615:2014
RxPwrAlm1	ABBIED600_Rev1_SPS_e	XCVR RX power alarm	E	REx615:2014
TxPwrAlm1	ABBIED600_Rev1_SPS_e	XCVR TX power alarm	E	REx615:2014
PrtVolAlm1	ABBIED600_Rev1_SPS_e	XCVR voltage alarm	E	REx615:2014
PrtTmpAlm1	ABBIED600_Rev1_SPS_e	XCVR temperature alarm	E	REx615:2014
PrtNam1	ABBIED600_Rev1_VSS_1_20_e	Part name	E	REx615:2014

5.2.19 LN: SERLCCH1 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	SERLCCH1 on/off		
FibMod	ABBIED600_Rev4_ENG_SP_FibMod_e	Fiber mode for COM1	E	ABBIED600:2014
SerMod	ABBIED600_Rev3_ENG_SP_SerMod_e	Serial mode for COM1	E	ABBIED600:2014
CTSDlTmms	ABBIED600_Rev2_ING_SP_1_e	CTS delay for COM1	E	ABBIED600:2014
RTS-DlTmms	ABBIED600_Rev2_ING_SP_1_e	RTS delay for COM1	E	ABBIED600:2014

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SerBaud-Rte	ABBIED600_Rev2_ENG_SP_BaudRate_e	Baudrate for COM1	E	ABBIED600:2014
CharRxCnt	ABBIED600_Rev1_INS_e	Number of characters received	E	ABBIED600:2014
FrRxCnt	ABBIED600_Rev1_INS_e	Number of successfully received link frames	E	ABBIED600:2014
RxErrCnt	ABBIED600_Rev1_INS_e	Number of discarded link frames	E	ABBIED600:2014
FrTxCnt	ABBIED600_Rev1_INS_e	Number of transmitted link frames	E	ABBIED600:2014
CDLosCnt	ABBIED600_Rev1_INS_e	CD lost	E	ABBIED600:2014
CollCnt	ABBIED600_Rev1_INS_e	Collision	E	ABBIED600:2014
CTST-mOut	ABBIED600_Rev1_INS_e	CTS timeout	E	ABBIED600:2014
TxT-mOutCnt	ABBIED600_Rev1_INS_e	Transmission timeout	E	ABBIED600:2014
PtyErrCnt	ABBIED600_Rev1_INS_e	Number of parity errors	E	ABBIED600:2014
OvRunErr	ABBIED600_Rev1_INS_e	Number of overrun errors	E	ABBIED600:2014
FrErrCnt	ABBIED600_Rev1_INS_e	Framing errors	E	ABBIED600:2014
ChLiv	ABBIED600_Rev1_SPS_simple	Channel Live		
LnkLiv	ABBIED600_Rev1_SPS_simple_e	Link Live	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset Counters	E	ABBIED600:2014,status-only,direct-

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				with-normal-security

5.2.20 LN: SERLCCH2 Name: LCCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	SERLCCH2 on/off		
FibMod	ABBIED600_Rev4_ENG_SP_FibMod_e	Fiber mode for COM2	E	ABBIED600:2014
SerMod	ABBIED600_Rev3_ENG_SP_SerMod_e	Serial mode for COM2	E	ABBIED600:2014
CTSDlTmms	ABBIED600_Rev2_ING_SP_1_e	CTS delay for COM2	E	ABBIED600:2014
RTS-DlTmms	ABBIED600_Rev2_ING_SP_1_e	RTS delay for COM2	E	ABBIED600:2014
SerBaud-Rte	ABBIED600_Rev2_ENG_SP_BaudRate_e	Baudrate for COM2	E	ABBIED600:2014
CharRxCnt	ABBIED600_Rev1_INS_e	Number of characters received	E	ABBIED600:2014
FrRxCnt	ABBIED600_Rev1_INS_e	Number of successfully received link frames	E	ABBIED600:2014
RxErrCnt	ABBIED600_Rev1_INS_e	Number of discarded link frames	E	ABBIED600:2014
FrTxCnt	ABBIED600_Rev1_INS_e	Number of transmitted link frames	E	ABBIED600:2014
CDLosCnt	ABBIED600_Rev1_INS_e	CD lost	E	ABBIED600:2014

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CollCnt	ABBIED600_Rev1_INS_e	Collision	E	ABBIED600:2014
CTST-mOut	ABBIED600_Rev1_INS_e	CTS ti-meout	E	ABBIED600:2014
TxT-mOutCnt	ABBIED600_Rev1_INS_e	Trans-mission timeout	E	ABBIED600:2014
PtyErrCnt	ABBIED600_Rev1_INS_e	Number of parity errors	E	ABBIED600:2014
OvRunErr	ABBIED600_Rev1_INS_e	Number of over-run errors	E	ABBIED600:2014
FrErrCnt	ABBIED600_Rev1_INS_e	Framing errors	E	ABBIED600:2014
ChLiv	ABBIED600_Rev1_SPS_simple	Channel Live		
LnkLiv	ABBIED600_Rev1_SPS_simple_e	Link Live	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset Counters	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity

5.2.21 LN: TCSSCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Ex-pla-nati on	M/O /E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viou r		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary		

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		outputs		
OpDlTmms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Reset Delay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub10_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

5.2.22 LN: TCSSCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block		

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		signal for all binary outputs		
OpDlTmms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Reset Delay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub10_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

5.2.23 LN: TCSSCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
OpDlTmms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Operate De-lay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Re-set De-lay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub10_e	Test control for out-puts	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

5.2.24 LN: TCSSCBR4 Name: SCBR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDlTmms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Reset Delay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub10_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of		

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		trip coil		

5.2.25 LN: TCSSCBR5 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDlTms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Reset Delay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub10_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security

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ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

5.2.26 LN: TCSSCBR6 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpDlTms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTms	ABBIED600_Rev2_ING_SP_minVal_stepSize_retain_e	Reset Delay Time	E	IEC 61850-7-4:2007
CircAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014

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TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub10_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

5.2.27 LN: TPGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev2_ING_SP_1_e	Minimum pulse time	E	ABBIED600:2014

5.2.28 LN: TPGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev2_ING_SP_1_e	Minimum	E	ABBIED600:2014

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		pulse time		

5.2.29 LN: TPGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev2_ING_SP_1_e	Minimum pulse time	E	ABBIED600:2014

5.2.30 LN: TPGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
PlsTmms	ABBIED600_Rev2_ING_SP_1_e	Minimum pulse time	E	ABBIED600:2014

5.2.31 LN: TPSGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
PlsTms	ABBIED600_Rev2_ING_SP_1_e	Mini-mum pulse time	E	ABBIED600:2014

5.2.32 LN: TPSGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
PlsTms	ABBIED600_Rev2_ING_SP_1_e	Mini-mum pulse time	E	ABBIED600:2014

5.2.33 LN: TPMGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
PlsTmm	ABBIED600_Rev2_ING_SP_1_e	Mini-mum pulse time	E	ABBIED600:2014

5.2.34 LN: TPMGAPC2 Name: GAPC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
PlsTmm	ABBIED600_Rev2_ING_SP_1_e	Minimum pulse time	E	ABBIED600:2014

5.2.35 LN: PTGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only

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SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Dura-tion left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Dura-tion left time 7	E	ABBIED600:2014

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Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Dura-tion left time 8	E	ABBIED600:2014

5.2.36 LN: PTGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014

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PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Dura-tion left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Dura-tion left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Dura-tion left time 8	E	ABBIED600:2014

5.2.37 LN: PTGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		

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Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014

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Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Dura-tion left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Dura-tion left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Dura-tion left time 8	E	ABBIED600:2014

5.2.38 LN: PTGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only

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SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion left time 5	E	ABBIED600:2014

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DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.39 LN: PTGAPC5 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only

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PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Dura-tion left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Dura-tion left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Dura-tion left time 8	E	ABBIED600:2014

5.2.40 LN: PTGAPC6 Name: GAPC (ED2)

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Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014

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PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Dura-tion left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Dura-tion left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Dura-tion left time 8	E	ABBIED600:2014

5.2.41 LN: PTGAPC7 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		

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Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014

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DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.42 LN: PTGAPC8 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only

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SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Dura-tion left time 6	E	ABBIED600:2014

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Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Dura-tion left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Dura-tion left time 8	E	ABBIED600:2014

5.2.43 LN: PTGAPC9 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014

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PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.44 LN: PTGAPC10 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
PlsTmms1	ABBIED600_Rev2_ING_SP_e	Pulse time 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SP_e	Pulse time 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SP_e	Pulse time 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SP_e	Pulse time 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SP_e	Pulse time 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SP_e	Pulse time 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SP_e	Pulse time 7	E	ABBIED600:2014

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PlsTmms8	ABBIED600_Rev2_ING_SP_e	Pulse time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.45 LN: TOFGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		

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Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Out-put 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Out-put 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Out-put 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Out-put 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Out-put 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Out-put 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Out-put 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Out-put 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014

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OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.46 LN: TOFGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Out-put 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Out-put 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Out-put 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Out-put 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Out-put 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Out-put 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Out-put 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Out-put 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014

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OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration	E	ABBIED600:2014

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		left time 8		

5.2.47 LN: TOFGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Out-put 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Out-put 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Out-put 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Out-put 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Out-put 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Out-put 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Out-put 7		status-only

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SPCSO8	ABBIED600_Rev2_SPC_simple	Out-put 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion	E	ABBIED600:2014

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		left time 5		
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.48 LN: TOFGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only

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SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014

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DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.49 LN: TOFGAPC5 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		

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Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014

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OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.50 LN: TOFGAPC6 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014

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OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration	E	ABBIED600:2014

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		left time 8		

5.2.51 LN: TOFGAPC7 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Out-put 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Out-put 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Out-put 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Out-put 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Out-put 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Out-put 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Out-put 7		status-only

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SPCSO8	ABBIED600_Rev2_SPC_simple	Out-put 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Dura-tion left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Dura-tion left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Dura-tion left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Dura-tion left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Dura-tion	E	ABBIED600:2014

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		left time 5		
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.52 LN: TOFGAPC8 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only

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SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014

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DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.53 LN: TOFGAPC9 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		

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Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Output 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Output 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Output 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Output 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Output 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Output 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Output 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Output 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014
OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014

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OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.54 LN: TOFGAPC10 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Out-put 1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Out-put 2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Out-put 3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Out-put 4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Out-put 5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Out-put 6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Out-put 7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Out-put 8		status-only
OffDlTmms1	ABBIED600_Rev2_ING_SP_e	Off delay time 1	E	ABBIED600:2014
OffDlTmms2	ABBIED600_Rev2_ING_SP_e	Off delay time 2	E	ABBIED600:2014
OffDlTmms3	ABBIED600_Rev2_ING_SP_e	Off delay time 3	E	ABBIED600:2014

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OffDlTmms4	ABBIED600_Rev2_ING_SP_e	Off delay time 4	E	ABBIED600:2014
OffDlTmms5	ABBIED600_Rev2_ING_SP_e	Off delay time 5	E	ABBIED600:2014
OffDlTmms6	ABBIED600_Rev2_ING_SP_e	Off delay time 6	E	ABBIED600:2014
OffDlTmms7	ABBIED600_Rev2_ING_SP_e	Off delay time 7	E	ABBIED600:2014
OffDlTmms8	ABBIED600_Rev2_ING_SP_e	Off delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration	E	ABBIED600:2014

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		left time 8		

5.2.55 LN: TONGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
OnDlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
OnDlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014
OnDlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014
OnDlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
OnDlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014

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OnDlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014
OnDlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
OnDlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
DurLeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
DurLeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
DurLeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
DurLeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
DurLeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
DurLeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
DurLeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
DurLeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.56 LN: TONGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		

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Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
On-DlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
On-DlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014
On-DlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014
On-DlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
On-DlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014
On-DlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014
On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014

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Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.57 LN: TONGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only

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SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
On-DlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
On-DlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014
On-DlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014
On-DlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
On-DlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014
On-DlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014
On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014

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Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.58 LN: TONGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
On-DlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
On-DlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014

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On-DlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014
On-DlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
On-DlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014
On-DlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014
On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.59 LN: TONGAPC5 Name: GAPC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
OnDlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
OnDlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014
OnDlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014
OnDlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
OnDlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014
OnDlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014

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On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.60 LN: TONGAPC6 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		

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Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
On-DlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
On-DlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014
On-DlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014
On-DlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
On-DlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014
On-DlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014
On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014

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Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.61 LN: TONGAPC7 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only

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SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
On-DlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
On-DlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014
On-DlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014
On-DlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
On-DlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014
On-DlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014
On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014

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Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.62 LN: TONGAPC8 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
On-DlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
On-DlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014
On-DlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014

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On-DlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
On-DlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014
On-DlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014
On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.63 LN: TONGAPC9 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
On-DlTmms1	ABBIED600_Rev2_ING_SP_e	On de-lay time 1	E	ABBIED600:2014
On-DlTmms2	ABBIED600_Rev2_ING_SP_e	On de-lay time 2	E	ABBIED600:2014
On-DlTmms3	ABBIED600_Rev2_ING_SP_e	On de-lay time 3	E	ABBIED600:2014
On-DlTmms4	ABBIED600_Rev2_ING_SP_e	On de-lay time 4	E	ABBIED600:2014
On-DlTmms5	ABBIED600_Rev2_ING_SP_e	On de-lay time 5	E	ABBIED600:2014
On-DlTmms6	ABBIED600_Rev2_ING_SP_e	On de-lay time 6	E	ABBIED600:2014
On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On de-lay time 7	E	ABBIED600:2014

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On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014
Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.64 LN: TONGAPC10 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		

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Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
On-DlTmms1	ABBIED600_Rev2_ING_SP_e	On delay time 1	E	ABBIED600:2014
On-DlTmms2	ABBIED600_Rev2_ING_SP_e	On delay time 2	E	ABBIED600:2014
On-DlTmms3	ABBIED600_Rev2_ING_SP_e	On delay time 3	E	ABBIED600:2014
On-DlTmms4	ABBIED600_Rev2_ING_SP_e	On delay time 4	E	ABBIED600:2014
On-DlTmms5	ABBIED600_Rev2_ING_SP_e	On delay time 5	E	ABBIED600:2014
On-DlTmms6	ABBIED600_Rev2_ING_SP_e	On delay time 6	E	ABBIED600:2014
On-DlTmms7	ABBIED600_Rev2_ING_SP_e	On delay time 7	E	ABBIED600:2014
On-DlTmms8	ABBIED600_Rev2_ING_SP_e	On delay time 8	E	ABBIED600:2014
Dur-LeftTm1	ABBIED600_Rev7_MV_2_e	Duration left time 1	E	ABBIED600:2014
Dur-LeftTm2	ABBIED600_Rev7_MV_2_e	Duration left time 2	E	ABBIED600:2014
Dur-LeftTm3	ABBIED600_Rev7_MV_2_e	Duration left time 3	E	ABBIED600:2014

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Dur-LeftTm4	ABBIED600_Rev7_MV_2_e	Duration left time 4	E	ABBIED600:2014
Dur-LeftTm5	ABBIED600_Rev7_MV_2_e	Duration left time 5	E	ABBIED600:2014
Dur-LeftTm6	ABBIED600_Rev7_MV_2_e	Duration left time 6	E	ABBIED600:2014
Dur-LeftTm7	ABBIED600_Rev7_MV_2_e	Duration left time 7	E	ABBIED600:2014
Dur-LeftTm8	ABBIED600_Rev7_MV_2_e	Duration left time 8	E	ABBIED600:2014

5.2.65 LN: SRGAPC1 Name: GAPC (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_O n	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	S1		
Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO 1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO 2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO 3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO 4	ABBIED600_Rev2_SPC_simple	Q4		status-only

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SPCSO 5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO 6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO 7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO 8	ABBIED600_Rev2_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev3_SPC_control_e	R1	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev3_SPC_control_e	R2	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev3_SPC_control_e	R3	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev3_SPC_control_e	R4	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev3_SPC_control_e	R5	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev3_SPC_control_e	R6	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev3_SPC_control_e	R7	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev3_SPC_control_e	R8	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.66 LN: SRGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	S1		

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Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO 1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO 2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO 3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO 4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO 5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO 6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO 7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO 8	ABBIED600_Rev2_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev3_SPC_control_e	R1	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev3_SPC_control_e	R2	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev3_SPC_control_e	R3	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev3_SPC_control_e	R4	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev3_SPC_control_e	R5	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev3_SPC_control_e	R6	E	ABBIED600:2014,status-only,direct-with-normal-security

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Rs7	ABBIED600_Rev3_SPC_control_e	R7	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev3_SPC_control_e	R8	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.67 LN: SRGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	S1		
Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only

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Rs1	ABBIED600_Rev3_SPC_control_e	R1	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev3_SPC_control_e	R2	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev3_SPC_control_e	R3	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev3_SPC_control_e	R4	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev3_SPC_control_e	R5	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev3_SPC_control_e	R6	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev3_SPC_control_e	R7	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev3_SPC_control_e	R8	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.68 LN: SRGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	S1		
Ind2	ABBIED600_Rev1_SPS	S2		
Ind3	ABBIED600_Rev1_SPS	S3		
Ind4	ABBIED600_Rev1_SPS	S4		
Ind5	ABBIED600_Rev1_SPS	S5		
Ind6	ABBIED600_Rev1_SPS	S6		
Ind7	ABBIED600_Rev1_SPS	S7		
Ind8	ABBIED600_Rev1_SPS	S8		

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SPCSO 1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO 2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO 3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO 4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO 5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO 6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO 7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO 8	ABBIED600_Rev2_SPC_simple	Q8		status-only
Rs1	ABBIED600_Rev3_SPC_control_e	R1	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs2	ABBIED600_Rev3_SPC_control_e	R2	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs3	ABBIED600_Rev3_SPC_control_e	R3	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs4	ABBIED600_Rev3_SPC_control_e	R4	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs5	ABBIED600_Rev3_SPC_control_e	R5	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs6	ABBIED600_Rev3_SPC_control_e	R6	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs7	ABBIED600_Rev3_SPC_control_e	R7	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs8	ABBIED600_Rev3_SPC_control_e	R8	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.69 LN: SPCGAPC1 Name: GAPC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev7_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev7_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev7_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev7_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev7_SPC_pulse	Output 5		status-only,direct-with-normal-security

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SPCSO6	ABBIED600_Rev7_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev7_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev7_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev7_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev7_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev7_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev7_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev7_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev7_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev7_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev7_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRem-Rst	ABBIED600_Rev2_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

5.2.70 LN: SPCGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev7_SPC_pulse	Output 1		status-only,direct-with-normal-secu-rity
SPCSO2	ABBIED600_Rev7_SPC_pulse	Output 2		status-only,direct-with-normal-secu-rity
SPCSO3	ABBIED600_Rev7_SPC_pulse	Output 3		status-only,direct-with-normal-secu-rity
SPCSO4	ABBIED600_Rev7_SPC_pulse	Output 4		status-only,direct-with-normal-secu-rity
SPCSO5	ABBIED600_Rev7_SPC_pulse	Output 5		status-only,direct-with-normal-secu-rity
SPCSO6	ABBIED600_Rev7_SPC_pulse	Output 6		status-only,direct-with-normal-secu-rity

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SPCSO7	ABBIED600_Rev7_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev7_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev7_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev7_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev7_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev7_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev7_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev7_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev7_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev7_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRem-Rst	ABBIED600_Rev2_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

5.2.71 LN: SPCGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal		

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		for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev7_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev7_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev7_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev7_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev7_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev7_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev7_SPC_pulse	Output 7		status-only,direct-with-normal-security

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SPCSO8	ABBIED600_Rev7_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev7_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev7_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev7_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev7_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev7_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev7_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev7_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev7_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRem-Rst	ABBIED600_Rev2_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

5.2.72 LN: SPCGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

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Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev7_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev7_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev7_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev7_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev7_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev7_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev7_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev7_SPC_pulse	Output 8		status-only,direct-with-normal-security

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SPCSO9	ABBIED600_Rev7_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev7_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev7_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev7_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev7_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev7_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev7_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev7_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRem-Rst	ABBIED600_Rev2_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

5.2.73 LN: SPCGAPC5 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		

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Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev7_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev7_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev7_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev7_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev7_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev7_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev7_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev7_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev7_SPC_pulse	Output 9		status-only,direct-with-normal-security

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SPCSO10	ABBIED600_Rev7_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev7_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev7_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev7_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev7_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev7_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev7_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRem-Rst	ABBIED600_Rev2_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

5.2.74 LN: SPCGAPC6 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		

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Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
Ind9	ABBIED600_Rev1_SPS	IN9		
Ind10	ABBIED600_Rev1_SPS	IN10		
Ind11	ABBIED600_Rev1_SPS	IN11		
Ind12	ABBIED600_Rev1_SPS	IN12		
Ind13	ABBIED600_Rev1_SPS	IN13		
Ind14	ABBIED600_Rev1_SPS	IN14		
Ind15	ABBIED600_Rev1_SPS	IN15		
Ind16	ABBIED600_Rev1_SPS	IN16		
SPCSO1	ABBIED600_Rev7_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev7_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev7_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev7_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev7_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev7_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev7_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev7_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev7_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev7_SPC_pulse	Output 10		status-only,direct-with-normal-security

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SPCSO11	ABBIED600_Rev7_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev7_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev7_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev7_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev7_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev7_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRem-Rst	ABBIED600_Rev2_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

5.2.75 LN: SPCLGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
SPCSO1	ABBIED600_Rev7_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev7_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev7_SPC_pulse	Output 3		status-only,direct-with-normal-security

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SPCSO4	ABBIED600_Rev7_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev7_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev7_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev7_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev7_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev7_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev7_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev7_SPC_pulse	Output 11		status-only,direct-with-normal-security
SPCSO12	ABBIED600_Rev7_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev7_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev7_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev7_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev7_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRem-Rst	ABBIED600_Rev2_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

5.2.76 LN: SPCRGAPC1 Name: GAPC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
SPCSO1	ABBIED600_Rev7_SPC_pulse	Output 1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev7_SPC_pulse	Output 2		status-only,direct-with-normal-security
SPCSO3	ABBIED600_Rev7_SPC_pulse	Output 3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev7_SPC_pulse	Output 4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev7_SPC_pulse	Output 5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev7_SPC_pulse	Output 6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev7_SPC_pulse	Output 7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev7_SPC_pulse	Output 8		status-only,direct-with-normal-security
SPCSO9	ABBIED600_Rev7_SPC_pulse	Output 9		status-only,direct-with-normal-security
SPCSO10	ABBIED600_Rev7_SPC_pulse	Output 10		status-only,direct-with-normal-security
SPCSO11	ABBIED600_Rev7_SPC_pulse	Output 11		status-only,direct-with-normal-security

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SPCSO12	ABBIED600_Rev7_SPC_pulse	Output 12		status-only,direct-with-normal-security
SPCSO13	ABBIED600_Rev7_SPC_pulse	Output 13		status-only,direct-with-normal-security
SPCSO14	ABBIED600_Rev7_SPC_pulse	Output 14		status-only,direct-with-normal-security
SPCSO15	ABBIED600_Rev7_SPC_pulse	Output 15		status-only,direct-with-normal-security
SPCSO16	ABBIED600_Rev7_SPC_pulse	Output 16		status-only,direct-with-normal-security
LocRem-Rst	ABBIED600_Rev2_SPG_SP_e	Loc Rem restriction	E	ABBIED600:2014

5.2.77 LN: SCA4GAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
AnIn1	ABBIED600_Rev7_MV_2_e	Analog input 1	E	IEC 61850-7-4:2007
AnIn2	ABBIED600_Rev7_MV_2_e	Analog input 2	E	IEC 61850-7-4:2007
AnIn3	ABBIED600_Rev7_MV_2_e	Analog input 3	E	IEC 61850-7-4:2007
AnIn4	ABBIED600_Rev7_MV_2_e	Analog input 4	E	IEC 61850-7-4:2007
AnValOut1	ABBIED600_Rev7_MV_2_e	Analog value 1 after scaling	E	ABBIED600:2014
AnValOut2	ABBIED600_Rev7_MV_2_e	Analog value 2 after scaling	E	ABBIED600:2014
AnValOut3	ABBIED600_Rev7_MV_2_e	Analog value 3 after scaling	E	ABBIED600:2014

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AnValOut4	ABBIED600_Rev7_MV_2_e	Analog value 4 after scaling	E	ABBIED600:2014
ScaleAnIn1	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 1	E	ABBIED600:2014
ScaleAnIn2	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 2	E	ABBIED600:2014
ScaleAnIn3	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 3	E	ABBIED600:2014
ScaleAnIn4	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 4	E	ABBIED600:2014

5.2.78 LN: SCA4GAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
AnIn1	ABBIED600_Rev7_MV_2_e	Analog input 1	E	IEC 61850-7-4:2007
AnIn2	ABBIED600_Rev7_MV_2_e	Analog input 2	E	IEC 61850-7-4:2007
AnIn3	ABBIED600_Rev7_MV_2_e	Analog input 3	E	IEC 61850-7-4:2007
AnIn4	ABBIED600_Rev7_MV_2_e	Analog input 4	E	IEC 61850-7-4:2007
AnValOut1	ABBIED600_Rev7_MV_2_e	Analog value 1 after scaling	E	ABBIED600:2014
AnValOut2	ABBIED600_Rev7_MV_2_e	Analog value 2 after scaling	E	ABBIED600:2014
AnValOut3	ABBIED600_Rev7_MV_2_e	Analog value 3 after scaling	E	ABBIED600:2014

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AnValOut4	ABBIED600_Rev7_MV_2_e	Analog value 4 after scaling	E	ABBIED600:2014
ScaleAnIn1	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 1	E	ABBIED600:2014
ScaleAnIn2	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 2	E	ABBIED600:2014
ScaleAnIn3	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 3	E	ABBIED600:2014
ScaleAnIn4	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 4	E	ABBIED600:2014

5.2.79 LN: SCA4GAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
AnIn1	ABBIED600_Rev7_MV_2_e	Analog input 1	E	IEC 61850-7-4:2007
AnIn2	ABBIED600_Rev7_MV_2_e	Analog input 2	E	IEC 61850-7-4:2007
AnIn3	ABBIED600_Rev7_MV_2_e	Analog input 3	E	IEC 61850-7-4:2007
AnIn4	ABBIED600_Rev7_MV_2_e	Analog input 4	E	IEC 61850-7-4:2007
AnValOut1	ABBIED600_Rev7_MV_2_e	Analog value 1 after scaling	E	ABBIED600:2014
AnValOut2	ABBIED600_Rev7_MV_2_e	Analog value 2 after scaling	E	ABBIED600:2014
AnValOut3	ABBIED600_Rev7_MV_2_e	Analog value 3 after scaling	E	ABBIED600:2014

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AnValOut4	ABBIED600_Rev7_MV_2_e	Analog value 4 after scaling	E	ABBIED600:2014
ScaleAnIn1	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 1	E	ABBIED600:2014
ScaleAnIn2	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 2	E	ABBIED600:2014
ScaleAnIn3	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 3	E	ABBIED600:2014
ScaleAnIn4	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 4	E	ABBIED600:2014

5.2.80 LN: SCA4GAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
AnIn1	ABBIED600_Rev7_MV_2_e	Analog input 1	E	IEC 61850-7-4:2007
AnIn2	ABBIED600_Rev7_MV_2_e	Analog input 2	E	IEC 61850-7-4:2007
AnIn3	ABBIED600_Rev7_MV_2_e	Analog input 3	E	IEC 61850-7-4:2007
AnIn4	ABBIED600_Rev7_MV_2_e	Analog input 4	E	IEC 61850-7-4:2007
AnValOut1	ABBIED600_Rev7_MV_2_e	Analog value 1 after scaling	E	ABBIED600:2014
AnValOut2	ABBIED600_Rev7_MV_2_e	Analog value 2 after scaling	E	ABBIED600:2014
AnValOut3	ABBIED600_Rev7_MV_2_e	Analog value 3 after scaling	E	ABBIED600:2014

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AnValOut4	ABBIED600_Rev7_MV_2_e	Analog value 4 after scaling	E	ABBIED600:2014
ScaleAnIn1	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 1	E	ABBIED600:2014
ScaleAnIn2	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 2	E	ABBIED600:2014
ScaleAnIn3	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 3	E	ABBIED600:2014
ScaleAnIn4	ABBIED600_Rev8_ASG_SP_i_e	Scale ratio for analog input value 4	E	ABBIED600:2014

5.2.81 LN: MVI4GAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ISCSO1	ABBIED600_Rev2_INC_simple_int	Integer output value 1		status-only
ISCSO2	ABBIED600_Rev2_INC_simple_int	Integer output value 2		status-only
ISCSO3	ABBIED600_Rev2_INC_simple_int	Integer output value 3		status-only
ISCSO4	ABBIED600_Rev2_INC_simple_int	Integer output value 4		status-only
IntIn1	ABBIED600_Rev1_INS_e	Integer input value 1	E	IEC 61850-7-4:2007
IntIn2	ABBIED600_Rev1_INS_e	Integer input value 2	E	IEC 61850-7-4:2007
IntIn3	ABBIED600_Rev1_INS_e	Integer input value 3	E	IEC 61850-7-4:2007
IntIn4	ABBIED600_Rev1_INS_e	Integer input value 4	E	IEC 61850-7-4:2007

5.2.82 LN: MVI4GAPC2 Name: GAPC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ISCSO1	ABBIED600_Rev2_INC_simple_int	Integer output value 1		status-only
ISCSO2	ABBIED600_Rev2_INC_simple_int	Integer output value 2		status-only
ISCSO3	ABBIED600_Rev2_INC_simple_int	Integer output value 3		status-only
ISCSO4	ABBIED600_Rev2_INC_simple_int	Integer output value 4		status-only
IntIn1	ABBIED600_Rev1_INS_e	Integer input value 1	E	IEC 61850-7-4:2007
IntIn2	ABBIED600_Rev1_INS_e	Integer input value 2	E	IEC 61850-7-4:2007
IntIn3	ABBIED600_Rev1_INS_e	Integer input value 3	E	IEC 61850-7-4:2007
IntIn4	ABBIED600_Rev1_INS_e	Integer input value 4	E	IEC 61850-7-4:2007

5.2.83 LN: MVI4GAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ISCSO1	ABBIED600_Rev2_INC_simple_int	Integer output value 1		status-only
ISCSO2	ABBIED600_Rev2_INC_simple_int	Integer output value 2		status-only
ISCSO3	ABBIED600_Rev2_INC_simple_int	Integer output value 3		status-only
ISCSO4	ABBIED600_Rev2_INC_simple_int	Integer output value 4		status-only
IntIn1	ABBIED600_Rev1_INS_e	Integer input value 1	E	IEC 61850-7-4:2007
IntIn2	ABBIED600_Rev1_INS_e	Integer input value 2	E	IEC 61850-7-4:2007
IntIn3	ABBIED600_Rev1_INS_e	Integer input value 3	E	IEC 61850-7-4:2007

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IntIn4	ABBIED600_Rev1_INS_e	Integer input value 4	E	IEC 61850-7-4:2007

5.2.84 LN: MVI4GAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ISCSO1	ABBIED600_Rev2_INC_simple_int	Integer output value 1		status-only
ISCSO2	ABBIED600_Rev2_INC_simple_int	Integer output value 2		status-only
ISCSO3	ABBIED600_Rev2_INC_simple_int	Integer output value 3		status-only
ISCSO4	ABBIED600_Rev2_INC_simple_int	Integer output value 4		status-only
IntIn1	ABBIED600_Rev1_INS_e	Integer input value 1	E	IEC 61850-7-4:2007
IntIn2	ABBIED600_Rev1_INS_e	Integer input value 2	E	IEC 61850-7-4:2007
IntIn3	ABBIED600_Rev1_INS_e	Integer input value 3	E	IEC 61850-7-4:2007
IntIn4	ABBIED600_Rev1_INS_e	Integer input value 4	E	IEC 61850-7-4:2007

5.2.85 LN: MAPGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Ab-so-lute hys-te-resis for	E	ABBIED600:2014

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		operation		
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.86 LN: MAPGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007

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RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.87 LN: MAPGAPC3 Name: GAPC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpMod Comp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Su b2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / operate time		
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.88 LN: MAPGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014

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StrVa-lAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with ad-ded start value	E	ABBIED600:2014

5.2.89 LN: MAPGAPC5 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007

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AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.90 LN: MAPGAPC6 Name: GAPC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpMod Comp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Su b2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / operate time		
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.91 LN: MAPGAPC7 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014

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StrVa-lAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with ad-ded start value	E	ABBIED600:2014

5.2.92 LN: MAPGAPC8 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007

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AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.93 LN: MAPGAPC9 Name: GAPC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpMod Comp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Su b2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / operate time		
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.94 LN: MAPGAPC10 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014

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StrVa-lAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with ad-ded start value	E	ABBIED600:2014

5.2.95 LN: MAPGAPC11 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007

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AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.96 LN: MAPGAPC12 Name: GAPC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpMod Comp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Su b2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / ope-rate time		
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Ab-so-lute hys-te-resis for ope-ra-tion	E	ABBIED600:2014
StrVa-lAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAd d	ABBIED600_Rev1_SPS_e	Enab le start with ad-ded start value	E	ABBIED600:2014

5.2.97 LN: MAPGAPC13 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary		

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		outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014

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StrVa-lAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with ad-ded start value	E	ABBIED600:2014

5.2.98 LN: MAPGAPC14 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007

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AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.99 LN: MAPGAPC15 Name: GAPC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpMod Comp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Su b2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / operate time		
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.100 LN: MAPGAPC16 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014

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StrVa-lAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with ad-ded start value	E	ABBIED600:2014

5.2.101 LN: MAPGAPC17 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007

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AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.102 LN: MAPGAPC18 Name: GAPC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpMod Comp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Su b2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / operate time		
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.103 LN: MAPGAPC19 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014

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StrVa-lAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with ad-ded start value	E	ABBIED600:2014

5.2.104 LN: MAPGAPC20 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007

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AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.105 LN: MAPGAPC21 Name: GAPC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpMod Comp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Su b2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / operate time		
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.106 LN: MAPGAPC22 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014

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StrVa-lAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with ad-ded start value	E	ABBIED600:2014

5.2.107 LN: MAPGAPC23 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007

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AnIn	ABBIED600_Rev7_MV_2_e	Analogue input	E	IEC 61850-7-4:2007
OpModCmpr	ABBIED600_Rev3_ENG_SP_OpModComp_e	Operation mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.108 LN: MAPGAPC24 Name: GAPC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG_e	Ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTm ms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
AnIn	ABBIED600_Rev7_MV_2_e	Ana-logue input	E	IEC 61850-7-4:2007
OpMod-Cmpr	ABBIED600_Rev3_ENG_SP_OpMod Comp_e	Ope-ra-tion mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Su b2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / operate time		
HysAbs	ABBIED600_Rev8_ASG_SP_i_e	Absolute hysteresis for operation	E	ABBIED600:2014
StrValAdd	ABBIED600_Rev8_ASG_SG_i_e	Start value Add	E	ABBIED600:2014
InEnaAdd	ABBIED600_Rev1_SPS_e	Enable start with added start value	E	ABBIED600:2014

5.2.109 LN: SSCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB operations		

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		exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the CB during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the CB during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	CB open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	CB close travel time exceeded set value		
TmOpnClsAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of CB operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which		

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		the closing operation should complet		
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	ABBIED600:2014
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	ABBIED600:2014
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long time' alarm	E	ABBIED600:2014
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	ABBIED600:2014
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded lockout limit	E	ABBIED600:2014

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RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	ABBIED600:2014
CorOpnTmms	ABBIED600_Rev2_ING_SP_1_e	Correction factor for open travel time in ms	E	ABBIED600:2014
CorClsTmms	ABBIED600_Rev2_ING_SP_1_e	Correction factor for CB close travel time in ms	E	ABBIED600:2014
CorDifTmms	ABBIED600_Rev2_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
OpNumRtg	ABBIED600_Rev2_ING_SP_1_e	Number of operations possible at rated current	E	ABBIED600:2014
NumOpAlmLev	ABBIED600_Rev2_ING_SP_1_e	Alarm level for CB remaining life	E	ABBIED600:2014
OpNumFlt	ABBIED600_Rev2_ING_SP_1_e	Number of operations possible at rated fault current	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation	E	ABBIED600:2014

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		numbers counter initialization value		
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value of the inactive days counter	E	ABBIED600:2014
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	ABBIED600:2014
RsAccmAPwr	ABBIED600_Rev3_SPC_control_e	Reset accumulation energy	E	ABBIED600:2014,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev3_SPC_control_e	Reset input for CB remaining life and operation counter	E	ABBIED600:2014,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev3_SPC_control_e	SSCBR1 travel t	E	ABBIED600:2014,status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub9_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time	E	ABBIED600:2014

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		calculation mode		
IniRmnNumOp	ABBIED600_Rev4_ASG_SP_fe	Initial value for the CB remaining life estimates	E	ABBIED600:2014
AlmAccmAPwr	ABBIED600_Rev8_ASG_SP_ie	Setting of alarm level for accumulated currents power, Iyt	E	ABBIED600:2014
AccmStopA	ABBIED600_Rev8_ASG_SP_ie	Setting of the RMS current below which engy acm stops	E	ABBIED600:2014
LOAccmAPwr	ABBIED600_Rev8_ASG_SP_ie	Setting of lockout level for accumulated currents power, Iyt	E	ABBIED600:2014
AExpn	ABBIED600_Rev4_ASG_SP_fe	Current exponent setting for energy calculation	E	ABBIED600:2014
AOpRtg	ABBIED600_Rev8_ASG_SP_ie	Rated operating current of the breaker	E	ABBIED600:2014
AFltRtg	ABBIED600_Rev8_ASG_SP_ie	Rated fault current of the breaker	E	ABBIED600:2014
IniAccmAPwr	ABBIED600_Rev8_ASG_SP_ie	Initial value for accumulation energy (Iyt)	E	ABBIED600:2014

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5.2.110 LN: SPH1SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents power (Iyt), phase A	E	ABBIED600:2014

5.2.111 LN: SPH2SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		

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RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents power (Iyt), phase B	E	ABBIED600:2014

5.2.112 LN: SPH3SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents power (Iyt), phase C	E	ABBIED600:2014

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5.2.113 LN: SSIMG1 Name: SIMG (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
InsAlm	ABBIED600_Rev1_SPS	Pressure below alarm level		
InsBlk	ABBIED600_Rev1_SPS	Pressure below lockout level		
PresAlm	ABBIED600_Rev1_SPS	Binary pressure input for alarm		
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	ABBIED600:2014
InsAlmTmms	ABBIED600_Rev2_ING_SP_1_e	Time delay for gas pressure alarm.	E	ABBIED600:2014
InsBlkTmms	ABBIED600_Rev2_ING_SP_e	Time delay for gas pressure lockout.	E	ABBIED600:2014

5.2.114 LN: SSOPM1 Name: SOPM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
MotOp	ABBIED600_Rev1_SPS	The motor is running		
MotAlm	ABBIED600_Rev1_SPS	The motor operating time exceeded alarm trigger level		
MotAlmTms	ABBIED600_Rev2_ING_SP	Alarm trigger level for motor run time.		
TmsChaMot	ABBIED600_Rev7_MV_simple_i_e	The charging time of the CB spring	E	ABBIED600:2014
RsChaMotTm	ABBIED600_Rev3_SPC_control_e	SSCBR1 spr.charge t	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.115 LN: SSCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

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ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the CB during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the CB during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	CB open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	CB close travel time exceeded set value		
TmOpnClsAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of CB operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of CB operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation		

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		should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time win-dow wit-hin which the closing operation should complet		
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	ABBIED600:2014
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_e	CB posi-tion is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	CB posi-tion is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB opera-tions ex-ceeds lockout li-mit	E	ABBIED600:2014
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated for long ti-me' alarm	E	ABBIED600:2014
APwrAlm	ABBIED600_Rev1_SPS_e	Accumu-lated cur-rents po-wer (Iyt),ex-ceeded alarm li-mit	E	ABBIED600:2014
APwrLO	ABBIED600_Rev1_SPS_e	Accumu-lated	E	ABBIED600:2014

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		currents power (Iyt),exceeded lockout limit		
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	ABBIED600:2014
CorOpnTmms	ABBIED600_Rev2_ING_SP_1_e	Correction factor for open travel time in ms	E	ABBIED600:2014
CorClsTmms	ABBIED600_Rev2_ING_SP_1_e	Correction factor for CB close travel time in ms	E	ABBIED600:2014
CorDifTmms	ABBIED600_Rev2_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
OpNumRtg	ABBIED600_Rev2_ING_SP_1_e	Number of operations possible at rated current	E	ABBIED600:2014
NumOpAlmLev	ABBIED600_Rev2_ING_SP_1_e	Alarm level for CB remaining life	E	ABBIED600:2014

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OpNumFlt	ABBIED600_Rev2_ING_SP_1_e	Number of operations possible at rated fault current	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value of the inactive days counter	E	ABBIED600:2014
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	ABBIED600:2014
RsAccmAPwr	ABBIED600_Rev3_SPC_control_e	Reset accumulation energy	E	ABBIED600:2014,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev3_SPC_control_e	Reset input for CB remaining life and operation counter	E	ABBIED600:2014,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev3_SPC_control_e	SSCBR2 travel t	E	ABBIED600:2014,status-only,direct-

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				with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub9_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
IniRmnNumOp	ABBIED600_Rev4_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	ABBIED600:2014
AlmAccmAPwr	ABBIED600_Rev8_ASG_SP_i_e	Setting of alarm level for accumulated currents power, Iyt	E	ABBIED600:2014
AccmStopA	ABBIED600_Rev8_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	ABBIED600:2014
LOAccmAPwr	ABBIED600_Rev8_ASG_SP_i_e	Setting of lockout level for accumulated currents power, Iyt	E	ABBIED600:2014
AExpn	ABBIED600_Rev4_ASG_SP_f_e	Current exponent setting for energy calculation	E	ABBIED600:2014
AOpRtg	ABBIED600_Rev8_ASG_SP_i_e	Rated operating current of the breaker	E	ABBIED600:2014
AFltRtg	ABBIED600_Rev8_ASG_SP_i_e	Rated fault	E	ABBIED600:2014

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		current of the breaker		
IniAccmAPwr	ABBIED600_Rev8_ASG_SP_i_e	Initial value for accumulation energy (Iyt)	E	ABBIED600:2014

5.2.116 LN: SPH1SCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents power (Iyt), phase A	E	ABBIED600:2014

5.2.117 LN: SPH2SCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents power (Iyt), phase B	E	ABBIED600:2014

5.2.118 LN: SPH3SCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	ABBIED600:2014

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AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents power (Iyt), phase C	E	ABBIED600:2014

5.2.119 LN: SSIMG2 Name: SIMG (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
InsAlm	ABBIED600_Rev1_SPS	Pressure below alarm level		
InsBlk	ABBIED600_Rev1_SPS	Pressure below lockout level		
PresAlm	ABBIED600_Rev1_SPS	Binary pressure input for alarm		
PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	ABBIED600:2014
InsAlmTmms	ABBIED600_Rev2_ING_SP_1_e	Time delay for gas pressure alarm.	E	ABBIED600:2014

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Ins-BlkTmms	ABBIED600_Rev2_ING_SP_e	Time delay for gas pres-sure lockout.	E	ABBIED600:2014

5.2.120 LN: SSOPM2 Name: SOPM (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
MotOp	ABBIED600_Rev1_SPS	The mo-tor is running		
MotAlm	ABBIED600_Rev1_SPS	The mo-tor ope-rating time ex-ceeded alarm trigger level		
Mo-tAlmTms	ABBIED600_Rev2_ING_SP	Alarm trigger level for motor run time.		
TmsCha-Mot	ABBIED600_Rev7_MV_simple_i_e	The charging time of the CB spring	E	ABBIED600:2014
RsChaMotTm	ABBIED600_Rev3_SPC_control_e	SSCBR 2 spr.charge t	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.121 LN: SSCBR3 Name: SCBR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpCntAlm	ABBIED600_Rev1_SPS	Number of CB operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the CB during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the CB during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	CB open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	CB close travel time exceeded set value		
TmOpnClsAlm	ABBIED600_Rev1_SPS_simple	Switch operating time exceeded		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of		

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		CB operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of CB operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complet		
InPosOpn	ABBIED600_Rev1_SPS_e	POSOPEN	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	POSCLOSE	E	ABBIED600:2014
ColCls	ABBIED600_Rev1_SPS_simple_e	Close command status	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_e	CB position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	CB position is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of CB operations exceeds lockout limit	E	ABBIED600:2014
LonTmAlm	ABBIED600_Rev1_SPS_e	CB 'not operated	E	ABBIED600:2014

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		for long time' alarm		
APwrAlm	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded alarm limit	E	ABBIED600:2014
APwrLO	ABBIED600_Rev1_SPS_e	Accumulated currents power (Iyt),exceeded lockout limit	E	ABBIED600:2014
RmnNumOpAlm	ABBIED600_Rev1_SPS_e	Remaining life of CB exceeded alarm limit	E	ABBIED600:2014
CorOpnTmms	ABBIED600_Rev2_ING_SP_1_e	Correction factor for open travel time in ms	E	ABBIED600:2014
CorClsTmms	ABBIED600_Rev2_ING_SP_1_e	Correction factor for CB close travel time in ms	E	ABBIED600:2014
CorDifTmms	ABBIED600_Rev2_ING_SP_1_e	Corr. factor for time dif in aux. and main contacts open time	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of	E	ABBIED600:2014

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		operation is more.		
OpNumRtg	ABBIED600_Rev2_ING_SP_1_e	Number of operations possible at rated current	E	ABBIED600:2014
NumOpAlmLev	ABBIED600_Rev2_ING_SP_1_e	Alarm level for CB remaining life	E	ABBIED600:2014
OpNumFlt	ABBIED600_Rev2_ING_SP_1_e	Number of operations possible at rated fault current	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value of the inactive days counter	E	ABBIED600:2014
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days CB has been inactive	E	ABBIED600:2014

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RsAccmAPwr	ABBIED600_Rev3_SPC_control_e	Reset accumulation energy	E	ABBIED600:2014,status-only,direct-with-normal-security
RsCBWear	ABBIED600_Rev3_SPC_control_e	Reset input for CB remaining life and operation counter	E	ABBIED600:2014,status-only,direct-with-normal-security
RsTrvTm	ABBIED600_Rev3_SPC_control_e	SSCBR3 travel t	E	ABBIED600:2014,status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub9_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
IniRmnNumOp	ABBIED600_Rev4_ASG_SP_f_e	Initial value for the CB remaining life estimates	E	ABBIED600:2014
AlmAccmAPwr	ABBIED600_Rev8_ASG_SP_i_e	Setting of alarm level for accumulated currents power, Iyt	E	ABBIED600:2014
AccmStopA	ABBIED600_Rev8_ASG_SP_i_e	Setting of the RMS current below which engy acm stops	E	ABBIED600:2014
LOAccmAPwr	ABBIED600_Rev8_ASG_SP_i_e	Setting of lockout level for accumulated currents power, Iyt	E	ABBIED600:2014

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AExpn	ABBIED600_Rev4_ASG_SP_f_e	Current exponent setting for energy calculation	E	ABBIED600:2014
AOpRtg	ABBIED600_Rev8_ASG_SP_i_e	Rated operating current of the breaker	E	ABBIED600:2014
AFltRtg	ABBIED600_Rev8_ASG_SP_i_e	Rated fault current of the breaker	E	ABBIED600:2014
IniAccmAPwr	ABBIED600_Rev8_ASG_SP_i_e	Initial value for accumulation energy (Iyt)	E	ABBIED600:2014

5.2.122 LN: SPH1SCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase A	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents	E	ABBIED600:2014

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		power (Iyt), phase A		

5.2.123 LN: SPH2SCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase B	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents power (Iyt), phase B	E	ABBIED600:2014

5.2.124 LN: SPH3SCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
RmnNumOp	ABBIED600_Rev1_INS_d_e	CB Remaining life phase C	E	ABBIED600:2014
AccmAPwr	ABBIED600_Rev7_MV_simple_i_e	Accumulated currents power (Iyt), phase C	E	ABBIED600:2014

5.2.125 LN: SSIMG3 Name: SIMG (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
InsAlm	ABBIED600_Rev1_SPS	Pressure below alarm level		
InsBlk	ABBIED600_Rev1_SPS	Pressure below lockout level		
PresAlm	ABBIED600_Rev1_SPS	Binary pressure input for alarm		

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PresBlk	ABBIED600_Rev1_SPS_e	Binary pressure input for lockout indication	E	ABBIED600:2014
InsAlmTmms	ABBIED600_Rev2_ING_SP_1_e	Time delay for gas pressure alarm.	E	ABBIED600:2014
InsBlkTmms	ABBIED600_Rev2_ING_SP_e	Time delay for gas pressure lockout.	E	ABBIED600:2014

5.2.126 LN: SSOPM3 Name: SOPM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
MotOp	ABBIED600_Rev1_SPS	The motor is running		
MotAlm	ABBIED600_Rev1_SPS	The motor operating time exceeded alarm trigger level		
MotAlmTms	ABBIED600_Rev2_ING_SP	Alarm trigger level for motor run time.		

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TmsCha-Mot	ABBIED600_Rev7_MV_simple_i_e	The charging time of the CB spring	E	ABBIED600:2014
RsChaMotTm	ABBIED600_Rev3_SPC_control_e	SSCBR 3 spr.charge t	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.127 LN: CCBRBRF1 Name: RBRF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev5_ENG_SP_FailMod	Breaker Failure Detection Mode (current,		

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		breaker status, both, other)		
FailTmms	ABBIED600_Rev2_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTrTmms	ABBIED600_Rev2_ING_SP	Three Pole Retrip Time Delay		
DetValA	ABBIED600_Rev8_ASG_SP_i	Current Detector Value		
ReTrMod	ABBIED600_Rev3_ENG_SP_ReTrMod	Retrip Mode		
TrPlsTmms	ABBIED600_Rev2_ING_SP_e	Trip pulse time	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
DetValA-Res	ABBIED600_Rev8_ASG_SP_i_e	Current Detector Value for residual current	E	ABBIED600:2014

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AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_e	Mea-sure-ment mode selec-tion (cur-rent): 2= DFT; 3= Peak-to-Peak	E	ABBIED600:2014
CBAlmTmms	ABBIED600_Rev2_ING_SP_e	Circuit brea-ker faulty alarm delay	E	ABBIED600:2014
OpExMod	ABBIED600_Rev3_ENG_SP_buTripMode_e	Select type of backu p trip logic	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_e	CBFP start com-mand	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed poisiti on	E	ABBIED600:2014
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	ABBIED600:2014
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub1_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity
StrLatMod	ABBIED600_Rev3_ENG_SP_StrLtcMod_e	Start reset	E	ABBIED600:2014

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		de-layed or im-media-tely		

5.2.128 LN: CCBRBRF2 Name: RBRF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	De-layed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Brea-ker failure trip (exter-nal trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Ope-rate, retrip (inter-nal trip)		
FailMod	ABBIED600_Rev5_ENG_SP_FailMod	Brea-ker Fai-lure Detec-tion Mode (cur-rent, brea-ker status,		

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		both, other)		
FailTmms	ABBIED600_Rev2_ING_SP	Breaker Failure Time Delay for bus bar trip		
TPTrTmms	ABBIED600_Rev2_ING_SP	Three Pole Retrip Time Delay		
DetValA	ABBIED600_Rev8_ASG_SP_i	Current Detector Value		
ReTrMod	ABBIED600_Rev3_ENG_SP_ReTrMod	Retrip Mode		
TrPlsTmms	ABBIED600_Rev2_ING_SP_e	Trip pulse time	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
DetValA-Res	ABBIED600_Rev8_ASG_SP_i_e	Current Detector Value for residual current	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_e	Measurement mode	E	ABBIED600:2014

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		selec-tion (cur-rent): 2= DFT; 3= Peak-to-Peak		
CBAlmTmms	ABBIED600_Rev2_ING_SP_e	Circuit brea-ker faulty alarm delay	E	ABBIED600:2014
OpExMod	ABBIED600_Rev3_ENG_SP_buTripMode_e	Select type of backu p trip logic	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_e	CBFP start com-mand	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed poisiti on	E	ABBIED600:2014
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	ABBIED600:2014
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub1_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity
StrLatMod	ABBIED600_Rev3_ENG_SP_StrLtcMod_e	Start reset de-layed or im-media-tely	E	ABBIED600:2014

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5.2.129 LN: CCBRBRF3 Name: RBRF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Delayed CB failure alarm		
OpEx	ABBIED600_Rev1_ACT_simple	Breaker failure trip (external trip)		
OpIn	ABBIED600_Rev1_ACT_simple	Operate, retrip (internal trip)		
FailMod	ABBIED600_Rev5_ENG_SP_FailMod	Breaker Failure Detection Mode (current, breaker status, both, other)		
FailTmms	ABBIED600_Rev2_ING_SP	Breaker Failure Time Delay		

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		for bus bar trip		
TPTrTmms	ABBIED600_Rev2_ING_SP	Three Pole Retrip Time Delay		
DetValA	ABBIED600_Rev8_ASG_SP_i	Current Detector Value		
ReTrMod	ABBIED600_Rev3_ENG_SP_ReTrMod	Retrip Mode		
TrPlsTmms	ABBIED600_Rev2_ING_SP_e	Trip pulse time	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
DetValA-Res	ABBIED600_Rev8_ASG_SP_i_e	Current Detector Value for residual current	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_e	Measurement mode selection (current): 2= DFT; 3= Peak-	E	ABBIED600:2014

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		to-Peak		
CBAlmTmms	ABBIED600_Rev2_ING_SP_e	Circuit breaker faulty alarm delay	E	ABBIED600:2014
OpExMod	ABBIED600_Rev3_ENG_SP_buTripMode_e	Select type of backup trip logic	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_e	CBFP start command	E	ABBIED600:2014
InPosCls	ABBIED600_Rev1_SPS_e	CB in closed poisition	E	ABBIED600:2014
InCBFlt	ABBIED600_Rev1_SPS_e	CB faulty and unable to trip	E	ABBIED600:2014
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub1_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrLatMod	ABBIED600_Rev3_ENG_SP_StrLtcMod_e	Start reset delayed or immediately	E	ABBIED600:2014

5.2.130 LN: LEDPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_full	Operate		
Str	ABBIED600_Rev1_ACD_full	Start		
InRs	ABBIED600_Rev1_SPS_simple_e	Reset	E	ABBIED600:2014
InOp	ABBIED600_Rev3_SPS_dU_e	Input operate	E	ABBIED600:2014
InStr	ABBIED600_Rev3_SPS_dU_e	Input start	E	ABBIED600:2014

5.2.131 LN: TRPPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTms	ABBIED600_Rev2_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_e	Trip output mode	E	ABBIED600:2014
LORs	ABBIED600_Rev3_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security

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TrRs	ABBIED600_Rev3_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	ABBIED600:2014

5.2.132 LN: TRPPTRC2 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTms	ABBIED600_Rev2_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_e	Trip output mode	E	ABBIED600:2014
LORs	ABBIED600_Rev3_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev3_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout	E	ABBIED600:2014

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		output (set until reset)		

5.2.133 LN: TRPPTRC3 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTms	ABBIED600_Rev2_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_e	Trip output mode	E	ABBIED600:2014
LORs	ABBIED600_Rev3_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev3_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	ABBIED600:2014

5.2.134 LN: TRPPTRC4 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev2_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_e	Trip output mode	E	ABBIED600:2014
LORs	ABBIED600_Rev3_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev3_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	ABBIED600:2014

5.2.135 LN: TRPPTRC5 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		
TrPlsTmms	ABBIED600_Rev2_ING_SP_1	Minimum duration of trip output signal		
TrOutMod	ABBIED600_Rev3_ENG_SP_TrOutMod_e	Trip output mode	E	ABBIED600:2014
LORs	ABBIED600_Rev3_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev3_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	ABBIED600:2014

5.2.136 LN: TRPPTRC6 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Tr	ABBIED600_Rev1_ACT_simple_dU	General trip output signal		
Op	ABBIED600_Rev1_ACT_simple_dU	Operate input signal		

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TrPlsTmms	ABBIED600_Rev2_ING_SP_1	Minimum duration of trip output signal		
TrOut-Mod	ABBIED600_Rev3_ENG_SP_TrOutMod_e	Trip output mode	E	ABBIED600:2014
LORs	ABBIED600_Rev3_SPC_indications_e	RST_LKOUT	E	ABBIED600:2014,status-only,direct-with-normal-security
TrRs	ABBIED600_Rev3_SPC_indications_e	Reset latched trip	E	ABBIED600:2014,status-only,direct-with-normal-security
ClsLO	ABBIED600_Rev1_SPS_e	Circuit breaker lockout output (set until reset)	E	ABBIED600:2014

5.2.137 LN: PHLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-planation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub8	Ope-ra-ting curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial		

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		multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required	E	ABBIED600:2014

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		for operate activation		
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub4_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.138 LN: PHLPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub8	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal	E	ABBIED600:2014

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		for current multiplier		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub4_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

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5.2.139 LN: PHLPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn _FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub8	Ope-ra-ting curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum ope-rate time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Type of re-set curve		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset delay time		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub4_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.140 LN: PHLPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub8	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum		

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		operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014

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StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tip-lier for sca-ling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMo d_Sub4_e	Mea-su-ring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub 2_e	Test cont-rol for out-puts	E	ABBIED600:2014,s tatus-only,direct-with-normal-secu-rity

5.2.141 LN: PHLPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn _FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub8	Ope-ra-ting		

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		curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014

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NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub4_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.142 LN: PHHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		bi-nary out-puts		
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enab le sig-nal for cur-rent mul-tip-lier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel _Sub1_e	Num ber of phas es re-qui-red for ope-rate acti-va-tion	E	ABBIED600:2014
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tip-lier for sca-ling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014

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AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.143 LN: PHHPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		

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OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier	E	ABBIED600:2014

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		for scaling the start value		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.144 LN: PHHPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating curve type		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number	E	ABBIED600:2014

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		of phases required for operate activation		
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.145 LN: PHHPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.146 LN: PHHPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dial multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		

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OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of reset curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier	E	ABBIED600:2014

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		for scaling the start value		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.147 LN: PHIPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start	E	ABBIED600:2014

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		time / ope-rate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.148 LN: PHIPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		

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InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.149 LN: PHIPTOC3 Name: PTOC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn _FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enab le sig-nal for cur-rent mul-tip-lier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSe l_Sub1_e	Num ber of phas es	E	ABBIED600:2014

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		required for operate activation		
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.150 LN: PHIPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		

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Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for	E	ABBIED600:2014

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		sca-ling the start value		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.151 LN: PHIPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k		

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		signal for all binary outputs		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.152 LN: EFLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		

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MinOpTms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable	E	ABBIED600:2014

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		current multiplier		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.153 LN: EFLPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

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TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate	E	ABBIED600:2014

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		current level		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.154 LN: EFLPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		

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AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode selection	E	ABBIED600:2014
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.155 LN: EFLPTOC4 Name: PTOC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn _FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Ope-ra-ting Curv e Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate		

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		Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		
ARes-SigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Se-lec-tion for used Io sig-nal	E	ABBIED600:2014

5.2.156 LN: EFLPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Ope-ra-ting Curv e Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		

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TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Type of Reset Curv e		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMo d_Sub2_e	Mea-sure-ment mode se-lec-tion	E	ABBIED600:2014
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tip-lier for ope-rate cur-rent level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.157 LN: EFHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Ope-ra-ting Curv e Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Type of Reset Curv e		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMo d_Sub2_e	Mea-sure-ment mode se-lec-tion	E	ABBIED600:2014

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StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tip-lier for ope-rate cur-rent level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enab le cur-rent mul-tip-lier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub 2_e	Test cont-rol for out-puts	E	ABBIED600:2014,s tatus-only,direct-with-normal-secu-rity
ARes-SigSel	ABBIED600_Rev3_ENG_SP_AResSig Sel_e	Se-lec-tion for used Io sig-nal	E	ABBIED600:2014

5.2.158 LN: EFHPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset		

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		Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for	E	ABBIED600:2014

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		used Io signal		

5.2.159 LN: EFHPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		

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MinOpTms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable	E	ABBIED600:2014

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		current multiplier		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.160 LN: EFHPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

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TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode selection	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate	E	ABBIED600:2014

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		current level		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.161 LN: EFHPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		

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AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode selection	E	ABBIED600:2014
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.162 LN: EFIPTOC1 Name: PTOC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tip-lier for ope-rate cur-rent level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.163 LN: EFIPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate current level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used	E	ABBIED600:2014

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		Io signal		

5.2.164 LN: EFIPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for operate	E	ABBIED600:2014

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		current level		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enable current multiplier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.165 LN: EFIPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for		

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		all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tip-lier for ope-rate cur-rent level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enabl e cur-rent mul-tip-lier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_S ub2_e	Test cont-rol for	E	ABBIED600:2014,st atus-only,direct-with-normal-security

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		outputs		
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.166 LN: EFIPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		

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StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tip-lier for ope-rate cur-rent level	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enabl e cur-rent mul-tip-lier	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_S ub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
AResSig-Sel	ABBIED600_Rev3_ENG_SP_AResS igSel_e	Se-lec-tion for used Io sig-nal	E	ABBIED600:2014

5.2.167 LN: DPHLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn _FD	Mod e		status-only,direct-with-normal-secu-rity

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.168 LN: DPHLRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		

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MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarising Quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference	E	ABBIED600:2014

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		phase C		
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	ABBIED600:2014

5.2.169 LN: DPHLPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		

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TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Type of Reset Curv e		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Di-recti-onal Mod e		
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enab le sig-nal for cur-rent mul-tip-lier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel _Sub1_e	Num ber of phas es re-qui-red	E	ABBIED600:2014

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		for operate activation		
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014

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NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.170 LN: DPHLRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phas		

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		e angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarising Quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage	E	ABBIED600:2014

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		memory time		
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in use status	E	ABBIED600:2014

5.2.171 LN: DPHLPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal		

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		for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Ope-ra-ting Curv e Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Type of Reset Curv e		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Di-recti-onal		

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		Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.172 LN: DPHLRDIR3 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	Direction		

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ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse		

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		direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarising Quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in	E	ABBIED600:2014

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		use status		

5.2.173 LN: DPHLPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum		

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		Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014

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StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tip-lier for sca-ling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMo d_Sub2_e	Mea-su-ring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub 2_e	Test cont-rol for out-puts	E	ABBIED600:2014,s tatus-only,direct-with-normal-secu-rity
AllwNon Dir	ABBIED600_Rev2_SPG_SP_e	Al-lows prot acti-va-tion as non-dir when dir info is in-valid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	For-ces pro-tec-tion to	E	ABBIED600:2014

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		non-directional		

5.2.174 LN: DPHLRDIR4 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse		

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		direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarising Quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014

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Op-ChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle diffe-rence phase A	E	ABBIED600:2014
Op-ChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle diffe-rence phase B	E	ABBIED600:2014
Op-ChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle diffe-rence phase C	E	ABBIED600:2014
VMe-mUsedSt	ABBIED600_Rev1_SPS_e	Vol-tage me-mory in use sta-tus	E	ABBIED600:2014

5.2.175 LN: DPHLPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all		

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		bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Ope-ra-ting Curv e Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Type of Reset Curv e		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Di-recti-onal Mod e		

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InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control	E	ABBIED600:2014,status-only,direct-

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		for outputs		with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.176 LN: DPHLRDIR5 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	Direction		

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ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse		

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		direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarising Quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in	E	ABBIED600:2014

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		use status		

5.2.177 LN: DPHHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection		

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		of reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used	E	ABBIED600:2014

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		measurement mode		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.178 LN: DPHHRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	DIR		

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ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse		

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		direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarizing quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in	E	ABBIED600:2014

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		use sta-tus		

5.2.179 LN: DPHHPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Ope-rating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tiplier		
Mi-nOpTmms	ABBIED600_Rev2_ING_SP_1	Mini-mum Ope-rate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Ope-rate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selec-tion		

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		of reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used	E	ABBIED600:2014

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		measurement mode		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.180 LN: DPHHRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	DIR		

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ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse		

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		direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarizing quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in	E	ABBIED600:2014

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		use status		

5.2.181 LN: DPHHPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection		

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		of reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used	E	ABBIED600:2014

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		measurement mode		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.182 LN: DPHHRDIR3 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	DIR		

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ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse		

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		direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarizing quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in	E	ABBIED600:2014

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		use status		

5.2.183 LN: DPHHPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection		

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		of reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used	E	ABBIED600:2014

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		measurement mode		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.184 LN: DPHHRDIR4 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	DIR		

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ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse		

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		direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarizing quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in	E	ABBIED600:2014

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		use sta-tus		

5.2.185 LN: DPHHPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub4	Ope-rating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tiplier		
Mi-nOpTmms	ABBIED600_Rev2_ING_SP_1	Mini-mum Ope-rate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Ope-rate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selec-tion		

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		of reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used	E	ABBIED600:2014

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		measurement mode		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
NonDir	ABBIED600_Rev1_SPS_e	Forces protection to non-directional	E	ABBIED600:2014

5.2.186 LN: DPHHRDIR5 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	DIR		

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ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse		

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		direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
PolQty	ABBIED600_Rev3_ENG_SG_PolQty_Sub1	Polarizing quantity		
VMemTmms	ABBIED600_Rev2_ING_SG_e	Voltage memory time	E	ABBIED600:2014
OpChrAngPhsA	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase A	E	ABBIED600:2014
OpChrAngPhsB	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase B	E	ABBIED600:2014
OpChrAngPhsC	ABBIED600_Rev7_MV_simple_i_e	Calc angle difference phase C	E	ABBIED600:2014
VMemUsedSt	ABBIED600_Rev1_SPS_e	Voltage memory in	E	ABBIED600:2014

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		use sta-tus		

5.2.187 LN: GFCPDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Expla-nation	M/O /E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
PhStr	ABBIED600_Rev8_ASG_SG_i	Phase start value		
GndStr	ABBIED600_Rev8_ASG_SG_i	Groun d start value		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Direc-tional mode		
AngLod	ABBIED600_Rev8_ASG_SG_i	Angle for load area		
OpDlTmms	ABBIED600_Rev2_ING_SG	Ope-rate time delay		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
RisFwdLod	ABBIED600_Rev8_ASG_SG_i_e	Resis-tive reach for load area	E	ABBIED600:2014

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RisRvLod	ABBIED600_Rev8_ASG_SG_i_e	Resis-tive phase re-verse reach	E	ABBIED600:2014
RisGnd-FwdRch	ABBIED600_Rev8_ASG_SG_i_e	Resis-tive groun d for-ward reach	E	ABBIED600:2014
RisGndRv Rch	ABBIED600_Rev8_ASG_SG_i_e	Resis-tive groun d re-verse reach	E	ABBIED600:2014
RisPhFwd Rch	ABBIED600_Rev8_ASG_SG_i_e	Resis-tive phase for-ward reach	E	ABBIED600:2014
RisPhRvR ch	ABBIED600_Rev8_ASG_SG_i_e	Resis-tive phase re-verse reach	E	ABBIED600:2014
FltLoop	ABBIED600_Rev5_ENS_FltLoop_e	Start signals for phases A, B and C, GFC	E	IEC 61850-7-4:2007
LodDsrMo d	ABBIED600_Rev1_SPG_SG_e	Enable load discri-mi-nation	E	ABBIED600:2014
RelPPLoo p	ABBIED600_Rev5_ENS_FltLoop_e	Re-lease signals for PP/3P	E	ABBIED600:2014

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		loops. GFC.		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub6_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
GndMod	ABBIED600_Rev1_SPS_simple_e	Network earthing method	E	ABBIED600:2014
RcdTrg	ABBIED600_Rev3_SPC_control_e	Recorded data trigg	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
RelPhLoop	ABBIED600_Rev5_ENS_FltLoop_e	Release signals for PE-loops, GFC	E	ABBIED600:2014
EFDet	ABBIED600_Rev1_SPS_simple_e	Indication of a single phase earth-fault, GFC	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault (high imp. earthed), GFC	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014, status-only,direct-with-normal-security

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PhVMeas	ABBIED600_Rev3_ENG_SP_PhVMeas_e	Phase voltage measurement principle	E	ABBIED600:2014
SysGnd	ABBIED600_Rev3_ENG_SP_SysGnd_Sub1_e	System grounding principle	E	ABBIED600:2014
PhPrf-ModHi	ABBIED600_Rev2_ENG_SP_PhPrfModHi_e	Phase preference mode for high impedance earthed network	E	ABBIED600:2014
PhPrf-ModLo	ABBIED600_Rev2_ENG_SP_PhPrfModLo_e	Loop selection mode for low impedance earthed network	E	ABBIED600:2014
ZMod	ABBIED600_Rev2_ENG_SP_ZMod_e	Impedance characteristic, underimpedance, PSL	E	ABBIED600:2014

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ZChrMod Gnd	ABBIED600_Rev2_ENG_SP_ZChr Mod_e	Impe-dance cha-rac-teristic for PE-loops, zones	E	ABBIED600:2014
ZChrMod PP	ABBIED600_Rev2_ENG_SP_ZChr Mod_e	Impe-dance cha-rac-teristic for PP/3P-loops, zones	E	ABBIED600:2014
EnaAStab	ABBIED600_Rev2_SPG_SP_e	EF cur-rent stabili-zation enable d	E	ABBIED600:2014
FactEFA-Bal	ABBIED600_Rev8_ASG_SP_i_e	Resi-dual cur-rent ratio for pa-rallel line com-pensa-tion	E	ABBIED600:2014
ZnTmMod	ABBIED600_Rev2_ENG_SP_ZnTm Mod_e	Ope-rate ti-mer start mode, zones	E	ABBIED600:2014
PhSelMod	ABBIED600_Rev3_ENG_SG_PhSel Mod_e	Phase selec-tion met-hod	E	ABBIED600:2014

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EFDet-Mod	ABBIED600_Rev1_ENG_SG_EfDetMod_e	Earth-fault (EF) detection method	E	ABBIED600:2014
PhLoStr	ABBIED600_Rev8_ASG_SG_i_e	Phase current start value, voltage dep. over current, PSL	E	ABBIED600:2014
PhVPhSel	ABBIED600_Rev8_ASG_SG_i_e	PE-voltage start value, voltage dep. over current, PSL	E	ABBIED600:2014
PPVPhSel	ABBIED600_Rev8_ASG_SG_i_e	PP-voltage start value, voltage dep. over current, PSL	E	ABBIED600:2014
ZChrMod	ABBIED600_Rev2_ENG_SG_ZChrMod_Sub1_e	Z Chr Mod Ph Sel GFC	E	ABBIED600:2014

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XGnd-FwdRch	ABBIED600_Rev8_ASG_SG_i_e	React. reach in fwd. dir. for PE-loops, unde-rimpe-dance, PSL	E	ABBIED600:2014
XGndRvRch	ABBIED600_Rev8_ASG_SG_i_e	React. reach in rev. dir. for PE-loops, unde-rimpe-dance, PSL	E	ABBIED600:2014
XPhFwdRch	ABBIED600_Rev8_ASG_SG_i_e	React. reach in fwd. dir. for PP-loops, unde-rimpe-dance, PSL	E	ABBIED600:2014
XPhRvRch	ABBIED600_Rev8_ASG_SG_i_e	React. reach in rev. dir. for PP-loops, unde-rimpe-dance, PSL	E	ABBIED600:2014
GndOp1	ABBIED600_Rev8_ASG_SG_i_e	Basic start value for re-sidual curr.,	E	ABBIED600:2014

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		EF-detection function		
GndOpRef	ABBIED600_Rev8_ASG_SG_i_e	Transformer neutral curr. start val., EF-detection function	E	ABBIED600:2014
GndOp2	ABBIED600_Rev8_ASG_SG_i_e	Res. curr. start value for slope 2, EF-detection function	E	ABBIED600:2014
StabSpe1	ABBIED600_Rev8_ASG_SG_i_e	Slope 1 for res. curr. stabilization, EF-detection function	E	ABBIED600:2014
StabSpe2	ABBIED600_Rev8_ASG_SG_i_e	Slope 2 for res. current stab., EF-detection	E	ABBIED600:2014

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		function		
APhStabVal	ABBIED600_Rev8_ASG_SG_i_e	Phase current start value for slope 2, EF-detection function	E	ABBIED600:2014
GndOpXcn	ABBIED600_Rev8_ASG_SG_i_e	Residual current start value, XC-fault detection function	E	ABBIED600:2014
PPVValXcn	ABBIED600_Rev8_ASG_SG_i_e	PP-voltage start value, XC-fault detection function	E	ABBIED600:2014
XcnDlTmms	ABBIED600_Rev2_ING_SG_e	Time delay for residual current, XC-fault detection	E	ABBIED600:2014

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		function		
ZMaxLod	ABBIED600_Rev8_ASG_SG_i_e	Maximum load impedance	E	ABBIED600:2014
BlkOp	ABBIED600_Rev1_SPS_simple_e	Block operate	E	ABBIED600:2014
SelActZn	ABBIED600_Rev2_ENG_SP_SelActZn_e	Select active zones	E	ABBIED600:2014

5.2.188 LN: GFCRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_threephase	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Relay characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum forward angle		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum		

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		re-verse angle		
MaxFw-dAng	ABBIED600_Rev8_ASG_SG_i	Ma-xi-mum for-ward angle		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Ma-xi-mum re-verse angle		
PolQty	ABBIED600_Rev4_ENG_SG_PolQty_Sub2	Pola-riza-tion met-hod, earth-fault di-recti-onal func-tion		
VMemTmms	ABBIED600_Rev2_ING_SP_time_e	Vol-tage me-mory time	E	ABBIED600:2014
VMe-mUsedSt	ABBIED600_Rev1_SPS_simple_e	Vol-tage me-mory in use sta-tus	E	ABBIED600:2014

5.2.189 LN: DSTPDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 1		
Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 1		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode, zone 1		
PhDlMod	ABBIED600_Rev1_SPG_SG	Operate time delay multiphase mode, zone 1		
PhDlTmms	ABBIED600_Rev2_ING_SG	Time delay to operate of PP/3P-loops, zone 1		
GndDlMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 1		

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GndDlTmms	ABBIED600_Rev2_ING_SG	Operate time delay for single phase ground faults, zone 1		
X1	ABBIED600_Rev8_ASG_SG_i	Positive sequence line (reach) reactance, zone1		
LinAng	ABBIED600_Rev8_ASG_SG_i	Line angle		
K0Fact	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor magnitude, zone 1		
K0FactAng	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor angle, zone 1		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

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Z1Mod	ABBIED600_Rev8_ASG_SG_i_e	Positive sequence reach, zone 1	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop resistance, zone 1	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop reactance, zone 1	E	ABBIED600:2014
FltLoopZn	ABBIED600_Rev1_INS_e	Start signals for phases A, B and C, zone 1	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 1	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 1	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 1	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop	E	ABBIED600:2014

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		reac-tance, zone 1		
PhLoopRis2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop resis-tance, zone 1	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop reac-tance, zone 1	E	ABBIED600:2014
PhReact	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase do-main, zone 1	E	ABBIED600:2014
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enabl e PE-loop mea-sure-ment, zone 1	E	ABBIED600:2014
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enabl e PP/3P -loop mea-sure-ment, zone 1	E	ABBIED600:2014
R1	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e	E	ABBIED600:2014

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		resis-tive reach, zone1		
X1Rv	ABBIED600_Rev8_ASG_SG_i_e	Pos. seq. reac-tive reach in rev. dir., non-dir. zone 1	E	ABBIED600:2014
Z1Rv	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reach in rev. dir., non-dir. zone 1	E	ABBIED600:2014
MinRisPP	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum resis-tive reach of PP/3P - loops, zone 1	E	ABBIED600:2014
MaxRisPP	ABBIED600_Rev8_ASG_SG_i_e	Maxi-mum resis-tive reach of PP/3P - loops, zone 1	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enabl e load	E	ABBIED600:2014

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		compensation for PE-loops, zone 1		
R0	ABBIED600_Rev8_ASG_SG_i_e	Zero sequence resistive reach, zone 1	E	ABBIED600:2014
X0	ABBIED600_Rev8_ASG_SG_i_e	Zero sequence reactive reach, zone 1	E	IEC 61850-7-4:2007
MinRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 1	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 1	E	ABBIED600:2014
TiltAng	ABBIED600_Rev8_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 1	E	ABBIED600:2014

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ParLin-Comp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation for PE-loops, zone 1	E	ABBIED600:2014
Rm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 1	E	ABBIED600:2014
Xm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 1	E	ABBIED600:2014
ErrTiltAng	ABBIED600_Rev1_INS_e	Tilt angle error	E	ABBIED600:2014

5.2.190 LN: DSTPDIS2 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Off On	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 2		
Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 2		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode, zone 2		
PhDlMod	ABBIED600_Rev1_SPG_SG	Operate time delay multi-phase mode, zone 2		
PhDlTmms	ABBIED600_Rev2_ING_SG	Time delay to operate of PP/3P - loops, zone 2		
GndDlMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 2		
GndDlTmms	ABBIED600_Rev2_ING_SG	Operate time delay for single		

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		phase ground faults, zone 2		
X1	ABBIED600_Rev8_ASG_SG_i	Positive sequence line (reach) reactance, zone2		
LinAng	ABBIED600_Rev8_ASG_SG_i	Positive sequence line angle, zone 2		
K0Fact	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor magnitude, zone 2		
K0FactAng	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor angle, zone 2		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Z1Mod	ABBIED600_Rev8_ASG_SG_i_e	Positive	E	ABBIED600:2014

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		se-quence reach, zone 2		
FltLoopZn	ABBIED600_Rev1_INS_e	Start signals for phases A, B and C, zone 2	E	ABBIED600:2014
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enable PE-loop measure-ment, zone 2	E	ABBIED600:2014
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enable optional phase sequence supervision for PP/3P-loops, zone 2	E	ABBIED600:2014
R1	ABBIED600_Rev8_ASG_SG_i_e	Positive sequence resistive reach, zone2	E	ABBIED600:2014
X1Rv	ABBIED600_Rev8_ASG_SG_i_e	Pos. seq.	E	ABBIED600:2014

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		reac-tive reach in rev. dir., non-dir. zone 2		
Z1Rv	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reach in rev. dir., non-dir. zone 2	E	ABBIED600:201 4
MinRisPP	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum resis-tive reach of PP/3P - loops, zone 2	E	ABBIED600:201 4
MaxRisPP	ABBIED600_Rev8_ASG_SG_i_e	Maxi-mum resis-tive reach of PP/3P - loops, zone 2	E	ABBIED600:201 4
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enabl e load com-pensa-tion for PE-loops, zone 2	E	ABBIED600:201 4

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R0	ABBIED600_Rev8_ASG_SG_i_e	Zero sequence resistive reach, zone 2	E	ABBIED600:2014
X0	ABBIED600_Rev8_ASG_SG_i_e	Zero sequence reactive reach, zone 2	E	IEC 61850-7-4:2007
MinRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 2	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 2	E	ABBIED600:2014
TiltAng	ABBIED600_Rev8_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 2	E	ABBIED600:2014
ParLinComp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation	E	ABBIED600:2014

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		for PE-loops, zone 2		
Rm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 2	E	ABBIED600:2014
Xm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 2	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 2	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 2	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 2	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop	E	ABBIED600:2014

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		reac-tance, zone 2		
PhLoopRis2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop resis-tance, zone 2	E	ABBIED600:201 4
PhLoopX2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop reac-tance, zone 2	E	ABBIED600:201 4
PPLoopRis	ABBIED600_Rev7_MV_simple_i_e	PP/3P -loop resis-tance, zone 2	E	ABBIED600:201 4
PPLoopX	ABBIED600_Rev7_MV_simple_i_e	PP/3P -loop reac-tance, zone 2	E	ABBIED600:201 4
PhReact	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase do-main, zone 2	E	ABBIED600:201 4

5.2.191 LN: DSTPDIS3 Name: PDIS (ED2)

Attribute name	Attribute type	Expla-nation	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Off On	Mode		status-only,di-rect-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 3		
Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 3		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode, zone 3		
PhDlMod	ABBIED600_Rev1_SPG_SG	Operate time delay multiphase mode, zone 3		
PhDlTmms	ABBIED600_Rev2_ING_SG	Time delay to operate of PP/3P-loops, zone 3		
GndDlMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 3		
GndDlTmms	ABBIED600_Rev2_ING_SG	Operate time		

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		delay for single phase ground faults, zone 3		
X1	ABBIED600_Rev8_ASG_SG_i	Positive sequence line (reach) reactance, zone3		
LinAng	ABBIED600_Rev8_ASG_SG_i	Positive sequence line angle, zone 3		
K0Fact	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor magnitude, zone 3		
K0FactAng	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor angle, zone 3		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		out-puts		
Z1Mod	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reach, zone 3	E	ABBIED600:201 4
FltLoopZn	ABBIED600_Rev1_INS_e	Start sig-nals for phases A, B and C, zone 3	E	ABBIED600:201 4
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enabl e PE-loop mea-sure-ment, zone 3	E	ABBIED600:201 4
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enabl e opti-onal phase se-quenc e su-pervi-sion for PP/3P - loops, zone 3	E	ABBIED600:201 4
R1	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e re-sistive reach, zone3	E	ABBIED600:201 4

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X1Rv	ABBIED600_Rev8_ASG_SG_i_e	Pos. seq. reac-tive reach in rev. dir., non-dir. zone 3	E	ABBIED600:2014
Z1Rv	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reach in rev. dir., non-dir. zone 3	E	ABBIED600:2014
MinRisPP	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum resis-tive reach of PP/3P - loops, zone 3	E	ABBIED600:2014
MaxRisPP	ABBIED600_Rev8_ASG_SG_i_e	Maxi-mum resis-tive reach of PP/3P - loops, zone 3	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enabl e load com-pensa-tion for PE-	E	ABBIED600:2014

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		loops, zone 3		
R0	ABBIED600_Rev8_ASG_SG_i_e	Zero sequence resistive reach, zone 3	E	ABBIED600:2014
X0	ABBIED600_Rev8_ASG_SG_i_e	Zero sequence reactive reach, zone 3	E	IEC 61850-7-4:2007
MinRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 3	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 3	E	ABBIED600:2014
TiltAng	ABBIED600_Rev8_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 3	E	ABBIED600:2014
ParLin-Comp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line	E	ABBIED600:2014

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		compensation for PE-loops, zone 3		
Rm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 3	E	ABBIED600:2014
Xm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 3	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 3	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 3	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resistance, zone 3	E	ABBIED600:2014

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PhLoopX1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop reac-tance, zone 3	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop resis-tance, zone 3	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop reac-tance, zone 3	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop resis-tance, zone 3	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop reac-tance, zone 3	E	ABBIED600:2014
PhReact	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase do-main, zone 3	E	ABBIED600:2014

5.2.192 LN: DSTPDIS4 Name: PDIS (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	General start signal, zone 4		
Op	ABBIED600_Rev1_ACT_simple	Operate signal, zone 4		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode, zone 4		
PhDlMod	ABBIED600_Rev1_SPG_SG	Operate time delay multiphase mode, zone 4		
PhDlTmms	ABBIED600_Rev2_ING_SG	Time delay to operate of PP/3P-loops, zone 4		
GndDlMod	ABBIED600_Rev1_SPG_SG	Operate time delay for single phase ground mode, zone 4		

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GndDlTmms	ABBIED600_Rev2_ING_SG	Operate time delay for single phase ground faults, zone 4		
X1	ABBIED600_Rev8_ASG_SG_i	Positive sequence line (reach) reactance, zone 4		
LinAng	ABBIED600_Rev8_ASG_SG_i	Positive sequence line angle, zone 4		
K0Fact	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor magnitude, zone 4		
K0FactAng	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor angle, zone 4		
Blk	ABBIED600_Rev1_SPS_simple	Block signal		

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		for all binary out-puts		
Z1Mod	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reach, zone 4	E	ABBIED600:201 4
FltLoopZn	ABBIED600_Rev1_INS_e	Start sig-nals for phases A, B and C, zone 4	E	ABBIED600:201 4
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enabl e PE-loop mea-sure-ment, zone 4	E	ABBIED600:201 4
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enabl e opti-onal phase se-quenc e su-pervi-sion for PP/3P -loops, zone 4	E	ABBIED600:201 4
R1	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e re-sistive	E	ABBIED600:201 4

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		reach, zone4		
X1Rv	ABBIED600_Rev8_ASG_SG_i_e	Pos. seq. reac-tive reach in rev. dir., non-dir. zone 4	E	ABBIED600:2014
Z1Rv	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reach in rev. dir., non-dir. zone 4	E	ABBIED600:2014
MinRisPP	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum resis-tive reach of PP/3P - loops, zone 4	E	ABBIED600:2014
MaxRisPP	ABBIED600_Rev8_ASG_SG_i_e	Maxi-mum resis-tive reach of PP/3P - loops, zone 4	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enabl e load	E	ABBIED600:2014

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		compensation for PE-loops, zone 4		
R0	ABBIED600_Rev8_ASG_SG_i_e	Zero sequence resistive reach, zone 4	E	ABBIED600:2014
X0	ABBIED600_Rev8_ASG_SG_i_e	Zero sequence reactive reach, zone 4	E	IEC 61850-7-4:2007
MinRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Minimum resistive reach of PE-loops, zone 4	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Maximum resistive reach of PE-loops, zone 4	E	ABBIED600:2014
TiltAng	ABBIED600_Rev8_ASG_SG_i_e	Tilt angle (positive value increases zone area), zone 4	E	ABBIED600:2014

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ParLin-Comp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation for PE-loops, zone 4	E	ABBIED600:2014
Rm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 4	E	ABBIED600:2014
Xm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 4	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 4	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 4	E	ABBIED600:2014
PhLoopRis1	ABBIED600_Rev7_MV_simple_i_e	First PE-	E	ABBIED600:2014

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		loop resis-tance, zone 4		
PhLoopX1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop reac-tance, zone 4	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop resis-tance, zone 4	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop reac-tance, zone 4	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop resis-tance, zone 4	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop reac-tance, zone 4	E	ABBIED600:2014
PhReact	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase do-main, zone 4	E	ABBIED600:2014

5.2.193 LN: DSTPDIS5 Name: PDIS (ED2)

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Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,di-rect-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Gene-ral start signal, zone 5		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate signal, zone 5		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Direc-tional mode, zone 5		
PhDlMod	ABBIED600_Rev1_SPG_SG	Ope-rate time delay mul-tiphas e mode, zone 5		
PhDlTmms	ABBIED600_Rev2_ING_SG	Time delay to ope-rate of PP/3P - loops, zone 5		
GndDlMod	ABBIED600_Rev1_SPG_SG	Ope-rate time delay for single phase groun		

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		d mode, zone 5		
GndDlTmms	ABBIED600_Rev2_ING_SG	Operate time delay for single phase ground faults, zone 5		
X1	ABBIED600_Rev8_ASG_SG_i	Positive sequence line (reach) reactance, zone 5		
LinAng	ABBIED600_Rev8_ASG_SG_i	Positive sequence line angle, zone 5		
K0Fact	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor magnitude, zone 5		
K0FactAng	ABBIED600_Rev8_ASG_SG_i	Residual compensation factor		

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		angle, zone 5		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
Z1Mod	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reach, zone 5	E	ABBIED600:201 4
FltLoopZn	ABBIED600_Rev1_INS_e	Start sig-nals for phases A, B and C, zone 5	E	ABBIED600:201 4
OpModGnd	ABBIED600_Rev1_SPG_SG_e	Enabl e PE-loop mea-sure-ment, zone 5	E	ABBIED600:201 4
OpModPP	ABBIED600_Rev1_SPG_SG_e	Enabl e opti-onal phase se-quenc e su-pervi-sion for PP/3P - loops, zone 5	E	ABBIED600:201 4
R1	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive	E	ABBIED600:201 4

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		se-quenc e re-sistive reach, zone5		
X1Rv	ABBIED600_Rev8_ASG_SG_i_e	Pos. seq. reac-tive reach in rev. dir., non-dir. zone 5	E	ABBIED600:201 4
Z1Rv	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reach in rev. dir., non-dir. zone 5	E	ABBIED600:201 4
MinRisPP	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum resis-tive reach of PP/3P - loops, zone 5	E	ABBIED600:201 4
MaxRisPP	ABBIED600_Rev8_ASG_SG_i_e	Maxi-mum resis-tive reach of PP/3P - loops, zone 5	E	ABBIED600:201 4

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EnaLod-Comp	ABBIED600_Rev1_SPG_SG_e	Enable load com-pensation for PE-loops, zone 5	E	ABBIED600:2014
R0	ABBIED600_Rev8_ASG_SG_i_e	Zero se-quence re-sistive reach, zone 5	E	ABBIED600:2014
X0	ABBIED600_Rev8_ASG_SG_i_e	Zero se-quence reac-tive reach, zone 5	E	IEC 61850-7-4:2007
MinRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum resis-tive reach of PE-loops, zone 5	E	ABBIED600:2014
MaxRisGnd	ABBIED600_Rev8_ASG_SG_i_e	Maxi-mum resis-tive reach of PE-loops, zone 5	E	ABBIED600:2014
TiltAng	ABBIED600_Rev8_ASG_SG_i_e	Tilt angle (posi-tive value increa ses zone	E	ABBIED600:2014

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		area), zone 5		
ParLin-Comp	ABBIED600_Rev1_SPG_SG_e	Enable parallel line compensation for PE-loops, zone 5	E	ABBIED600:2014
Rm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual resistance, zone 5	E	ABBIED600:2014
Xm0	ABBIED600_Rev8_ASG_SG_i_e	Parallel line zero sequence mutual reactance, zone 5	E	ABBIED600:2014
DirRisZn	ABBIED600_Rev7_MV_simple_i_e	Resistance used in dir. eval., zone 5	E	ABBIED600:2014
DirReactZn	ABBIED600_Rev7_MV_simple_i_e	Reactance used in dir. eval., zone 5	E	ABBIED600:2014

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PhLoopRis1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop resis-tance, zone 5	E	ABBIED600:2014
PhLoopX1	ABBIED600_Rev7_MV_simple_i_e	First PE-loop reac-tance, zone 5	E	ABBIED600:2014
PhLoopRis2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop resis-tance, zone 5	E	ABBIED600:2014
PhLoopX2	ABBIED600_Rev7_MV_simple_i_e	Se-cond PE-loop reac-tance, zone 5	E	ABBIED600:2014
PPLoopRis	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop resis-tance, zone 5	E	ABBIED600:2014
PPLoopX	ABBIED600_Rev7_MV_simple_i_e	PP/3P-loop reac-tance, zone 5	E	ABBIED600:2014
PhReact	ABBIED600_Rev7_MV_simple_i_e	Phase to earth reac-tance in phase do-main, zone 5	E	ABBIED600:2014

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5.2.194 LN: DEFLPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / ope-rate time		
EnaV-Lim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
ARes-SigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.195 LN: DEFLRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Ex-planation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-haviour		
Dir	ABBIED600_Rev1_ACD_simple	Di-rec-tion		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Cha-rac-teris-tic angle		
MinFw-dAng	ABBIED600_Rev8_ASG_SG_i	Mini-mum phase angle in		

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		forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating		

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		voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between	E	ABBIED600:2014

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		operating and polarizing quantity		
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.196 LN: DEFLPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Ope-rating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tiplier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mini-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate Delay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Selec-tion of re-set curve type		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Di-recti-onal Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Vol-tage start value	E	IEC 61850-7-4:2007
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tiplier for	E	ABBIED600:2014

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		sca-ling the start value		
AllwNon Dir	ABBIED600_Rev2_SPG_SP_e	Al-lows prot acti-vation as non-dir when dir info is in-valid	E	ABBIED600:2014
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Se-lects used mea-sure-ment mode	E	ABBIED600:2014
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enabl es cur-rent mul-tiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
EnaV-Lim	ABBIED600_Rev1_SPG_SG_e	Enabl e vol-tage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity

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		out-puts		
ARes-SigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selec-tion for used Io signal	E	ABBIED600:2014

5.2.197 LN: DEFLRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mod e		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Dir	ABBIED600_Rev1_ACD_simple	Di-rec-tion		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Cha-rac-teris-tic angle		
MinFw-dAng	ABBIED600_Rev8_ASG_SG_i	Mini-mum phase angle in for-ward di-rec-tion		
Min-RvAng	ABBIED600_Rev8_ASG_SG_i	Mini-mum phase angle in re-verse		

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		direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay	E	ABBIED600:2014

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		characteristic angle control		
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle	E	ABBIED600:2014

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		between operating angle and characteristic angle		
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.198 LN: DEFLPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating curve type		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as	E	ABBIED600:2014

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		non-dir when dir info is invalid		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.199 LN: DEFLRDIR3 Name: RDIR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		

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MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014

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RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo	E	ABBIED600:2014

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		sig-nal		

5.2.200 LN: DEFLPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Ope-rating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tiplier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mini-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate Delay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selec-tion of		

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		reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current	E	ABBIED600:2014

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		multiplier		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaV-Lim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.201 LN: DEFLRDIR4 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		

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MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		

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BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014

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OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.202 LN: DEFLPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Ope-rating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tiplier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mini-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate Delay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Selec-tion of re-set curve type		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Di-recti-onal Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Vol-tage start value	E	IEC 61850-7-4:2007
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tiplier	E	ABBIED600:2014

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		for scaling the start value		
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		
ARes-SigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selec-tion for used Io signal	E	ABBIED600:2014

5.2.203 LN: DEFLRDIR5 Name: RDIR (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mod e		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Dir	ABBIED600_Rev1_ACD_simple	Di-rec-tion		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Cha-rac-teris-tic angle		
MinFw-dAng	ABBIED600_Rev8_ASG_SG_i	Mini-mum phase angle in for-ward di-rec-tion		
Min-RvAng	ABBIED600_Rev8_ASG_SG_i	Mini-mum phase angle in re-verse		

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		direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay	E	ABBIED600:2014

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		characteristic angle control		
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle	E	ABBIED600:2014

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		between operating angle and characteristic angle		
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.204 LN: DEFHPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub1	Operating Curve Type		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as	E	ABBIED600:2014

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		non-dir when dir info is in-valid		
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Se-lects used mea-sure-ment mode	E	ABBIED600:2014
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enabl es cur-rent mul-tiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
EnaV-Lim	ABBIED600_Rev1_SPG_SG_e	Enabl e vol-tage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,s tatus-only,direct-with-normal-secu-rity
ARes-SigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selec-tion for used Io signal	E	ABBIED600:2014

5.2.205 LN: DEFHRDIR1 Name: RDIR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		

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MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014

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RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo	E	ABBIED600:2014

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		sig-nal		

5.2.206 LN: DEFHPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub1	Ope-rating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tiplier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mini-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate Delay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selec-tion of		

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		reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current	E	ABBIED600:2014

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		multiplier		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaV-Lim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.207 LN: DEFHRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		

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MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		

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BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014

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OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.208 LN: DEFHPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub1	Ope-rating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tiplier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mini-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate Delay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv	Selec-tion of re-set curve type		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Di-recti-onal Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Vol-tage start value	E	IEC 61850-7-4:2007
StrVal-Mult	ABBIED600_Rev8_ASG_SG_i_e	Mul-tiplier	E	ABBIED600:2014

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		for scaling the start value		
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current multiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaVLim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		
ARes-SigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selec-tion for used Io signal	E	ABBIED600:2014

5.2.209 LN: DEFHRDIR3 Name: RDIR (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mod e		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Dir	ABBIED600_Rev1_ACD_simple	Di-rec-tion		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Cha-rac-teris-tic angle		
MinFw-dAng	ABBIED600_Rev8_ASG_SG_i	Mini-mum phase angle in for-ward di-rec-tion		
Min-RvAng	ABBIED600_Rev8_ASG_SG_i	Mini-mum phase angle in re-verse		

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		direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay	E	ABBIED600:2014

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		characteristic angle control		
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle	E	ABBIED600:2014

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		between operating angle and characteristic angle		
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.210 LN: DEFHPTOC4 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub1	Operating Curve Type		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selection of reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as	E	ABBIED600:2014

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		non-dir when dir info is in-valid		
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Se-lects used mea-sure-ment mode	E	ABBIED600:2014
InEnaMu lt	ABBIED600_Rev1_SPS_e	Enabl es cur-rent mul-tiplier	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
EnaV-Lim	ABBIED600_Rev1_SPG_SG_e	Enabl e vol-tage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,s tatus-only,direct-with-normal-secu-rity
ARes-SigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selec-tion for used Io signal	E	ABBIED600:2014

5.2.211 LN: DEFHRDIR4 Name: RDIR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		

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MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014

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RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo	E	ABBIED600:2014

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		sig-nal		

5.2.212 LN: DEFHPTOC5 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG_Sub1	Ope-rating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tiplier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mini-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate Delay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsCrv	Selec-tion of		

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		reset curve type		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
VStr	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	IEC 61850-7-4:2007
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Selects used measurement mode	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_e	Enables current	E	ABBIED600:2014

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		multiplier		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaV-Lim	ABBIED600_Rev1_SPG_SG_e	Enable voltage limit	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

5.2.213 LN: DEFHRDIR5 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		

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MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		

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BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpModEF	ABBIED600_Rev2_ENG_SG_OpModEF_e	Operation criteria	E	ABBIED600:2014
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014

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OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing quantity	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.214 LN: WPSDE1 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev8_ASG_SG_i	Voltage start value		
GndOp	ABBIED600_Rev8_ASG_SG_i	Current start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Directional mode		
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Power start value	E	IEC 61850-7-4:2007
TmACrv	ABBIED600_Rev5_CURVE_SG_setCharact_Sub4_e	Operating curve type	E	IEC 61850-7-4:2007

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TmMult	ABBIED600_Rev8_ASG_SG_i_e	Time multiplier	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
RefW	ABBIED600_Rev8_ASG_SG_i_e	Reference power	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

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5.2.215 LN: WRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction information		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Pol reversal	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing	E	ABBIED600:2014

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		quantity		
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for polarization signal	E	ABBIED600:2014

5.2.216 LN: WPSDE2 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev8_ASG_SG_i	Voltage start value		
GndOp	ABBIED600_Rev8_ASG_SG_i	Current start value		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate delay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Directional mode		
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Power start value	E	IEC 61850-7-4:2007
TmACrv	ABBIED600_Rev5_CURVE_SG_setCharact_Sub4_e	Operating curve type	E	IEC 61850-7-4:2007

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TmMult	ABBIED600_Rev8_ASG_SG_i_e	Time multiplier	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
RefW	ABBIED600_Rev8_ASG_SG_i_e	Reference power	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

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5.2.217 LN: WRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction information		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Pol reversal	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing	E	ABBIED600:2014

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		quantity		
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for polarization signal	E	ABBIED600:2014

5.2.218 LN: WPSDE3 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev8_ASG_SG_i	Voltage start value		
GndOp	ABBIED600_Rev8_ASG_SG_i	Current start value		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate delay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Directional mode		
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Power start value	E	IEC 61850-7-4:2007
TmACrv	ABBIED600_Rev5_CURVE_SG_setCharact_Sub4_e	Operating curve type	E	IEC 61850-7-4:2007

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TmMult	ABBIED600_Rev8_ASG_SG_i_e	Time multiplier	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
RefW	ABBIED600_Rev8_ASG_SG_i_e	Reference power	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measurement mode	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014

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5.2.219 LN: WRDIR3 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction information		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
CorAng	ABBIED600_Rev8_ASG_SP_i_e	Correction angle	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Pol reversal	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and polarizing	E	ABBIED600:2014

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		quantity		
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
InRcaCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for polarization signal	E	ABBIED600:2014

5.2.220 LN: INTRPTEF1 Name: PTEF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block		

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		signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev8_ASG_SG_i	Voltage start value		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operating current	E	IEC 61850-7-4:2007
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time	E	ABBIED600:2014

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		/ operate time		
PkCnt-Lim	ABBIED600_Rev2_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub11_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModTrsEF	ABBIED600_Rev4_ENG_SP_OpModTEF_e	Operation mode for function	E	ABBIED600:2014
VResSig-Sel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.221 LN: INTRPTEF2 Name: PTEF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev8_ASG_SG_i	Voltage start value		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional Mode		
OpDlTms	ABBIED600_Rev2_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
RsDlTms	ABBIED600_Rev2_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum operating current	E	IEC 61850-7-4:2007

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InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
PkCntLim	ABBIED600_Rev2_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub11_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModTrsEF	ABBIED600_Rev4_ENG_SP_OpModTEF_e	Operation mode for function	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

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5.2.222 LN: HAEFPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		

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TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
EnaRef	ABBIED600_Rev1_SPG_SG_e	Enable reference	E	ABBIED600:2014
HRmsA-Ref	ABBIED600_Rev7_WYE_res_simple_i_e	Reference current from other IEDs	E	ABBIED600:2014
BlkARef	ABBIED600_Rev1_SPS_e	Current comparison status indicator	E	ABBIED600:2014

5.2.223 LN: IFPTRC1 Name: PTRC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
TrgSt	ABBIED600_Rev1_SPS_e	External release	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub10_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
StrOpTm	ABBIED600_Rev7_MV_2_e	Actual operate time	E	ABBIED600:2014

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TmOpEst	ABBIED600_Rev7_MV_2_e	Time left to operate	E	ABBIED600:2014
EFTrMod	ABBIED600_Rev1_ENG_SP_EFTrMod_e	Operation mode	E	ABBIED600:2014
CrvClcMod	ABBIED600_Rev1_ENG_SP_CrvClcMod_e	IDMT calculation mode	E	ABBIED600:2014

5.2.224 LN: IFGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
FltLoop	ABBIED600_Rev5_ENS_FltLoop_e	Fault loop	E	IEC 61850-7-4:2007
EFDetVald	ABBIED600_Rev1_SPS_simple_e	Valid EF detection in protected feeder	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault	E	ABBIED600:2014
NonQualH	ABBIED600_Rev1_INS_e	Non qualified harmonics	E	ABBIED600:2014

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RvrtTmms	ABBIED600_Rev2_ING_SP_e	Revert time for delta-calcu-lation	E	ABBIED600:2014
DelMax-Tmms	ABBIED600_Rev2_ING_SP_e	Maxi-mum me-mory time for delta calcu-lation	E	ABBIED600:2014
HAEna	ABBIED600_Rev2_SPG_SP_e	Enable harmo-nics for fault current calcu-lation	E	ABBIED600:2014
PPVValXcn	ABBIED600_Rev8_ASG_SG_i_e	Ph-to-ph vol-tage start value for XC	E	ABBIED600:2014
FltA	ABBIED600_Rev7_WYE_res_simpler_i_e	Fault current	E	IEC 61850-7-4:2007
FltARms	ABBIED600_Rev7_MV_2_e	Fault current inclu-ding harmo-nics	E	ABBIED600:2014
FltPtRis	ABBIED600_Rev7_MV_2_e	Fault point resis-tance	E	ABBIED600:2014
AResReal	ABBIED600_Rev7_MV_2_e	Tran-sient resis-tive com-ponent	E	ABBIED600:2014

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5.2.225 LN: IFTPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG	Operation curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Current start value		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum operate time for IDMT curves		
MaxOpTmms	ABBIED600_Rev2_ING_SG	Maximum operate time for IDMT curves		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate		

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		delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
StrValV	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	ABBIED600:2014
TchVOpMod	ABBIED600_Rev2_ENG_SP_TchVOpMod_e	Operation principle	E	ABBIED600:2014
TchVMult	ABBIED600_Rev8_ASG_SG_i_e	UTp multiplier	E	ABBIED600:2014
FltRisComp	ABBIED600_Rev1_SPG_SG_e	Enable RF acceleration mode	E	ABBIED600:2014
RedFact	ABBIED600_Rev8_ASG_SG_i_e	Reduction factor	E	ABBIED600:2014
GndRisMax	ABBIED600_Rev8_ASG_SG_i_e	Maximum earthing resistance	E	ABBIED600:2014
EnaCycRs	ABBIED600_Rev1_SPG_SG_e	Enable cyclic reset	E	ABBIED600:2014
TchV	ABBIED600_Rev7_MV_2_e	Touch voltage magnitude	E	ABBIED600:2014
TchVRms	ABBIED600_Rev7_MV_2_e	Touch	E	ABBIED600:2014

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		voltage magnitude including harmonics		
StabDlTmms1	ABBIED600_Rev2_ING_SG_e	Stabilization delay	E	ABBIED600:2014
TmMult	ABBIED600_Rev8_ASG_SG_i	Time multiplier		
StabDlTmms2	ABBIED600_Rev2_ING_SG_e	Stabilization delay	E	ABBIED600:2014
CBCompTmms	ABBIED600_Rev2_ING_SP_e	CB delay compensation	E	ABBIED600:2014

5.2.226 LN: IFPTEF1 Name: PTEF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

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OpDlTmms	ABBIED600_Rev2_ING_SG_e	Intermittent EF operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SG_e	Reset delay time	E	IEC 61850-7-4:2007
PkCntLim	ABBIED600_Rev2_ING_SP_e	Peak counter limit	E	ABBIED600:2014
ItmEFInd	ABBIED600_Rev1_SPS_simple_e	Restriking (intermittent) earth fault detection	E	ABBIED600:2014
PkInd	ABBIED600_Rev1_SPS_simple_e	Intermittent peak detected	E	ABBIED600:2014

5.2.227 LN: IFPSOF1 Name: PSOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

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EnaTmms	ABBIED600_Rev2_ING_SP	SOTF con-dition dura-tion		
OpDlTmms	ABBIED600_Rev2_ING_SP	Ope-rate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
InCBClsCmd	ABBIED600_Rev1_SPS_simple_e	Brea-ker clo-sing com-mand	E	ABBIED600:2014

5.2.228 LN: IFPTRC2 Name: PTRC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
Str	ABBIED600_Rev1_ACD_simple	Start		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		

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RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
TrgSt	ABBIED600_Rev1_SPS_e	External release	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub10_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
StrOpTm	ABBIED600_Rev7_MV_2_e	Actual operate time	E	ABBIED600:2014
TmOpEst	ABBIED600_Rev7_MV_2_e	Time left to operate	E	ABBIED600:2014
EFTrMod	ABBIED600_Rev1_ENG_SP_EFTrMod_e	Operation mode	E	ABBIED600:2014
CrvClcMod	ABBIED600_Rev1_ENG_SP_CrvClcMod_e	IDMT calculation mode	E	ABBIED600:2014

5.2.229 LN: IFGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
FltLoop	ABBIED600_Rev5_ENS_FltLoop_e	Fault loop	E	IEC 61850-7-4:2007
EFDetVald	ABBIED600_Rev1_SPS_simple_e	Valid EF detection in protected feeder	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of a cross-country-fault	E	ABBIED600:2014
NonQualH	ABBIED600_Rev1_INS_e	Non qualified harmonics	E	ABBIED600:2014
RvrtTmms	ABBIED600_Rev2_ING_SP_e	Revert time for delta-calculation	E	ABBIED600:2014
DelMaxTmms	ABBIED600_Rev2_ING_SP_e	Maximum memory time for delta calculation	E	ABBIED600:2014
HAEna	ABBIED600_Rev2_SPG_SP_e	Enable harmonics for fault current calculation	E	ABBIED600:2014

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PPVValXcn	ABBIED600_Rev8_ASG_SG_i_e	Ph-to-ph voltage start value for XC	E	ABBIED600:2014
FltA	ABBIED600_Rev7_WYE_res_simpler_i_e	Fault current	E	IEC 61850-7-4:2007
FltARms	ABBIED600_Rev7_MV_2_e	Fault current including harmonics	E	ABBIED600:2014
FltPtRis	ABBIED600_Rev7_MV_2_e	Fault point resistance	E	ABBIED600:2014
AResReal	ABBIED600_Rev7_MV_2_e	Transient resistive component	E	ABBIED600:2014

5.2.230 LN: IFTPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG	Operation curve type		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Current start value		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum operate time for IDMT curves		
MaxOpTmms	ABBIED600_Rev2_ING_SG	Maximum operate time for IDMT curves		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
StrValV	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	ABBIED600:2014
TchVOpMod	ABBIED600_Rev2_ENG_SP_TchVOpMod_e	Operation principle	E	ABBIED600:2014
TchVMult	ABBIED600_Rev8_ASG_SG_i_e	UTp multiplier	E	ABBIED600:2014
FltRisComp	ABBIED600_Rev1_SPG_SG_e	Enable RF	E	ABBIED600:2014

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		acceleration mode		
RedFact	ABBIED600_Rev8_ASG_SG_i_e	Reduction factor	E	ABBIED600:2014
GndRisMax	ABBIED600_Rev8_ASG_SG_i_e	Maximum earthing resistance	E	ABBIED600:2014
EnaCycRs	ABBIED600_Rev1_SPG_SG_e	Enable cyclic reset	E	ABBIED600:2014
TchV	ABBIED600_Rev7_MV_2_e	Touch voltage magnitude	E	ABBIED600:2014
TchVRms	ABBIED600_Rev7_MV_2_e	Touch voltage magnitude including harmonics	E	ABBIED600:2014
StabDlTmms1	ABBIED600_Rev2_ING_SG_e	Start stabilization delay	E	ABBIED600:2014
TmMult	ABBIED600_Rev8_ASG_SG_i	Time multiplier		

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Stab-DlTmms2	ABBIED600_Rev2_ING_SG_e	Peak stabi-liza-tion delay	E	ABBIED600:2014
CBCompTmms	ABBIED600_Rev2_ING_SP_e	CB delay com-pen-sa-tion	E	ABBIED600:2014

5.2.231 LN: IFPTEF2 Name: PTEF (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Inter-mit-tent EF ope-rate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SG_e	Reset delay time	E	IEC 61850-7-4:2007
PkCntLim	ABBIED600_Rev2_ING_SP_e	Peak coun-ter li-mit	E	ABBIED600:2014
ItmEFInd	ABBIED600_Rev1_SPS_simple_e	Rest-riking	E	ABBIED600:2014

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		(intermittent) earth fault detection		
PkInd	ABBIED600_Rev1_SPS_simple_e	Intermittent peak detected	E	ABBIED600:2014

5.2.232 LN: IFPSOF2 Name: PSOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Off On	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
EnaTmms	ABBIED600_Rev2_ING_SP	SOTF condition duration		
OpDlTmms	ABBIED600_Rev2_ING_SP	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
InCBClsCmd	ABBIED600_Rev1_SPS_simple_e	Breaker	E	ABBIED600:2014

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		closing command		

5.2.233 LN: IFPTRC3 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
TrgSt	ABBIED600_Rev1_SPS_e	External release	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub10_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

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StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
StrOpTm	ABBIED600_Rev7_MV_2_e	Actual operate time	E	ABBIED600:2014
TmOpEst	ABBIED600_Rev7_MV_2_e	Time left to operate	E	ABBIED600:2014
EFTrMod	ABBIED600_Rev1_ENG_SP_EFTrMod_e	Operation mode	E	ABBIED600:2014
CrvClcMod	ABBIED600_Rev1_ENG_SP_CrvClcMod_e	IDMT calculation mode	E	ABBIED600:2014

5.2.234 LN: IFGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
FltLoop	ABBIED600_Rev5_ENS_FltLoop_e	Fault loop	E	IEC 61850-7-4:2007
EFDetVald	ABBIED600_Rev1_SPS_simple_e	Valid EF detection in protected feeder	E	ABBIED600:2014
XcnDet	ABBIED600_Rev1_SPS_simple_e	Indication of	E	ABBIED600:2014

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		a cross-country-fault		
NonQualH	ABBIED600_Rev1_INS_e	Non qualified harmonics	E	ABBIED600:2014
RvrtTmms	ABBIED600_Rev2_ING_SP_e	Revert time for delta calculation	E	ABBIED600:2014
DelMaxTmms	ABBIED600_Rev2_ING_SP_e	Maximum memory time for delta calculation	E	ABBIED600:2014
HAEna	ABBIED600_Rev2_SPG_SP_e	Enable harmonics for fault current calculation	E	ABBIED600:2014
PPVValXcn	ABBIED600_Rev8_ASG_SG_i_e	Ph-to-ph voltage start value for XC	E	ABBIED600:2014
FltA	ABBIED600_Rev7_WYE_res_simpler_i_e	Fault current	E	IEC 61850-7-4:2007
FltARms	ABBIED600_Rev7_MV_2_e	Fault current including harmonics	E	ABBIED600:2014
FltPtRis	ABBIED600_Rev7_MV_2_e	Fault point	E	ABBIED600:2014

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		resis-tance		
AResReal	ABBIED600_Rev7_MV_2_e	Tran-sient resis-tive com-ponent	E	ABBIED600:20 14

5.2.235 LN: IFTPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
TmACrv	ABBIED600_Rev6_CURVE_SG	Ope-ration curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Cur-rent start value		
Mi-nOpTmms	ABBIED600_Rev2_ING_SG	Mini-mum ope-rate time for IDM T cur-ves		
Ma-xOpTmms	ABBIED600_Rev2_ING_SG	Ma-xi-mum		

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		operate time for IDMT curves		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
StrValV	ABBIED600_Rev8_ASG_SG_i_e	Voltage start value	E	ABBIED600:2014
TchVOpMod	ABBIED600_Rev2_ENG_SP_TchVOpMod_e	Operation principle	E	ABBIED600:2014
TchVMult	ABBIED600_Rev8_ASG_SG_i_e	Utp multiplier	E	ABBIED600:2014
FltRisComp	ABBIED600_Rev1_SPG_SG_e	Enable RF acceleration mode	E	ABBIED600:2014
RedFact	ABBIED600_Rev8_ASG_SG_i_e	Reduction factor	E	ABBIED600:2014
GndRisMax	ABBIED600_Rev8_ASG_SG_i_e	Maximum earthing resistance	E	ABBIED600:2014
EnaCycRs	ABBIED600_Rev1_SPG_SG_e	Enable	E	ABBIED600:2014

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		cyclic reset		
TchV	ABBIED600_Rev7_MV_2_e	Touch voltage magnitude	E	ABBIED600:2014
TchVRms	ABBIED600_Rev7_MV_2_e	Touch voltage magnitude including harmonics	E	ABBIED600:2014
StabDlTmms1	ABBIED600_Rev2_ING_SG_e	Stabilization delay	E	ABBIED600:2014
TmMult	ABBIED600_Rev8_ASG_SG_i	Time multiplier		
StabDlTmms2	ABBIED600_Rev2_ING_SG_e	Stabilization delay	E	ABBIED600:2014
CBCompTmms	ABBIED600_Rev2_ING_SP_e	CB delay compensation	E	ABBIED600:2014

5.2.236 LN: IFPTEF3 Name: PTEF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Intermittent EF operate delay time	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SG_e	Reset delay time	E	IEC 61850-7-4:2007
PkCntLim	ABBIED600_Rev2_ING_SP_e	Peak counter limit	E	ABBIED600:2014
ItmEFInd	ABBIED600_Rev1_SPS_simple_e	Restriking (intermittent) earth fault detection	E	ABBIED600:2014
PkInd	ABBIED600_Rev1_SPS_simple_e	Intermittent peak detected	E	ABBIED600:2014

5.2.237 LN: IFPSOF3 Name: PSOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
EnaTmms	ABBIED600_Rev2_ING_SP	SOTF condition duration		
OpDlTmms	ABBIED600_Rev2_ING_SP	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset delay time	E	IEC 61850-7-4:2007
InCBClsCmd	ABBIED600_Rev1_SPS_simple_e	Breaker closing command	E	ABBIED600:2014

5.2.238 LN: M1PUPF1 Name: PUPF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Block value (minimum operating current)		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Block value (minimum operating voltage)		
StrRsVal	ABBIED600_Rev8_ASG_SG_i_e	Start reset value	E	ABBIED600:2014
PFStrDir	ABBIED600_Rev1_ENG_SG_PFDir_e	PF direction for start value	E	ABBIED600:2014
PFRsDir	ABBIED600_Rev1_ENG_SG_PFDir_e	PF direction for start reset value	E	ABBIED600:2014
VRv	ABBIED600_Rev2_SPG_SP_e	Rotate voltage signals	E	ABBIED600:2014
DsaTmms	ABBIED600_Rev2_ING_SP_1_e	Additional	E	ABBIED600:2014

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		wait time after CB clo-sing		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security
InDsaSt	ABBIED600_Rev1_SPS_e	Signal to block the func-tion during machi ne startup	E	ABBIED600:2014

5.2.239 LN: M2PUPF1 Name: PUPF (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Block value		

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		(minimum operating current)		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Block value (minimum operating voltage)		
StrRsVal	ABBIED600_Rev8_ASG_SG_i_e	Start reset value	E	ABBIED600:2014
PFStrDir	ABBIED600_Rev1_ENG_SG_PFDir_e	PF direction for start value	E	ABBIED600:2014
PFRsDir	ABBIED600_Rev1_ENG_SG_PFDir_e	PF direction for start reset value	E	ABBIED600:2014
VRv	ABBIED600_Rev2_SPG_SP_e	Rotate voltage signals	E	ABBIED600:2014
DsaTmms	ABBIED600_Rev2_ING_SP_1_e	Additional time for which function	E	ABBIED600:2014

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		is disable		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.240 LN: M1PUPF2 Name: PUPF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Block value (minimum operating current)		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Block value		

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		(minimum operating voltage)		
StrRsVal	ABBIED600_Rev8_ASG_SG_i_e	Start reset value	E	ABBIED600:2014
PFStrDir	ABBIED600_Rev1_ENG_SG_PFDir_e	PF direction for start value	E	ABBIED600:2014
PFRsDir	ABBIED600_Rev1_ENG_SG_PFDir_e	PF direction for start reset value	E	ABBIED600:2014
VRv	ABBIED600_Rev2_SPG_SP_e	Rotate voltage signals	E	ABBIED600:2014
DsaTmms	ABBIED600_Rev2_ING_SP_1_e	Additional wait time after CB closing	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
InDsaSt	ABBIED600_Rev1_SPS_e	Signal to block the function during machine startup	E	ABBIED600:2014

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5.2.241 LN: M2PUPF2 Name: PUPF (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Block value (mi-ni-mum ope-rating cur-rent)		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Block value (mi-ni-mum ope-rating vol-tage)		
StrRsVal	ABBIED600_Rev8_ASG_SG_i_e	Start reset value	E	ABBIED600:201 4
PFStrDir	ABBIED600_Rev1_ENG_SG_PFDir_ e	PF direc-tion	E	ABBIED600:201 4

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		for start value		
PFRsDir	ABBIED600_Rev1_ENG_SG_PFDir_e	PF direction for start reset value	E	ABBIED600:2014
VRv	ABBIED600_Rev2_SPG_SP_e	Rotate voltage signals	E	ABBIED600:2014
DsaTmms	ABBIED600_Rev2_ING_SP_1_e	Additional time for which function is disable	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.242 LN: PHPTUC1 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev8_ASG_SG_i	Current setting/Start value low		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev3_ENG_SP_OpModPh_e	Operation mode	E	ABBIED600:2014

5.2.243 LN: PHPTUC2 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev8_ASG_SG_i	Current setting/Start value low		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev3_ENG_SP_OpModPh_e	Operation mode	E	ABBIED600:2014

5.2.244 LN: PHPTUC3 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Current setting/Start value high		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev8_ASG_SG_i	Current setting/Start value low		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModPh	ABBIED600_Rev3_ENG_SP_OpModPh_e	Operation mode	E	ABBIED600:2014

5.2.245 LN: NSPTOC1 Name: PTOC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset		

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		Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.246 LN: NSPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		

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InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.247 LN: NSPTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal		

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		for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current	E	ABBIED600:2014

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		multiplier		
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.248 LN: PHPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		out-puts		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub6	Ope-ra-ting Curv e Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Re-set De-lay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv_Sub1_e	Type of Re-set Curv e	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel _Sub1_e	Num ber of phas es	E	ABBIED600:2014

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		required for operate activation		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phase	E	ABBIED600:2014

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		voltages		
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.249 LN: PHPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub6	Operating Curv		

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		e Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Re-set De-lay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsCrv_Sub1_e	Type of Re-set Curv e	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Num ber of phas es re-qui-red for ope-rate acti-va-tion	E	ABBIED600:2014

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for	E	ABBIED600:2014

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		operation		
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.250 LN: PHPTOV3 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub6	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial		

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		Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_Sub1_e	Type of Reset Curve	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.251 LN: PHPTOV4 Name: PTOV (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub6	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate		

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		Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_Sub1_e	Type of Reset Curve	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to	E	ABBIED600:2014

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		avoid curve discontinuities		
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.252 LN: PHVPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
IniAvVol	ABBIED600_Rev3_SPC_control_e	Initialize the voltage average measurement	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs	ABBIED600_Rev3_SPC_control_e	Reset the voltage average measurement values	E	ABBIED600:2014,status-only,direct-with-normal-security
OpDlTmMult	ABBIED600_Rev2_ING_SG_e	Operate delay time	E	ABBIED600:2014

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		multiplier		
AvIntvTmm	ABBIED600_Rev2_ING_SG_e	Time interval for average voltage calculation	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phas	E	ABBIED600:2014

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		e voltages		
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.253 LN: PHVPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
IniAvVol	ABBIED600_Rev3_SPC_control_e	Initialize the voltage average measurement	E	ABBIED600:2014,status-only,direct-with-normal-security
Rs	ABBIED600_Rev3_SPC_control_e	Reset the voltage average measurement values	E	ABBIED600:2014,status-only,direct-with-normal-security
OpDlTmMult	ABBIED600_Rev2_ING_SG_e	Operate delay time multiplier	E	ABBIED600:2014
AvIntvTmm	ABBIED600_Rev2_ING_SG_e	Time interval for average voltage calculation	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number	E	ABBIED600:2014

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		of phases required for operate activation		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		

5.2.254 LN: ROVPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Resi-dual Over Vol-tage start va-lue		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Re-set De-lay Time		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.255 LN: ROVPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Residual Over Voltage start value		

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OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.256 LN: ROVPTOV3 Name: PTOV (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Resi-dual Over Vol-tage start va-lue		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Re-set De-lay Time		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
StrDur	ABBIED600_Rev7_MV_2_e	Ra-tio of start time /	E	ABBIED600:2014

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		operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.257 LN: ROVPTOV4 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Residual Over Voltage start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014

5.2.258 LN: PHPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub7	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_Sub1_e	Type of Reset Curve	E	IEC 61850-7-4:2007
BlkVal	ABBIED600_Rev8_ASG_SP_i_e	Voltage block value	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to avoid curve	E	ABBIED600:2014

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		dis-con-tinui-ties		
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Para-me-ter to se-lect phas e or phas e-to-phas e vol-tages	E	ABBIED600:2014
EnaBlkVal	ABBIED600_Rev2_SPG_SP_e	Enab le block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Rela-tive hys-te-resis for ope-ra-tion	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.259 LN: PHPTUV2 Name: PTUV (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-secu-rity

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Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Ope-rate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub7	Ope-ra-ting Curv e Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Mul-tip-lier		
Mi-nOpTm ms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum Ope-rate Time		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
TypRsCr v	ABBIED600_Rev3_ENG_SG_TypRsC rv_Sub1_e	Type of	E	IEC 61850-7-4:2007

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		Reset Curve		
BlkVal	ABBIED600_Rev8_ASG_SP_i_e	Voltage block value	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014

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VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
EnaBlkVal	ABBIED600_Rev2_SPG_SP_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.260 LN: PHPTUV3 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block		

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		signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub7	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_Sub1_e	Type of Reset Curve	E	IEC 61850-7-4:2007
BlkVal	ABBIED600_Rev8_ASG_SP_i_e	Voltage	E	IEC 61850-7-4:2007

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		block value		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or	E	ABBIED600:2014

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		phase-to-phase voltages		
EnaBlkVal	ABBIED600_Rev2_SPG_SP_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.261 LN: PHPTUV4 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

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Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub7	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_Sub1_e	Type of Reset Curve	E	IEC 61850-7-4:2007
BlkVal	ABBIED600_Rev8_ASG_SP_i_e	Voltage block value	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases	E	ABBIED600:2014

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		required for operate activation		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014

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EnaBlkVal	ABBIED600_Rev2_SPG_SP_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.262 LN: PHPTUV5 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmVCrv	ABBIED600_Rev6_CURVE_SG_Sub7	Operating		

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		Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv_Sub1_e	Type of Reset Curve	E	IEC 61850-7-4:2007
BlkVal	ABBIED600_Rev8_ASG_SP_i_e	Voltage block value	E	IEC 61850-7-4:2007
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate	E	ABBIED600:2014

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		activation		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CrvSatRl	ABBIED600_Rev4_ASG_SP_f_e	Tuning parameter to avoid curve discontinuities	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_Sub1_e	Parameter to select phase or phase-to-phase voltages	E	ABBIED600:2014
EnaBlkVal	ABBIED600_Rev2_SPG_SP_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative	E	ABBIED600:2014

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		hys-te-resis for ope-ra-tion		
TypTmRs	ABBIED600_Rev2_ENG_SG_TypTmRs_e	Type of time reset	E	ABBIED600:2014

5.2.263 LN: PSPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
OpDlTms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

5.2.264 LN: PSPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for		

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		all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

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5.2.265 LN: PSPTOV3 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

5.2.266 LN: PSPTOV4 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate		

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		Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

5.2.267 LN: PSPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev8_ASG_SG_i_e	Voltage block value	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative	E	ABBIED600:2014

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		hys-te-resis for ope-ration		

5.2.268 LN: PSPTUV2 Name: PTUV (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
BlkVal	ABBIED600_Rev8_ASG_SG_i_e	Vol-tage block value	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

5.2.269 LN: PSPTUV3 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate		

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		Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
BlkVal	ABBIED600_Rev8_ASG_SG_i_e	Voltage block value	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Relative hysteresis for operation	E	ABBIED600:2014

5.2.270 LN: PSPTUV4 Name: PTUV (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Reset De-lay Time		
BlkVal	ABBIED600_Rev8_ASG_SG_i_e	Vol-tage block value	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_S ub2_e	Test cont-rol	E	ABBIED600:2014,status-only,direct-with-normal-security

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		for out-puts		
EnaBlkVal	ABBIED600_Rev1_SPG_SG_e	Enable block value	E	ABBIED600:2014
HysRl	ABBIED600_Rev8_ASG_SP_i_e	Rela-tive hys-te-resis for ope-ration	E	ABBIED600:2014

5.2.271 LN: BSTGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev3_SPC_control	RECV_SIG_1		status-only,di-rect-with-nor-mal-security
SPCSO2	ABBIED600_Rev3_SPC_control	RECV_SIG_2		status-only,di-rect-with-nor-mal-security
SPCSO3	ABBIED600_Rev3_SPC_control	RECV_SIG_3		status-only,di-rect-with-nor-mal-security
SPCSO4	ABBIED600_Rev3_SPC_control	RECV_SIG_4		status-only,di-rect-with-nor-mal-security
SPCSO5	ABBIED600_Rev3_SPC_control	RECV_SIG_5		status-only,di-rect-with-nor-mal-security
SPCSO6	ABBIED600_Rev3_SPC_control	RECV_SIG_6		status-only,di-rect-with-nor-mal-security
SPCSO7	ABBIED600_Rev3_SPC_control	RECV_SIG_7		status-only,di-rect-with-nor-mal-security

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SPCSO8	ABBIED600_Rev3_SPC_control	RECV_SIG_8		status-only,direct-with-normal-security
Alm1	ABBIED600_Rev1_SPS	SEND_SIG_A		
Alm2	ABBIED600_Rev1_SPS	RECV_SIG_A		
Ind1	ABBIED600_Rev1_SPS	SEND_SIG_1		
Ind2	ABBIED600_Rev1_SPS	SEND_SIG_2		
Ind3	ABBIED600_Rev1_SPS	SEND_SIG_3		
Ind4	ABBIED600_Rev1_SPS	SEND_SIG_4		
Ind5	ABBIED600_Rev1_SPS	SEND_SIG_5		
Ind6	ABBIED600_Rev1_SPS	SEND_SIG_6		
Ind7	ABBIED600_Rev1_SPS	SEND_SIG_7		
Ind8	ABBIED600_Rev1_SPS	SEND_SIG_8		
PlsTmms1	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 1	E	ABBIED600:2014
PlsTmms2	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 5	E	ABBIED600:2014

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PlsTmms6	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 8	E	ABBIED600:2014
AlmMod	ABBIED600_Rev3_ENG_SP_AlmMod_e	Alarm mode	E	ABBIED600:2014
Sig-Mod1	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 1 mode	E	ABBIED600:2014
Sig-Mod2	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 2 mode	E	ABBIED600:2014
Sig-Mod3	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 3 mode	E	ABBIED600:2014
Sig-Mod4	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 4 mode	E	ABBIED600:2014
Sig-Mod5	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 5 mode	E	ABBIED600:2014
Sig-Mod6	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 6 mode	E	ABBIED600:2014
Sig-Mod7	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 7 mode	E	ABBIED600:2014
Sig-Mod8	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 8 mode	E	ABBIED600:2014

5.2.272 LN: BSTGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SPCSO1	ABBIED600_Rev3_SPC_control	RECV_SIG_1		status-only,direct-with-normal-security
SPCSO2	ABBIED600_Rev3_SPC_control	RECV_SIG_2		status-only,direct-with-normal-security

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SPCSO3	ABBIED600_Rev3_SPC_control	RECV_SIG_3		status-only,direct-with-normal-security
SPCSO4	ABBIED600_Rev3_SPC_control	RECV_SIG_4		status-only,direct-with-normal-security
SPCSO5	ABBIED600_Rev3_SPC_control	RECV_SIG_5		status-only,direct-with-normal-security
SPCSO6	ABBIED600_Rev3_SPC_control	RECV_SIG_6		status-only,direct-with-normal-security
SPCSO7	ABBIED600_Rev3_SPC_control	RECV_SIG_7		status-only,direct-with-normal-security
SPCSO8	ABBIED600_Rev3_SPC_control	RECV_SIG_8		status-only,direct-with-normal-security
Alm1	ABBIED600_Rev1_SPS	SEND_SIG_A		
Alm2	ABBIED600_Rev1_SPS	RECV_SIG_A		
Ind1	ABBIED600_Rev1_SPS	SEND_SIG_1		
Ind2	ABBIED600_Rev1_SPS	SEND_SIG_2		
Ind3	ABBIED600_Rev1_SPS	SEND_SIG_3		
Ind4	ABBIED600_Rev1_SPS	SEND_SIG_4		
Ind5	ABBIED600_Rev1_SPS	SEND_SIG_5		
Ind6	ABBIED600_Rev1_SPS	SEND_SIG_6		
Ind7	ABBIED600_Rev1_SPS	SEND_SIG_7		
Ind8	ABBIED600_Rev1_SPS	SEND_SIG_8		
PlsTmms1	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 1	E	ABBIED600:2014

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PlsTmms2	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 2	E	ABBIED600:2014
PlsTmms3	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 3	E	ABBIED600:2014
PlsTmms4	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 4	E	ABBIED600:2014
PlsTmms5	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 5	E	ABBIED600:2014
PlsTmms6	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 6	E	ABBIED600:2014
PlsTmms7	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 7	E	ABBIED600:2014
PlsTmms8	ABBIED600_Rev2_ING_SG_e	Minimum pulse time for received signal 8	E	ABBIED600:2014
AlmMod	ABBIED600_Rev3_ENG_SP_AlmMod_e	Alarm mode	E	ABBIED600:2014
Sig-Mod1	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 1 mode	E	ABBIED600:2014
Sig-Mod2	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 2 mode	E	ABBIED600:2014
Sig-Mod3	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 3 mode	E	ABBIED600:2014
Sig-Mod4	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 4 mode	E	ABBIED600:2014
Sig-Mod5	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 5 mode	E	ABBIED600:2014
Sig-Mod6	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 6 mode	E	ABBIED600:2014
Sig-Mod7	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 7 mode	E	ABBIED600:2014

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Sig-Mod8	ABBIED600_Rev2_ENG_SG_BstMode_e	Signal 8 mode	E	ABBIED600:2014

5.2.273 LN: LNPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOnTest_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
Str	ABBIED600_Rev1_ACD_threephase	Start		
ProAct	ABBIED600_Rev1_SPS_e	Protection active	E	ABBIED600:2014

5.2.274 LN: LNLPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		

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DifAClc	ABBIED600_Rev7_WYE_threephase_simple_i	Differential Current		
RstA	ABBIED600_Rev7_WYE_threephase_simple_i	Restraint Current		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
RstMod	ABBIED600_Rev4_ENG_SP_RstMod_Sub1	Restraint mode		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
TmACrv	ABBIED600_Rev5_CURVE_SG_setCharact_Sub1	Operating Curve Type		
OpDlTmms	ABBIED600_Rev2_ING_SG_e	Operate Delay Time	E	IEC 61850-7-4:2007
TmMult	ABBIED600_Rev8_ASG_SG_i_e	Time Dial Multiplier	E	IEC 61850-7-4:2007
StrRem	ABBIED600_Rev1_ACD_threephase_e	Start stab. stage remote	E	ABBIED600:2014
OpRem	ABBIED600_Rev1_ACT_threephase_e	Operate stab. stage remote	E	ABBIED600:2014
Blk2HRemSt	ABBIED600_Rev1_ACT_threephase_e	Restrainted due 2nd harm. detected remote	E	ABBIED600:2014
Blk2HLocSt	ABBIED600_Rev1_ACT_threephase_e	Restrainted due	E	ABBIED600:2014

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		2nd harm. detected local		
EndScn1	ABBIED600_Rev8_ASG_SG_i_e	End section 1	E	ABBIED600:2014
SpeScn2	ABBIED600_Rev8_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
EndScn2	ABBIED600_Rev8_ASG_SG_i_e	End section 2	E	ABBIED600:2014
SpeScn3	ABBIED600_Rev8_ASG_SG_i_e	Slope section 3	E	ABBIED600:2014
Blk	ABBIED600_Rev1_SPS_simple	Blocks stab. stage		
Ang-LocRem A	ABBIED600_Rev7_MV_simple_i_e	Local and remote phase A angle difference	E	ABBIED600:2014
Ang-LocRem B	ABBIED600_Rev7_MV_simple_i_e	Local and remote phase B angle difference	E	ABBIED600:2014
Ang-LocRem C	ABBIED600_Rev7_MV_simple_i_e	Local and remote phase C angle difference	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, local	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub12_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
CTConnTyp	ABBIED600_Rev3_ENG_SP_CTConnTyp_e	CT connection type. Determined by the directions of the connected current transformers.	E	ABBIED600:2014
WndSel	ABBIED600_Rev3_ENG_SP_WndSel_Sub1_e	Winding selection, HV or LV side of transformer	E	ABBIED600:2014
Wnd1Typ	ABBIED600_Rev4_ENG_SP_Wnd1Typ_e	Winding 1 type	E	ABBIED600:2014
Wnd2Typ	ABBIED600_Rev4_ENG_SP_Wnd2Typ_e	Winding 2 type	E	ABBIED600:2014
ClkNum	ABBIED600_Rev3_ENG_SP_ClkNum_e	Phase shift	E	ABBIED600:2014
ZroAElm	ABBIED600_Rev5_ENG_SP_ZroAElm_Sub1_e	Zro A elimination	E	ABBIED600:2014

5.2.275 LN: LNHPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_threephase	Operate		

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		inst. stage local		
HiSet	ABBIED600_Rev8_ASG_SG_i	High operate value		
Hi-SetMult	ABBIED600_Rev8_ASG_SG_i_e	High Op value Mult	E	ABBIED600:2014
InEnaMult	ABBIED600_Rev1_SPS_simple_e	Enables the high stage multiplier	E	ABBIED600:2014
OpRem	ABBIED600_Rev1_ACT_threephase_e	Operate inst. stage remote	E	ABBIED600:2014

5.2.276 LN: LNRMXU1 Name: RMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ARem	ABBIED600_Rev7_WYE_4_e	Operate Current of the remote current measurement	E	ABBIED600:2014
ALoc	ABBIED600_Rev7_WYE_4	Operate Current of the local current measurement		

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CTRatCor	ABBIED600_Rev8_ASG_SP_i_e	Current transformer ratio difference correction	E	ABBIED600:2014

5.2.277 LN: PCSITPC1 Name: ITPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Health	ABBIED600_Rev6_ENS_health	Health		
EEHealth	ABBIED600_Rev1_ENS_health_LineDiff	Health		
LoopTestTm	ABBIED600_Rev7_MV_simple_i	Time measured at last loop test		
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset Delay Time	E	IEC 61850-7-4:2007
HealthWrn	ABBIED600_Rev1_SPS_e	Warning	E	ABBIED600:2014
HealthOk	ABBIED600_Rev1_SPS_e	Ok	E	ABBIED600:2014
HealthAlm	ABBIED600_Rev1_SPS_e	Alarm	E	ABBIED600:2014
Comm	ABBIED600_Rev1_SPS_e	Comm	E	ABBIED600:2014
RxErrGen	ABBIED600_Rev3_INC_control_int_e	Rx error generate	E	ABBIED600:2014,status-only,direct-with-normal-security
SmplLty	ABBIED600_Rev7_MV_simple_i_e	Measured sample latency	E	ABBIED600:2014

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AlmCntRs	ABBIED600_Rev3_INC_control_int_e	Alarm count	E	ABBIED600:2014,status-only,direct-with-normal-security
WrnCntRs	ABBIED600_Rev3_INC_control_int_e	Warning count	E	ABBIED600:2014,status-only,direct-with-normal-security
PropDl	ABBIED600_Rev7_MV_simple_i_e	Measured propagation delay	E	ABBIED600:2014

5.2.278 LN: HREFPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value, percentage of		

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		the nominal current		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.279 LN: HREFPDIF2 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block		

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		signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.280 LN: HIAPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value, percentage of the nominal current		

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MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.281 LN: HIAPDIF2 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low ope-rate va-lue, per-cen-tage of the no-mi-nal cur-rent		
Mi-nOpTmms	ABBIED600_Rev2_ING_SG	Mi-ni-mum Ope-rate Time		
RsDlTms	ABBIED600_Rev2_ING_SP	Re-set De-lay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / ope-rate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,sta tus-only,direct-with-normal-security

5.2.282 LN: HIAPDIF3 Name: PDIF (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low ope-rate va-lue, per-cen-tage of the no-mi-nal cur-rent		
Mi-nOpTmm s	ABBIED600_Rev2_ING_SG	Mi-ni-mum Ope-rate Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP	Re-set		

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		Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.283 LN: HIBPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate		

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		value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.284 LN: HIBPDIF2 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.285 LN: HIBPDIF3 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value, percentage of the		

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		nominal current		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.286 LN: HICPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal		

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		for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		

5.2.287 LN: HICPDIF2 Name: PDIF (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low ope-rate va-lue, per-cen-tage of the no-mi-nal cur-rent		
Mi-nOpTmm s	ABBIED600_Rev2_ING_SG	Mi-ni-mum		

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		Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.288 LN: HICPDIF3 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.289 LN: NSPTOV1 Name: PTOV (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control	E	ABBIED600:2014,status-only,direct-with-normal-security

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		for out-puts		

5.2.290 LN: NSPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Re-set De-lay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ra-tio of start time	E	ABBIED600:2014

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		/ operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.291 LN: NSPTOV3 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset		

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		Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.292 LN: NSPTOV4 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		

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OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.293 LN: FRPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.294 LN: FRPTOF1 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfre-quency	E	ABBIED600:2014

5.2.295 LN: FRPTUF1 Name: PTUF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, un-derfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, un-derfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.296 LN: FRPFRC1 Name: PFRC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, frequency gradient	E	ABBIED600:2014

5.2.297 LN: FRPTRC2 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.298 LN: FRPTOF2 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfrequency	E	ABBIED600:2014

5.2.299 LN: FRPTUF2 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.300 LN: FRPFRC2 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time,	E	ABBIED600:2014

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		frequency gradient		

5.2.301 LN: FRPTRC3 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.302 LN: FRPTOF3 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfrequency	E	ABBIED600:2014

5.2.303 LN: FRPTUF3 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, underfrequency	E	ABBIED600:2014

5.2.304 LN: FRPFRC3 Name: PFRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, frequency gradient		
Op	ABBIED600_Rev1_ACT_simple	Operate, frequency gradient		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, frequency gradient	E	ABBIED600:2014

5.2.305 LN: FRPTRC4 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.306 LN: FRPTOF4 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start	E	ABBIED600:2014

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		time / operate time, overfre-quency		

5.2.307 LN: FRPTUF4 Name: PTUF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, un-derfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, un-derfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.308 LN: FRPFRC4 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, fre-quency gra-dient	E	ABBIED600:2014

5.2.309 LN: FRPTRC5 Name: PTRC (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_ FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k		

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		signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.310 LN: FRPTOF5 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate,		

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		overfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfre-quency	E	ABBIED600:2014

5.2.311 LN: FRPTUF5 Name: PTUF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, un-derfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, un-derfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start	E	ABBIED600:2014

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		time / operate time, un-derfre-quency		

5.2.312 LN: FRPFRC5 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, fre-quency gra-dient	E	ABBIED600:2014

5.2.313 LN: FRPTRC6 Name: PTRC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.314 LN: FRPTOF6 Name: PTOF (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfrequency	E	ABBIED600:2014

5.2.315 LN: FRPTUF6 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.316 LN: FRPFRC6 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, frequency gradient	E	ABBIED600:2014

5.2.317 LN: FRPTRC7 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		ope-rate time		
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Ope-ration mode	E	ABBIED600:2014

5.2.318 LN: FRPTOF7 Name: PTOF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, overfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfre-quency	E	ABBIED600:2014

5.2.319 LN: FRPTUF7 Name: PTUF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, un-derfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, un-derfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.320 LN: FRPFRC7 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency		

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		gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, fre-quency gra-dient	E	ABBIED600:2014

5.2.321 LN: FRPTRC8 Name: PTRC (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_ FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
Str	ABBIED600_Rev1_ACD_simple	Start		

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.322 LN: FRPTOF8 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start	E	ABBIED600:2014

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		time / operate time, overfre-quency		

5.2.323 LN: FRPTUF8 Name: PTUF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, un-derfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, un-derfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.324 LN: FRPFRC8 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, fre-quency gra-dient	E	ABBIED600:2014

5.2.325 LN: FRPTRC9 Name: PTRC (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_ FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k		

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		signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.326 LN: FRPTOF9 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate,		

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		overfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfre-quency	E	ABBIED600:2014

5.2.327 LN: FRPTUF9 Name: PTUF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, un-derfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, un-derfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start	E	ABBIED600:2014

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		time / operate time, un-derfre-quency		

5.2.328 LN: FRPFRC9 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, fre-quency gra-dient	E	ABBIED600:2014

5.2.329 LN: FRPTRC10 Name: PTRC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.330 LN: FRPTOF10 Name: PTOF (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfrequency	E	ABBIED600:2014

5.2.331 LN: FRPTUF10 Name: PTUF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, underfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, underfrequency		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.332 LN: FRPFRC10 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, frequency gradient	E	ABBIED600:2014

5.2.333 LN: FRPTRC11 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		ope-rate time		
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Ope-ration mode	E	ABBIED600:2014

5.2.334 LN: FRPTOF11 Name: PTOF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, overfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, overfre-quency	E	ABBIED600:2014

5.2.335 LN: FRPTUF11 Name: PTUF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, un-derfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, un-derfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.336 LN: FRPFRC11 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency		

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		gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, fre-quency gra-dient	E	ABBIED600:2014

5.2.337 LN: FRPTRC12 Name: PTRC (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_ FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
Str	ABBIED600_Rev1_ACD_simple	Start		

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub7_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
OpModProHz	ABBIED600_Rev2_ENG_SG_OpModProHz_e	Operation mode	E	ABBIED600:2014

5.2.338 LN: FRPTOF12 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start, overfrequency		
Op	ABBIED600_Rev1_ACT_simple	Operate, overfrequency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start	E	ABBIED600:2014

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		time / operate time, overfre-quency		

5.2.339 LN: FRPTUF12 Name: PTUF (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, un-derfre-quency		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, un-derfre-quency		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, un-derfre-quency	E	ABBIED600:2014

5.2.340 LN: FRPFRC12 Name: PFRC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start, fre-quency gra-dient		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate, fre-quency gra-dient		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value df/dt		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time, fre-quency gra-dient	E	ABBIED600:2014

5.2.341 LN: LSHDPTRC1 Name: PTRC (ED2)

Attribute name	Attribute type	Ex-pla-nati on	M/O /E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_ FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viou r		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev2_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub13_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_Sub2_e	Operation mode	E	ABBIED600:2014

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5.2.342 LN: LSHDPTOF1 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev8_ASG_SG_i	Restore frequency		
ManRest	ABBIED600_Rev3_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev3_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.343 LN: LSHDPTRC2 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Op	ABBIED600_Rev1_ACT_simple	Ope rate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev2_ING_SG	Tim e de-lay to res-tore		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Re-set De-lay Tim e		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub13_e	Test cont rol for out-puts	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity
StrDur	ABBIED600_Rev7_MV_2_e	Ra-tio of start time / ope-rate time	E	ABBIED600:2014

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LodShd Mod	ABBIED600_Rev2_ENG_SG_OpModProHz_Sub2_e	Operation mode	E	ABBIED600:2014

5.2.344 LN: LSHDPTOF2 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev8_ASG_SG_i	Restore frequency		
ManRest	ABBIED600_Rev3_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev3_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.345 LN: LSHDPTRC3 Name: PTRC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTms	ABBIED600_Rev2_ING_SG	Time delay to restore		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub13_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of	E	ABBIED600:2014

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		start time / ope-rate time		
LodShd Mod	ABBIED600_Rev2_ENG_SG_OpModProHz_Sub2_e	Ope ra-tion mod e	E	ABBIED600:2014

5.2.346 LN: LSHDPTOF3 Name: PTOF (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start of res-tore		
Op	ABBIED600_Rev1_ACT_simple	Res-tore the load		
StrVal	ABBIED600_Rev8_ASG_SG_i	Res-tore fre-quenc y		
Man-Rest	ABBIED600_Rev3_SPC_control_e	Ma-nual res-tore com-mand	E	ABBIED600:2014,st atus-only,direct-with-normal-security
Rest-Mod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Res-tore mode	E	ABBIED600:2014

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BlkRest	ABBIED600_Rev3_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.347 LN: LSHDPTRC4 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev2_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub13_e	Test cont	E	ABBIED600:2014,status-only,direct-

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		rol for out-puts		with-normal-secu-rity
StrDur	ABBIED600_Rev7_MV_2_e	Ra-tio of start time / ope-rate time	E	ABBIED600:2014
LodShd Mod	ABBIED600_Rev2_ENG_SG_OpModPr oHz_Sub2_e	Ope ra-tion mod e	E	ABBIED600:2014

5.2.348 LN: LSHDPTOF4 Name: PTOF (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start of res-tore		
Op	ABBIED600_Rev1_ACT_simple	Res-tore the load		
StrVal	ABBIED600_Rev8_ASG_SG_i	Res-tore fre-quenc y		
Man-Rest	ABBIED600_Rev3_SPC_control_e	Ma-nual res-tore	E	ABBIED600:2014,st atus-only,direct-with-normal-security

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		com-mand		
Rest-Mod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Res-tore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev3_SPC_control_e	Can-cel res-tore	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.349 LN: LSHDPTRC5 Name: PTRC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev2_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub13_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_Sub2_e	Operation mode	E	ABBIED600:2014

5.2.350 LN: LSHDPTOF5 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		
Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev8_ASG_SG_i	Restore		

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		frequency		
ManRest	ABBIED600_Rev3_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev3_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.351 LN: LSHDPTRC6 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
OpDlTmms	ABBIED600_Rev2_ING_SG	Time delay to restore		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay		

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		Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub13_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
LodShdMod	ABBIED600_Rev2_ENG_SG_OpModProHz_Sub2_e	Operation mode	E	ABBIED600:2014

5.2.352 LN: LSHDPTOF6 Name: PTOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start of restore		

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Op	ABBIED600_Rev1_ACT_simple	Restore the load		
StrVal	ABBIED600_Rev8_ASG_SG_i	Restore frequency		
ManRest	ABBIED600_Rev3_SPC_control_e	Manual restore command	E	ABBIED600:2014,status-only,direct-with-normal-security
RestMod	ABBIED600_Rev2_ENG_SG_AutoManMod_e	Restore mode	E	ABBIED600:2014
BlkRest	ABBIED600_Rev3_SPC_control_e	Cancel restore	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.353 LN: ARCSARC11 Name: SARC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beh		
FACntRs	ABBIED600_Rev3_INC_control_int	Fault arc counter		status-only,direct-with-normal-security
FADet	ABBIED600_Rev1_SPS	Fault arc detected		
Blk	ABBIED600_Rev1_SPS_simple	Block signal		

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		for all binary outputs		
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	ABBIED600:2014
SpvnAlm	ABBIED600_Rev1_SPS_simple_e	Self supervision alarm	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub23_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SenSpvn	ABBIED600_Rev2_SPG_SP_e	Sensor supervision	E	ABBIED600:2014

5.2.354 LN: ARCPTRC11 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beh		
Op	ABBIED600_Rev1_ACT_simple	Operate		
OpModArc	ABBIED600_Rev2_ENG_SG_OpModArc_e	Operation mode	E	ABBIED600:2014

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InOpMod	ABBIED600_Rev1_SPS_e	Operation mode input	E	ABBIED600:2014

5.2.355 LN: ARCSARC21 Name: SARC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beh		
FACntRs	ABBIED600_Rev3_INC_control_int	Fault arc counter		status-only,direct-with-normal-security
FADet	ABBIED600_Rev1_SPS	Fault arc detected		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	ABBIED600:2014
SpvnAlm	ABBIED600_Rev1_SPS_simple_e	Self supervision	E	ABBIED600:2014

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		alarm		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub23_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SenSpvn	ABBIED600_Rev2_SPG_SP_e	Sensor supervision	E	ABBIED600:2014

5.2.356 LN: ARCPTRC21 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beh		
Op	ABBIED600_Rev1_ACT_simple	Operate		
OpModArc	ABBIED600_Rev2_ENG_SG_OpModArc_e	Operation mode	E	ABBIED600:2014
InOpMod	ABBIED600_Rev1_SPS_e	Operation mode input	E	ABBIED600:2014

5.2.357 LN: ARCSARC31 Name: SARC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beh		
FACntRs	ABBIED600_Rev3_INC_control_int	Fault arc		status-only,direct-with-normal-security

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		counter		
FADet	ABBIED600_Rev1_SPS	Fault arc detected		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	ABBIED600:2014
SpvnAlm	ABBIED600_Rev1_SPS_simple_e	Self supervision alarm	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub23_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SenSpvn	ABBIED600_Rev2_SPG_SP_e	Sensor supervision	E	ABBIED600:2014

5.2.358 LN: ARCPTRC31 Name: PTRC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beh		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
OpMo-dArc	ABBIED600_Rev2_ENG_SG_OpModAr c_e	Ope-ration mode	E	ABBIED600:201 4
InOpMo d	ABBIED600_Rev1_SPS_e	Ope-ration mode input	E	ABBIED600:201 4

5.2.359 LN: ARCSARC41 Name: SARC (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beh		
FAC-ntRs	ABBIED600_Rev3_INC_control_int	Fault arc coun ter		status-only,direct-with-normal-security
FADet	ABBIED600_Rev1_SPS	Fault arc de-tec-ted		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		

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InRemFA	ABBIED600_Rev1_SPS_e	Remote Fault arc detected	E	ABBIED600:2014
SpvnAlm	ABBIED600_Rev1_SPS_simple_e	Self supervision alarm	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub23_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SenSpvn	ABBIED600_Rev2_SPG_SP_e	Sensor supervision	E	ABBIED600:2014

5.2.360 LN: ARCPTRC41 Name: PTRC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beh		
Op	ABBIED600_Rev1_ACT_simple	Operate		
OpModArc	ABBIED600_Rev2_ENG_SG_OpModArc_e	Operation mode	E	ABBIED600:2014
InOpMod	ABBIED600_Rev1_SPS_e	Operation mode input	E	ABBIED600:2014

5.2.361 LN: CHSMHAI1 Name: MHAI (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
HA	ABBIED600_Rev10_HWYE_threephase2_11	Mean value in 3 s, 1 min or 5 min mean		
ThdA	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of THD in 3 s, 1 min or 5 min mean (%)		
TddA	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of TDD in 3 s, 1 min or 5 min mean in %		
ClcMth	ABBIED600_Rev4_ENG_SP_ClcMth	Calculation method of statistical data objects		

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ClcMod	ABBIED600_Rev3_ENG_SP_ClcMod	Calculation mode		
ClcSrc	ABBIED600_Rev6_ORG_SP_1	Object reference to source logical node		
AvgIntv	ABBIED600_Rev3_ENG_SP_AvgIntv_e	Time interval for demand calculation	E	ABBIED600:2014
H00A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of DC component in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H01A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of basic freq. in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H02A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of	E	ABBIED600:2014

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		2nd harmonic in 3 s, 1 min or 5 min mean		
H03A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 3rd harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H04A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 4th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H05A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 5th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H06A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 6th harmonic in	E	ABBIED600:2014

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		3 s, 1 min or 5 min mean		
H07A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 7th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H08A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 8th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H09A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 9th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H10A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 10th harmonic in 3 s, 1 min or 5	E	ABBIED600:2014

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		min mean		
H11A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 11th har-mo-nic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014

5.2.362 LN: CHLMHAI1 Name: MHAI (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
HA	ABBIED600_Rev10_HWYE_threephase2_11	Mean value in 10 min non-sli-ding mean in %		
ThdA	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of THD in 10 min non-sli-ding mean in %		
TddA	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value		

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		of TDD in 10 min non-sli-ding mean in %		
ClcMth	ABBIED600_Rev4_ENG_SP_ClcMth	Cal-cula-tion met-hod of statis-tical data ob-jects		
ClcMod	ABBIED600_Rev3_ENG_SP_ClcMod	Cal-cula-tion mode		
ClcSrc	ABBIED600_Rev6_ORG_SP_1	Ob-ject refe-rence to sourc e lo-gical node		
H00A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of DC com-ponent in 10 min non-sli-ding mean	E	ABBIED600:2014

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H01A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of basic freq. in 10 min non-sliding mean	E	ABBIED600:2014
H02A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 2nd harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H03A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 3rd harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H04A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 4th harmonic in 10 min non-sliding mean	E	ABBIED600:2014

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H05A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 5th harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H06A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 6th harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H07A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 7th harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H08A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 8th harmonic in 10 min non-sliding mean	E	ABBIED600:2014

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H09A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 9th harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H10A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 10th harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H11A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 11th harmonic in 10 min non-sliding mean	E	ABBIED600:2014

5.2.363 LN: CHSMHAI2 Name: MHAI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
HA	ABBIED600_Rev10_HWYE_threephase2_1 1	Mean value in 3 s, 1 min or 5 min mean		
ThdA	ABBIED600_Rev7_WYE_threephase_simpl e_i	Mean value of THD in 3 s, 1 min or 5 min mean (%)		
TddA	ABBIED600_Rev7_WYE_threephase_simpl e_i	Mean value of TDD in 3 s, 1 min or 5 min mean in %		
ClcMt h	ABBIED600_Rev4_ENG_SP_ClcMth	Cal-cula-tion met-hod of statis-tical data ob-jects		
ClcMo d	ABBIED600_Rev3_ENG_SP_ClcMod	Cal-cula-tion mode		
ClcSrc	ABBIED600_Rev6_ORG_SP_1	Ob-ject		

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		reference to source logical node		
AvgIntv	ABBIED600_Rev3_ENG_SP_AvgIntv_e	Time interval for demand calculation	E	ABBIED600:2014
H00A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of DC component in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H01A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of basic freq. in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H02A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 2nd harmonic in 3 s, 1 min or 5	E	ABBIED600:2014

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		min mean		
H03A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 3rd harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H04A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 4th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H05A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 5th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H06A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 6th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014

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H07A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 7th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H08A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 8th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H09A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 9th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H10A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 10th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H11A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of	E	ABBIED600:2014

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		11th harmonic in 3 s, 1 min or 5 min mean		

5.2.364 LN: CHLMHAI2 Name: MHAI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
HA	ABBIED600_Rev10_HWYE_threephase2_11	Mean value in 10 min non-sliding mean in %		
ThdA	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of THD in 10 min non-sliding mean in %		
TddA	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of TDD in 10 min non-		

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		sli-ding mean in %		
ClcMth	ABBIED600_Rev4_ENG_SP_ClcMth	Cal-cula-tion met-hod of statis-tical data ob-jects		
ClcMod	ABBIED600_Rev3_ENG_SP_ClcMod	Cal-cula-tion mode		
ClcSrc	ABBIED600_Rev6_ORG_SP_1	Ob-ject refe-rence to sourc e lo-gical node		
H00A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of DC com-pone nt in 10 min non-sli-ding mean	E	ABBIED600:2014
H01A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of ba-sic freq. in 10	E	ABBIED600:2014

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		min non-sli-ding mean		
H02A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 2nd har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H03A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 3rd har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H04A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 4th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H05A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 5th har-mo-nic in	E	ABBIED600:2014

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		10 min non-sli-ding mean		
H06A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 6th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H07A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 7th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H08A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 8th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H09A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 9th har-mo-nic in	E	ABBIED600:2014

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		10 min non-sli-ding mean		
H10A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 10th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H11A	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 11th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014

5.2.365 LN: VHSMHAI1 Name: MHAI (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
HPhV	ABBIED600_Rev10_HWYE_threephase2_11	Mean value in 3 s, 1 min or 5		

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		min mean		
ThdPhV	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of THD in 3 s, 1 min or 5 min mean (%)		
ClcMth	ABBIED600_Rev4_ENG_SP_ClcMth	Calculation method of statistical data objects		
ClcMod	ABBIED600_Rev3_ENG_SP_ClcMod	Calculation mode		
ClcSrc	ABBIED600_Rev6_ORG_SP_1	Object reference to source logical node		
AvgIntv	ABBIED600_Rev3_ENG_SP_AvgIntv_e	Time interval for demand calculation	E	ABBIED600:2014
H00PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value	E	ABBIED600:2014

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		of DC component in 3 s, 1 min or 5 min mean		
H01PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of basic freq. in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H02PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 2nd harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H03PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 3rd harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H04PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 4th	E	ABBIED600:2014

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		har-mo-nic in 3 s, 1 min or 5 min mean		
H05PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 5th har-mo-nic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H06PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 6th har-mo-nic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H07PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 7th har-mo-nic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H08PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 8th har-mo-nic in 3 s, 1	E	ABBIED600:2014

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		min or 5 min mean		
H09PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 9th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H10PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 10th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H11PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 11th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014

5.2.366 LN: VHLMHAI1 Name: MHAI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
HPhV	ABBIED600_Rev10_HWYE_threephase2_11	Mean value in 10 min non-sliding mean in %		
ThdPhV	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of THD in 10 min non-sliding mean in %		
ClcMth	ABBIED600_Rev4_ENG_SP_ClcMth	Calculation method of statistical data objects		
ClcMod	ABBIED600_Rev3_ENG_SP_ClcMod	Calculation mode		
ClcSrc	ABBIED600_Rev6_ORG_SP_1	Object reference to source logical node		

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H00PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of DC component in 10 min non-sliding mean	E	ABBIED600:2014
H01PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of basic freq. in 10 min non-sliding mean	E	ABBIED600:2014
H02PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 2nd harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H03PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 3rd harmonic in 10 min non-	E	ABBIED600:2014

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		sli-ding mean		
H04PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 4th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H05PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 5th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H06PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 6th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H07PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 7th har-mo-nic in 10 min non-	E	ABBIED600:2014

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		sli-ding mean		
H08PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 8th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H09PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 9th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H10PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 10th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H11PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 11th har-mo-nic in 10	E	ABBIED600:2014

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		min non-sli-ding mean		

5.2.367 LN: VHSMHAI2 Name: MHAI (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
HPhV	ABBIED600_Rev10_HWYE_threephase2_11	Mean value in 3 s, 1 min or 5 min mean		
ThdPhV	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of THD in 3 s, 1 min or 5 min mean (%)		
ClcMth	ABBIED600_Rev4_ENG_SP_ClcMth	Cal-cula-tion met-hod of statis-tical data ob-jects		

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ClcMod	ABBIED600_Rev3_ENG_SP_ClcMod	Calculation mode		
ClcSrc	ABBIED600_Rev6_ORG_SP_1	Object reference to source logical node		
AvgIntv	ABBIED600_Rev3_ENG_SP_AvgIntv_e	Time interval for demand calculation	E	ABBIED600:2014
H00PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of DC component in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H01PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of basic freq. in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H02PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of	E	ABBIED600:2014

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		2nd harmonic in 3 s, 1 min or 5 min mean		
H03PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 3rd harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H04PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 4th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H05PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 5th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H06PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 6th harmonic in	E	ABBIED600:2014

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		3 s, 1 min or 5 min mean		
H07PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 7th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H08PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 8th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H09PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 9th harmonic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014
H10PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 10th harmonic in 3 s, 1 min or 5	E	ABBIED600:2014

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		min mean		
H11PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 11th har-mo-nic in 3 s, 1 min or 5 min mean	E	ABBIED600:2014

5.2.368 LN: VHLMHAI2 Name: MHAI (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
HPhV	ABBIED600_Rev10_HWYE_threephase2_11	Mean value in 10 min non-sli-ding mean in %		
ThdPhV	ABBIED600_Rev7_WYE_threephase_simple_i	Mean value of THD in 10 min non-sli-ding mean in %		

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ClcMth	ABBIED600_Rev4_ENG_SP_ClcMth	Calculation method of statistical data objects		
ClcMod	ABBIED600_Rev3_ENG_SP_ClcMod	Calculation mode		
ClcSrc	ABBIED600_Rev6_ORG_SP_1	Object reference to source logical node		
H00PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of DC component in 10 min non-sliding mean	E	ABBIED600:2014
H01PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of basic freq. in 10 min non-sliding mean	E	ABBIED600:2014

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H02PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 2nd harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H03PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 3rd harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H04PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 4th harmonic in 10 min non-sliding mean	E	ABBIED600:2014
H05PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 5th harmonic in 10 min non-	E	ABBIED600:2014

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		sli-ding mean		
H06PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 6th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H07PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 7th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H08PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 8th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H09PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 9th har-mo-nic in 10 min non-	E	ABBIED600:2014

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		sli-ding mean		
H10PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 10th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014
H11PhV	ABBIED600_Rev7_WYE_threephase_simple_i_e	Mean value of 11th har-mo-nic in 10 min non-sli-ding mean	E	ABBIED600:2014

5.2.369 LN: PH1QVVR1 Name: QVVR (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all		

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		bi-nary out-puts		
VaStr	ABBIED600_Rev1_SPS	Start Phas e A (Vol-tage Va-riatio n Even t in prog-ress)		
DipStr	ABBIED600_Rev1_SPS	Start (Vol-tage Dip Even t in prog-ress)		
SwlStr	ABBIED600_Rev1_SPS	Start (Vol-tage Swel l Even t in prog-ress)		
IntrStr	ABBIED600_Rev1_SPS	Start (Vol-tage In-ter-rup-tion Even t in prog-ress)		
VaEnd	ABBIED600_Rev1_SPS	Even t fi-nishe		

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		d but not Re-set		
VVa	ABBIED600_Rev7_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev7_MV_simple_i	Voltage Variation Duration of the last completed event		
OpCntRs	ABBIED600_Rev3_INC_control_int	Resettable operation counter		status-only,direct-with-normal-security
DipStrVal	ABBIED600_Rev8_ASG_SG_i	Voltage Dip Set Point 1		

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DipStr2Val	ABBIED600_Rev8_ASG_SG_i_e	Voltage Dip Set Point 2	E	ABBIED600:2014
DipStr3Val	ABBIED600_Rev8_ASG_SG_i_e	Voltage Dip Set Point 3	E	ABBIED600:2014
SwlStrVal	ABBIED600_Rev8_ASG_SG_i	Voltage Swell Set Point 1		
SwlStr2Val	ABBIED600_Rev8_ASG_SG_i_e	Voltage Swell Set Point 2	E	ABBIED600:2014
SwlStr3Val	ABBIED600_Rev8_ASG_SG_i_e	Voltage Swell Set Point 3	E	ABBIED600:2014
IntrStrVal	ABBIED600_Rev8_ASG_SG_i	Voltage Interruption Set Point		
RefV	ABBIED600_Rev8_ASG_SG_i_e	Reference supply voltage in %	E	IEC 61850-7-4:2007

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Dip1Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation dip duration 1	E	ABBIED600:2014
Dip2Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation dip duration 2	E	ABBIED600:2014
Dip3Tmms	ABBIED600_Rev2_ING_SG_e	Voltage variation dip duration 3	E	ABBIED600:2014
Swl1Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation swell duration 1	E	ABBIED600:2014
Swl2Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation swell duration 2	E	ABBIED600:2014
Swl3Tmms	ABBIED600_Rev2_ING_SG_e	Voltage variation	E	ABBIED600:2014

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		swell duration 3		
Intr1Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation interruption duration 1	E	ABBIED600:2014
Intr2Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation interruption duration 2	E	ABBIED600:2014
Intr3Tmms	ABBIED600_Rev2_ING_SG_e	Voltage variation interruption duration 3	E	ABBIED600:2014
MaxDurTmms	ABBIED600_Rev2_ING_SG_e	Maximum voltage variation duration	E	ABBIED600:2014

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SwlOp	ABBIED600_Rev1_SPS_e	Voltage Event Swell detected	E	ABBIED600:2014
DipOp	ABBIED600_Rev1_SPS_e	Voltage Event Dip detected	E	ABBIED600:2014
IntrOp	ABBIED600_Rev1_SPS_e	Voltage Event Interruption detected	E	ABBIED600:2014
APreVa	ABBIED600_Rev7_MV_simple_i_e	Current magnitude Ph A preceding variation	E	ABBIED600:2014
SwlInstCnt	ABBIED600_Rev1_INS_e	Instantaneous swell operation counter	E	ABBIED600:2014

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SwlMomCnt	ABBIED600_Rev1_INS_e	Momentary swell operation counter	E	ABBIED600:2014
SwlTmpCnt	ABBIED600_Rev1_INS_e	Temporary swell operation counter	E	ABBIED600:2014
SwlMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration swell operation counter	E	ABBIED600:2014
DipInstCnt	ABBIED600_Rev1_INS_e	Instantaneous dip operation counter	E	ABBIED600:2014
DipTmpCnt	ABBIED600_Rev1_INS_e	Temporary dip operation counter	E	ABBIED600:2014

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DipMomCnt	ABBIED600_Rev1_INS_e	Momentary dip operation counter	E	ABBIED600:2014
DipMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration dip operation counter	E	ABBIED600:2014
IntrMomCnt	ABBIED600_Rev1_INS_e	Momentary interruption operation counter	E	ABBIED600:2014
IntrTmpCnt	ABBIED600_Rev1_INS_e	Temporary interruption operation counter	E	ABBIED600:2014
IntrSstCnt	ABBIED600_Rev1_INS_e	Sustained interruption	E	ABBIED600:2014

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		operation counter		
IntrMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration interruptionl operation counter	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Counters reset	E	ABBIED600:2014,status-only,direct-with-normal-security
PhSpvn	ABBIED600_Rev3_ENG_SP_PhSv_Sub1_e	Monitored phase	E	ABBIED600:2014
OpModPh	ABBIED600_Rev3_ENG_SP_OpModPh_e	Phase mode	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VVaEna	ABBIED600_Rev5_ENG_SP_VVaTyp_e	Variation enable	E	ABBIED600:2014
VaOp	ABBIED600_Rev1_SPS_e	Voltage Event detected	E	ABBIED600:2014

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VaStrGen	ABBIED600_Rev1_SPS_e	Start (Voltage Variation Event in progress)	E	ABBIED600:2014
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.370 LN: PH2QVVR1 Name: QVVR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VaStr	ABBIED600_Rev1_SPS	Start Phase B (Voltage Variation Event in progress)		
VVa	ABBIED600_Rev7_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev7_MV_simple_i	Voltage Variation Duration of the last		

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		completed event		
APreVa	ABBIED600_Rev7_MV_simple_i_e	Current magnitude Phase B preceding variation	E	ABBIED600:2014

5.2.371 LN: PH3QVVR1 Name: QVVR (ED2)

Attri-bute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VaStr	ABBIED600_Rev1_SPS	Start Phase C (Voltage Variation Event in progress)		
VVa	ABBIED600_Rev7_MV_simple_i	Voltage Variation Magni-tude of the last completed event		
VVaTm	ABBIED600_Rev7_MV_simple_i	Voltage Variation Duration of the last completed event		
APreVa	ABBIED600_Rev7_MV_simple_i_e	Current magnitude Ph C pre-ceding va-riation	E	ABBIED600:2014

5.2.372 LN: PH1QVVR2 Name: QVVR (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
VaStr	ABBIED600_Rev1_SPS	Start Phas e A (Vol-tage Va-riatio n Even t in prog-ress)		
DipStr	ABBIED600_Rev1_SPS	Start (Vol-tage Dip Even t in prog-ress)		
SwlStr	ABBIED600_Rev1_SPS	Start (Vol-tage Swel l Even t in		

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		prog-ress)		
IntrStr	ABBIED600_Rev1_SPS	Start (Voltage Interruption Event in progress)		
VaEnd	ABBIED600_Rev1_SPS	Event finished but not Reset		
VVa	ABBIED600_Rev7_MV_simple_i	Voltage Variation Magnitude of the last completed event		
VVaTm	ABBIED600_Rev7_MV_simple_i	Voltage Variation Duration of the last com		

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		pleted event		
OpCntRs	ABBIED600_Rev3_INC_control_int	Reset-table operation counter		status-only,direct-with-normal-security
DipStrVal	ABBIED600_Rev8_ASG_SG_i	Voltage Dip Set Point 1		
DipStr2Val	ABBIED600_Rev8_ASG_SG_i_e	Voltage Dip Set Point 2	E	ABBIED600:2014
DipStr3Val	ABBIED600_Rev8_ASG_SG_i_e	Voltage Dip Set Point 3	E	ABBIED600:2014
SwlStrVal	ABBIED600_Rev8_ASG_SG_i	Voltage Swell Set Point 1		
SwlStr2Val	ABBIED600_Rev8_ASG_SG_i_e	Voltage Swell Set Point 2	E	ABBIED600:2014
SwlStr3Val	ABBIED600_Rev8_ASG_SG_i_e	Voltage Swell Set Point 3	E	ABBIED600:2014

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IntrStrVal	ABBIED600_Rev8_ASG_SG_i	Voltage Interruption Set Point		
RefV	ABBIED600_Rev8_ASG_SG_i_e	Reference supply voltage in %	E	IEC 61850-7-4:2007
Dip1Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation dip duration 1	E	ABBIED600:2014
Dip2Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation dip duration 2	E	ABBIED600:2014
Dip3Tmms	ABBIED600_Rev2_ING_SG_e	Voltage variation dip duration 3	E	ABBIED600:2014
Swl1Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation swell	E	ABBIED600:2014

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		duration 1		
Swl2Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation swell duration 2	E	ABBIED600:2014
Swl3Tmms	ABBIED600_Rev2_ING_SG_e	Voltage variation swell duration 3	E	ABBIED600:2014
Intr1Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation interruption duration 1	E	ABBIED600:2014
Intr2Cyc	ABBIED600_Rev8_ASG_SG_i_e	Voltage variation interruption duration 2	E	ABBIED600:2014
Intr3Tmms	ABBIED600_Rev2_ING_SG_e	Voltage variatio	E	ABBIED600:2014

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		n interruption duration 3		
MaxDurTmms	ABBIED600_Rev2_ING_SG_e	Maximum voltage variation duration	E	ABBIED600:2014
SwlOp	ABBIED600_Rev1_SPS_e	Voltage Event Swell detected	E	ABBIED600:2014
DipOp	ABBIED600_Rev1_SPS_e	Voltage Event Dip detected	E	ABBIED600:2014
IntrOp	ABBIED600_Rev1_SPS_e	Voltage Event Interruption detected	E	ABBIED600:2014
APreVa	ABBIED600_Rev7_MV_simple_i_e	Current magnitude	E	ABBIED600:2014

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		Ph A preceding variation		
SwlInstCnt	ABBIED600_Rev1_INS_e	Instantaneous swell operation counter	E	ABBIED600:2014
SwlMomCnt	ABBIED600_Rev1_INS_e	Momentary swell operation counter	E	ABBIED600:2014
SwlTmpCnt	ABBIED600_Rev1_INS_e	Temporary swell operation counter	E	ABBIED600:2014
SwlMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration swell operation counter	E	ABBIED600:2014

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DipInstCnt	ABBIED600_Rev1_INS_e	Instantaneous dip operation counter	E	ABBIED600:2014
DipTmpCnt	ABBIED600_Rev1_INS_e	Temporary dip operation counter	E	ABBIED600:2014
DipMomCnt	ABBIED600_Rev1_INS_e	Momentary dip operation counter	E	ABBIED600:2014
DipMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration dip operation counter	E	ABBIED600:2014
IntrMomCnt	ABBIED600_Rev1_INS_e	Momentary interruption operation	E	ABBIED600:2014

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		counter		
IntrTmpCnt	ABBIED600_Rev1_INS_e	Temporary interruption operation counter	E	ABBIED600:2014
IntrSstCnt	ABBIED600_Rev1_INS_e	Sustained interruption operation counter	E	ABBIED600:2014
IntrMaxCnt	ABBIED600_Rev1_INS_e	Maximum duration interruptionl operation counter	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Counters reset	E	ABBIED600:2014,status-only,direct-with-normal-security
PhSpvn	ABBIED600_Rev3_ENG_SP_PhSv_Sub1_e	Monitored phase	E	ABBIED600:2014
OpModPh	ABBIED600_Rev3_ENG_SP_OpModPh_e	Phase	E	ABBIED600:2014

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		mode		
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
VVaEna	ABBIED600_Rev5_ENG_SP_VVaTyp_e	Variation enable	E	ABBIED600:2014
VaOp	ABBIED600_Rev1_SPS_e	Voltage Event detected	E	ABBIED600:2014
VaStrGen	ABBIED600_Rev1_SPS_e	Start (Voltage Variation Event in progress)	E	ABBIED600:2014
VVaTyp	ABBIED600_Rev3_ENS_VVaTyp_e	Voltage variation type	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.373 LN: UEXPDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
PoRch	ABBIED600_Rev8_ASG_SG_i	Polar Reach is the Diameter of the Mho diagram		
Ofs	ABBIED600_Rev8_ASG_SG_i	Offset of the impedance Mho circle		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
Dsp	ABBIED600_Rev8_ASG_SG_i_e	Displacement of the impedance Mho circle	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
ZMeasMod	ABBIED600_Rev3_ENG_SP_ZMeasMod_e	Measurement	E	ABBIED600:2014

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		mode for impedance calculation		
PhSelZCl c	ABBIED600_Rev3_ENG_SP_VPh Sel_e	Voltage phase selection	E	ABBIED600:2014
ExLosEna	ABBIED600_Rev2_SPG_SP_e	External loss detection enable/ disable	E	ABBIED600:2014
VRv	ABBIED600_Rev2_SPG_SP_e	Rotate voltage signals	E	ABBIED600:2014
InExLos	ABBIED600_Rev1_SPS_e	Input for external excitation loss detection	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_ Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
RstEna	ABBIED600_Rev1_SPG_SG_e	Enable restrain area	E	ABBIED600:2014
RstOfsX	ABBIED600_Rev8_ASG_SG_i_e	Offset of directional line from origin along X-axis	E	ABBIED600:2014
RstOfsXA ng	ABBIED600_Rev8_ASG_SG_i_e	Angle between R-axis	E	ABBIED600:2014

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		and directional line		

5.2.374 LN: UEXMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Z	ABBIED600_Rev7_WYE_4	Phase impedance		
ZPP	ABBIED600_Rev7_DEL_4_e	Phase to phase impedance	E	ABBIED600:2014
ZPs	ABBIED600_Rev7_CMV_S_1_e	Positive sequence impedance	E	ABBIED600:2014

5.2.375 LN: UEXPDIS2 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
PoRch	ABBIED600_Rev8_ASG_SG_i	Polar Reach is the Diameter of the Mho		

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		dia-gram		
Ofs	ABBIED600_Rev8_ASG_SG_i	Offset of the impe-dance Mho circle		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset Delay Time		
Dsp	ABBIED600_Rev8_ASG_SG_i_e	Displa-cement of the impe-dance Mho circle	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Start dura-tion	E	ABBIED600:2014
ZMeas-Mod	ABBIED600_Rev3_ENG_SP_ZMeasMod_e	Measu-rement mode for im-pe-dance calcula-tion	E	ABBIED600:2014
PhSelZCl c	ABBIED600_Rev3_ENG_SP_VPhSel_e	Voltage phase selec-tion	E	ABBIED600:2014
ExLosEna	ABBIED600_Rev2_SPG_SP_e	Exter-nal loss detec-tion enable/ disable	E	ABBIED600:2014
VRv	ABBIED600_Rev2_SPG_SP_e	Rotate voltage signals	E	ABBIED600:2014

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InExLos	ABBIED600_Rev1_SPS_e	Input for external excitation loss detection	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
RstEna	ABBIED600_Rev1_SPG_SG_e	Enable restrain area	E	ABBIED600:2014
RstOfsX	ABBIED600_Rev8_ASG_SG_i_e	Offset of directional line from origin along X-axis	E	ABBIED600:2014
RstOfsXAng	ABBIED600_Rev8_ASG_SG_i_e	Angle between R-axis and directional line	E	ABBIED600:2014

5.2.376 LN: UEXMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Z	ABBIED600_Rev7_WYE_4	Phase impedance		
ZPP	ABBIED600_Rev7_DEL_4_e	Phase to phase impedance	E	ABBIED600:2014

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ZPs	ABBIED600_Rev7_CMV_S_1_e	Positive sequence impedance	E	ABBIED600:2014

5.2.377 LN: OEPVPH1 Name: PVPH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
VHzCrv	ABBIED600_Rev5_CURVE_SG_setCharact_Sub3	Operation curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP	Minimum operate time		

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MaxOpTmms	ABBIED600_Rev2_ING_SP	Maximum operate time		
StrInh	ABBIED600_Rev1_SPS_e	Restart inhibited	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ClAct	ABBIED600_Rev1_SPS_e	Cooling active signal	E	ABBIED600:2014
VHzRat	ABBIED600_Rev7_MV_simple_i_e	Relative voltage to frequency ratio	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
MaxVCont	ABBIED600_Rev8_ASG_SP_i_e	Maximum allowed continuous	E	ABBIED600:2014

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		voltage		
ClTms	ABBIED600_Rev2_ING_SP_1_e	Cooling time in seconds	E	ABBIED600:2014
ConsDlTmms	ABBIED600_Rev2_ING_SP_e	Constant delay parameter	E	ABBIED600:2014
XLkg	ABBIED600_Rev8_ASG_SP_i_e	Winding leakage reactance	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_e	Voltage selection	E	ABBIED600:2014
VPhSel	ABBIED600_Rev3_ENG_SP_VPhSel_e	Voltage phase selection	E	ABBIED600:2014
TmsReEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart in seconds	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub17_e	Test control for	E	ABBIED600:2014, status-only,direct-with-normal-security

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		out-puts		

5.2.378 LN: OEPVPH2 Name: PVPH (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O /E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
VHzCrv	ABBIED600_Rev5_CURVE_SG_setCharact_Sub3	Ope-ra-tion curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time mul-tip-lier		
MinOpTmms	ABBIED600_Rev2_ING_SP	Mi-ni-mum ope-rate time		
MaxOpTmms	ABBIED600_Rev2_ING_SP	Ma-xi-mum		

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		operate time		
StrInh	ABBIED600_Rev1_SPS_e	Restart inhibited	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
ClAct	ABBIED600_Rev1_SPS_e	Cooling active signal	E	ABBIED600:2014
VHzRat	ABBIED600_Rev7_MV_simple_i_e	Relative voltage to frequency ratio	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
MaxVCont	ABBIED600_Rev8_ASG_SP_i_e	Maximum allowed continuous voltage	E	ABBIED600:2014

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ClTms	ABBIED600_Rev2_ING_SP_1_e	Cooling time in seconds	E	ABBIED600:2014
ConsDlTmms	ABBIED600_Rev2_ING_SP_e	Constant delay parameter	E	ABBIED600:2014
XLkg	ABBIED600_Rev8_ASG_SP_i_e	Winding leakage reactance	E	ABBIED600:2014
VSel	ABBIED600_Rev4_ENG_SP_VSel_e	Voltage selection	E	ABBIED600:2014
VPhSel	ABBIED600_Rev3_ENG_SP_VPhSel_e	Voltage phase selection	E	ABBIED600:2014
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart in seconds	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub17_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security

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5.2.379 LN: VSQVUB1 Name: QVUB (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VaStr	ABBIED600_Rev1_SPS	Start of the event		
MaxVVa	ABBIED600_Rev7_MV_simple_i	Maximum unbalance deviation value		
UnbDetMth	ABBIED600_Rev2_ENG_SP_UnbDetMth	Unbalance detection method		

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StrVal	ABBIED600_Rev8_ASG_SP_i	Voltage unbalance start value		
TrgModPQ	ABBIED600_Rev4_ENG_SP_TrgModPQ_e	Observation period triggering mode	E	ABBIED600:2014
ObsPerSel	ABBIED600_Rev3_ENG_SP_ObsPerSel_e	Observation period duration	E	ABBIED600:2014
ObsPerUsr	ABBIED600_Rev2_ING_SP_1_e	User defined observation period	E	ABBIED600:2014
HiPctVUnb	ABBIED600_Rev1_SPS_e	Status percentile unbalance exceed	E	ABBIED600:2014

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		s the limit		
ObsPerAct	ABBIED600_Rev1_SPS_e	Observation period for statistical calculation active	E	ABBIED600:2014
PctUnbVal	ABBIED600_Rev7_MV_simple_i_e	Percentile value of voltage unbalance in an observation	E	ABBIED600:2014
VUnb3sAv	ABBIED600_Rev7_MV_simple_i_e	Non sliding 3 second mean value of voltage	E	ABBIED600:2014

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		unbalance		
VUnb10mAv	ABBIED600_Rev7_MV_simple_i_e	Sliding 10 minutes mean value of voltage unbalance	E	ABBIED600:2014
PctUnb	ABBIED600_Rev8_ASG_SP_i_e	Percentile Index	E	ABBIED600:2014
ObsPerStr	ABBIED600_Rev1_SPS_simple_e	Observation Start	E	ABBIED600:2014
ObsPerEnd	ABBIED600_Rev1_SPS_simple_e	Observation End	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub3_e	Test Outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrgObsPer	ABBIED600_Rev3_SPC_control_e	Trigger for observation	E	ABBIED600:2014, status-only,direct-with-normal-security

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		period		
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014, status-only,direct-with-normal-security
PerStrDate	ABBIED600_Rev2_TSG_SP_setCal_occ monthdayhr_e	Observation start time	E	ABBIED600:2014

5.2.380 LN: VSQVUB2 Name: QVUB (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VaStr	ABBIED600_Rev1_SPS	Start of the event		
MaxVVa	ABBIED600_Rev7_MV_simple_i	Maximum		

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		unbalance deviation value		
UnbDetMth	ABBIED600_Rev2_ENG_SP_UnbDetMth	Unbalance detection method		
StrVal	ABBIED600_Rev8_ASG_SP_i	Voltage unbalance start value		
TrgModPQ	ABBIED600_Rev4_ENG_SP_TrgModPQ_e	Observation period triggering mode	E	ABBIED600:2014
ObsPerSel	ABBIED600_Rev3_ENG_SP_ObsPerSel_e	Observation period duration	E	ABBIED600:2014

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ObsPerUsr	ABBIED600_Rev2_ING_SP_1_e	User defined observation period	E	ABBIED600:2014
HiPctVUnb	ABBIED600_Rev1_SPS_e	Status percentile unbalance exceeds the limit	E	ABBIED600:2014
ObsPerAct	ABBIED600_Rev1_SPS_e	Observation period for statistical calculation active	E	ABBIED600:2014
PctUnbVal	ABBIED600_Rev7_MV_simple_i_e	Percentile value of voltage unbalance in	E	ABBIED600:2014

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		an observation		
VUnb3sAv	ABBIED600_Rev7_MV_simple_i_e	Non sliding 3 second mean value of voltage unbalance	E	ABBIED600:2014
VUnb10mAv	ABBIED600_Rev7_MV_simple_i_e	Sliding 10 minutes mean value of voltage unbalance	E	ABBIED600:2014
PctUnb	ABBIED600_Rev8_ASG_SP_i_e	Percentile Index	E	ABBIED600:2014
ObsPerStr	ABBIED600_Rev1_SPS_simple_e	Observation Start	E	ABBIED600:2014

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ObsPerEnd	ABBIED600_Rev1_SPS_simple_e	Observation End	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub3_e	Test Outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrgObsPer	ABBIED600_Rev3_SPC_control_e	Trigger for observation period	E	ABBIED600:2014, status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev3_SPC_control_e	Recorded data reset	E	ABBIED600:2014, status-only,direct-with-normal-security
PerStrDate	ABBIED600_Rev2_TSG_SP_setCal_occ monthdayhr_e	Observation start time	E	ABBIED600:2014

5.2.381 LN: DSOCPSCH1 Name: PSCH (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TxPrm	ABBIED600_Rev1_ACT_simple	Permissive Info. to be		

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		trans-mitted to the other side		
TxBlk	ABBIED600_Rev1_ACT_simple	Blocki ng Info. to be trans-mitted to the other side		
TxTr	ABBIED600_Rev1_ACT_simple	Direct trip Info. to be trans-mitted to the other side		
RxPrm1	ABBIED600_Rev1_ACT_simple	Activa-tion Info. RxPrm 1 re-ceived from the ot-her side		
RxBlk1	ABBIED600_Rev1_ACT_simple	Activa-tion Info. RxBlk 1 re-ceived from the ot-her side		
RxTr1	ABBIED600_Rev1_ACT_simple	Activa-tion Info. RxTr1		

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		re-ceived from the ot-her side		
DurTm ms	ABBIED600_Rev2_ING_SP_1	Mini-mum dura-tion of a car-rier send signal		
CrdTm ms	ABBIED600_Rev2_ING_SP_1	Co-or-di-nation timer for blockin g scheme		
UnBlk-Mod	ABBIED600_Rev4_ENG_SP_UnBlk Mod	Un-block func-tion mode for scheme type		
CarRx	ABBIED600_Rev1_ACT_simple_e	Carrier re-ceived after un-block logic	E	ABBIED600:2014
SchTyp	ABBIED600_Rev5_ENG_SP_SchTy p_e	Schem e type, mode of ope-ration	E	ABBIED600:2014
TestP-roRl	ABBIED600_Rev13_ENC_TestProRl _Sub8_e	Test control for outputs	E	ABBIED600:2014,st atus-only,direct-with-normal-security

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

5.2.382 LN: RESCPSCH1 Name: PSCH (ED2)

Attri-bute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TxPrm	ABBIED600_Rev1_ACT_simple	Per-mis-sive in-formati on to be trans-mitted to the other		
TxBlk	ABBIED600_Rev1_ACT_simple	Blocki ng in-forma-tion to be trans-mitted to the other		
TxTr	ABBIED600_Rev1_ACT_simple	Direct trip in-forma-tion to be trans-mitted		

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		to the other		
RxPrm1	ABBIED600_Rev1_ACT_simple	Activation information RxPrm1 received from the other		
RxBlk1	ABBIED600_Rev1_ACT_simple	Activation information RxBlk1 received from the other		
RxTr1	ABBIED600_Rev1_ACT_simple	Activation information RxTr1 received from the other		
Op	ABBIED600_Rev1_ACT_simple	Operate		
CrdTm ms	ABBIED600_Rev2_ING_SP_1	Co-ordination timer for blocking scheme		
DurTm ms	ABBIED600_Rev2_ING_SP_1	Minimum duration of carrier		

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		send signal		
UnBlk-Mod	ABBIED600_Rev4_ENG_SP_UnBlkMod	Un-block func-tion mode for scheme type		
CarRx	ABBIED600_Rev1_ACT_simple_e	Carrier re-ceived after un-block logic	E	ABBIED600:2014
SchTyp	ABBIED600_Rev5_ENG_SP_SchTyp_e	Schem e Type	E	ABBIED600:2014
TestP-roRl	ABBIED600_Rev13_ENC_TestProRl_Sub8_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.383 LN: RCRWPSCH1 Name: PSCH (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		

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Op	ABBIED600_Rev1_ACT_simple	Operation of WEI logic		
TxPrm	ABBIED600_Rev1_ACT_simple	Carrier send by WEI logic		
RxPrm1	ABBIED600_Rev1_ACT_simple	POR Carrier signal received from remote end		
WeiTmms	ABBIED600_Rev2_ING_SP	Coordination time for the WEI logic		
WeiMod	ABBIED600_Rev4_ENG_SP_WeiMod	Operating mode of WEI logic		
RvABlk	ABBIED600_Rev1_ACT_simple_e	Operation of current	E	ABBIED600:2014

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		reversal logic		
RvATmms	ABBIED600_Rev2_ING_SP_e	Pickup time for current reversal logic	E	ABBIED600:2014
RvAMod	ABBIED600_Rev3_ENG_SP_RvAMod_e	Operating mode of Current Reversal Logic	E	ABBIED600:2014
RvRsTmms	ABBIED600_Rev2_ING_SP_e	Time Delay to prevent Carrier send and local trip	E	ABBIED600:2014
ResVVal	ABBIED600_Rev8_ASG_SP_i_e	Neutral voltage setting for fault conditions	E	ABBIED600:2014

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		mea-sure-ment		
TestP-roRl	ABBIED600_Rev13_ENC_TestProRl_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security

5.2.384 LN: CRWPSCH1 Name: PSCH (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Op	ABBIED600_Rev1_ACT_threephase	Ope-ra-tion of WEI logic		
TxPrm	ABBIED600_Rev1_ACT_simple	Car-rier send by WEI logic		
RxPrm1	ABBIED600_Rev1_ACT_simple	POR Car-rier		

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		signal received from remote end		
RvAMod	ABBIED600_Rev3_ENG_SP_RvAMod_e	Operating mode of Current Reversal Logic	E	ABBIED600:2014
WeiTmms	ABBIED600_Rev2_ING_SP	Coordination time for the WEI logic		
WeiMod	ABBIED600_Rev4_ENG_SP_WeiMod	Operating mode of WEI logic		
RvABlk	ABBIED600_Rev1_ACT_simple_e	Operation of current reversal logic	E	ABBIED600:2014

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RvATmms	ABBIED600_Rev2_ING_SP_e	Pickup time for current reversal logic	E	ABBIED600:2014
RvRsTmms	ABBIED600_Rev2_ING_SP_e	Time Delay to prevent Carrier send and local trip	E	ABBIED600:2014
PhGndVal	ABBIED600_Rev8_ASG_SP_i_e	Phase to Neutral voltage for detection of fault condition	E	ABBIED600:2014
PPVVal	ABBIED600_Rev8_ASG_SP_i_e	Phase to Phase voltage for detection of fault	E	ABBIED600:2014

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		condition		
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.385 LN: DQPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value for under voltage detection		

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OpDlTmms	ABBIED600_Rev2_ING_SG_time	Operate delay time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.386 LN: DQPDOP1 Name: PDOP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start power conditions		
Op	ABBIED600_Rev1_ACT_simple	Operate power conditions without delay		
StrVal	ABBIED600_Rev8_ASG_SP_i	Minimum reactive power needed for function to operate		
BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum positive sequence current	E	IEC 61850-7-4:2007

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RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse the definition of the positive reactive power direction	E	ABBIED600:2014
PwrSectRed	ABBIED600_Rev8_ASG_SP_i_e	Adjustable angle for power	E	ABBIED600:2014

5.2.387 LN: DQPTUV2 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value for under voltage		

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		detection		
OpDlTmms	ABBIED600_Rev2_ING_SG_time	Operate delay time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.388 LN: DQPDOP2 Name: PDOP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start power conditions		
Op	ABBIED600_Rev1_ACT_simple	Operate power conditions without delay		
StrVal	ABBIED600_Rev8_ASG_SP_i	Minimum reactive power needed for function to operate		

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BlkValA	ABBIED600_Rev8_ASG_SP_i_e	Minimum positive sequence current	E	IEC 61850-7-4:2007
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse the definition of the positive reactive power direction	E	ABBIED600:2014
PwrSectRed	ABBIED600_Rev8_ASG_SP_i_e	Adjustable angle for power	E	ABBIED600:2014

5.2.389 LN: VVSPPAM1 Name: PPAM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start signal		
Op	ABBIED600_Rev1_ACT_simple	Operate signal for vector shift		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
BlkValV	ABBIED600_Rev8_ASG_SG_i_e	Block value (minimum	E	IEC 61850-7-4:2007

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		operating voltage)		
BlkIntnSt	ABBIED600_Rev1_ACT_simple_e	Protection function internally blocked	E	ABBIED600:2014
PhSpvn	ABBIED600_Rev3_ENG_SP_PhSv_Sub3_e	Monitored voltage phase	E	ABBIED600:2014
MaxV	ABBIED600_Rev8_ASG_SG_i_e	Voltage above which function is internally blocked	E	ABBIED600:2014
VShtPhA	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth voltage A or ph-ph voltage AB	E	ABBIED600:2014
VShtPhB	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth voltage B	E	ABBIED600:2014

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		or ph-ph voltage BC		
VShtPhC	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth voltage C or ph-ph voltage CA	E	ABBIED600:2014
VShtPsSeq	ABBIED600_Rev7_MV_simple_i_e	Positive sequence voltage	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub22_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.390 LN: VVSPPAM2 Name: PPAM (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start signal		

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Op	ABBIED600_Rev1_ACT_simple	Operate signal for vector shift		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
BlkValV	ABBIED600_Rev8_ASG_SG_i_e	Block value (minimum operating voltage)	E	IEC 61850-7-4:2007
BlkIntnSt	ABBIED600_Rev1_ACT_simple_e	Protection function internally blocked	E	ABBIED600:2014
PhSpvn	ABBIED600_Rev3_ENG_SP_PhSv_Sub3_e	Monitored voltage phase	E	ABBIED600:2014
MaxV	ABBIED600_Rev8_ASG_SG_i_e	Voltage above which function is internally blocked	E	ABBIED600:2014
VShtPhA	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth voltage A	E	ABBIED600:2014

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		or ph-ph vol-tage AB		
VShtPhB	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth vol-tage B or ph-ph vol-tage BC	E	ABBIED600:2014
VShtPhC	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth vol-tage C or ph-ph vol-tage CA	E	ABBIED600:2014
VShtPsSeq	ABBIED600_Rev7_MV_simple_i_e	Posi-tive se-quenc e vol-tage	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub22_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.391 LN: VVSPPAM3 Name: PPAM (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start signal		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate signal for vector shift		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
BlkValV	ABBIED600_Rev8_ASG_SG_i_e	Block value (mini-mum opera-ting vol-tage)	E	IEC 61850-7-4:2007
BlkInt-nSt	ABBIED600_Rev1_ACT_simple_e	Pro-tec-tion func-tion inter-nally blocke d	E	ABBIED600:2014
PhSpvn	ABBIED600_Rev3_ENG_SP_PhSv_ Sub3_e	Moni-tored vol-tage phase	E	ABBIED600:2014
MaxV	ABBIED600_Rev8_ASG_SG_i_e	Vol-tage above which func-tion is	E	ABBIED600:2014

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		inter-nally blocke d		
VShtPh A	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth vol-tage A or ph-ph vol-tage AB	E	ABBIED600:2014
VShtPhB	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth vol-tage B or ph-ph vol-tage BC	E	ABBIED600:2014
VShtPhC	ABBIED600_Rev7_MV_simple_i_e	Vector shift for ph-earth vol-tage C or ph-ph vol-tage CA	E	ABBIED600:2014
VShtPsS eq	ABBIED600_Rev7_MV_simple_i_e	Posi-tive se-quenc e vol-tage	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub22_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.392 LN: LOFLPTUC1 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Current setting/Start value high		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
BlkValA	ABBIED600_Rev8_ASG_SG_i_e	Current setting/Start value low	E	IEC 61850-7-4:2007
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.393 LN: DARREC1 Name: RREC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
OpCntRs	ABBIED600_Rev2_INC_simple_int_e	Resetable operation counter (all shots)	E	IEC 61850-7-4:2007,status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpCls	ABBIED600_Rev1_ACT_threephase	Operate (close command to XCBR)		
AutoRecSt	ABBIED600_Rev4_ENS_AutoRecSt	Auto Reclosing Status		
Rec1Tms1	ABBIED600_Rev2_ING_SP	First reclose time		
Rec1Tms2	ABBIED600_Rev2_ING_SP	Second reclose time		

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Rec1Tmms3	ABBIED600_Rev2_ING_SP	Third reclose time		
Rec1Tmms4	ABBIED600_Rev2_ING_SP	Fourth reclose time		
Rec1Tmms5	ABBIED600_Rev2_ING_SP	Fifth reclose time		
Rec1Tmms6	ABBIED600_Rev2_ING_SP	Sixth reclose time		
Rec1Tmms7	ABBIED600_Rev2_ING_SP	Seventh reclose time		
Rec3Tmms1	ABBIED600_Rev2_ING_SP	First reclose time		
Rec3Tmms2	ABBIED600_Rev2_ING_SP	Second reclose time		
Rec3Tmms3	ABBIED600_Rev2_ING_SP	Third reclose time		
Rec3Tmms4	ABBIED600_Rev2_ING_SP	Fourth reclose time		
Rec3Tmms5	ABBIED600_Rev2_ING_SP	Fifth reclose time		
Rec3Tmms6	ABBIED600_Rev2_ING_SP	Sixth reclose time		
Rec3Tmms7	ABBIED600_Rev2_ING_SP	Seventh reclose time		
RclTmms	ABBIED600_Rev2_ING_SP	Reclaim time		
OpOpn	ABBIED600_Rev1_ACT_threephase_e	Operate (open command to XCBR)	E	IEC 61850-7-4:2007

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RecBlk	ABBIED600_Rev3_SPC_control_e	Block reclose	E	ABBIED600:2014,status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	ABBIED600:2014
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	ABBIED600:2014
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	ABBIED600:2014
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	ABBIED600:2014
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	ABBIED600:2014
AutoIni	ABBIED600_Rev2_ING_SP_1_e	Auto init	E	ABBIED600:2014
RecOp	ABBIED600_Rev3_ENG_SP_recOp_e	Reclosing operation	E	ABBIED600:2014
ManClsMod	ABBIED600_Rev2_SPG_SP_e	Manual close mode	E	ABBIED600:2014
WtClsTmms	ABBIED600_Rev2_ING_SP_e	Wait close time	E	ABBIED600:2014
MaxWtTmms	ABBIED600_Rev2_ING_SP_e	Max wait time	E	ABBIED600:2014
MaxBlkTmms	ABBIED600_Rev2_ING_SP_e	Max Thm	E	ABBIED600:2014

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		block time		
CutTmms	ABBIED600_Rev2_ING_SP_e	Cut-out time	E	ABBIED600:2014
DsrTmms 1	ABBIED600_Rev2_ING_SP_e	Dsr time shot 1	E	ABBIED600:2014
DsrTmms 2	ABBIED600_Rev2_ING_SP_e	Dsr time shot 2	E	ABBIED600:2014
DsrTmms 3	ABBIED600_Rev2_ING_SP_e	Dsr time shot 3	E	ABBIED600:2014
DsrTmms 4	ABBIED600_Rev2_ING_SP_e	Dsr time shot 4	E	ABBIED600:2014
TermPrio	ABBIED600_Rev3_ENG_SP_termPrio_e	Terminal priority	E	ABBIED600:2014
SynSet	ABBIED600_Rev2_ING_SP_1_e	Synch-roni-sation set	E	ABBIED600:2014
Au-toWtTmms	ABBIED600_Rev2_ING_SP_e	Auto wait time	E	ABBIED600:2014
Auto-LORs	ABBIED600_Rev2_SPG_SP_e	Auto lockout reset	E	ABBIED600:2014
ProCrdLim	ABBIED600_Rev2_ING_SP_1_e	Protec-tion crd limit	E	ABBIED600:2014
ProCrd-Mod	ABBIED600_Rev3_ENG_SP_proCrdMod_e	Protec-tion crd mode	E	ABBIED600:2014
Au-toIniCnd	ABBIED600_Rev3_ENG_SP_autoIniCnd_e	Auto initiation cnd	E	ABBIED600:2014
TrLin	ABBIED600_Rev2_ING_SP_1_e	Tripping line	E	ABBIED600:2014
CtlLin	ABBIED600_Rev2_ING_SP_1_e	Control line	E	ABBIED600:2014
EnaShotJmp	ABBIED600_Rev2_SPG_SP_e	Enable shot jump	E	ABBIED600:2014
CBClsPosSt	ABBIED600_Rev2_SPG_SP_e	CB closed Pos sta-tus	E	ABBIED600:2014

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Ena4DlSof	ABBIED600_Rev2_SPG_SP_e	Fourth delay in SOTF	E	ABBIED600:2014
IniSigCBB1	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB1	E	ABBIED600:2014
IniSigCBB2	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB2	E	ABBIED600:2014
IniSigCBB3	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB3	E	ABBIED600:2014
IniSigCBB4	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB4	E	ABBIED600:2014
IniSigCBB5	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB5	E	ABBIED600:2014
IniSigCBB6	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB6	E	ABBIED600:2014
IniSigCBB7	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB7	E	ABBIED600:2014
BlkSigCBB1	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB1	E	ABBIED600:2014
BlkSigCBB2	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB2	E	ABBIED600:2014
BlkSigCBB3	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB3	E	ABBIED600:2014
BlkSigCBB4	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB4	E	ABBIED600:2014
BlkSigCBB5	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB5	E	ABBIED600:2014
BlkSigCBB6	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB6	E	ABBIED600:2014

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BlkSigCBB7	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB7	E	ABBIED600:2014
ShotNum1	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB1	E	ABBIED600:2014
ShotNum2	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB2	E	ABBIED600:2014
ShotNum3	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB3	E	ABBIED600:2014
ShotNum4	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB4	E	ABBIED600:2014
ShotNum5	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB5	E	ABBIED600:2014
ShotNum6	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB6	E	ABBIED600:2014
ShotNum7	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB7	E	ABBIED600:2014
Str2Tmms1	ABBIED600_Rev2_ING_SP_e	Str 2 delay shot 1	E	ABBIED600:2014
Str2Tmms2	ABBIED600_Rev2_ING_SP_e	Str 2 delay shot 2	E	ABBIED600:2014
Str2Tmms3	ABBIED600_Rev2_ING_SP_e	Str 2 delay shot 3	E	ABBIED600:2014
Str2Tmms4	ABBIED600_Rev2_ING_SP_e	Str 2 delay shot 4	E	ABBIED600:2014
Str3Tmms1	ABBIED600_Rev2_ING_SP_e	Str 3 delay shot 1	E	ABBIED600:2014
Str3Tmms2	ABBIED600_Rev2_ING_SP_e	Str 3 delay shot 2	E	ABBIED600:2014

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Str3Tmms3	ABBIED600_Rev2_ING_SP_e	Str 3 delay shot 3	E	ABBIED600:2014
Str3Tmms4	ABBIED600_Rev2_ING_SP_e	Str 3 delay shot 4	E	ABBIED600:2014
Str4Tmms1	ABBIED600_Rev2_ING_SP_e	Str 4 delay shot 1	E	ABBIED600:2014
Str4Tmms2	ABBIED600_Rev2_ING_SP_e	Str 4 delay shot 2	E	ABBIED600:2014
Str4Tmms3	ABBIED600_Rev2_ING_SP_e	Str 4 delay shot 3	E	ABBIED600:2014
Str4Tmms4	ABBIED600_Rev2_ING_SP_e	Str 4 delay shot 4	E	ABBIED600:2014
FrqCntLim	ABBIED600_Rev2_ING_SP_1_e	Frq Op counter limit	E	ABBIED600:2014
FrqCntTmm	ABBIED600_Rev2_ING_SP_1_e	Frq Op counter time	E	ABBIED600:2014
FrqRcvTmm	ABBIED600_Rev2_ING_SP_1_e	Frq Op recovery time	E	ABBIED600:2014
PlsTmms	ABBIED600_Rev2_ING_SP_e	Close pulse time	E	ABBIED600:2014
MaxTrTmms	ABBIED600_Rev2_ING_SP_e	Max trip time	E	ABBIED600:2014
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	ABBIED600:2014
InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	ABBIED600:2014
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	ABBIED600:2014
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	ABBIED600:2014

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ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	ABBIED600:2014
SucRec	ABBIED600_Rev1_SPS_e	Successful reclose status	E	ABBIED600:2014
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful reclose status	E	ABBIED600:2014
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	ABBIED600:2014
UnsCBCls	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	ABBIED600:2014
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	ABBIED600:2014
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st reclose	E	ABBIED600:2014
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	ABBIED600:2014
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	ABBIED600:2014
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th reclose	E	ABBIED600:2014
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th reclose	E	ABBIED600:2014
PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	ABBIED600:2014
PrgCut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	ABBIED600:2014

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FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent operation counter	E	ABBIED600:2014
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent operation counter alarm	E	ABBIED600:2014
RecRs	ABBIED600_Rev3_SPC_control_e	DARREC1 reset	E	ABBIED600:2014,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev3_SPC_control_e	DARREC1 counters	E	ABBIED600:2014,status-only,direct-with-normal-security
DsaCnt	ABBIED600_Rev3_SPC_control_e	Signal for counter disabling	E	ABBIED600:2014,status-only,direct-with-normal-security
RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	ABBIED600:2014
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	ABBIED600:2014
CBManCls	ABBIED600_Rev1_SPS_e	CB manually closed	E	ABBIED600:2014
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	ABBIED600:2014
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	ABBIED600:2014
InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	ABBIED600:2014

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InBlkR-clTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	ABBIED600:2014
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	ABBIED600:2014
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for reclosing	E	ABBIED600:2014
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	ABBIED600:2014
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	ABBIED600:2014
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	ABBIED600:2014
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	ABBIED600:2014
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	ABBIED600:2014
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	ABBIED600:2014
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	ABBIED600:2014
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	ABBIED600:2014
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	ABBIED600:2014
InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	ABBIED600:2014
InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	ABBIED600:2014

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RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	ABBIED600:2014
In-BlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and re-sets dead time	E	ABBIED600:2014
Sof	ABBIED600_Rev1_SPS_e	Switch on the fault	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub8_e	Test control for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-secu-rity

5.2.394 LN: DARREC2 Name: RREC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
OpCntRs	ABBIED600_Rev2_INC_simple_int_e	Rese-table opera-tion counter (all shots)	E	IEC 61850-7-4:2007,status-only
RecCyc	ABBIED600_Rev1_INS	Actual reclose cycle (number between 1 and UseCyc)		
OpCls	ABBIED600_Rev1_ACT_threephase	Operate (close com-mand to XCBR)		

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Auto-RecSt	ABBIED600_Rev4_ENS_AutoRecSt	Auto Reclosing Status		
Rec1Tms1	ABBIED600_Rev2_ING_SP	First reclose time		
Rec1Tms2	ABBIED600_Rev2_ING_SP	Second reclose time		
Rec1Tms3	ABBIED600_Rev2_ING_SP	Third reclose time		
Rec1Tms4	ABBIED600_Rev2_ING_SP	Fourth reclose time		
Rec1Tms5	ABBIED600_Rev2_ING_SP	Fifth reclose time		
Rec1Tms6	ABBIED600_Rev2_ING_SP	Sixth reclose time		
Rec1Tms7	ABBIED600_Rev2_ING_SP	Seventh reclose time		
Rec3Tms1	ABBIED600_Rev2_ING_SP	First reclose time		
Rec3Tms2	ABBIED600_Rev2_ING_SP	Second reclose time		
Rec3Tms3	ABBIED600_Rev2_ING_SP	Third reclose time		
Rec3Tms4	ABBIED600_Rev2_ING_SP	Fourth reclose time		
Rec3Tms5	ABBIED600_Rev2_ING_SP	Fifth reclose time		
Rec3Tms6	ABBIED600_Rev2_ING_SP	Sixth reclose time		

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Rec3Tmms7	ABBIED600_Rev2_ING_SP	Seventh reclose time		
RclTmms	ABBIED600_Rev2_ING_SP	Reclaim time		
OpOpn	ABBIED600_Rev1_ACT_threephase_e	Operate (open command to XCBR)	E	IEC 61850-7-4:2007
RecBlk	ABBIED600_Rev3_SPC_control_e	Block reclose	E	ABBIED600:2014,status-only,direct-with-normal-security
RecCnt1	ABBIED600_Rev1_INS_e	Operation counter (1st shot)	E	ABBIED600:2014
RecCnt2	ABBIED600_Rev1_INS_e	Operation counter (2nd shot)	E	ABBIED600:2014
RecCnt3	ABBIED600_Rev1_INS_e	Operation counter (3rd shot)	E	ABBIED600:2014
RecCnt4	ABBIED600_Rev1_INS_e	Operation counter (4th shot)	E	ABBIED600:2014
RecCnt5	ABBIED600_Rev1_INS_e	Operation counter (5th shot)	E	ABBIED600:2014
AutoIni	ABBIED600_Rev2_ING_SP_1_e	Auto init	E	ABBIED600:2014
RecOp	ABBIED600_Rev3_ENG_SP_recOp_e	Reclosing operation	E	ABBIED600:2014

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Man-ClsMod	ABBIED600_Rev2_SPG_SP_e	Manual close mode	E	ABBIED600:2014
WtClsTmms	ABBIED600_Rev2_ING_SP_e	Wait close time	E	ABBIED600:2014
Max-WtTmms	ABBIED600_Rev2_ING_SP_e	Max wait time	E	ABBIED600:2014
Max-BlkTmms	ABBIED600_Rev2_ING_SP_e	Max Thm block time	E	ABBIED600:2014
CutTmms	ABBIED600_Rev2_ING_SP_e	Cut-out time	E	ABBIED600:2014
DsrTmms1	ABBIED600_Rev2_ING_SP_e	Dsr time shot 1	E	ABBIED600:2014
DsrTmms2	ABBIED600_Rev2_ING_SP_e	Dsr time shot 2	E	ABBIED600:2014
DsrTmms3	ABBIED600_Rev2_ING_SP_e	Dsr time shot 3	E	ABBIED600:2014
DsrTmms4	ABBIED600_Rev2_ING_SP_e	Dsr time shot 4	E	ABBIED600:2014
TermPrio	ABBIED600_Rev3_ENG_SP_termPrio_e	Terminal priority	E	ABBIED600:2014
SynSet	ABBIED600_Rev2_ING_SP_1_e	Synch-roni-sation set	E	ABBIED600:2014
AutoWtTmms	ABBIED600_Rev2_ING_SP_e	Auto wait time	E	ABBIED600:2014
Auto-LORs	ABBIED600_Rev2_SPG_SP_e	Auto lockout reset	E	ABBIED600:2014
ProCrdLim	ABBIED600_Rev2_ING_SP_1_e	Protec-tion crd limit	E	ABBIED600:2014
ProCrd-Mod	ABBIED600_Rev3_ENG_SP_proCrdMod_e	Protec-tion crd mode	E	ABBIED600:2014
AutoIniCnd	ABBIED600_Rev3_ENG_SP_autoIniCnd_e	Auto initiation cnd	E	ABBIED600:2014

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TrLin	ABBIED600_Rev2_ING_SP_1_e	Tripping line	E	ABBIED600:2014
CtlLin	ABBIED600_Rev2_ING_SP_1_e	Control line	E	ABBIED600:2014
EnaShotJmp	ABBIED600_Rev2_SPG_SP_e	Enable shot jump	E	ABBIED600:2014
CBClsPosSt	ABBIED600_Rev2_SPG_SP_e	CB closed Pos status	E	ABBIED600:2014
Ena4DlSof	ABBIED600_Rev2_SPG_SP_e	Fourth delay in SOTF	E	ABBIED600:2014
IniSigCBB1	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB1	E	ABBIED600:2014
IniSigCBB2	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB2	E	ABBIED600:2014
IniSigCBB3	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB3	E	ABBIED600:2014
IniSigCBB4	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB4	E	ABBIED600:2014
IniSigCBB5	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB5	E	ABBIED600:2014
IniSigCBB6	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB6	E	ABBIED600:2014
IniSigCBB7	ABBIED600_Rev2_ING_SP_1_e	Init signals CBB7	E	ABBIED600:2014
BlkSigCBB1	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB1	E	ABBIED600:2014
BlkSigCBB2	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB2	E	ABBIED600:2014
BlkSigCBB3	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB3	E	ABBIED600:2014

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BlkSigCBB4	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB4	E	ABBIED600:2014
BlkSigCBB5	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB5	E	ABBIED600:2014
BlkSigCBB6	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB6	E	ABBIED600:2014
BlkSigCBB7	ABBIED600_Rev2_ING_SP_1_e	Blk signals CBB7	E	ABBIED600:2014
ShotNum1	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB1	E	ABBIED600:2014
ShotNum2	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB2	E	ABBIED600:2014
ShotNum3	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB3	E	ABBIED600:2014
ShotNum4	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB4	E	ABBIED600:2014
ShotNum5	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB5	E	ABBIED600:2014
ShotNum6	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB6	E	ABBIED600:2014
ShotNum7	ABBIED600_Rev2_ING_SP_1_e	Shot number CBB7	E	ABBIED600:2014
Str2Tmms1	ABBIED600_Rev2_ING_SP_e	Str 2 delay shot 1	E	ABBIED600:2014
Str2Tmms2	ABBIED600_Rev2_ING_SP_e	Str 2 delay shot 2	E	ABBIED600:2014
Str2Tmms3	ABBIED600_Rev2_ING_SP_e	Str 2 delay shot 3	E	ABBIED600:2014

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Str2Tmms4	ABBIED600_Rev2_ING_SP_e	Str 2 delay shot 4	E	ABBIED600:2014
Str3Tmms1	ABBIED600_Rev2_ING_SP_e	Str 3 delay shot 1	E	ABBIED600:2014
Str3Tmms2	ABBIED600_Rev2_ING_SP_e	Str 3 delay shot 2	E	ABBIED600:2014
Str3Tmms3	ABBIED600_Rev2_ING_SP_e	Str 3 delay shot 3	E	ABBIED600:2014
Str3Tmms4	ABBIED600_Rev2_ING_SP_e	Str 3 delay shot 4	E	ABBIED600:2014
Str4Tmms1	ABBIED600_Rev2_ING_SP_e	Str 4 delay shot 1	E	ABBIED600:2014
Str4Tmms2	ABBIED600_Rev2_ING_SP_e	Str 4 delay shot 2	E	ABBIED600:2014
Str4Tmms3	ABBIED600_Rev2_ING_SP_e	Str 4 delay shot 3	E	ABBIED600:2014
Str4Tmms4	ABBIED600_Rev2_ING_SP_e	Str 4 delay shot 4	E	ABBIED600:2014
FrqCntLim	ABBIED600_Rev2_ING_SP_1_e	Frq Op counter limit	E	ABBIED600:2014
FrqCntTmm	ABBIED600_Rev2_ING_SP_1_e	Frq Op counter time	E	ABBIED600:2014
FrqRcvTmm	ABBIED600_Rev2_ING_SP_1_e	Frq Op recovery time	E	ABBIED600:2014
PlsTmms	ABBIED600_Rev2_ING_SP_e	Close pulse time	E	ABBIED600:2014
MaxTrTmms	ABBIED600_Rev2_ING_SP_e	Max trip time	E	ABBIED600:2014
InInhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	ABBIED600:2014

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InBlkThm	ABBIED600_Rev1_SPS_e	Thermal block (status)	E	ABBIED600:2014
LO	ABBIED600_Rev1_SPS_e	Lockout status	E	ABBIED600:2014
RdyRec	ABBIED600_Rev1_SPS_e	Ready reclose status	E	ABBIED600:2014
ActRec	ABBIED600_Rev1_SPS_e	Active reclose status	E	ABBIED600:2014
SucRec	ABBIED600_Rev1_SPS_e	Successful reclose status	E	ABBIED600:2014
UnsRec	ABBIED600_Rev1_SPS_e	Unsuccessful reclose status	E	ABBIED600:2014
PrgRec	ABBIED600_Rev1_SPS_e	In progress status	E	ABBIED600:2014
UnsCBCls	ABBIED600_Rev1_SPS_e	Unsuccessful CB closing status	E	ABBIED600:2014
WtMstr	ABBIED600_Rev1_SPS_e	Master signal to follower	E	ABBIED600:2014
PrgRec1	ABBIED600_Rev1_SPS_e	In progress 1st reclose	E	ABBIED600:2014
PrgRec2	ABBIED600_Rev1_SPS_e	In progress 2nd reclose	E	ABBIED600:2014
PrgRec3	ABBIED600_Rev1_SPS_e	In progress 3rd reclose	E	ABBIED600:2014
PrgRec4	ABBIED600_Rev1_SPS_e	In progress 4th reclose	E	ABBIED600:2014
PrgRec5	ABBIED600_Rev1_SPS_e	In progress 5th reclose	E	ABBIED600:2014

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PrgDsr	ABBIED600_Rev1_SPS_e	Discrimination time in progress	E	ABBIED600:2014
PrgCut	ABBIED600_Rev1_SPS_e	Cutout time in progress	E	ABBIED600:2014
FrqOpCnt	ABBIED600_Rev1_INS_e	Frequent operation counter	E	ABBIED600:2014
FrqOpAlm	ABBIED600_Rev1_SPS_e	Frequent operation counter alarm	E	ABBIED600:2014
RecRs	ABBIED600_Rev3_SPC_control_e	DARREC2 reset	E	ABBIED600:2014,status-only,direct-with-normal-security
CntRs	ABBIED600_Rev3_SPC_control_e	DARREC2 counters	E	ABBIED600:2014,status-only,direct-with-normal-security
DsaCnt	ABBIED600_Rev3_SPC_control_e	Signal for counter disabling	E	ABBIED600:2014,status-only,direct-with-normal-security
RclTmStr	ABBIED600_Rev1_SPS_e	Reclaim time started	E	ABBIED600:2014
ProCrd	ABBIED600_Rev1_SPS_e	Protection coordination	E	ABBIED600:2014
CBManCls	ABBIED600_Rev1_SPS_e	CB manually closed	E	ABBIED600:2014
AutoRecOn	ABBIED600_Rev1_SPS_e	AR switched On	E	ABBIED600:2014
ShotPntr	ABBIED600_Rev1_INS_e	Shot pointer value	E	ABBIED600:2014

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InRecOn	ABBIED600_Rev1_SPS_e	AR on/off control signal status	E	ABBIED600:2014
InBlkR-clTm	ABBIED600_Rev1_SPS_e	Block reclaim time	E	ABBIED600:2014
InCBPos	ABBIED600_Rev1_SPS_e	CB position input	E	ABBIED600:2014
InCBRdy	ABBIED600_Rev1_SPS_e	CB ready for reclosing	E	ABBIED600:2014
InSynChk	ABBIED600_Rev1_SPS_e	Synchro check fulfilled	E	ABBIED600:2014
InIncrPntr	ABBIED600_Rev1_SPS_e	Shot pointer increment by one	E	ABBIED600:2014
InIni1	ABBIED600_Rev1_SPS_e	No 1 operate signal	E	ABBIED600:2014
InIni2	ABBIED600_Rev1_SPS_e	No 2 operate signal	E	ABBIED600:2014
InIni3	ABBIED600_Rev1_SPS_e	No 3 operate signal	E	ABBIED600:2014
InIni4	ABBIED600_Rev1_SPS_e	No 4 operate signal	E	ABBIED600:2014
InIni5	ABBIED600_Rev1_SPS_e	No 5 operate signal	E	ABBIED600:2014
InIni6	ABBIED600_Rev1_SPS_e	No 6 operate signal	E	ABBIED600:2014
InDlIni2	ABBIED600_Rev1_SPS_e	No 2 start signal	E	ABBIED600:2014

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InDlIni3	ABBIED600_Rev1_SPS_e	No 3 start signal	E	ABBIED600:2014
InDlIni4	ABBIED600_Rev1_SPS_e	No 4 start signal	E	ABBIED600:2014
RclTmEla	ABBIED600_Rev1_SPS_e	Reclaim time elapsed	E	ABBIED600:2014
InBlkRecTm	ABBIED600_Rev1_SPS_e	Blocks and resets dead time	E	ABBIED600:2014
Sof	ABBIED600_Rev1_SPS_e	Switch on the fault	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub8_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.395 LN: TPOSYLTC1 Name: YLTC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TapPos	ABBIED600_Rev2_ISC_simple	TAPPOS		status-only
EndPosR	ABBIED600_Rev1_SPS	End position raise or highest reached		
EndPosL	ABBIED600_Rev1_SPS	End position lower or lowest reached		
InBit1	ABBIED600_Rev1_SPS_e	BI0	E	ABBIED600:2014

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InBit2	ABBIED600_Rev1_SPS_e	BI1	E	ABBIED600:2014
InBit3	ABBIED600_Rev1_SPS_e	BI2	E	ABBIED600:2014
InBit4	ABBIED600_Rev1_SPS_e	BI3	E	ABBIED600:2014
InBit5	ABBIED600_Rev1_SPS_e	BI4	E	ABBIED600:2014
InBit6	ABBIED600_Rev1_SPS_e	BI5	E	ABBIED600:2014
InBit7	ABBIED600_Rev1_SPS_e	SIGN_BIT	E	ABBIED600:2014
BinCdMod	ABBIED600_Rev3_ENG_SP_BCMod_e	Operation mode selection	E	ABBIED600:2014

5.2.396 LN: OLGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TrfTapPos	ABBIED600_Rev1_INS_e	Transformer tap position	E	ABBIED600:2014
TrfA	ABBIED600_Rev7_CMV_S_1_e	Received current from transformer	E	ABBIED600:2014
TapChgFol	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	ABBIED600:2014
TrfSt	ABBIED600_Rev3_ENS_TrfSt_e	Transformer status	E	ABBIED600:2014

5.2.397 LN: OLGAPC2 Name: GAPC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TrfTapPos	ABBIED600_Rev1_INS_e	Transformer tap position	E	ABBIED600:2014
TrfA	ABBIED600_Rev7_CMV_S_1_e	Received current from transformer	E	ABBIED600:2014
TapChgFol	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	ABBIED600:2014
TrfSt	ABBIED600_Rev3_ENS_TrfSt_e	Transformer status	E	ABBIED600:2014

5.2.398 LN: OLGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TrfTapPos	ABBIED600_Rev1_INS_e	Transformer tap position	E	ABBIED600:2014
TrfA	ABBIED600_Rev7_CMV_S_1_e	Received current from transformer	E	ABBIED600:2014
TapChgFol	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	ABBIED600:2014
TrfSt	ABBIED600_Rev3_ENS_TrfSt_e	Transformer status	E	ABBIED600:2014

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5.2.399 LN: OLGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TrfTapPos	ABBIED600_Rev1_INS_e	Transformer tap position	E	ABBIED600:2014
TrfA	ABBIED600_Rev7_CMV_S_1_e	Received current from transformer	E	ABBIED600:2014
TapChgFol	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	ABBIED600:2014
TrfSt	ABBIED600_Rev3_ENS_TrfSt_e	Transformer status	E	ABBIED600:2014

5.2.400 LN: OLGAPC5 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TrfTapPos	ABBIED600_Rev1_INS_e	Transformer tap position	E	ABBIED600:2014
TrfA	ABBIED600_Rev7_CMV_S_1_e	Received current from transformer	E	ABBIED600:2014
TapChgFol	ABBIED600_Rev1_INS_e	Change follower tap position (stop, lower, higher)	E	ABBIED600:2014

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TrfSt	ABBIED600_Rev3_ENS_TrfSt_e	Transformer status	E	ABBIED600:2014

5.2.401 LN: PASANCR1 Name: ANCR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
PotAlm	ABBIED600_Rev1_SPS	Potentiometer alarm		
MotAlm	ABBIED600_Rev1_SPS	Motor drive alarm due to no movement		
ClcSeqWrn	ABBIED600_Rev1_SPS	Maximum number of tuning cycles is reached		
StFixCol	ABBIED600_Rev1_SPS	Status of external fixcoil		
ParColMod	ABBIED600_Rev3_ENG_SG_ParColMod	Parallel coil operation mode setting		

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FixCol	ABBIED600_Rev8_ASG_SP_i	Inductive current produced by fixed coil at fixed coil nominal voltage level		
StrClc	ABBIED600_Rev3_SPC_control	Rising edge of this signal triggers the auto. tuning		status-only,direct-with-normal-security
Auto	ABBIED600_Rev3_SPC_control	Coil controller operating in automatic or manual mode		status-only,direct-with-normal-security
ColPos	ABBIED600_Rev9_APC_control	Coil position change to the specified value		status-only,direct-with-normal-security
ColPosA	ABBIED600_Rev7_MV_simple_i	Adjustable arc suppression coil position in amperes		

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AWatt	ABBIED600_Rev7_MV_simple_i	Watt-metric part of the Io at the fault loca-tion		
AResoPt	ABBIED600_Rev7_MV_simple_i	Current at the reso-nance point		
Damp	ABBIED600_Rev7_MV_simple_i	Dam-ping of the net-work		
VolResoPt	ABBIED600_Rev7_CMV_S_1	Reso-nance point voltage ampli-tude		
ADetun	ABBIED600_Rev7_MV_simple_i	Peter-sen coil detu-ning in ampe-res		
ADetunSet	ABBIED600_Rev8_ASG_SG_i	Detu-ning le-vel in ampe-res		
ColOpR	ABBIED600_Rev1_SPS_e	Change coil po-sition rise	E	ABBIED600:2014
ColOpL	ABBIED600_Rev1_SPS_e	Change coil po-sition lower	E	ABBIED600:2014
FixColLast	ABBIED600_Rev1_SPS_e	Status infor-mation to	E	ABBIED600:2014

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		control fixed coil on/off		
FixColOpn	ABBIED600_Rev1_SPS_e	Command to disconnect fix coil	E	ABBIED600:2014
FixColCls	ABBIED600_Rev1_SPS_e	Command to connect fix coil	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS_e	General alarm indication	E	IEC 61850-7-4:2007
EFDet	ABBIED600_Rev1_SPS_e	Earth-fault indication	E	ABBIED600:2014
TunAct	ABBIED600_Rev1_SPS_e	Automatic tuning procedure on-going	E	ABBIED600:2014
TunStrDlTms	ABBIED600_Rev1_INS_e	Remaining delay in sec. to start automatic tuning	E	ABBIED600:2014
OpTmh	ABBIED600_Rev1_INS_e	Controller time in operation (hours)	E	IEC 61850-7-4:2007
TunStrCnt	ABBIED600_Rev1_INS_e	Counter of	E	ABBIED600:2014

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		started tuning procedures		
TunSuc	ABBIED600_Rev1_SPS_e	Tuned successfully	E	ABBIED600:2014
TunSucCnt	ABBIED600_Rev1_INS_e	Counter of successful tuning procedures	E	ABBIED600:2014
TunCnlCnt	ABBIED600_Rev1_INS_e	Counter of cancelled tuning procedures	E	ABBIED600:2014
TunVMaxCnt	ABBIED600_Rev1_INS_e	Counter of coil final tuning position at Uo max	E	ABBIED600:2014
TunHiCnt	ABBIED600_Rev1_INS_e	Counter of cases when coil final tuning position is at high limit	E	ABBIED600:2014
TunLoCnt	ABBIED600_Rev1_INS_e	Counter of cases when coil	E	ABBIED600:2014

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		final tuning position is at low limit		
TrsEFCnt	ABBIED600_Rev1_INS_e	Counter of transient earth-faults	E	ABBIED600:2014
EFCnt	ABBIED600_Rev1_INS_e	Counter of earth-faults	E	ABBIED600:2014
MotRunTmh	ABBIED600_Rev1_INS_e	Total arc suppression coil motor run time (hours)	E	ABBIED600:2014
VResMax	ABBIED600_Rev1_SPS_e	Max. Lvl. for Uo allowed during Auto. tuning	E	ABBIED600:2014
VResMin	ABBIED600_Rev1_SPS_e	Zero-sequence voltage has reached Uo min level	E	ABBIED600:2014
ColDftPos	ABBIED600_Rev1_SPS_e	Coil has been moved to its default	E	ABBIED600:2014

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		position		
ColErrPos	ABBIED600_Rev1_SPS_e	Coil has been moved to its error position	E	ABBIED600:2014
StCol	ABBIED600_Rev1_SPS_e	Connection status of the variable arc suppression coil	E	ABBIED600:2014
CbrRsl	ABBIED600_Rev1_ENS_CbrRsl_e	Calibration result	E	ABBIED600:2014
CbrSt	ABBIED600_Rev2_ENS_CbrSt_e	Calibration status	E	ABBIED600:2014
AlmSt	ABBIED600_Rev2_ENS_AlmSt_e	Alarm status	E	ABBIED600:2014
TunSt	ABBIED600_Rev2_ENS_TunSt_e	Tuning status	E	ABBIED600:2014
TunDl	ABBIED600_Rev1_SPS_e	Tuning delay ongoing	E	ABBIED600:2014
InBlkAuto	ABBIED600_Rev1_SPS_e	Blocking the coil automatic tuning	E	ABBIED600:2014
InBlkMan	ABBIED600_Rev1_SPS_e	Blocking the coil manual	E	ABBIED600:2014

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		operation		
EndPosR	ABBIED600_Rev1_SPS_e	High coil position	E	IEC 61850-7-4:2007
EndPosL	ABBIED600_Rev1_SPS_e	Low coil position	E	IEC 61850-7-4:2007
RlDetunSet	ABBIED600_Rev8_ASG_SG_i_e	Detuning level in percent	E	ABBIED600:2014
CompMod	ABBIED600_Rev1_ENG_SG_AbsRl_e	Compensation degree in absolute amperes or relative to the resonance point	E	ABBIED600:2014
VRefChg	ABBIED600_Rev8_ASG_SG_i_e	Uo change threshold as % of reference voltage	E	ABBIED600:2014
VResMeasMod	ABBIED600_Rev1_ENG_SG_AmpPhasor_e	Uo trigger based on amplitude or phasor measurement	E	ABBIED600:2014
TunDlTms	ABBIED600_Rev2_ING_SG_e	Zero-sequence voltage trigger delay	E	ABBIED600:2014

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		to start control pro-cedure		
VResMin-Val	ABBIED600_Rev8_ASG_SG_i_e	Req. change in Uo that calc. of net. pa-ram. can be execu-ted	E	ABBIED600:2014
TunMod	ABBIED600_Rev1_ENG_SG_TunMod_e	Method for obtai-ning Uo va-riation	E	ABBIED600:2014
VRefAd-pMod	ABBIED600_Rev1_SPG_SG_e	Uref adap-tive mode	E	ABBIED600:2014
VRefAd-pDlTmm	ABBIED600_Rev2_ING_SG_e	Uref adap-tive de-lay	E	ABBIED600:2014
ColDftPos-Set	ABBIED600_Rev8_ASG_SG_i_e	Coil default posi-tion	E	ABBIED600:2014
VResMin-Set	ABBIED600_Rev8_ASG_SG_i_e	Min, level for Uo to al-low coil auto. tuning	E	ABBIED600:2014
VResMax-Set	ABBIED600_Rev8_ASG_SG_i_e	Max, level for Uo to al-low coil	E	ABBIED600:2014

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		auto. tuning		
AllwRisSw	ABBIED600_Rev1_SPG_SG_e	Resistor switching on/off allowed during the automatic tuning procedure	E	ABBIED600:2014
ColMinCur	ABBIED600_Rev8_ASG_SG_i_e	Minimum current of arc-suppression coil (low operating limit)	E	ABBIED600:2014
ColMaxCur	ABBIED600_Rev8_ASG_SG_i_e	Maximum current of arc-suppression coil (high operating limit)	E	ABBIED600:2014
ColErrPosSet	ABBIED600_Rev1_ENG_SG_ErrPos_e	Coil pos. in case error occurred during the auto. tuning	E	ABBIED600:2014

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EnaPass-Reso	ABBIED600_Rev1_SPG_SG_e	Pass resonance enabled / disabled	E	ABBIED600:2014
MaxNum-TunCyc	ABBIED600_Rev2_ING_SG_e	Maximum number of tuning cycles	E	ABBIED600:2014
Tun-CycDlTms	ABBIED600_Rev2_ING_SG_e	Delay between consecutive tuning cycles	E	ABBIED600:2014
TrsEFTmms	ABBIED600_Rev2_ING_SG_e	Transient earth-fault duration threshold	E	ABBIED600:2014
VResEFLev	ABBIED600_Rev8_ASG_SG_i_e	Uo level for detection of earth fault in the network	E	ABBIED600:2014
EFMod	ABBIED600_Rev1_ENG_SG_ModEF_e	Operation mode during earth-fault (alarming earth-fault)	E	ABBIED600:2014
ResoCrvCur	ABBIED600_Rev2_ENG_SG_ResoCrvCur_e	Resonance	E	ABBIED600:2014

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		curve x-axis title on HMI		
VNomEFN	ABBIED600_Rev8_ASG_SP_i_e	Adjustable arc suppression coil nominal voltage	E	ABBIED600:2014
VNomFixEFN	ABBIED600_Rev8_ASG_SP_i_e	Fixed arc suppression coil nominal voltage	E	ABBIED600:2014
VNomAuxWnd	ABBIED600_Rev8_ASG_SP_i_e	Power auxiliary winding nominal voltage	E	ABBIED600:2014
X0GndTrf	ABBIED600_Rev8_ASG_SP_i_e	Zero-sequence reactance of the earthing/main transformer	E	ABBIED600:2014
R0GndTrf	ABBIED600_Rev8_ASG_SP_i_e	Zero-sequence resistance of the	E	ABBIED600:2014

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		earthing/main transformer		
VResMeasLoct	ABBIED600_Rev3_ENG_SP_BusCol_e	Residual voltage measurement from busbar or from coil	E	ABBIED600:2014
PosMeasMod	ABBIED600_Rev3_ENG_SP_ClcInd_e	Coil position measurement mode	E	ABBIED600:2014
ColLos	ABBIED600_Rev8_ASG_SP_i_e	Coil losses	E	ABBIED600:2014
FixColLos	ABBIED600_Rev8_ASG_SP_i_e	Fix coil losses	E	ABBIED600:2014
PotMaxGap	ABBIED600_Rev2_ING_SP_1_e	Potentiometer maximum gap length	E	ABBIED600:2014
RsDlEFTms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time EF	E	ABBIED600:2014
FixColTyp	ABBIED600_Rev2_ENG_SP_AutoOnOff_e	Fix coil type	E	ABBIED600:2014
LevDetOp	ABBIED600_Rev2_SPG_SP_e	Enable / disable level detector module	E	ABBIED600:2014

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ColPotVal1	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 1	E	ABBIED600:2014
ColCurVal1	ABBIED600_Rev8_ASG_SP_i_e	Coil current 1	E	ABBIED600:2014
ColPotVal2	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 2	E	ABBIED600:2014
ColCurVal2	ABBIED600_Rev8_ASG_SP_i_e	Coil current 2	E	ABBIED600:2014
ColPotVal3	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 3	E	ABBIED600:2014
ColCurVal3	ABBIED600_Rev8_ASG_SP_i_e	Coil current 3	E	ABBIED600:2014
ColPotVal4	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 4	E	ABBIED600:2014
ColCurVal4	ABBIED600_Rev8_ASG_SP_i_e	Coil current 4	E	ABBIED600:2014
ColPotVal5	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 5	E	ABBIED600:2014
ColCurVal5	ABBIED600_Rev8_ASG_SP_i_e	Coil current 5	E	ABBIED600:2014
ColPotVal6	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 6	E	ABBIED600:2014
ColCurVal6	ABBIED600_Rev8_ASG_SP_i_e	Coil current 6	E	ABBIED600:2014

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ColPotVal7	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 7	E	ABBIED600:2014
ColCurVal7	ABBIED600_Rev8_ASG_SP_i_e	Coil current 7	E	ABBIED600:2014
ColPotVal8	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 8	E	ABBIED600:2014
ColCurVal8	ABBIED600_Rev8_ASG_SP_i_e	Coil current 8	E	ABBIED600:2014
ColPotVal9	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 9	E	ABBIED600:2014
ColCurVal9	ABBIED600_Rev8_ASG_SP_i_e	Coil current 9	E	ABBIED600:2014
ColPot-Val10	ABBIED600_Rev8_ASG_SP_i_e	Potentiometer value 10	E	ABBIED600:2014
ColCur-Val10	ABBIED600_Rev8_ASG_SP_i_e	Coil current 10	E	ABBIED600:2014
StrCbr	ABBIED600_Rev3_SPC_control_e	Rising edge of this signal triggers the calib. proc.	E	ABBIED600:2014, status-only,direct-with-normal-security
BlkAuto	ABBIED600_Rev3_SPC_control_e	Blocking the coil automatic tuning	E	ABBIED600:2014, status-only,direct-with-normal-security
BlkMan	ABBIED600_Rev3_SPC_control_e	Blocking the coil manual	E	ABBIED600:2014, status-only,direct-with-normal-security

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		operation		
CntRs	ABBIED600_Rev3_SPC_control_e	Reset operation counters	E	ABBIED600:2014, status-only,direct-with-normal-security
TestCtl	ABBIED600_Rev13_ENC_TestCtl_Sub2_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
CapacANtw	ABBIED600_Rev7_MV_simple_i_e	Uncompensated earth-fault current of the network	E	ABBIED600:2014
ColM-vmSpd	ABBIED600_Rev7_MV_simple_i_e	Coil movement speed detected during calibration	E	ABBIED600:2014
ColAftRun	ABBIED600_Rev7_MV_simple_i_e	Coil after-running current	E	ABBIED600:2014
MechPly	ABBIED600_Rev7_MV_simple_i_e	Mechanical play of the coil	E	ABBIED600:2014
ColPosATot	ABBIED600_Rev7_MV_simple_i_e	Total inductive current of adjustable and fixed ASC	E	ABBIED600:2014

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ColPotVal	ABBIED600_Rev7_MV_simple_i_e	Coil position indicating potentiometer value	E	ABBIED600:2014
VRef	ABBIED600_Rev7_CMV_S_1_e	Reference Voltage	E	ABBIED600:2014
VResoPt	ABBIED600_Rev7_MV_simple_i_e	Resonance point voltage amp. without the parallel res.	E	ABBIED600:2014
VResoPtRis	ABBIED600_Rev7_MV_simple_i_e	Resonance point voltage amp. with the parallel resistor	E	ABBIED600:2014
VResoPtRl	ABBIED600_Rev7_MV_simple_i_e	Resonance point voltage in % without the parallel res.	E	ABBIED600:2014
VResoPtRl-Ris	ABBIED600_Rev7_MV_simple_i_e	Resonance point voltage in % with the	E	ABBIED600:2014

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		parallel resistor		
RlDetun	ABBIED600_Rev7_MV_simple_ie	Petersen coil detuning in percent	E	ABBIED600:2014
TunStrPct	ABBIED600_Rev7_MV_simple_ie	Present deviation in Uo with respect to Uref	E	ABBIED600:2014
GapLoVal1	ABBIED600_Rev7_MV_simple_ie	Potentiometer 1st gap low value	E	ABBIED600:2014
GapHiVal1	ABBIED600_Rev7_MV_simple_ie	Potentiometer 1st gap high value	E	ABBIED600:2014
GapLoVal2	ABBIED600_Rev7_MV_simple_ie	Potentiometer 2nd gap low value	E	ABBIED600:2014
GapHiVal2	ABBIED600_Rev7_MV_simple_ie	Potentiometer 2nd gap high value	E	ABBIED600:2014
GapLoVal3	ABBIED600_Rev7_MV_simple_ie	Potentiometer 3rd gap low value	E	ABBIED600:2014

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GapHiVal3	ABBIED600_Rev7_MV_simple_ie	Potentiometer 3rd gap high value	E	ABBIED600:2014
GapLoVal4	ABBIED600_Rev7_MV_simple_ie	Potentiometer 4th gap low value	E	ABBIED600:2014
GapHiVal4	ABBIED600_Rev7_MV_simple_ie	Potentiometer 4th gap high value	E	ABBIED600:2014
GapLoVal5	ABBIED600_Rev7_MV_simple_ie	Potentiometer 5th gap low value	E	ABBIED600:2014
GapHiVal5	ABBIED600_Rev7_MV_simple_ie	Potentiometer 5th gap high value	E	ABBIED600:2014
Sus-SymmNtw	ABBIED600_Rev7_MV_simple_ie	Symmetrical susceptance of network	E	ABBIED600:2014
Cond-SymmNtw	ABBIED600_Rev7_MV_simple_ie	Symmetrical conductance of network	E	ABBIED600:2014

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SusAsyNtw	ABBIED600_Rev7_MV_simple_ie	Asymmetrical susceptance of network	E	ABBIED600:2014
CondAsyNtw	ABBIED600_Rev7_MV_simple_ie	Asymmetrical conductance of network	E	ABBIED600:2014
SusCol	ABBIED600_Rev7_MV_simple_ie	Coil susceptance	E	ABBIED600:2014
CondCol	ABBIED600_Rev7_MV_simple_ie	Coil conductance	E	ABBIED600:2014
SusFixCol	ABBIED600_Rev7_MV_simple_ie	Fixed parallel coil susceptance	E	ABBIED600:2014
CondFixCol	ABBIED600_Rev7_MV_simple_ie	Fixed parallel coil conductance	E	ABBIED600:2014
ColPosUsed	ABBIED600_Rev7_MV_simple_ie	Coil current value dedicated for HMI purposes	E	ABBIED600:2014
CbrPotMin	ABBIED600_Rev7_MV_simple_ie	Pot. min. value determined during	E	ABBIED600:2014

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		coil calibration		
CbrPotMax	ABBIED600_Rev7_MV_simple_ie	Pot. max. value determined during coil calibration	E	ABBIED600:2014
AEF	ABBIED600_Rev7_MV_simple_ie	Earth-fault current at present operate point	E	ABBIED600:2014
SusRat	ABBIED600_Rev7_MV_simple_ie	Susceptance ratio	E	ABBIED600:2014

5.2.402 LN: PASARIS1 Name: ARIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
StrSeq	ABBIED600_Rev3_SPC_control	Rising edge of this sig.		status-only,direct-with-normal-security

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		triggers the res. control seq.		
InBlkRis	ABBIED600_Rev1_SPS_e	Disconnect and block switching on the parallel resistor	E	ABBIED600:2014
RisSwAutoCnt	ABBIED600_Rev1_INS_e	Counter of parallel resistor automatic switching operations	E	ABBIED600:2014
RisSwManCnt	ABBIED600_Rev1_INS_e	Counter of parallel resistor manual switching operations	E	ABBIED600:2014
RisStLast	ABBIED600_Rev1_SPS_e	St. inf. to control	E	ABBIED600:2014

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		parallel current rising resistor		
RisOpn	ABBIED600_Rev1_SPS_e	Command to disconnect parallel current rising resistor	E	ABBIED600:2014
RisCls	ABBIED600_Rev1_SPS_e	Command to connect parallel current rising resistor	E	ABBIED600:2014
StRis	ABBIED600_Rev1_SPS_e	Connection St. of the parallel current raising resistor	E	ABBIED600:2014
ParRisSt	ABBIED600_Rev2_SPG_SP_e	Parallel	E	ABBIED600:2014

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		resis-tor in-stal-lation status		
RisCtlMod	ABBIED600_Rev2_ENG_SP_AutoOnOff_e	Re-sistor cont-rol mode	E	ABBIED600:2014
Ri-sOnDlTmms	ABBIED600_Rev2_ING_SG_e	Re-sistor switc h-on delay time	E	ABBIED600:2014
RisOnTmms	ABBIED600_Rev2_ING_SG_e	Re-sistor switc h on time	E	ABBIED600:2014
RptOnDlTmms	ABBIED600_Rev2_ING_SG_e	Re-sistor repe-tition switc h-on delay time	E	ABBIED600:2014
RptOnTmms	ABBIED600_Rev2_ING_SG_e	Re-sistor repe-tition switc h-on time	E	ABBIED600:2014
Ri-sOffDlTmms	ABBIED600_Rev2_ING_SG_e	Re-sistor switc h-off delay time	E	ABBIED600:2014
Ri-sOffTmms	ABBIED600_Rev2_ING_SG_e	Re-sistor switc	E	ABBIED600:2014

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		h-off time		
RptOffDlTmms	ABBIED600_Rev2_ING_SG_e	Resistor repetition switch-off delay time	E	ABBIED600:2014
RisNomSt	ABBIED600_Rev1_SPG_SG_e	Resistor connection status during healthy state operation	E	ABBIED600:2014
RisSwRpt	ABBIED600_Rev2_ING_SG_e	Number of resistor control sequence repeats	E	ABBIED600:2014
RisSwDl	ABBIED600_Rev2_ING_SG_e	Time between consecutive resistor control sequence repeats	E	ABBIED600:2014

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RisNomVal	ABBIED600_Rev8_ASG_SP_i_e	Rn of the parallel resistor at PAW secondary voltage level	E	ABBIED600:2014
BlkRis	ABBIED600_Rev3_SPC_control_e	Disconnect and block switching on the parallel resistor	E	ABBIED600:2014,status-only,direct-with-normal-security
CondParRis	ABBIED600_Rev7_MV_simple_i_e	Parallel resistor conductance	E	ABBIED600:2014

5.2.403 LN: PASYEFN1 Name: YEFN (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
EndPosR	ABBIED600_Rev1_SPS	High end position reached		

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EndPosL	ABBIED600_Rev1_SPS	Low end position reached		
Co-lAEFN	ABBIED600_Rev7_CMV_S_1	Real measu-red coil current		
NeutVol	ABBIED600_Rev7_CMV_S_1	Neutral to ground voltage		
ColPos	ABBIED600_Rev3_APC_simple	Plunge core po-sition		status-only,direct-with-normal-secu-rity
Col-PosPot	ABBIED600_Rev7_MV_simple_i_e	Coil po-sition derived from the poten-tiometer reading	E	ABBIED600:2014

5.2.404 LN: SECRSYN1 Name: RSYN (ED2)

Attri-bute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
Rel	ABBIED600_Rev1_SPS	Re-lease		
VInd	ABBIED600_Rev1_SPS	Vol-tage Diffe-rence		

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		Indicator		
AngInd	ABBIED600_Rev1_SPS	Angle Difference Indicator		
HzInd	ABBIED600_Rev1_SPS	Frequency difference Indicator		
SynPrg	ABBIED600_Rev2_SPC_simple	Synchronising in progress		status-only
DifVClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference in Voltage		
DifHzClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference in Frequency		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference of Phase Angle		
DifV	ABBIED600_Rev8_ASG_SG_i	Difference Voltage		
DifHz	ABBIED600_Rev8_ASG_SG_i	Difference		

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		Frequency		
DifAng	ABBIED600_Rev8_ASG_SG_i	Difference Phase Angle		
LivDeaMod	ABBIED600_Rev5_ENG_SG_LivDeaMod_Sub1	Live Dead Mode		
DeaLinVal	ABBIED600_Rev8_ASG_SP_i	Dead Line Value		
LivLinVal	ABBIED600_Rev8_ASG_SP_i	Live Line Value		
DeaBusVal	ABBIED600_Rev8_ASG_SP_i	Dead Bus Value		
LivBusVal	ABBIED600_Rev8_ASG_SP_i	Live Bus Value		
PlsTmms	ABBIED600_Rev2_ING_SP_e	Close Pulse Time	E	ABBIED600:2014
CBTmms	ABBIED600_Rev2_ING_SP_e	Closing time of the breaker	E	IEC 61850-7-4:2007
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	ABBIED600:2014
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_e	External closing	E	ABBIED600:2014

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		re-quest		
Byp	ABBIED600_Rev1_SPS_e	Re-quest to by-pass synch-ro-nism check and vol-tage check	E	ABBIED600:2014
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	ABBIED600:2014
LLLBInd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	ABBIED600:2014
DLLBInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	ABBIED600:2014
DLD-BInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	ABBIED600:2014
SynCh-kMod	ABBIED600_Rev4_ENG_SP_OpModSC_Sub1_e	Synch rochec k mode	E	ABBIED600:2014
OpMod-Ctl	ABBIED600_Rev4_ENG_SP_OpModCtrl_Sub1_e	Selec-tion of synchr o check com-mand or Conti-nuous cont-rol mode	E	ABBIED600:2014

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EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of Line and Bus	E	ABBIED600:2014
MaxVEn	ABBIED600_Rev8_ASG_SP_i_e	Maximum voltage for energizing	E	ABBIED600:2014
PhSht	ABBIED600_Rev8_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	ABBIED600:2014
EnTmms	ABBIED600_Rev2_ING_SP_e	Time delay for energizing check	E	ABBIED600:2014
MaxSynTmms	ABBIED600_Rev2_ING_SP_e	Maximum time to accept synchronizing	E	ABBIED600:2014
MinSynTmms	ABBIED600_Rev2_ING_SP_e	Minimum time to	E	ABBIED600:2014

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		accept synch-roni-zing		
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub12_e	Test cont-rol for out-puts	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity
VSrcSw	ABBIED600_Rev2_SPG_SP_e	Vol-tage source switch	E	ABBIED600:2014

5.2.405 LN: SECRSYN2 Name: RSYN (ED2)

Attri-bute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
Rel	ABBIED600_Rev1_SPS	Re-lease		
VInd	ABBIED600_Rev1_SPS	Vol-tage Diffe-rence Indi-cator		
AngInd	ABBIED600_Rev1_SPS	Angle Diffe-rence Indi-cator		
HzInd	ABBIED600_Rev1_SPS	Frequenc		

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		y dif-fe-rence Indi-cator		
SynPrg	ABBIED600_Rev2_SPC_simple	Synch roni-sing in prog-ress		status-only
DifVClc	ABBIED600_Rev7_MV_simple_i	Calcu-lated Diffe-rence in Vol-tage		
DifHzCl c	ABBIED600_Rev7_MV_simple_i	Calcu-lated Diffe-rence in Fre-quenc y		
DifAng Clc	ABBIED600_Rev7_MV_simple_i	Calcu-lated Diffe-rence of Phase Angle		
DifV	ABBIED600_Rev8_ASG_SG_i	Diffe-rence Vol-tage		
DifHz	ABBIED600_Rev8_ASG_SG_i	Diffe-rence Fre-quenc y		
DifAng	ABBIED600_Rev8_ASG_SG_i	Diffe-rence Phase Angle		
LivDea-Mod	ABBIED600_Rev5_ENG_SG_LivDea Mod_Sub1	Live Dead Mode		

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DeaLin-Val	ABBIED600_Rev8_ASG_SP_i	Dead Line Value		
LivLin-Val	ABBIED600_Rev8_ASG_SP_i	Live Line Value		
DeaBus Val	ABBIED600_Rev8_ASG_SP_i	Dead Bus Value		
LivBus-Val	ABBIED600_Rev8_ASG_SP_i	Live Bus Value		
PlsTmms	ABBIED600_Rev2_ING_SP_e	Close Pulse Time	E	ABBIED600:2014
CBTmms	ABBIED600_Rev2_ING_SP_e	Closing time of the breaker	E	IEC 61850-7-4:2007
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	ABBIED600:2014
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_e	External closing request	E	ABBIED600:2014
Byp	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and	E	ABBIED600:2014

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		voltage check		
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	ABBIED600:2014
LLLBInd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	ABBIED600:2014
DLLBInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	ABBIED600:2014
DLDBInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	ABBIED600:2014
SynChkMod	ABBIED600_Rev4_ENG_SP_OpModSC_Sub1_e	Synchrocheck mode	E	ABBIED600:2014
OpModCtl	ABBIED600_Rev4_ENG_SP_OpModCtrl_Sub1_e	Selection of synchro check command or Continuous control mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of Line and Bus	E	ABBIED600:2014
MaxVEn	ABBIED600_Rev8_ASG_SP_i_e	Maximum	E	ABBIED600:2014

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		voltage for energizing		
PhSht	ABBIED600_Rev8_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	ABBIED600:2014
EnTmms	ABBIED600_Rev2_ING_SP_e	Time delay for energizing check	E	ABBIED600:2014
MaxSynTms	ABBIED600_Rev2_ING_SP_e	Maximum time to accept synchronizing	E	ABBIED600:2014
MinSynTms	ABBIED600_Rev2_ING_SP_e	Minimum time to accept synchronizing	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub12_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security

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VSrcSw	ABBIED600_Rev2_SPG_SP_e	Voltage source switch	E	ABBIED600:2014

5.2.406 LN: SECRSYN3 Name: RSYN (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Rel	ABBIED600_Rev1_SPS	Release		
VInd	ABBIED600_Rev1_SPS	Voltage Difference Indicator		
AngInd	ABBIED600_Rev1_SPS	Angle Difference Indicator		
HzInd	ABBIED600_Rev1_SPS	Frequency difference Indicator		
SynPrg	ABBIED600_Rev2_SPC_simple	Synchronising in progress		status-only

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DifVClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference in Voltage		
DifHzClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference in Frequency		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference of Phase Angle		
DifV	ABBIED600_Rev8_ASG_SG_i	Difference Voltage		
DifHz	ABBIED600_Rev8_ASG_SG_i	Difference Frequency		
DifAng	ABBIED600_Rev8_ASG_SG_i	Difference Phase Angle		
LivDeaMod	ABBIED600_Rev5_ENG_SG_LivDeaMod_Sub1	Live Dead Mode		
DeaLinVal	ABBIED600_Rev8_ASG_SP_i	Dead Line Value		
LivLinVal	ABBIED600_Rev8_ASG_SP_i	Live Line Value		
DeaBusVal	ABBIED600_Rev8_ASG_SP_i	Dead Bus Value		

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LivBus-Val	ABBIED600_Rev8_ASG_SP_i	Live Bus Value		
PlsTmms	ABBIED600_Rev2_ING_SP_e	Close Pulse Time	E	ABBIED600:2014
CBTmms	ABBIED600_Rev2_ING_SP_e	Closing time of the breaker	E	IEC 61850-7-4:2007
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	ABBIED600:2014
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_e	External closing request	E	ABBIED600:2014
Byp	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and voltage check	E	ABBIED600:2014
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	ABBIED600:2014
LLLBInd	ABBIED600_Rev1_SPS_e	Live Line,	E	ABBIED600:2014

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		Live Bus		
DLLBInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	ABBIED600:2014
DLD-BInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	ABBIED600:2014
SynCh-kMod	ABBIED600_Rev4_ENG_SP_OpModSC_Sub1_e	Synchrocheck mode	E	ABBIED600:2014
OpMod-Ctl	ABBIED600_Rev4_ENG_SP_OpModCtrl_Sub1_e	Selection of synchro check command or Continuous control mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of Line and Bus	E	ABBIED600:2014
MaxVEn	ABBIED600_Rev8_ASG_SP_i_e	Maximum voltage for energizing	E	ABBIED600:2014
PhSht	ABBIED600_Rev8_ASG_SP_i_e	Correction of phase	E	ABBIED600:2014

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		difference between measured U_BUS and U_LINE		
EnTmms	ABBIED600_Rev2_ING_SP_e	Time delay for energizing check	E	ABBIED600:2014
MaxSynTms	ABBIED600_Rev2_ING_SP_e	Maximum time to accept synchronizing	E	ABBIED600:2014
MinSynTms	ABBIED600_Rev2_ING_SP_e	Minimum time to accept synchronizing	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub12_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
VSrcSw	ABBIED600_Rev2_SPG_SP_e	Voltage source switch	E	ABBIED600:2014

5.2.407 LN: SECRSYN4 Name: RSYN (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Rel	ABBIED600_Rev1_SPS	Release		
VInd	ABBIED600_Rev1_SPS	Voltage Difference Indicator		
AngInd	ABBIED600_Rev1_SPS	Angle Difference Indicator		
HzInd	ABBIED600_Rev1_SPS	Frequency difference Indicator		
SynPrg	ABBIED600_Rev2_SPC_simple	Synchronising in progress		status-only
DifVClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference in Voltage		
DifHzClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference		

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		in Frequency		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Calculated Difference of Phase Angle		
DifV	ABBIED600_Rev8_ASG_SG_i	Difference Voltage		
DifHz	ABBIED600_Rev8_ASG_SG_i	Difference Frequency		
DifAng	ABBIED600_Rev8_ASG_SG_i	Difference Phase Angle		
LivDeaMod	ABBIED600_Rev5_ENG_SG_LivDeaMod_Sub1	Live Dead Mode		
DeaLinVal	ABBIED600_Rev8_ASG_SP_i	Dead Line Value		
LivLinVal	ABBIED600_Rev8_ASG_SP_i	Live Line Value		
DeaBusVal	ABBIED600_Rev8_ASG_SP_i	Dead Bus Value		
LivBusVal	ABBIED600_Rev8_ASG_SP_i	Live Bus Value		
PlsTmms	ABBIED600_Rev2_ING_SP_e	Close Pulse Time	E	ABBIED600:2014
CBTmms	ABBIED600_Rev2_ING_SP_e	Closing time of the	E	IEC 61850-7-4:2007

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		breaker		
FailCmd	ABBIED600_Rev1_SPS_e	CB closing request failed	E	ABBIED600:2014
FailSyn	ABBIED600_Rev1_SPS_e	CB closing failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_e	External closing request	E	ABBIED600:2014
Byp	ABBIED600_Rev1_SPS_e	Request to bypass synchronism check and voltage check	E	ABBIED600:2014
LLDBInd	ABBIED600_Rev1_SPS_e	Live Line, Dead Bus	E	ABBIED600:2014
LLLBInd	ABBIED600_Rev1_SPS_e	Live Line, Live Bus	E	ABBIED600:2014
DLLBInd	ABBIED600_Rev1_SPS_e	Dead Line, Live Bus	E	ABBIED600:2014
DLDBInd	ABBIED600_Rev1_SPS_e	Dead Line, Dead Bus	E	ABBIED600:2014

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SynChkMod	ABBIED600_Rev4_ENG_SP_OpModSC_Sub1_e	Synchrocheck mode	E	ABBIED600:2014
OpModCtl	ABBIED600_Rev4_ENG_SP_OpModCtrl_Sub1_e	Selection of synchro check command or Continuous control mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of Line and Bus	E	ABBIED600:2014
MaxVEn	ABBIED600_Rev8_ASG_SP_i_e	Maximum voltage for energizing	E	ABBIED600:2014
PhSht	ABBIED600_Rev8_ASG_SP_i_e	Correction of phase difference between measured U_BUS and U_LINE	E	ABBIED600:2014

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EnTmms	ABBIED600_Rev2_ING_SP_e	Time delay for energizing check	E	ABBIED600:2014
MaxSynTms	ABBIED600_Rev2_ING_SP_e	Maximum time to accept synchronizing	E	ABBIED600:2014
MinSynTms	ABBIED600_Rev2_ING_SP_e	Minimum time to accept synchronizing	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub12_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
VSrcSw	ABBIED600_Rev2_SPG_SP_e	Voltage source switch	E	ABBIED600:2014

5.2.408 LN: ASCGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		out-puts		
DifVClc	ABBIED600_Rev7_MV_simple_i_e	Calcu-lated diffe-rence in vol-tage (amp-litude value)	E	IEC 61850-7-4:2007
DifHzClc	ABBIED600_Rev7_MV_simple_i_e	Calcu-lated diffe-rence in fre-quenc y	E	IEC 61850-7-4:2007
ASCActSt	ABBIED600_Rev1_SPS_e	ASC active status	E	ABBIED600:2014
AutoSynErr	ABBIED600_Rev1_SPS_e	Auto synch-ro-niza-tion con-flict	E	ABBIED600:2014
Gri-ConnSrc1	ABBIED600_Rev1_SPS_simple_e	Sourc e 1 grid con-nec-tion status	E	ABBIED600:2014
Gri-ConnSrc2	ABBIED600_Rev1_SPS_simple_e	Sourc e 2 grid con-nec-tion status	E	ABBIED600:2014
Gri-ConnSrc3	ABBIED600_Rev1_SPS_simple_e	Sourc e 3 grid	E	ABBIED600:2014

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		con-nec-tion status		
Gri-ConnSrc4	ABBIED600_Rev1_SPS_simple_e	Sourc e 4 grid con-nec-tion status	E	ABBIED600:2014
Gri-ConnSrc5	ABBIED600_Rev1_SPS_simple_e	Sourc e 5 grid con-nec-tion status	E	ABBIED600:2014
Gri-ConnSrc6	ABBIED600_Rev1_SPS_simple_e	Sourc e 6 grid con-nec-tion status	E	ABBIED600:2014
Gri-ConnSrc7	ABBIED600_Rev1_SPS_simple_e	Sourc e 7 grid con-nec-tion status	E	ABBIED600:2014
Gri-ConnSrc8	ABBIED600_Rev1_SPS_simple_e	Sourc e 8 grid con-nec-tion status	E	ABBIED600:2014
NtwSrc1	ABBIED600_Rev1_INS_e	Sourc e 1 sub-net-work num-ber	E	ABBIED600:2014

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NtwSrc2	ABBIED600_Rev1_INS_e	Source 2 sub-network number	E	ABBIED600:2014
NtwSrc3	ABBIED600_Rev1_INS_e	Source 3 sub-network number	E	ABBIED600:2014
NtwSrc4	ABBIED600_Rev1_INS_e	Source 4 sub-network number	E	ABBIED600:2014
NtwSrc5	ABBIED600_Rev1_INS_e	Source 5 sub-network number	E	ABBIED600:2014
NtwSrc6	ABBIED600_Rev1_INS_e	Source 6 sub-network number	E	ABBIED600:2014
NtwSrc7	ABBIED600_Rev1_INS_e	Source 7 sub-network number	E	ABBIED600:2014
NtwSrc8	ABBIED600_Rev1_INS_e	Source 8 sub-network	E	ABBIED600:2014

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		num-ber		
NtwNoSrc1	ABBIED600_Rev1_INS_e	Non-source CB 1 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc2	ABBIED600_Rev1_INS_e	Non-source CB 2 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc3	ABBIED600_Rev1_INS_e	Non-source CB 3 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc4	ABBIED600_Rev1_INS_e	Non-source CB 4 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc5	ABBIED600_Rev1_INS_e	Non-source CB 5 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc6	ABBIED600_Rev1_INS_e	Non-source CB 6	E	ABBIED600:2014

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		sub-network number		
NtwNoSrc7	ABBIED600_Rev1_INS_e	Non-source CB 7 sub-network number	E	ABBIED600:2014
NtwNoSrc8	ABBIED600_Rev1_INS_e	Non-source CB 8 sub-network number	E	ABBIED600:2014
NtwNoSrc9	ABBIED600_Rev1_INS_e	Non-source CB 9 sub-network number	E	ABBIED600:2014
NtwNoSrc10	ABBIED600_Rev1_INS_e	Non-source CB 10 sub-network number	E	ABBIED600:2014
NtwNoSrc11	ABBIED600_Rev1_INS_e	Non-source CB 11 sub-network number	E	ABBIED600:2014
NtwNoSrc12	ABBIED600_Rev1_INS_e	Non-source	E	ABBIED600:2014

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		CB 12 sub-net-work num-ber		
NtwNoSrc13	ABBIED600_Rev1_INS_e	Non-source CB 13 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc14	ABBIED600_Rev1_INS_e	Non-source CB 14 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc15	ABBIED600_Rev1_INS_e	Non-source CB 15 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc16	ABBIED600_Rev1_INS_e	Non-source CB 16 sub-net-work num-ber	E	ABBIED600:2014
NtwNoSrc17	ABBIED600_Rev1_INS_e	Non-source CB 17 sub-net-work num-ber	E	ABBIED600:2014

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NtwBus1	ABBIED600_Rev1_INS_e	Bus 1 sub-net-work num-ber	E	ABBIED600:2014
NtwBus2	ABBIED600_Rev1_INS_e	Bus 2 sub-net-work num-ber	E	ABBIED600:2014
NtwBus3	ABBIED600_Rev1_INS_e	Bus 3 sub-net-work num-ber	E	ABBIED600:2014
NtwBus4	ABBIED600_Rev1_INS_e	Bus 4 sub-net-work num-ber	E	ABBIED600:2014
NtwBus5	ABBIED600_Rev1_INS_e	Bus 5 sub-net-work num-ber	E	ABBIED600:2014
NtwBus6	ABBIED600_Rev1_INS_e	Bus 6 sub-net-work num-ber	E	ABBIED600:2014
NtwBus7	ABBIED600_Rev1_INS_e	Bus 7 sub-net-work num-ber	E	ABBIED600:2014
NtwBus8	ABBIED600_Rev1_INS_e	Bus 8 sub-net-work	E	ABBIED600:2014

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		num-ber		
NtwBus9	ABBIED600_Rev1_INS_e	Bus 9 sub-net-work num-ber	E	ABBIED600:2014
NtwBus10	ABBIED600_Rev1_INS_e	Bus 10 sub-net-work num-ber	E	ABBIED600:2014
NtwBus11	ABBIED600_Rev1_INS_e	Bus 11 sub-net-work num-ber	E	ABBIED600:2014
NtwBus12	ABBIED600_Rev1_INS_e	Bus 12 sub-net-work num-ber	E	ABBIED600:2014
NtwBus13	ABBIED600_Rev1_INS_e	Bus 13 sub-net-work num-ber	E	ABBIED600:2014
NtwBus14	ABBIED600_Rev1_INS_e	Bus 14 sub-net-work num-ber	E	ABBIED600:2014
NtwBus15	ABBIED600_Rev1_INS_e	Bus 15	E	ABBIED600:2014

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		sub-network number		
SynCBNum	ABBIED600_Rev1_INS_e	Non-source CB undergoing synchronization	E	ABBIED600:2014
DatOutSrc1	ABBIED600_Rev1_INS_e	Output data to source number 1	E	ABBIED600:2014
DatOutSrc2	ABBIED600_Rev1_INS_e	Output data to source number 2	E	ABBIED600:2014
DatOutSrc3	ABBIED600_Rev1_INS_e	Output data to source number 3	E	ABBIED600:2014
DatOutSrc4	ABBIED600_Rev1_INS_e	Output data to source number 4	E	ABBIED600:2014
DatOutSrc5	ABBIED600_Rev1_INS_e	Output data to source number 5	E	ABBIED600:2014
DatOutSrc6	ABBIED600_Rev1_INS_e	Output data to	E	ABBIED600:2014

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		source number 6		
DatOutSrc7	ABBIED600_Rev1_INS_e	Output data to source number 7	E	ABBIED600:2014
DatOutSrc8	ABBIED600_Rev1_INS_e	Output data to source number 8	E	ABBIED600:2014
NoSrcDat1	ABBIED600_Rev1_INS_e	Output data to non-source CB 1	E	ABBIED600:2014
NoSrcDat2	ABBIED600_Rev1_INS_e	Output data to non-source CB 2	E	ABBIED600:2014
NoSrcDat3	ABBIED600_Rev1_INS_e	Output data to non-source CB 3	E	ABBIED600:2014
SelSrc1	ABBIED600_Rev3_SPC_control_e	Source 1 selection	E	ABBIED600:2014,status-only,direct-with-normal-security
SelSrc2	ABBIED600_Rev3_SPC_control_e	Source 2 selection	E	ABBIED600:2014,status-only,direct-with-normal-security
SelSrc3	ABBIED600_Rev3_SPC_control_e	Source 3 selection	E	ABBIED600:2014,status-only,direct-with-normal-security

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SelSrc4	ABBIED600_Rev3_SPC_control_e	Source 4 selection	E	ABBIED600:2014,status-only,direct-with-normal-security
SelSrc5	ABBIED600_Rev3_SPC_control_e	Source 5 selection	E	ABBIED600:2014,status-only,direct-with-normal-security
SelSrc6	ABBIED600_Rev3_SPC_control_e	Source 6 selection	E	ABBIED600:2014,status-only,direct-with-normal-security
SelSrc7	ABBIED600_Rev3_SPC_control_e	Source 7 selection	E	ABBIED600:2014,status-only,direct-with-normal-security
SelSrc8	ABBIED600_Rev3_SPC_control_e	Source 8 selection	E	ABBIED600:2014,status-only,direct-with-normal-security
CnfSrcSel	ABBIED600_Rev3_SPC_control_e	Confirmation of source selection	E	ABBIED600:2014,status-only,direct-with-normal-security
AdjTmms	ABBIED600_Rev2_ING_SP_1_e	Maximum time to complete the voltage and frequency matching	E	ABBIED600:2014
NumOfSrc	ABBIED600_Rev2_ING_SG_e	Total number of sources present in	E	ABBIED600:2014

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		the system		
NumNoSrcCB	ABBIED600_Rev2_ING_SG_e	Number of bus coupler or grid transformer CB in the system	E	ABBIED600:2014
CrdAdjSt	ABBIED600_Rev3_ENS_AutoSyncMatch_e	Matching status	E	ABBIED600:2014
SynErrSt	ABBIED600_Rev2_ENS_AutoSyncConfl_e	Autosynchronization conflict status	E	ABBIED600:2014
PrtGrSrc1	ABBIED600_Rev3_ENS_PtcpGroup_e	Source 1 participation group	E	ABBIED600:2014
PrtGrSrc2	ABBIED600_Rev3_ENS_PtcpGroup_e	Source 2 participation group	E	ABBIED600:2014
PrtGrSrc3	ABBIED600_Rev3_ENS_PtcpGroup_e	Source 3 participation group	E	ABBIED600:2014
PrtGrSrc4	ABBIED600_Rev3_ENS_PtcpGroup_e	Source 4	E	ABBIED600:2014

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		participation group		
PrtGrSrc5	ABBIED600_Rev3_ENS_PtcpGroup_e	Source 5 participation group	E	ABBIED600:2014
PrtGrSrc6	ABBIED600_Rev3_ENS_PtcpGroup_e	Source 6 participation group	E	ABBIED600:2014
PrtGrSrc7	ABBIED600_Rev3_ENS_PtcpGroup_e	Source 7 participation group	E	ABBIED600:2014
PrtGrSrc8	ABBIED600_Rev3_ENS_PtcpGroup_e	Source 8 participation group	E	ABBIED600:2014
SelPrtGr	ABBIED600_Rev3_ENS_PtcpGroup_e	Selected source participation group	E	ABBIED600:2014
OpModNoSrc	ABBIED600_Rev3_ENS_AutoSyncMode_e	Operation mode of non-source CB undergoing	E	ABBIED600:2014

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		synch-ro-niza-tion		
OpModSrc1	ABBIED600_Rev3_ENS_AutoSyncMode_e	Synch ro-niza-tion opera-tion mode of source 1	E	ABBIED600:2014
OpModSrc2	ABBIED600_Rev3_ENS_AutoSyncMode_e	Synch ro-niza-tion opera-tion mode of source 2	E	ABBIED600:2014
OpModSrc3	ABBIED600_Rev3_ENS_AutoSyncMode_e	Synch ro-niza-tion opera-tion mode of source 3	E	ABBIED600:2014
OpModSrc4	ABBIED600_Rev3_ENS_AutoSyncMode_e	Synch ro-niza-tion opera-tion mode of source 4	E	ABBIED600:2014

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OpModSrc5	ABBIED600_Rev3_ENS_AutoSyncMode_e	Synchro-nization operation mode of source 5	E	ABBIED600:2014
OpModSrc6	ABBIED600_Rev3_ENS_AutoSyncMode_e	Synchro-nization operation mode of source 6	E	ABBIED600:2014
OpModSrc7	ABBIED600_Rev3_ENS_AutoSyncMode_e	Synchro-nization operation mode of source 7	E	ABBIED600:2014
OpModSrc8	ABBIED600_Rev3_ENS_AutoSyncMode_e	Synchro-nization operation mode of source 8	E	ABBIED600:2014
BusASrc1	ABBIED600_Rev1_ENG_SG_BusList_e	Source 1 CB connected bus A number	E	ABBIED600:2014

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BusBSrc1	ABBIED600_Rev1_ENG_SG_BusList_e	Source 1 CB connected bus B number	E	ABBIED600:2014
BusASrc2	ABBIED600_Rev1_ENG_SG_BusList_e	Source 2 CB connected bus A number	E	ABBIED600:2014
BusBSrc2	ABBIED600_Rev1_ENG_SG_BusList_e	Source 2 CB connected bus B number	E	ABBIED600:2014
BusASrc3	ABBIED600_Rev1_ENG_SG_BusList_e	Source 3 CB connected bus A number	E	ABBIED600:2014
BusBSrc3	ABBIED600_Rev1_ENG_SG_BusList_e	Source 3 CB connected bus B number	E	ABBIED600:2014
BusASrc4	ABBIED600_Rev1_ENG_SG_BusList_e	Source 4 CB connected bus A	E	ABBIED600:2014

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		number		
BusBSrc4	ABBIED600_Rev1_ENG_SG_BusList_e	Source 4 CB connected bus B number	E	ABBIED600:2014
BusASrc5	ABBIED600_Rev1_ENG_SG_BusList_e	Source 5 CB connected bus A number	E	ABBIED600:2014
BusBSrc5	ABBIED600_Rev1_ENG_SG_BusList_e	Source 5 CB connected bus B number	E	ABBIED600:2014
BusASrc6	ABBIED600_Rev1_ENG_SG_BusList_e	Source 6 CB connected bus A number	E	ABBIED600:2014
BusBSrc6	ABBIED600_Rev1_ENG_SG_BusList_e	Source 6 CB connected bus B number	E	ABBIED600:2014
BusASrc7	ABBIED600_Rev1_ENG_SG_BusList_e	Source 7 CB connected	E	ABBIED600:2014

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		bus A number		
BusBSrc7	ABBIED600_Rev1_ENG_SG_BusList_e	Source 7 CB connected bus B number	E	ABBIED600:2014
BusASrc8	ABBIED600_Rev1_ENG_SG_BusList_e	Source 8 CB connected bus A number	E	ABBIED600:2014
BusBSrc8	ABBIED600_Rev1_ENG_SG_BusList_e	Source 8 CB connected bus B number	E	ABBIED600:2014
BusA1NoSrc1	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB1 connected bus A1 number	E	ABBIED600:2014
BusA2NoSrc1	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB1 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc1	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source	E	ABBIED600:2014

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		CB1 connected bus B1 number		
BusB2NoSrc1	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB1 connected bus B2 number	E	ABBIED600:2014
BusA1NoSrc2	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB2 connected bus A1 number	E	ABBIED600:2014
BusA2NoSrc2	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB2 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc2	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB2 connected bus B1 number	E	ABBIED600:2014
BusB2NoSrc2	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB2	E	ABBIED600:2014

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		con-nected bus B2 num-ber		
BusA1NoSrc3	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB3 con-nected bus A1 num-ber	E	ABBIED600:2014
BusA2NoSrc3	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB3 con-nected bus A2 num-ber	E	ABBIED600:2014
BusB1NoSrc3	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB3 con-nected bus B1 num-ber	E	ABBIED600:2014
BusB2NoSrc3	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB3 con-nected bus B2 num-ber	E	ABBIED600:2014
BusA1NoSrc4	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB4 con-nected	E	ABBIED600:2014

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		bus A1 num-ber		
BusA2NoSrc4	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB4 con-nected bus A2 num-ber	E	ABBIED600:2014
BusB1NoSrc4	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB4 con-nected bus B1 num-ber	E	ABBIED600:2014
BusB2NoSrc4	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB4 con-nected bus B2 num-ber	E	ABBIED600:2014
BusA1NoSrc5	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB5 con-nected bus A1 num-ber	E	ABBIED600:2014
BusA2NoSrc5	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB5 con-nected bus A2	E	ABBIED600:2014

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		num-ber		
BusB1NoSrc5	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB5 con-nected bus B1 num-ber	E	ABBIED600:2014
BusB2NoSrc5	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB5 con-nected bus B2 num-ber	E	ABBIED600:2014
BusA1NoSrc6	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB6 con-nected bus A1 num-ber	E	ABBIED600:2014
BusA2NoSrc6	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB6 con-nected bus A2 num-ber	E	ABBIED600:2014
BusB1NoSrc6	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB6 con-nected bus B1 num-ber	E	ABBIED600:2014

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BusB2NoSrc6	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB6 connected bus B2 number	E	ABBIED600:2014
BusA1NoSrc7	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB7 connected bus A1 number	E	ABBIED600:2014
BusA2NoSrc7	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB7 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc7	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB7 connected bus B1 number	E	ABBIED600:2014
BusB2NoSrc7	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB7 connected bus B2 number	E	ABBIED600:2014
BusA1NoSrc8	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source	E	ABBIED600:2014

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		CB8 connected bus A1 number		
BusA2NoSrc8	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB8 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc8	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB8 connected bus B1 number	E	ABBIED600:2014
BusB2NoSrc8	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB8 connected bus B2 number	E	ABBIED600:2014
BusA1NoSrc9	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB9 connected bus A1 number	E	ABBIED600:2014
BusA2NoSrc9	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB9	E	ABBIED600:2014

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		con-nected bus A2 num-ber		
BusB1NoSrc9	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB9 con-nected bus B1 num-ber	E	ABBIED600:2014
BusB2NoSrc9	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB9 con-nected bus B2 num-ber	E	ABBIED600:2014
BusA1NoSrc10	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB10 con-nected bus A1 num-ber	E	ABBIED600:2014
BusA2NoSrc10	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB10 con-nected bus A2 num-ber	E	ABBIED600:2014
BusB1NoSrc10	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB10 con-nected	E	ABBIED600:2014

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		bus B1 number		
BusB2NoSrc10	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB10 connected bus B2 number	E	ABBIED600:2014
BusA1NoSrc11	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB11 connected bus A1 number	E	ABBIED600:2014
BusA2NoSrc11	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB11 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc11	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB11 connected bus B1 number	E	ABBIED600:2014
BusB2NoSrc11	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB11 connected bus B2	E	ABBIED600:2014

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		num-ber		
BusA1NoSrc12	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB12 con-nected bus A1 num-ber	E	ABBIED600:2014
BusA2NoSrc12	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB12 con-nected bus A2 num-ber	E	ABBIED600:2014
BusB1NoSrc12	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB12 con-nected bus B1 num-ber	E	ABBIED600:2014
BusB2NoSrc12	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB12 con-nected bus B2 num-ber	E	ABBIED600:2014
BusA1NoSrc13	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB13 con-nected bus A1 num-ber	E	ABBIED600:2014

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BusA2NoSrc13	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB13 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc13	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB13 connected bus B1 number	E	ABBIED600:2014
BusB2NoSrc13	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB13 connected bus B2 number	E	ABBIED600:2014
BusA1NoSrc14	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB14 connected bus A1 number	E	ABBIED600:2014
BusA2NoSrc14	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB14 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc14	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source	E	ABBIED600:2014

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		CB14 connected bus B1 number		
BusB2NoSrc14	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB14 connected bus B2 number	E	ABBIED600:2014
BusA1NoSrc15	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB15 connected bus A1 number	E	ABBIED600:2014
BusA2NoSrc15	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB15 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc15	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB15 connected bus B1 number	E	ABBIED600:2014
BusB2NoSrc15	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB15	E	ABBIED600:2014

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		con-nected bus B2 num-ber		
BusA1NoSrc16	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB16 con-nected bus A1 num-ber	E	ABBIED600:2014
BusA2NoSrc16	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB16 con-nected bus A2 num-ber	E	ABBIED600:2014
BusB1NoSrc16	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB16 con-nected bus B1 num-ber	E	ABBIED600:2014
BusB2NoSrc16	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB16 con-nected bus B2 num-ber	E	ABBIED600:2014
BusA1NoSrc17	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB17 con-nected	E	ABBIED600:2014

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		bus A1 number		
BusA2NoSrc17	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB17 connected bus A2 number	E	ABBIED600:2014
BusB1NoSrc17	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB17 connected bus B1 number	E	ABBIED600:2014
BusB2NoSrc17	ABBIED600_Rev1_ENG_SG_BusList_e	Non-source CB17 connected bus B2 number	E	ABBIED600:2014
VTrfNoSrc1	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Voltage transformer connection type for non-source CB1	E	ABBIED600:2014
VTrfNoSrc2	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Voltage transformer	E	ABBIED600:2014

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		con-nec-tion type for non-source CB2		
VTrfNoSrc3	ABBIED600_Rev2_ENG_SG_VT Polarity_e	Vol-tage trans-former con-nec-tion type for non-source CB3	E	ABBIED600:2014
VTrfNoSrc4	ABBIED600_Rev2_ENG_SG_VT Polarity_e	Vol-tage trans-former con-nec-tion type for non-source CB4	E	ABBIED600:2014
VTrfNoSrc5	ABBIED600_Rev2_ENG_SG_VT Polarity_e	Vol-tage trans-former con-nec-tion type for non-source CB5	E	ABBIED600:2014
VTrfNoSrc6	ABBIED600_Rev2_ENG_SG_VT Polarity_e	Vol-tage trans-former	E	ABBIED600:2014

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		con-nec-tion type for non-source CB6		
VTrfNoSrc7	ABBIED600_Rev2_ENG_SG_VT Polarity_e	Vol-tage trans-former con-nec-tion type for non-source CB7	E	ABBIED600:2014
VTrfNoSrc8	ABBIED600_Rev2_ENG_SG_VT Polarity_e	Vol-tage trans-former con-nec-tion type for non-source CB8	E	ABBIED600:2014
VTrfNoSrc9	ABBIED600_Rev2_ENG_SG_VT Polarity_e	Vol-tage trans-former con-nec-tion type for non-source CB9	E	ABBIED600:2014
VTrfNoSrc10	ABBIED600_Rev2_ENG_SG_VT Polarity_e	Vol-tage trans-former	E	ABBIED600:2014

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		con-nec-tion type for non-source CB10		
VTrfNoSrc11	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Vol-tage trans-former con-nec-tion type for non-source CB11	E	ABBIED600:2014
VTrfNoSrc12	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Vol-tage trans-former con-nec-tion type for non-source CB12	E	ABBIED600:2014
VTrfNoSrc13	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Vol-tage trans-former con-nec-tion type for non-source CB13	E	ABBIED600:2014
VTrfNoSrc14	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Vol-tage trans-former	E	ABBIED600:2014

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		con-nec-tion type for non-source CB14		
VTrfNoSrc15	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Vol-tage trans-former con-nec-tion type for non-source CB15	E	ABBIED600:2014
VTrfNoSrc16	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Vol-tage trans-former con-nec-tion type for non-source CB16	E	ABBIED600:2014
VTrfNoSrc17	ABBIED600_Rev2_ENG_SG_VTPolarity_e	Vol-tage trans-former con-nec-tion type for non-source CB17	E	ABBIED600:2014
PrtStSrc1	ABBIED600_Rev1_SPS_simple_e	Sourc e 1	E	ABBIED600:2014

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		participation status		
PrtStSrc2	ABBIED600_Rev1_SPS_simple_e	Source 2 participation status	E	ABBIED600:2014
PrtStSrc3	ABBIED600_Rev1_SPS_simple_e	Source 3 participation status	E	ABBIED600:2014
PrtStSrc4	ABBIED600_Rev1_SPS_simple_e	Source 4 participation status	E	ABBIED600:2014
PrtStSrc5	ABBIED600_Rev1_SPS_simple_e	Source 5 participation status	E	ABBIED600:2014
PrtStSrc6	ABBIED600_Rev1_SPS_simple_e	Source 6 participation status	E	ABBIED600:2014
PrtStSrc7	ABBIED600_Rev1_SPS_simple_e	Source 7 participation status	E	ABBIED600:2014
PrtStSrc8	ABBIED600_Rev1_SPS_simple_e	Source 8 participation status	E	ABBIED600:2014

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TunSrc	ABBIED600_Rev4_ENC_SourceList_e	Source selection for fine matching	E	ABBIED600:2014,status-only,direct-with-normal-security
ASCCBNum1	ABBIED600_Rev5_ENG_SP_CBList_e	ASC host circuit breaker number 1	E	ABBIED600:2014
ASCCBNum2	ABBIED600_Rev5_ENG_SP_CBList_e	ASC host circuit breaker number 2	E	ABBIED600:2014
ASCCBNum3	ABBIED600_Rev5_ENG_SP_CBList_e	ASC host circuit breaker number 3	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub3_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
PMSAvl	ABBIED600_Rev1_ENG_SP_PmsPrsnt_e	Centralized power management system present	E	ABBIED600:2014
AllwIsoc	ABBIED600_Rev2_SPG_SP_e	Allow isochronous	E	ABBIED600:2014

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		sources in matching		
DblBus	ABBIED600_Rev2_SPG_SP_e	Double busbar present	E	ABBIED600:2014

5.2.409 LN: ASGCSYN1 Name: CSYN (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Cmd	ABBIED600_Rev1_SPS_simple	Breaker closing command		
Rel	ABBIED600_Rev1_SPS_simple	Breaker closing command released		
RV	ABBIED600_Rev1_SPS_simple	Raise voltage		
LV	ABBIED600_Rev1_SPS_simple	Lower voltage		
RHz	ABBIED600_Rev1_SPS_simple	Raise frequency (increase speed)		
LHz	ABBIED600_Rev1_SPS_simple	Lower frequency (lower speed)		
VInd	ABBIED600_Rev1_SPS_simple	Voltage difference indicator		

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AngInd	ABBIED600_Rev1_SPS_simple	Angle difference indicator		
HzInd	ABBIED600_Rev1_SPS_simple	Frequency difference indicator		
DifVClc	ABBIED600_Rev7_MV_simple_i	Calculated difference in voltage (amplitude value)		
DifHzClc	ABBIED600_Rev7_MV_simple_i	Calculated difference in frequency		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Calculated difference of phase angle		
V1Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus voltage (amplitude value)		
V2Clc	ABBIED600_Rev7_MV_simple_i	Calculated generator voltage (amplitude value)		
Hz1Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus voltage frequency		
Hz2Clc	ABBIED600_Rev7_MV_simple_i	Calculated generator voltage frequency		
AccClc	ABBIED600_Rev7_MV_simple_i	Acceleration		
SynPrg	ABBIED600_Rev3_SPC_control	Start and stop synchronising progress		status-only,direct-with-normal-security
OpModSyn	ABBIED600_Rev6_ENC_SynchOperationModeKind_Sub1	Operating mode selection		status-only,direct-with-normal-security

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DlTmms	ABBIED600_Rev2_ING_SP	Supervision time for paralleling (delay time)		
MltCmd	ABBIED600_Rev1_SPG_SG	Multiple command generation		
DifVNg	ABBIED600_Rev8_ASG_SG_i	Difference voltage (amplitude value) negative		
DifVPs	ABBIED600_Rev8_ASG_SG_i	Difference voltage (amplitude value) positive		
DifHzNg	ABBIED600_Rev8_ASG_SG_i	Difference frequency negative		
DifHzPs	ABBIED600_Rev8_ASG_SG_i	Difference frequency positive		
DifAngNg	ABBIED600_Rev8_ASG_SG_i	Difference phase angle negative		
DifAngPs	ABBIED600_Rev8_ASG_SG_i	Difference phase angle positive		
MinVSyn	ABBIED600_Rev8_ASG_SP_i	Minimum voltage for live synchronisation		
MaxVSyn	ABBIED600_Rev8_ASG_SP_i	Maximum voltage for live synchronisation		
LivDeaMod	ABBIED600_Rev5_ENG_SG_LivDeaMod_Sub2	Live dead mode		
DeaBusVal	ABBIED600_Rev8_ASG_SP_i	Dead bus value		
LivBusVal	ABBIED600_Rev8_ASG_SP_i	Live bus value		

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VChr	ABBIED600_Rev8_ASG_SG_i	Voltage adjustment characteristic		
VIntvTmms	ABBIED600_Rev2_ING_SP	Voltage adjustment pulse interval		
MinVTmms	ABBIED600_Rev2_ING_SP	Minimum voltage adjustment pulse time		
HzChr	ABBIED600_Rev8_ASG_SG_i	Frequency adjustment characteristic		
HzIntvTmms	ABBIED600_Rev2_ING_SP	Frequency adjustment pulse interval		
MinHzTmms	ABBIED600_Rev2_ING_SP	Minimum frequency adjustment pulse time		
TotTmms	ABBIED600_Rev2_ING_SP	Total time of synchronising process		
CBTmms	ABBIED600_Rev2_ING_SG_e	Closing time of breaker	E	IEC 61850-7-4:2007
CBSel	ABBIED600_Rev1_SPS_simple_e	CB selected for synchronization	E	ABBIED600:2014
CmdFail	ABBIED600_Rev1_SPS_simple_e	Breaker closing command failed	E	ABBIED600:2014
ClsRqFail	ABBIED600_Rev1_SPS_simple_e	Closing request failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_simple_e	External closing request	E	ABBIED600:2014

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Byp	ABBIED600_Rev1_SPS_simple_e	Request to bypass synchro-nism check and voltage check	E	ABBIED600:2014
LBDGInd	ABBIED600_Rev1_SPS_simple_e	Live bus, dead gene-rator	E	ABBIED600:2014
LBL-GInd	ABBIED600_Rev1_SPS_simple_e	Live bus, live genera-tor	E	ABBIED600:2014
DBLGInd	ABBIED600_Rev1_SPS_simple_e	Dead bus, live genera-tor	E	ABBIED600:2014
DBDGInd	ABBIED600_Rev1_SPS_simple_e	Dead bus, dead gene-rator	E	ABBIED600:2014
SynCh-kMod	ABBIED600_Rev4_ENG_SP_OpModSC_Sub2_e	Synch-rocheck mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energiza-tion state of bus and ge-nerator	E	ABBIED600:2014
PhSht	ABBIED600_Rev8_ASG_SG_i_e	Correction of phase angle shift	E	ABBIED600:2014
EnTmms	ABBIED600_Rev2_ING_SP_e	Energizing time	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AdjPrg	ABBIED600_Rev1_SPS_simple_e	Voltage and frequency matching in progress	E	ABBIED600:2014
VHzAdjOk	ABBIED600_Rev1_SPS_simple_e	Voltage and frequency matching OK	E	ABBIED600:2014
GovDrpChg	ABBIED600_Rev1_SPS_simple_e	Governor mode	E	ABBIED600:2014

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		change to droop		
AV-RDrp-Chg	ABBIED600_Rev1_SPS_simple_e	AVR mode change to droop	E	ABBIED600:2014
GovModSt	ABBIED600_Rev2_ENS_GOVMod_e	Governor working mode	E	ABBIED600:2014
AV-RModSt	ABBIED600_Rev2_ENS_AVRMod_e	AVR working mode	E	ABBIED600:2014
GovModChg	ABBIED600_Rev2_ENS_GOVMod_e	Governor mode change request to PMS	E	ABBIED600:2014
AV-RMod-Chg	ABBIED600_Rev2_ENS_AVRMod_e	AVR mode change request to PMS	E	ABBIED600:2014
PMSAvl	ABBIED600_Rev1_ENG_SP_PmsPrsnt_e	Centralized power management system present	E	ABBIED600:2014
Crs-DifHzNg	ABBIED600_Rev8_ASG_SG_i_e	Coarse difference frequency negative	E	ABBIED600:2014
Crs-DifHzPs	ABBIED600_Rev8_ASG_SG_i_e	Coarse difference frequency positive	E	ABBIED600:2014
Crs-DifVPs	ABBIED600_Rev8_ASG_SG_i_e	Coarse difference voltage (amplitude value) positive	E	ABBIED600:2014
Crs-DifVNg	ABBIED600_Rev8_ASG_SG_i_e	Coarse difference voltage (amplitude value) negative	E	ABBIED600:2014

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OpMod-VAdj	ABBIED600_Rev2_ENG_SP_VoltFreqMatchMode_e	Voltage matcher operation mode	E	ABBIED600:2014
OpMod-HzAdj	ABBIED600_Rev2_ENG_SP_VoltFreqMatchMode_e	Frequency matcher operation mode	E	ABBIED600:2014
ManCB Rel	ABBIED600_Rev3_SPC_control_e	Release for CB close command in manual mode	E	ABBIED600:2014,status-only,direct-with-normal-security
RHzCmd	ABBIED600_Rev3_SPC_control_e	Frequency raise command	E	ABBIED600:2014,status-only,direct-with-normal-security
LHzCmd	ABBIED600_Rev3_SPC_control_e	Frequency lower command	E	ABBIED600:2014,status-only,direct-with-normal-security
RVCmd	ABBIED600_Rev3_SPC_control_e	Voltage raise command	E	ABBIED600:2014,status-only,direct-with-normal-security
LVCmd	ABBIED600_Rev3_SPC_control_e	Voltage lower command	E	ABBIED600:2014,status-only,direct-with-normal-security
GovMod	ABBIED600_Rev3_ENC_GOVModeENC_Sub1_e	Governor mode change	E	ABBIED600:2014,status-only,direct-with-normal-security
AV-RMod	ABBIED600_Rev3_ENC_AVRModeENC_e	AVR mode change	E	ABBIED600:2014,status-only,direct-with-normal-security
VHzTun	ABBIED600_Rev2_ENC_VHzTuneENC_e	Tuning voltage and frequency matching rate	E	ABBIED600:2014,status-only,direct-with-normal-security
VChgRte	ABBIED600_Rev7_MV_simple_i_e	Voltage rate of change	E	ABBIED600:2014

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HzChgRte	ABBIED600_Rev7_MV_simple_i_e	Frequency rate of change	E	ABBIED600:2014
Ex-ChkOk	ABBIED600_Rev1_SPS_simple_e	External permissive check for CB close	E	ABBIED600:2014
CBTest	ABBIED600_Rev1_SPS_simple_e	Circuit breaker is in test mode	E	ABBIED600:2014
Cmd-BlkSt	ABBIED600_Rev1_ENS_CBCloseBlock_e	Breaker closing command blocked status	E	ABBIED600:2014
SynDir	ABBIED600_Rev1_ENG_SG_SynDir_e	Synchro-nization di-rection	E	ABBIED600:2014
VOfs	ABBIED600_Rev8_ASG_SG_i_e	Voltage Offset	E	ABBIED600:2014
HzOfs	ABBIED600_Rev8_ASG_SG_i_e	Frequency Offset	E	ABBIED600:2014
SynChkSt	ABBIED600_Rev1_ENS_OpModSC_e	Synchro check Sta-tus	E	ABBIED600:2014
Dea-ModSt	ABBIED600_Rev1_ENS_LivDeaMod_e	LIVEDEAD_STS	E	ABBIED600:2014
SynCh-kCtl	ABBIED600_Rev2_ENC_OpModSCENC_Sub2_e	Synchro check mode cont-rol	E	ABBIED600:2014,status-only,direct-with-normal-security
Liv-DeaCtl	ABBIED600_Rev3_ENC_LivDeaModkind_Sub2_e	Live dead mode cont-rol	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.410 LN: ASGGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		

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NtwAdjPrg	ABBIED600_Rev1_SPS_simple_e	Network breaker voltage and frequency match in progress	E	ABBIED600:2014
NtwVHzAdj	ABBIED600_Rev1_SPS_simple_e	Network breaker voltage and frequency match OK	E	ABBIED600:2014
GnASCDat	ABBIED600_Rev1_INS_e	Coded integer output data	E	ABBIED600:2014
DifVNtw	ABBIED600_Rev7_MV_simple_i_e	Voltage difference of network breaker	E	ABBIED600:2014
DifHzNtw	ABBIED600_Rev7_MV_simple_i_e	Frequency difference of network breaker	E	ABBIED600:2014

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5.2.411 LN: ASNSCSYN1 Name: CSYN (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Cmd	ABBIED600_Rev1_SPS_simple	Breaker closing command		
Rel	ABBIED600_Rev1_SPS_simple	Breaker closing command released		
VInd	ABBIED600_Rev1_SPS_simple	Voltage difference indicator		
AngInd	ABBIED600_Rev1_SPS_simple	Angle difference indicator		

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HzInd	ABBIED600_Rev1_SPS_simple	Frequency difference indicator		
DifVClc	ABBIED600_Rev7_MV_simple_i	Calculated difference in voltage (amplitude value)		
DifHzClc	ABBIED600_Rev7_MV_simple_i	Calculated difference in frequency		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Calculated difference of phase angle		
V1Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus A voltage (amplitude value)		

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V2Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus B voltage (amplitude value)		
Hz1Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus A voltage frequency		
Hz2Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus B voltage frequency		
AccClc	ABBIED600_Rev7_MV_simple_i	Acceleration		
SynPrg	ABBIED600_Rev3_SPC_control	Start and stop synchronising progress		status-only,direct-with-normal-security
OpModSyn	ABBIED600_Rev6_ENC_SynchOperationModeKind_Sub1	Operating mode selection		status-only,direct-with-normal-security
DlTmms	ABBIED600_Rev2_ING_SP	Supervision		

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		time for paral-leling (de-lay time)		
MltCmd	ABBIED600_Rev1_SPG_SG	Mul-tiple com-mand gene-ration		
DifVPs	ABBIED600_Rev8_ASG_SG_i	Dif-fe-rence vol-tage (amp-litude va-lue) posi-tive		
DifHzPs	ABBIED600_Rev8_ASG_SG_i	Dif-fe-rence fre-quenc y po-sitive		
DifAngPs	ABBIED600_Rev8_ASG_SG_i	Dif-fe-rence phase angle posi-tive		
MaxVSyn	ABBIED600_Rev8_ASG_SP_i	Ma-xi-mum vol-tage for live synch		

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		roni-sation		
LivDea-Mod	ABBIED600_Rev5_ENG_SG_LivDeaMo d	Live dead mode		
DeaBus Val	ABBIED600_Rev8_ASG_SP_i	Dead bus value		
LivBus-Val	ABBIED600_Rev8_ASG_SP_i	Live bus value		
TotTm ms	ABBIED600_Rev2_ING_SP	Total time of synch roni-sing pro-cess		
CBTm ms	ABBIED600_Rev2_ING_SP_1_e	Clo-sing time of brea-ker	E	IEC 61850-7-4:2007
CBSel	ABBIED600_Rev1_SPS_simple_e	CB selec-ted for synch ro-niza-tion	E	ABBIED600:2014
CmdFai l	ABBIED600_Rev1_SPS_simple_e	Brea-ker clo-sing com-mand failed	E	ABBIED600:2014
Cls-RqFail	ABBIED600_Rev1_SPS_simple_e	Clo-sing re-quest failed	E	ABBIED600:2014

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ClsRq	ABBIED600_Rev1_SPS_simple_e	External closing request	E	ABBIED600:2014
Byp	ABBIED600_Rev1_SPS_simple_e	Request to bypass synchronism check and voltage check	E	ABBIED600:2014
LADBInd	ABBIED600_Rev1_SPS_simple_e	Live bus A, dead bus B	E	ABBIED600:2014
LALBInd	ABBIED600_Rev1_SPS_simple_e	Live bus A, live bus B	E	ABBIED600:2014
DALBInd	ABBIED600_Rev1_SPS_simple_e	Dead bus A, live bus B	E	ABBIED600:2014
DADBInd	ABBIED600_Rev1_SPS_simple_e	Dead bus A, dead bus B	E	ABBIED600:2014
SynChkMod	ABBIED600_Rev4_ENG_SP_OpModSC_e	Synchroheck mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of	E	ABBIED600:2014

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		bus A and bus B		
PhSht	ABBIED600_Rev8_ASG_SP_i_e	Correction of phase angle shift	E	ABBIED600:2014
EnTmms	ABBIED600_Rev2_ING_SP_e	Energizing time	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub5_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AdjPrg	ABBIED600_Rev1_SPS_simple_e	Voltage and frequency matching in progress	E	ABBIED600:2014
VHzAdjOk	ABBIED600_Rev1_SPS_simple_e	Voltage and frequency matching OK	E	ABBIED600:2014
ManCBRel	ABBIED600_Rev3_SPC_control_e	Release for CB close command	E	ABBIED600:2014,status-only,direct-with-normal-security

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		in manual mode		
ExChkOk	ABBIED600_Rev1_SPS_simple_e	External permissive check for CB close	E	ABBIED600:2014
CBTest	ABBIED600_Rev1_SPS_simple_e	Circuit breaker is in test mode	E	ABBIED600:2014
CmdBlkSt	ABBIED600_Rev1_ENS_CBCloseBlock_e	Breaker closing command blocked status	E	ABBIED600:2014
SynIniFail	ABBIED600_Rev1_SPS_simple_e	Synchronization not initiated	E	ABBIED600:2014
VOfs	ABBIED600_Rev8_ASG_SG_i_e	Voltage offset	E	ABBIED600:2014
HzOfs	ABBIED600_Rev8_ASG_SG_i_e	Frequency offset	E	ABBIED600:2014
SynChkSt	ABBIED600_Rev1_ENS_OpModSC_e	Synchro check	E	ABBIED600:2014

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		mode status		
Dea-ModSt	ABBIED600_Rev1_ENS_LivDeaMod_e	Live dead mode status	E	ABBIED600:2014
SynCh-kCtl	ABBIED600_Rev2_ENC_OpModSCENC_Sub1_e	Synchro check mode cont-rol	E	ABBIED600:2014,status-only,di-rect-with-normal-security
Liv-DeaCtl	ABBIED600_Rev2_ENC_LivDeaModkind_Sub1_e	Live dead mode cont-rol	E	ABBIED600:2014,status-only,di-rect-with-normal-security

5.2.412 LN: ASNSGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ActCBNum	ABBIED600_Rev1_INS_e	Active ASC host circuit breaker number	E	ABBIED600:2014
NoSrcDat	ABBIED600_Rev1_INS_e	Code in-teger data to ASCGAPC	E	ABBIED600:2014
DifVSyn	ABBIED600_Rev7_MV_simple_i_e	Line vol-tage diffe-rence acc-ross synchroni-zing CB	E	ABBIED600:2014

5.2.413 LN: ASNSCSYN2 Name: CSYN (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Cmd	ABBIED600_Rev1_SPS_simple	Breaker closing command		
Rel	ABBIED600_Rev1_SPS_simple	Breaker closing command released		
VInd	ABBIED600_Rev1_SPS_simple	Voltage difference indicator		
AngInd	ABBIED600_Rev1_SPS_simple	Angle difference indicator		
HzInd	ABBIED600_Rev1_SPS_simple	Frequency		

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		difference indicator		
DifVClc	ABBIED600_Rev7_MV_simple_i	Calculated difference in voltage (amplitude value)		
DifHzClc	ABBIED600_Rev7_MV_simple_i	Calculated difference in frequency		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Calculated difference of phase angle		
V1Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus A voltage (amplitude value)		
V2Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus B		

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		voltage (amplitude value)		
Hz1Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus A voltage frequency		
Hz2Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus A voltage frequency		
AccClc	ABBIED600_Rev7_MV_simple_i	Acceleration		
SynPrg	ABBIED600_Rev3_SPC_control	Start and stop synchronising progress		status-only,direct-with-normal-security
OpModSyn	ABBIED600_Rev6_ENC_SynchOperationModeKind_Sub1	Operating mode selection		status-only,direct-with-normal-security
DlTmms	ABBIED600_Rev2_ING_SP	Supervision time for paralleling		

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		(delay time)		
MltCmd	ABBIED600_Rev1_SPG_SG	Multiple command generation		
DifVPs	ABBIED600_Rev8_ASG_SG_i	Difference voltage (amplitude value) positive		
DifHzPs	ABBIED600_Rev8_ASG_SG_i	Difference frequency positive		
DifAngPs	ABBIED600_Rev8_ASG_SG_i	Difference phase angle positive		
MaxVSyn	ABBIED600_Rev8_ASG_SP_i	Maximum voltage for live synchronisation		
LivDeaMod	ABBIED600_Rev5_ENG_SG_LivDeaMod	Live dead mode		

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DeaBus Val	ABBIED600_Rev8_ASG_SP_i	Dead bus value		
LivBus-Val	ABBIED600_Rev8_ASG_SP_i	Live bus value		
TotTm ms	ABBIED600_Rev2_ING_SP	Total time of synch roni-sing pro-cess		
CBTm ms	ABBIED600_Rev2_ING_SP_1_e	Clo-sing time of brea-ker	E	IEC 61850-7-4:2007
CBSel	ABBIED600_Rev1_SPS_simple_e	CB selec-ted for synch ro-niza-tion	E	ABBIED600:2014
CmdFai l	ABBIED600_Rev1_SPS_simple_e	Brea-ker clo-sing com-mand failed	E	ABBIED600:2014
Cls-RqFail	ABBIED600_Rev1_SPS_simple_e	Clo-sing re-quest failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_simple_e	Ex-ternal clo-sing re-quest	E	ABBIED600:2014

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Byp	ABBIED600_Rev1_SPS_simple_e	Request to bypass synchronism check and voltage check	E	ABBIED600:2014
LADBInd	ABBIED600_Rev1_SPS_simple_e	Live bus A, dead bus B	E	ABBIED600:2014
LALBInd	ABBIED600_Rev1_SPS_simple_e	Live bus A, live bus B	E	ABBIED600:2014
DALBInd	ABBIED600_Rev1_SPS_simple_e	Dead bus A, live bus B	E	ABBIED600:2014
DADBInd	ABBIED600_Rev1_SPS_simple_e	Dead bus A, dead bus B	E	ABBIED600:2014
SynChkMod	ABBIED600_Rev4_ENG_SP_OpModSC_e	Synchroheck mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of bus A and bus B	E	ABBIED600:2014
PhSht	ABBIED600_Rev8_ASG_SP_i_e	Correction	E	ABBIED600:2014

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		of phase angle shift		
EnTmms	ABBIED600_Rev2_ING_SP_e	Energizing time	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub5_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AdjPrg	ABBIED600_Rev1_SPS_simple_e	Voltage and frequency matching in progress	E	ABBIED600:2014
VHzAdjOk	ABBIED600_Rev1_SPS_simple_e	Voltage and frequency matching OK	E	ABBIED600:2014
ManCBRel	ABBIED600_Rev3_SPC_control_e	Release for CB close command in manual mode	E	ABBIED600:2014,status-only,direct-with-normal-security
ExChkOk	ABBIED600_Rev1_SPS_simple_e	External	E	ABBIED600:2014

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		permissive check for CB close		
CBTest	ABBIED600_Rev1_SPS_simple_e	Circuit breaker is in test mode	E	ABBIED600:2014
CmdBlkSt	ABBIED600_Rev1_ENS_CBCloseBlock_e	Breaker closing command blocked status	E	ABBIED600:2014
SynIniFail	ABBIED600_Rev1_SPS_simple_e	Synchronization not initiated	E	ABBIED600:2014
VOfs	ABBIED600_Rev8_ASG_SG_i_e	Voltage offset	E	ABBIED600:2014
HzOfs	ABBIED600_Rev8_ASG_SG_i_e	Frequency offset	E	ABBIED600:2014
SynChkSt	ABBIED600_Rev1_ENS_OpModSC_e	Synchroheck mode status	E	ABBIED600:2014
DeaModSt	ABBIED600_Rev1_ENS_LivDeaMod_e	Live dead mode status	E	ABBIED600:2014

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SynCh-kCtl	ABBIED600_Rev2_ENC_OpModSCENC_Sub1_e	Synchro check mode cont-rol	E	ABBIED600:2014,status-only,di-rect-with-normal-security
Liv-DeaCtl	ABBIED600_Rev2_ENC_LivDeaModkind_Sub1_e	Live dead mode cont-rol	E	ABBIED600:2014,status-only,di-rect-with-normal-security

5.2.414 LN: ASNSGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ActCBNum	ABBIED600_Rev1_INS_e	Active ASC host circuit breaker number	E	ABBIED600:2014
NoSrcDat	ABBIED600_Rev1_INS_e	Code in-teger data to ASCGAPC	E	ABBIED600:2014
DifVSyn	ABBIED600_Rev7_MV_simple_i_e	Line vol-tage diffe-rence acc-ross synchroni-zing CB	E	ABBIED600:2014

5.2.415 LN: ASNSCSYN3 Name: CSYN (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O /E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Cmd	ABBIED600_Rev1_SPS_simple	Breaker closing command		
Rel	ABBIED600_Rev1_SPS_simple	Breaker closing command released		
VInd	ABBIED600_Rev1_SPS_simple	Voltage difference indicator		
AngInd	ABBIED600_Rev1_SPS_simple	Angle difference indicator		
HzInd	ABBIED600_Rev1_SPS_simple	Frequency difference indicator		
DifVClc	ABBIED600_Rev7_MV_simple_i	Calculated		

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		difference in voltage (amplitude value)		
DifHzClc	ABBIED600_Rev7_MV_simple_i	Calculated difference in frequency		
DifAngClc	ABBIED600_Rev7_MV_simple_i	Calculated difference of phase angle		
V1Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus A voltage (amplitude value)		
V2Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus B voltage (amplitude value)		

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Hz1Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus A voltage frequency		
Hz2Clc	ABBIED600_Rev7_MV_simple_i	Calculated bus B voltage frequency		
AccClc	ABBIED600_Rev7_MV_simple_i	Acceleration		
SynPrg	ABBIED600_Rev3_SPC_control	Start and stop synchronising progress		status-only,direct-with-normal-security
OpModSyn	ABBIED600_Rev6_ENC_SynchOperationModeKind_Sub1	Operating mode selection		status-only,direct-with-normal-security
DlTmms	ABBIED600_Rev2_ING_SP	Supervision time for paralleling (delay time)		
MltCmd	ABBIED600_Rev1_SPG_SG	Multiple		

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		com-mand gene-ration		
DifVPs	ABBIED600_Rev8_ASG_SG_i	Dif-fe-rence vol-tage (amp-litude va-lue) posi-tive		
DifHzPs	ABBIED600_Rev8_ASG_SG_i	Dif-fe-rence fre-quenc y po-sitive		
DifAngPs	ABBIED600_Rev8_ASG_SG_i	Dif-fe-rence phase angle posi-tive		
MaxVSyn	ABBIED600_Rev8_ASG_SP_i	Ma-xi-mum vol-tage for live synch roni-sation		
LivDea-Mod	ABBIED600_Rev5_ENG_SG_LivDeaMod	Live dead mode		
DeaBusVal	ABBIED600_Rev8_ASG_SP_i	Dead bus value		

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LivBus-Val	ABBIED600_Rev8_ASG_SP_i	Live bus value		
TotTm ms	ABBIED600_Rev2_ING_SP	Total time of synch roni-sing pro-cess		
CBTm ms	ABBIED600_Rev2_ING_SP_1_e	Clo-sing time of brea-ker	E	IEC 61850-7-4:2007
CBSel	ABBIED600_Rev1_SPS_simple_e	CB selec-ted for synch ro-niza-tion	E	ABBIED600:2014
CmdFail	ABBIED600_Rev1_SPS_simple_e	Brea-ker clo-sing com-mand failed	E	ABBIED600:2014
Cls-RqFail	ABBIED600_Rev1_SPS_simple_e	Clo-sing re-quest failed	E	ABBIED600:2014
ClsRq	ABBIED600_Rev1_SPS_simple_e	Ex-ternal clo-sing re-quest	E	ABBIED600:2014
Byp	ABBIED600_Rev1_SPS_simple_e	Re-quest to by-pass	E	ABBIED600:2014

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		synchronism check and voltage check		
LADBInd	ABBIED600_Rev1_SPS_simple_e	Live bus A, dead bus B	E	ABBIED600:2014
LALBInd	ABBIED600_Rev1_SPS_simple_e	Live bus A, live bus B	E	ABBIED600:2014
DALBInd	ABBIED600_Rev1_SPS_simple_e	Dead bus A, live bus B	E	ABBIED600:2014
DADBInd	ABBIED600_Rev1_SPS_simple_e	Dead bus A, dead bus B	E	ABBIED600:2014
SynChkMod	ABBIED600_Rev4_ENG_SP_OpModSC_e	Synchroneck mode	E	ABBIED600:2014
EnSt	ABBIED600_Rev2_ENS_EnergSt_e	Energization state of bus A and bus B	E	ABBIED600:2014
PhSht	ABBIED600_Rev8_ASG_SP_i_e	Correction of phase angle shift	E	ABBIED600:2014

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EnTmms	ABBIED600_Rev2_ING_SP_e	Energizing time	E	ABBIED600:2014
TestCtl	ABBIED600_Rev12_ENC_TestCtl_Sub5_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AdjPrg	ABBIED600_Rev1_SPS_simple_e	Voltage and frequency matching in progress	E	ABBIED600:2014
VHzAdjOk	ABBIED600_Rev1_SPS_simple_e	Voltage and frequency matching OK	E	ABBIED600:2014
ManCBRel	ABBIED600_Rev3_SPC_control_e	Release for CB close command in manual mode	E	ABBIED600:2014,status-only,direct-with-normal-security
ExChkOk	ABBIED600_Rev1_SPS_simple_e	External permissive check	E	ABBIED600:2014

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		for CB close		
CBTest	ABBIED600_Rev1_SPS_simple_e	Circuit breaker is in test mode	E	ABBIED600:2014
CmdBlkSt	ABBIED600_Rev1_ENS_CBCloseBlock_e	Breaker closing command blocked status	E	ABBIED600:2014
SynIniFail	ABBIED600_Rev1_SPS_simple_e	Synchronization not initiated	E	ABBIED600:2014
VOfs	ABBIED600_Rev8_ASG_SG_i_e	Voltage offset	E	ABBIED600:2014
HzOfs	ABBIED600_Rev8_ASG_SG_i_e	Frequency offset	E	ABBIED600:2014
SynChkSt	ABBIED600_Rev1_ENS_OpModSC_e	Synchro check mode status	E	ABBIED600:2014
DeaModSt	ABBIED600_Rev1_ENS_LivDeaMod_e	Live dead mode status	E	ABBIED600:2014
SynChkCtl	ABBIED600_Rev2_ENC_OpModSCENC_Sub1_e	Synchro check	E	ABBIED600:2014,status-only,direct-with-normal-security

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		control mode		
LivDeaCtl	ABBIED600_Rev2_ENC_LivDeaModkind_Sub1_e	Live dead mode control	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.416 LN: ASNSGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ActCBNum	ABBIED600_Rev1_INS_e	Active ASC host circuit breaker number	E	ABBIED600:2014
NoSrcDat	ABBIED600_Rev1_INS_e	Code integer data to ASCGAPC	E	ABBIED600:2014
DifVSyn	ABBIED600_Rev7_MV_simple_i_e	Line voltage difference across synchronizing CB	E	ABBIED600:2014

5.2.417 LN: DGMCGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

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Alm1	ABBIED600_Rev1_SPS	Generic single alarm		
OpDlTmms	ABBIED600_Rev2_ING_SG_time_e	Operate delay time [ms]	E	IEC 61850-7-4:2007
RsDlTmms	ABBIED600_Rev2_ING_SP_e	Reset operate delay time [ms]	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
HzNom	ABBIED600_Rev8_ASG_SG_i_e	Nominal Frequency	E	IEC 61850-7-4:2007
Rs	ABBIED600_Rev3_SPC_control_e	Reset the correlation and voting algorithms and timers	E	ABBIED600:2014,status-only,direct-with-normal-security
OpTieA	ABBIED600_Rev1_ACT_simple_e	Operate tie breaker A	E	ABBIED600:2014
OpTieB	ABBIED600_Rev1_ACT_simple_e	Operate tie breaker B	E	ABBIED600:2014
EngStop	ABBIED600_Rev1_SPS_simple_e	Stop fuel inflow to the engine	E	ABBIED600:2014
FltNtwGn1	ABBIED600_Rev1_SPS_simple_e	Fault in network generator 1	E	ABBIED600:2014
FltNtwGn2	ABBIED600_Rev1_SPS_simple_e	Fault in network generator 2	E	ABBIED600:2014
FltNtwGn3	ABBIED600_Rev1_SPS_simple_e	Fault in network generator 3	E	ABBIED600:2014
FltNtwGn4	ABBIED600_Rev1_SPS_simple_e	Fault in network generator 4	E	ABBIED600:2014
FltNtwGn5	ABBIED600_Rev1_SPS_simple_e	Fault in network generator 5	E	ABBIED600:2014

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FltNt-wGn6	ABBIED600_Rev1_SPS_simple_e	Fault in network generator 6	E	ABBIED600:2014
FltNt-wGn7	ABBIED600_Rev1_SPS_simple_e	Fault in network generator 7	E	ABBIED600:2014
FltNt-wGn8	ABBIED600_Rev1_SPS_simple_e	Fault in network generator 8	E	ABBIED600:2014
BlkIntnSt	ABBIED600_Rev1_ACT_simple_e	Internal block status	E	ABBIED600:2014
ExFlt	ABBIED600_Rev1_SPS_simple_e	Gen P/Q not controlled due to fault in external system	E	ABBIED600:2014
FuelRck-Flt	ABBIED600_Rev1_SPS_simple_e	Fault in fuel rack of the governor	E	ABBIED600:2014
StrOvFuel	ABBIED600_Rev1_SPS_simple_e	Over fueling fault detected	E	ABBIED600:2014
StrUnFuel	ABBIED600_Rev1_SPS_simple_e	Under fueling fault detected	E	ABBIED600:2014
GnCBFail	ABBIED600_Rev1_SPS_simple_e	Trip command to generator circuit breaker failed	E	ABBIED600:2014
TieCBFail	ABBIED600_Rev1_SPS_simple_e	Trip command to tie breaker failed	E	ABBIED600:2014
ExtFlt	ABBIED600_Rev1_SPS_simple_e	Fault in excitation system of the generator	E	ABBIED600:2014
Int-nBlkReas	ABBIED600_Rev2_ENS_IntFltCaus_e	Internal block cause	E	ABBIED600:2014
Dsa-FuelCrl	ABBIED600_Rev1_SPG_SG_e	Disable correlation algorithm for	E	ABBIED600:2014

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		fueling faults		
DsaFuel-Vot	ABBIED600_Rev1_SPG_SG_e	Disable voting algorithm for fueling faults	E	ABBIED600:2014
DsaExtCrl	ABBIED600_Rev1_SPG_SG_e	Disable correlation algorithm for excitation faults	E	ABBIED600:2014
DsaExtVot	ABBIED600_Rev1_SPG_SG_e	Disable voting algorithm for excitation faults	E	ABBIED600:2014
DsaRck-Mon	ABBIED600_Rev1_SPG_SG_e	Disable fuel rack position monitoring	E	ABBIED600:2014
DsaExtA-Mon	ABBIED600_Rev1_SPG_SG_e	Disable excitation current monitoring	E	ABBIED600:2014
Min-LimHz	ABBIED600_Rev8_ASG_SG_i_e	Minimum Freq limit below which STOP_ENGINE is activated	E	ABBIED600:2014
MaxLimHz	ABBIED600_Rev8_ASG_SG_i_e	Maximum Freq limit above which STOP_ENGINE is activated	E	ABBIED600:2014
MinLimV	ABBIED600_Rev8_ASG_SG_i_e	Minimum voltage limit below which DE_EXCITE is activated	E	ABBIED600:2014

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MaxLimV	ABBIED600_Rev8_ASG_SG_i_e	Maximum voltage limit above which DE_EXCITE is activated	E	ABBIED600:2014
MaxCBOpTmms	ABBIED600_Rev2_ING_SG_e	Maximum time delay for detection of CB status	E	ABBIED600:2014
DsaTmms	ABBIED600_Rev2_ING_SG_e	Function disable time during engine loading/unloading	E	ABBIED600:2014
BckDlTmms	ABBIED600_Rev2_ING_SG_time_e	Operate delay time for backup protection	E	ABBIED600:2014
MinWLim	ABBIED600_Rev8_ASG_SG_i_e	Active power limit below which STOP_ENGINE is activated	E	ABBIED600:2014
MaxWLim	ABBIED600_Rev8_ASG_SG_i_e	Active power limit above which STOP_ENGINE is activated	E	ABBIED600:2014
MinVArLim	ABBIED600_Rev8_ASG_SG_i_e	Reactive power limit below which DE_EXCITE is activated	E	ABBIED600:2014
MaxVArLim	ABBIED600_Rev8_ASG_SG_i_e	Reactive power limit above which	E	ABBIED600:2014

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		DE_EXCITE is activated		
NoLodDrpHz	ABBIED600_Rev8_ASG_SG_i_e	No load frequency of the generator for droop characteristics	E	ABBIED600:2014
PctDrpHz	ABBIED600_Rev8_ASG_SG_i_e	Percentage frequency droop from no load to full load	E	ABBIED600:2014
NoLodV	ABBIED600_Rev8_ASG_SG_i_e	No load voltage of the generator	E	ABBIED600:2014
PctDrpV	ABBIED600_Rev8_ASG_SG_i_e	Percentage voltage droop from no load to full load	E	ABBIED600:2014
PctRckNoLod	ABBIED600_Rev8_ASG_SG_i_e	Fuel rack position on no load	E	ABBIED600:2014
RckGain	ABBIED600_Rev8_ASG_SG_i_e	Rate change of rack position from no load to full load	E	ABBIED600:2014
NoLodExtA	ABBIED600_Rev8_ASG_SG_i_e	Excitation current when generator is on no load	E	ABBIED600:2014
ExtARte	ABBIED600_Rev8_ASG_SG_i_e	Rate of change of excitation Curr from no load to full load	E	ABBIED600:2014
WtTmms1	ABBIED600_Rev2_ING_SP_1_e	Wait time for	E	ABBIED600:2014

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		Load/Un-load signal and GCB Sts		
WtTmms2	ABBIED600_Rev2_ING_SP_1_e	Wait time for GCB Sts and Load/Un-load signal	E	ABBIED600:2014
MaxDvHz	ABBIED600_Rev8_ASG_SP_i_e	Maximum allowed deviation in frequency	E	ABBIED600:2014
MaxDvHz Isoc	ABBIED600_Rev8_ASG_SP_i_e	Maximum allowed deviation in frequency for isochronous mode	E	ABBIED600:2014
MaxDvV	ABBIED600_Rev8_ASG_SP_i_e	Maximum allowed deviation in votlage	E	ABBIED600:2014
MaxDvW Crl	ABBIED600_Rev8_ASG_SP_i_e	Maximum allowed deviation in active power for correlation	E	ABBIED600:2014
MaxDvW Vot	ABBIED600_Rev8_ASG_SP_i_e	Maximum allowed deviation in active power for voting	E	ABBIED600:2014
MaxDvV ArVot	ABBIED600_Rev8_ASG_SP_i_e	Maximum allowed deviation in reactive power for voting	E	ABBIED600:2014
LocGnNum	ABBIED600_Rev2_ING_SP_1_e	Local generator number	E	ABBIED600:2014
ClcLim-HzDrp	ABBIED600_Rev7_MV_2_e	Calculated Freq Lim in	E	ABBIED600:2014

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		governor compen-sated droop mode		
FuelRck-Pos	ABBIED600_Rev7_MV_2_e	Fuel rack position of the gover-nor	E	ABBIED600:2014
BaseW	ABBIED600_Rev7_MV_2_e	Set active power limit in generator base load mode	E	ABBIED600:2014
CompDr-pIniHz	ABBIED600_Rev7_MV_2_e	Compen-sated droop no load set point fre-quency from PMS	E	ABBIED600:2014
DatGn	ABBIED600_Rev1_INS_e	Generator data sent on GOOSE for usage in Ntw DGMGAP C	E	ABBIED600:2014
TestProRl	ABBIED600_Rev13_ENC_TestP roRl_Sub3_e	Status of re-lay test mode	E	ABBIED600:2014 ,status-only,direct-with-normal-secu-rity

5.2.418 LN: DGMZGEN1 Name: ZGEN (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
DExt	ABBIED600_Rev2_SPC_simple	De-exci-tation		status-only
OpOvExt	ABBIED600_Rev1_SPS	Opera-tion at over-ex-citation		

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OpUnExt	ABBIED600_Rev1_SPS	Operation at under-excitation		
GnSt	ABBIED600_Rev2_ENS_GnSt	Generator state		
OpNoLod	ABBIED600_Rev1_SPS	Operation at no load		
RotDir	ABBIED600_Rev1_ENS_RotDir	Phase rotation (Clockwise | Counter-Clockwise | Unknown)		
ExtA	ABBIED600_Rev7_MV_simple_i_e	Excitation current of the generator	E	ABBIED600:2014

5.2.419 LN: DGMTGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TotGnNum	ABBIED600_Rev2_ING_SP_1_e	Total Num of generators	E	ABBIED600:2014
TotTieNum	ABBIED600_Rev2_ING_SP_1_e	Total Num of tie	E	ABBIED600:2014

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BusGn1	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar num-ber of gene-rator 1	E	ABBIED600:2014
BusGn2	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar num-ber of gene-rator 2	E	ABBIED600:2014
BusGn3	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar num-ber of gene-rator 3	E	ABBIED600:2014
BusGn4	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar num-ber of gene-rator 4	E	ABBIED600:2014
BusGn5	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar num-ber of gene-rator 5	E	ABBIED600:2014
BusGn6	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar num-ber of	E	ABBIED600:2014

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		generator 6		
BusGn7	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar number of generator 7	E	ABBIED600:2014
BusGn8	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar number of generator 8	E	ABBIED600:2014
TieCB1BusA	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar A number of tie breaker 1	E	ABBIED600:2014
TieCB1BusB	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar B number of tie breaker 1	E	ABBIED600:2014
TieCB2BusA	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar A number of tie breaker 2	E	ABBIED600:2014
TieCB2BusB	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar B number of tie breaker 2	E	ABBIED600:2014

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TieCB3BusA	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar A num-ber of tie brea-ker 3	E	ABBIED600:2014
TieCB3BusB	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar B num-ber of tie brea-ker 3	E	ABBIED600:2014
TieCB4BusA	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar A num-ber of tie brea-ker 4	E	ABBIED600:2014
TieCB4BusB	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar B num-ber of tie brea-ker 4	E	ABBIED600:2014
TieCB5BusA	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar A num-ber of tie brea-ker 5	E	ABBIED600:2014
TieCB5BusB	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar B num-ber of tie brea-ker 5	E	ABBIED600:2014
TieCB6BusA	ABBIED600_Rev3_ENG_SP_BusNum_e	Bus-bar A num-ber of tie	E	ABBIED600:2014

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		breaker 6		
TieCB6BusB	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar B number of tie breaker 6	E	ABBIED600:2014
TieCB7BusA	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar A number of tie breaker 7	E	ABBIED600:2014
TieCB7BusB	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar B number of tie breaker 7	E	ABBIED600:2014
TieCB8BusA	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar A number of tie breaker 8	E	ABBIED600:2014
TieCB8BusB	ABBIED600_Rev3_ENG_SP_BusNum_e	Busbar B number of tie breaker 8	E	ABBIED600:2014
NtwNumGn1	ABBIED600_Rev1_INS_e	Sub network number of generator 1	E	ABBIED600:2014

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NtwNumGn2	ABBIED600_Rev1_INS_e	Sub net-work num-ber of gene-rator 2	E	ABBIED600:2014
NtwNumGn3	ABBIED600_Rev1_INS_e	Sub net-work num-ber of gene-rator 3	E	ABBIED600:2014
NtwNumGn4	ABBIED600_Rev1_INS_e	Sub net-work num-ber of gene-rator 4	E	ABBIED600:2014
NtwNumGn5	ABBIED600_Rev1_INS_e	Sub net-work num-ber of gene-rator 5	E	ABBIED600:2014
NtwNumGn6	ABBIED600_Rev1_INS_e	Sub net-work num-ber of gene-rator 6	E	ABBIED600:2014

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NtwNumGn7	ABBIED600_Rev1_INS_e	Sub network number of generator 7	E	ABBIED600:2014
NtwNumGn8	ABBIED600_Rev1_INS_e	Sub network number of generator 8	E	ABBIED600:2014
NtwNumTie1	ABBIED600_Rev1_INS_e	Sub network number of tie breaker 1	E	ABBIED600:2014
NtwNumTie2	ABBIED600_Rev1_INS_e	Sub network number of tie breaker 2	E	ABBIED600:2014
NtwNumTie3	ABBIED600_Rev1_INS_e	Sub network number of tie breaker 3	E	ABBIED600:2014
NtwNumTie4	ABBIED600_Rev1_INS_e	Sub network number	E	ABBIED600:2014

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		of tie breaker 4		
NtwNumTie5	ABBIED600_Rev1_INS_e	Sub network number of tie breaker 5	E	ABBIED600:2014
NtwNumTie6	ABBIED600_Rev1_INS_e	Sub network number of tie breaker 6	E	ABBIED600:2014
NtwNumTie7	ABBIED600_Rev1_INS_e	Sub network number of tie breaker 7	E	ABBIED600:2014
NtwNumTie8	ABBIED600_Rev1_INS_e	Sub network number of tie breaker 8	E	ABBIED600:2014

5.2.420 LN: HLTGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
HotTagIn	ABBIED600_Rev1_SPS_e	Input toggle tag on and off	E	ABBIED600:2014
HotTagOn	ABBIED600_Rev1_SPS_simple_e	Hotline tag active	E	ABBIED600:2014
HotTagOff	ABBIED600_Rev1_SPS_simple_e	Hotline tag not active	E	ABBIED600:2014
HotTagSrc	ABBIED600_Rev1_ENS_HotTagSrc_e	Source of tag	E	ABBIED600:2014
RemTagMod	ABBIED600_Rev2_ENG_SP_RemTagMod_e	Remote tag mode	E	ABBIED600:2014
TagOnOff	ABBIED600_Rev3_SPC_control_e	Toggle hotline tag command on/off	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.421 LN: HSF1CSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
OpOpn	ABBIED600_Rev1_ACT_simple	Open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Close switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
CBTmms	ABBIED600_Rev2_ING_SP	Closing time of breaker		
CBOpTmms	ABBIED600_Rev2_ING_SP_e	Opening time of breaker	E	IEC 61850-7-4:2007
InCBRdyOpn	ABBIED600_Rev1_SPS_simple_e	CB ready for opening	E	IEC 61850-7-4:2007
InCBRdyCls	ABBIED600_Rev1_SPS_simple_e	CB ready for closing	E	IEC 61850-7-4:2007

5.2.422 LN: HSF2CSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
OpOpn	ABBIED600_Rev1_ACT_simple	Open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Close switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
CBTmms	ABBIED600_Rev2_ING_SP	Closing time of breaker		
CBOpTmms	ABBIED600_Rev2_ING_SP_e	Opening time of breaker	E	IEC 61850-7-4:2007
InCBRdyOpn	ABBIED600_Rev1_SPS_simple_e	CB ready for opening	E	IEC 61850-7-4:2007
InCBRdyCls	ABBIED600_Rev1_SPS_simple_e	CB ready for closing	E	IEC 61850-7-4:2007

5.2.423 LN: HSF1MMXU1 Name: MMXU (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltages		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between feeder and busbar	E	IEC 61850-7-4:2007

5.2.424 LN: HSF2MMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltages		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between feeder and busbar	E	IEC 61850-7-4:2007

5.2.425 LN: HSBBMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltage		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between	E	IEC 61850-7-4:2007

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		standby feeder and busbar		
DifHzClc	ABBIED600_Rev7_MV_simple_i_e	Frequency difference between standby feeder and busbar	E	IEC 61850-7-4:2007

5.2.426 LN: HSF1SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	CB opening time		
OpTmCls	ABBIED600_Rev7_MV_simple_i	CB closing time		
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
OpTmClsAlm	ABBIED600_Rev1_SPS_simple	CB CLOSE travel time exceeded set value		
OpTmOpnAlm	ABBIED600_Rev1_SPS_simple	CB OPEN travel		

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		time exceeded set value		
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
OpTmClsDif	ABBIED600_Rev8_ASG_SP_i_e	Setting of alarm level for close travel time difference in ms	E	ABBIED600:2014
OpTmClsAct	ABBIED600_Rev7_MV_simple_i_e	Active CB	E	ABBIED600:2014

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		clo-sing time		
OpTmOp-nAct	ABBIED600_Rev7_MV_simple_i_e	Active CB ope-ning time	E	ABBIED600:20 14

5.2.427 LN: HSF2SCBR1 Name: SCBR (ED2)

Attribute name	Attribute type	Expla-nation	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open com-mand of trip coil		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	CB ope-ning time		
OpTmCls	ABBIED600_Rev7_MV_simple_i	CB clo-sing time		
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClc Mod_e	Travel time calcu-lation mode	E	ABBIED600:20 14
OpTmClsAl m	ABBIED600_Rev1_SPS_simple	CB CLOS E tra-vel time exceе-ded set va-lue		
OpTmOp-nAlm	ABBIED600_Rev1_SPS_simple	CB OPEN		

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		travel time exceeded set value		
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
OpTmClsDif	ABBIED600_Rev8_ASG_SP_i_e	Setting of alarm level for close travel time difference in ms	E	ABBIED600:2014

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OpTmClsAct	ABBIED600_Rev7_MV_simple_i_e	Active CB closing time	E	ABBIED600:2014
OpTmOpnAct	ABBIED600_Rev7_MV_simple_i_e	Active CB opening time	E	ABBIED600:2014

5.2.428 LN: HSF1CSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
OpOpn	ABBIED600_Rev1_ACT_simple	Open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Close switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
CBTmms	ABBIED600_Rev2_ING_SP	Closing time of breaker		
CBOpTmms	ABBIED600_Rev2_ING_SP_e	Opening time of breaker	E	IEC 61850-7-4:2007
InCBRdyOpn	ABBIED600_Rev1_SPS_simple_e	CB ready for opening	E	IEC 61850-7-4:2007
InCBRdyCls	ABBIED600_Rev1_SPS_simple_e	CB ready for closing	E	IEC 61850-7-4:2007

5.2.429 LN: HSF2CSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
OpOpn	ABBIED600_Rev1_ACT_simple	Open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Close switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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CBTmms	ABBIED600_Rev2_ING_SP	Closing time of breaker		
CBOpTmms	ABBIED600_Rev2_ING_SP_e	Opening time of breaker	E	IEC 61850-7-4:2007
InCBRdyOpn	ABBIED600_Rev1_SPS_simple_e	CB ready for opening	E	IEC 61850-7-4:2007
InCBRdyCls	ABBIED600_Rev1_SPS_simple_e	CB ready for closing	E	IEC 61850-7-4:2007

5.2.430 LN: HSF1MMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltages		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between feeder and busbar	E	IEC 61850-7-4:2007

5.2.431 LN: HSF2MMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltages		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between feeder and busbar	E	IEC 61850-7-4:2007

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5.2.432 LN: HSBBMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltage		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between standby feeder and busbar	E	IEC 61850-7-4:2007
DifHzClc	ABBIED600_Rev7_MV_simple_i_e	Frequency difference between standby feeder and busbar	E	IEC 61850-7-4:2007

5.2.433 LN: HSF1SCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	CB opening time		
OpTmCls	ABBIED600_Rev7_MV_simple_i	CB closing time		
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time	E	ABBIED600:2014

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		calculation mode		
OpTmClsAlm	ABBIED600_Rev1_SPS_simple	CB CLOSE travel time exceeded set value		
OpTmOpnAlm	ABBIED600_Rev1_SPS_simple	CB OPEN travel time exceeded set value		
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should		

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		complete		
OpTmClsDif	ABBIED600_Rev8_ASG_SP_i_e	Setting of alarm level for close travel time difference in ms	E	ABBIED600:2014
OpTmClsAct	ABBIED600_Rev7_MV_simple_i_e	Active CB closing time	E	ABBIED600:2014
OpTmOpnAct	ABBIED600_Rev7_MV_simple_i_e	Active CB opening time	E	ABBIED600:2014

5.2.434 LN: HSF2SCBR2 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	CB opening time		
OpTmCls	ABBIED600_Rev7_MV_simple_i	CB closing time		

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TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
OpTmClsAlm	ABBIED600_Rev1_SPS_simple	CB CLOSE travel time exceeded set value		
OpTmOpnAlm	ABBIED600_Rev1_SPS_simple	CB OPEN travel time exceeded set value		
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing		

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		operation should complete		
OpTmClsDif	ABBIED600_Rev8_ASG_SP_i_e	Setting of alarm level for close travel time difference in ms	E	ABBIED600:2014
OpTmClsAct	ABBIED600_Rev7_MV_simple_i_e	Active CB closing time	E	ABBIED600:2014
OpTmOpnAct	ABBIED600_Rev7_MV_simple_i_e	Active CB opening time	E	ABBIED600:2014

5.2.435 LN: HSF1CSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
OpOpn	ABBIED600_Rev1_ACT_simple	Open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Close switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
CBTmms	ABBIED600_Rev2_ING_SP	Closing time of breaker		
CBOpTmms	ABBIED600_Rev2_ING_SP_e	Opening time of breaker	E	IEC 61850-7-4:2007
InCBRdyOpn	ABBIED600_Rev1_SPS_simple_e	CB ready for opening	E	IEC 61850-7-4:2007

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InCBRdyCls	ABBIED600_Rev1_SPS_simple_e	CB ready for closing	E	IEC 61850-7-4:2007

5.2.436 LN: HSF2CSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
OpOpn	ABBIED600_Rev1_ACT_simple	Open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Close switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
CBTmms	ABBIED600_Rev2_ING_SP	Closing time of breaker		
CBOpTmms	ABBIED600_Rev2_ING_SP_e	Opening time of breaker	E	IEC 61850-7-4:2007
InCBRdyOpn	ABBIED600_Rev1_SPS_simple_e	CB ready for opening	E	IEC 61850-7-4:2007
InCBRdyCls	ABBIED600_Rev1_SPS_simple_e	CB ready for closing	E	IEC 61850-7-4:2007

5.2.437 LN: HSF1MMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltages		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between feeder and busbar	E	IEC 61850-7-4:2007

5.2.438 LN: HSF2MMXU3 Name: MMXU (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltages		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between feeder and busbar	E	IEC 61850-7-4:2007

5.2.439 LN: HSBBMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev7_MV_simple_i	Frequency		
PPV	ABBIED600_Rev7_DEL_4_simpler_1	Phase to phase voltage		
DifAngClc	ABBIED600_Rev7_MV_simple_i_e	Angle difference between standby feeder and busbar	E	IEC 61850-7-4:2007
DifHzClc	ABBIED600_Rev7_MV_simple_i_e	Frequency difference between standby feeder and busbar	E	IEC 61850-7-4:2007

5.2.440 LN: HSF1SCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	CB opening time		
OpTmCls	ABBIED600_Rev7_MV_simple_i	CB closing time		
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
OpTmClsAlm	ABBIED600_Rev1_SPS_simple	CB CLOSE travel time exceeded set value		
OpTmOpnAlm	ABBIED600_Rev1_SPS_simple	CB OPEN travel time exceeded set value		
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation		

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		should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
OpTmClsDif	ABBIED600_Rev8_ASG_SP_i_e	Setting of alarm level for close travel time difference in ms	E	ABBIED600:2014
OpTmClsAct	ABBIED600_Rev7_MV_simple_i_e	Active CB closing time	E	ABBIED600:2014
OpTmOpnAct	ABBIED600_Rev7_MV_simple_i_e	Active CB opening time	E	ABBIED600:2014

5.2.441 LN: HSF2SCBR3 Name: SCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ColOpn	ABBIED600_Rev1_SPS_simple	Open command of trip coil		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	CB opening time		
OpTmCls	ABBIED600_Rev7_MV_simple_i	CB closing time		
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014
OpTmClsAlm	ABBIED600_Rev1_SPS_simple	CB CLOSE travel time exceeded set value		
OpTmOpnAlm	ABBIED600_Rev1_SPS_simple	CB OPEN travel time exceeded set value		
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening		

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		operation should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
OpTmClsDif	ABBIED600_Rev8_ASG_SP_i_e	Setting of alarm level for close travel time difference in ms	E	ABBIED600:2014
OpTmClsAct	ABBIED600_Rev7_MV_simple_i_e	Active CB closing time	E	ABBIED600:2014
OpTmOpnAct	ABBIED600_Rev7_MV_simple_i_e	Active CB opening time	E	ABBIED600:2014

5.2.442 LN: SCEFRFLO1 Name: RFLO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
FltZ	ABBIED600_Rev7_CMV_S_1	Fault loop impedance		
FltDiskm	ABBIED600_Rev7_MV_simple_i	Fault distance		
FltLoop	ABBIED600_Rev5_ENS_FltLoop	Fault loop		
RcdBlk	ABBIED600_Rev1_SPS_simple_e	Signal for blocking the triggering	E	ABBIED600:2014
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
TrgSt	ABBIED600_Rev1_SPS_e	Triggered	E	ABBIED600:2014
StrClc	ABBIED600_Rev3_SPC_control_e	Start calculation sequence for compensation network	E	IEC 61850-7-4:2007,status-only,direct-with-normal-security
FltPtRis	ABBIED600_Rev7_MV_simple_i_e	Fault point resistance	E	ABBIED600:2014
FltR	ABBIED600_Rev7_MV_simple_i_e	Fault loop resistance	E	ABBIED600:2014
FltX	ABBIED600_Rev7_MV_simple_i_e	Fault loop reactance	E	ABBIED600:2014

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PhReact	ABBIED600_Rev7_MV_simple_i_e	Fault phase reac-tance	E	ABBIED600:2014
RatFltA-Lod	ABBIED600_Rev7_MV_simple_i_e	Fault to load current ratio	E	ABBIED600:2014
DifRe-sAVal	ABBIED600_Rev8_ASG_SP_i_e	Chang e in mea-sured resis-tive com-ponent current due to fault	E	ABBIED600:2014
StrDlTm ms	ABBIED600_Rev2_ING_SP_e	Time delay	E	IEC 61850-7-4:2007
EqDis-Lod	ABBIED600_Rev7_MV_simple_i_e	Esti-mated equiva lent load dis-tance	E	ABBIED600:2014
PhGnd-Capac	ABBIED600_Rev7_MV_simple_i_e	Esti-mated PE ca-paci-tive reac-tance of the line	E	ABBIED600:2014
RcdTrg	ABBIED600_Rev3_SPC_control_e	Trig-gering signal for dis-tance calcu-lation	E	IEC 61850-7-4:2007,status-only,direct-with-nor-mal-security

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TrgClc	ABBIED600_Rev3_SPC_control_e	Trig-gering signal for XC0F calcu-lation	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdRs	ABBIED600_Rev3_SPC_control_e	Recor-ded data reset	E	ABBIED600:2014,status-only,direct-with-normal-security
FltDisQ	ABBIED600_Rev1_INS_e	Fault dis-tance quality	E	ABBIED600:2014
ZMaxLo d	ABBIED600_Rev8_ASG_SG_i_e	Maxi-mum load impe-dance	E	ABBIED600:2014
PhLkgRi s	ABBIED600_Rev8_ASG_SG_i_e	Line PE lea-kage resis-tance	E	ABBIED600:2014
PhLin-Capac	ABBIED600_Rev8_ASG_SG_i_e	Line PE ca-paci-tive reac-tance	E	ABBIED600:2014
EqLod-Dis	ABBIED600_Rev8_ASG_SG_i_e	Equiva lent load dis-tance	E	ABBIED600:2014
TrgMod	ABBIED600_Rev2_ENG_SP_TrgMo d_e	Trig-ger mode for dis-tance calcu-lation	E	IEC 61850-7-4:2007

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HiLim-Spt	ABBIED600_Rev8_ASG_SG_i_e	High alarm limit	E	IEC 61850-7-4:2007
LoLim-Spt	ABBIED600_Rev8_ASG_SG_i_e	Low alarm limit	E	IEC 61850-7-4:2007
EFAlg-Sel	ABBIED600_Rev3_ENG_SP_EFAlg_e	PE-loop calcu-lation algo-rithm	E	ABBIED600:2014
EFAlgA-Sel	ABBIED600_Rev3_ENG_SP_EFAlgASel_e	Earth fault current model	E	ABBIED600:2014
EnaLod-Comp	ABBIED600_Rev2_SPG_SP_e	Enable load com-pensa-tion	E	ABBIED600:2014
Simp-Mod	ABBIED600_Rev2_SPG_SP_e	Enable simple model	E	ABBIED600:2014
TestP-roRl	ABBIED600_Rev13_ENC_TestProRl_Sub9_e	Test control for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security
DisEstVa	ABBIED600_Rev8_ASG_SP_i_e	Allo-wed va-riation of short circuit dis-tance esti-mate	E	ABBIED600:2014
PhVMeas	ABBIED600_Rev3_ENG_SP_PhVMeas_e	Phase vol-tage mea-sure-ment	E	ABBIED600:2014

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		principle		
LoctDetMod	ABBIED600_Rev1_ENG_SG_LoctDetMod_e	Fault location detection mode	E	ABBIED600:2014

5.2.443 LN: PDNSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset		

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		Delay Time		
ImbNgA	ABBIED600_Rev7_MV_simple_i_e	Measured current ratio I2 / I1	E	IEC 61850-7-4:2007
MinPhA	ABBIED600_Rev8_ASG_SP_i_e	Minimum phase current	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.444 LN: T1PTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

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Tmp	ABBIED600_Rev7_MV_simple_i	TEMP		
TmpRl	ABBIED600_Rev7_MV_simple_i	TEMP_RL		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AlmThm	ABBIED600_Rev1_SPS	Thermal Alarm		
Tmp-Max	ABBIED600_Rev8_ASG_SG_i	Operate level temperature		
ConsTms1	ABBIED600_Rev2_ING_SG	Time constant for thermal model		
AlmVal	ABBIED600_Rev8_ASG_SG_i	Alarm level temperature		
RsTmp	ABBIED600_Rev3_SPC_control_e	Reset temperature	E	ABBIED600:2014,status-only,direct-with-normal-security
InEnaMult	ABBIED600_Rev1_SPS_e	Enable multiplier for reference setting	E	ABBIED600:2014
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal		
TmpUsed	ABBIED600_Rev7_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014
TmpAmb	ABBIED600_Rev7_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
OpTm	ABBIED600_Rev6_INS_Unit_e	Estimated time to operate	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev6_INS_Unit_e	Estimated time to deactivate BLK_CLOSE	E	ABBIED600:2014

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AMult	ABBIED600_Rev2_ING_SG_e	Current reference multiplier for thermal model	E	ABBIED600:2014
ARef	ABBIED600_Rev8_ASG_SG_i_e	Current reference for thermal model	E	ABBIED600:2014
EnvTmpSet	ABBIED600_Rev8_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev8_ASG_SP_i_e	Temperature calculation initial value	E	ABBIED600:2014
DropoutVal	ABBIED600_Rev8_ASG_SG_i	Temperature for reset of BLK_CLOSE after operate		
TmpR	ABBIED600_Rev8_ASG_SG_i_e	Temperature rise	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub18_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.445 LN: T2PTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Tmp	ABBIED600_Rev7_MV_simple_i	TEMP		
TmpRl	ABBIED600_Rev7_MV_simple_i	TEMP_RL		

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Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AlmThm	ABBIED600_Rev1_SPS	Thermal Alarm		
Tmp-Max	ABBIED600_Rev8_ASG_SG_i	Max temperature		
ConsTms1	ABBIED600_Rev2_ING_SG	Short time constant for thermal model		
ConsTms2	ABBIED600_Rev2_ING_SG	Long time constant for thermal model		
AlmVal	ABBIED600_Rev8_ASG_SG_i	Alarm temperature		
RsTmp	ABBIED600_Rev3_SPC_control_e	Reset temperature	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkThm	ABBIED600_Rev1_SPS	Block reclose signal		
TmpUsed	ABBIED600_Rev7_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014
TmpAmb	ABBIED600_Rev7_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
ARef	ABBIED600_Rev8_ASG_SG_i_e	Current reference for thermal model	E	ABBIED600:2014
EnvTmp-Set	ABBIED600_Rev8_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev8_ASG_SP_i_e	Initial temperature	E	ABBIED600:2014
DropoutVal	ABBIED600_Rev8_ASG_SG_i	Temperature for reset of		

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		BLK_CLOSE after operate		
TmpR	ABBIED600_Rev8_ASG_SG_i_e	Temperature reference for thermal model	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub18_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
WghFact	ABBIED600_Rev8_ASG_SG_i_e	Weighting factor of the short time constant	E	ABBIED600:2014
OpTmp	ABBIED600_Rev8_ASG_SG_i_e	Operate temperature, percent value	E	ABBIED600:2014
OpTm	ABBIED600_Rev6_INS_Unit_e	Estimated time to operate	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev6_INS_Unit_e	Estimated time to deactivate InhRec	E	ABBIED600:2014

5.2.446 LN: INRPHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for		

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		all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
PhStr	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
TestProRl	ABBIED600_Rev14_ENC_TestProRl_Sub12_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub3_e	Number of phases required for operate activation	E	ABBIED600:2014
BlkValA	ABBIED600_Rev8_ASG_SG_i_e	Minimum operate current	E	IEC 61850-7-4:2007

5.2.447 LN: INRPHAR2 Name: PHAR (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn _FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_threephase	Start		
PhStr	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate De-lay Time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Re-set De-lay Time		
TestP-roRl	ABBIED600_Rev14_ENC_TestProRl_ Sub12_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSe l_Sub3_e	Num ber of phas es re-qui-red	E	ABBIED600:2014

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		for operate activation		
BlkValA	ABBIED600_Rev8_ASG_SG_i_e	Minimum operate current	E	IEC 61850-7-4:2007

5.2.448 LN: LREFPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	LREFPNDF1		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DifAClc	ABBIED600_Rev7_WYE_res_simple_i	ID_COSPHI		
RstA	ABBIED600_Rev7_WYE_res_simple_i	IB		
LoSet	ABBIED600_Rev8_ASG_SG_i	Operate value		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod_Sub1	Restraint mode		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub24_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CTConnTyp	ABBIED600_Rev3_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
Blk2HSt	ABBIED600_Rev1_ACT_simple_e	2nd harmonic restraint	E	ABBIED600:2014

5.2.449 LN: LREFPDIF2 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	LREFPNDF1		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DifAClc	ABBIED600_Rev7_WYE_res_simple_i	ID_COSPHI		
RstA	ABBIED600_Rev7_WYE_res_simple_i	IB		
LoSet	ABBIED600_Rev8_ASG_SG_i	Operate value		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum Operate Time		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod_Sub1	Restraint mode		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub24_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
CTConnTyp	ABBIED600_Rev3_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
Blk2HSt	ABBIED600_Rev1_ACT_simple_e	2nd harmonic restraint	E	ABBIED600:2014

5.2.450 LN: TR2LPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		
DifAClc	ABBIED600_Rev7_WYE_threephase_simple_i	Differential Current		
RstA	ABBIED600_Rev7_WYE_threephase_simple_i	Biasing Current		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod_Sub2	Restraint mode		
Blk	ABBIED600_Rev1_SPS_simple	Blocks		

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		operate outputs from biased stage		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub21_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
SpeScn2	ABBIED600_Rev8_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
EndScn2	ABBIED600_Rev8_ASG_SG_i_e	End section 2	E	ABBIED600:2014
SpeScn3	ABBIED600_Rev8_ASG_SG_i_e	Slope section 3	E	ABBIED600:2014
CTConnTyp	ABBIED600_Rev3_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
Wnd1Typ	ABBIED600_Rev4_ENG_SP_Wnd1Typ_e	Winding 1 type	E	ABBIED600:2014
Wnd2Typ	ABBIED600_Rev4_ENG_SP_Wnd2Typ_e	Winding 2 type	E	ABBIED600:2014
ClkNum	ABBIED600_Rev3_ENG_SP_ClkNum_e	Phase shift	E	ABBIED600:2014
ZroAElm	ABBIED600_Rev5_ENG_SP_ZroAElm_Sub1_e	Zro A elimination	E	ABBIED600:2014
MinWndTap	ABBIED600_Rev2_ING_SP_1_e	Min winding tap	E	ABBIED600:2014
MaxWndTap	ABBIED600_Rev2_ING_SP_1_e	Max winding tap	E	ABBIED600:2014

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TapNom-LTC1	ABBIED600_Rev2_ING_SP_1_e	Tap nomi-nal	E	ABBIED600:2014
TapWnd	ABBIED600_Rev3_ENG_SP_WndSel_Sub1_e	Tap-ped win-ding	E	ABBIED600:2014
StepTap1	ABBIED600_Rev8_ASG_SP_i_e	Step of tap	E	ABBIED600:2014
HDBlk	ABBIED600_Rev1_SPG_SG_e	Har-monic debloc k 2.	E	ABBIED600:2014
BlkWavSt	ABBIED600_Rev1_ACT_threephase_e	Status from wa-vefor m blocki ng	E	ABBIED600:2014
Blk2HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 2nd har-monic restrai nt blocki ng	E	ABBIED600:2014
Blk5HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 5th har-monic restrai nt blocki ng	E	ABBIED600:2014
ScndAComp	ABBIED600_Rev7_WYE_threephase_simple_i_e	Con-nec-tion group com-pen-sated secon-dary	E	ABBIED600:2014

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		current		
PriA-Comp	ABBIED600_Rev7_WYE_threephase_simple_i_e	Connection group compensated primary current	E	ABBIED600:2014
AngPriAB	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle A to B, winding 1	E	ABBIED600:2014
AngPriBC	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle B to C, winding 1	E	ABBIED600:2014
AngPriCA	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle C to A, winding 1	E	ABBIED600:2014
AngScndAB	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle A to B, winding 2	E	ABBIED600:2014
AngScndBC	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle B to C,	E	ABBIED600:2014

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		win-ding 2		
AngScndCA	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle C to A, win-ding 2	E	ABBIED600:2014
AngPriScndA	ABBIED600_Rev7_MV_simple_i_e	Curr ph A win-ding 1 to 2 angle	E	ABBIED600:2014
AngPriScndB	ABBIED600_Rev7_MV_simple_i_e	Curr ph B win-ding 1 to 2 angle	E	ABBIED600:2014
AngPriScndC	ABBIED600_Rev7_MV_simple_i_e	Curr ph C win-ding 1 to 2 angle	E	ABBIED600:2014
CTRatCor1	ABBIED600_Rev8_ASG_SP_i_e	CT ra-tio cor-rec-tion, win-ding 1	E	ABBIED600:2014
CTRatCor2	ABBIED600_Rev8_ASG_SP_i_e	CT ra-tio cor-rec-tion, win-ding 2	E	ABBIED600:2014

5.2.451 LN: TR2H2PHAR1 Name: PHAR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when restraint is needed)		
PhStr	ABBIED600_Rev8_ASG_SG_i	Start value 2.H		
AHRat	ABBIED600_Rev7_WYE_threephase_simple_i_e	2nd harm to fund ratio of diff curr	E	ABBIED600:2014

5.2.452 LN: TR2H5PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when restraint is needed)		
PhStr	ABBIED600_Rev8_ASG_SG_i	Start value 5.H		
PhStop	ABBIED600_Rev8_ASG_SG_i	Stop value		

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HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 5.	E	ABBIED600:2014
AH-Rat	ABBIED600_Rev7_WYE_threephase_simple_i_e	5th harm to fund ratio of diff curr	E	ABBIED600:2014

5.2.453 LN: TR2HPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instantaneous) stage		
HiSet	ABBIED600_Rev8_ASG_SG_i	High operate value		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instantaneous stage		
EnaHiSet	ABBIED600_Rev1_SPG_SG_e	Enable high set	E	ABBIED600:2014

5.2.454 LN: TR3LPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		
DifAClc	ABBIED600_Rev7_WYE_threephase_simple_i	Differential Current		
RstA	ABBIED600_Rev7_WYE_threephase_simple_i	Restraint Current		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value		
RstMod	ABBIED600_Rev3_ENG_SG_RstMod_Sub2	Restraint mode		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from biased stage		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub21_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
SpeScn2	ABBIED600_Rev8_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
EndScn2	ABBIED600_Rev8_ASG_SG_i_e	End section 2	E	ABBIED600:2014
SpeScn3	ABBIED600_Rev8_ASG_SG_i_e	Slope section 3	E	ABBIED600:2014

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AGr3Typ	ABBIED600_Rev4_ENG_SP_AGrpTyp_e	Current group 3 type	E	ABBIED600:2014
CTConnTyp1	ABBIED600_Rev3_ENG_SP_CTConnTyp_e	CT connection 1-2	E	ABBIED600:2014
CTConnTyp2	ABBIED600_Rev3_ENG_SP_CTConnTyp_e	CT connection 1-3	E	ABBIED600:2014
PhShtRef	ABBIED600_Rev3_ENG_SP_WndSel_e	Phase Ref winding	E	ABBIED600:2014
ZroAElm	ABBIED600_Rev5_ENG_SP_ZroAElm_e	Zro A elimination	E	ABBIED600:2014
PhSht1	ABBIED600_Rev8_ASG_SP_i_e	Phase shift Wnd 1-3	E	ABBIED600:2014
PhSht2	ABBIED600_Rev8_ASG_SP_i_e	Phase shift Wnd 1-3	E	ABBIED600:2014
MinWndTap	ABBIED600_Rev2_ING_SP_1_e	Min winding tap	E	ABBIED600:2014
MaxWndTap	ABBIED600_Rev2_ING_SP_1_e	Max winding tap	E	ABBIED600:2014
TapNomLTC1	ABBIED600_Rev2_ING_SP_1_e	Tap nominal	E	ABBIED600:2014
TapWnd	ABBIED600_Rev3_ENG_SP_WndSel_e	Tapped winding	E	ABBIED600:2014

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StepTap1	ABBIED600_Rev8_ASG_SP_i_e	Step of tap	E	ABBIED600:2014
HDBlk	ABBIED600_Rev1_SPG_SG_e	Har-monic debloc k 2.	E	ABBIED600:2014
BlkWavSt	ABBIED600_Rev1_ACT_threephase_e	Status from wa-vefor m blocki ng	E	ABBIED600:2014
Blk2HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 2nd har-monic restrai nt blocki ng	E	ABBIED600:2014
Blk5HSt	ABBIED600_Rev1_ACT_threephase_e	Status from 5th har-monic restrai nt blocki ng	E	ABBIED600:2014
ScndACo mp	ABBIED600_Rev7_WYE_threephase_simple_i_e	Con-nec-tion group com-pen-sated secon-dary cur-rent	E	ABBIED600:2014
PriA-Comp	ABBIED600_Rev7_WYE_threephase_simple_i_e	Con-nec-tion group	E	ABBIED600:2014

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		compensated primary current		
TerACComp	ABBIED600_Rev7_WYE_threephase_simple_i_e	Connection group compensated tertiary current	E	ABBIED600:2014
AngPriAB	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle A to B, winding 1	E	ABBIED600:2014
AngPriBC	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle B to C, winding 1	E	ABBIED600:2014
AngPriCA	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle C to A, winding 1	E	ABBIED600:2014
AngScndAB	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle A to B, winding 2	E	ABBIED600:2014

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AngScndBC	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle B to C, win-ding 2	E	ABBIED600:2014
AngScndCA	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle C to A, win-ding 2	E	ABBIED600:2014
AngTerAB	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle A to B, win-ding 3	E	ABBIED600:2014
AngTerBC	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle B to C, win-ding 3	E	ABBIED600:2014
AngTerCA	ABBIED600_Rev7_MV_simple_i_e	Curr ph angle C to A, win-ding 3	E	ABBIED600:2014
AngPriScndA	ABBIED600_Rev7_MV_simple_i_e	Curr ph A win-ding 1 to 2 angle	E	ABBIED600:2014
AngPriScndB	ABBIED600_Rev7_MV_simple_i_e	Curr ph B win-ding 1 to 2 angle	E	ABBIED600:2014

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AngPriScndC	ABBIED600_Rev7_MV_simple_i_e	Curr ph C winding 1 to 2 angle	E	ABBIED600:2014
AngPriTerA	ABBIED600_Rev7_MV_simple_i_e	Curr ph A winding 1 to 3 angle	E	ABBIED600:2014
AngPriTerB	ABBIED600_Rev7_MV_simple_i_e	Curr ph B winding 1 to 3 angle	E	ABBIED600:2014
AngPriTerC	ABBIED600_Rev7_MV_simple_i_e	Curr ph C winding 1 to 3 angle	E	ABBIED600:2014
CTRatCor1	ABBIED600_Rev8_ASG_SP_i_e	CT ratio correction, winding 1	E	ABBIED600:2014
CTRatCor2	ABBIED600_Rev8_ASG_SP_i_e	CT ratio correction, winding 2	E	ABBIED600:2014
CTRatCor3	ABBIED600_Rev8_ASG_SP_i_e	CT ratio correction, current group 3	E	ABBIED600:2014

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5.2.455 LN: TR3H2PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when restraint is needed)		
PhStr	ABBIED600_Rev8_ASG_SG_i	Start value 2.H		
AHRat	ABBIED600_Rev7_WYE_threephase_simple_i_e	2nd harm to fund ratio of diff curr	E	ABBIED600:2014

5.2.456 LN: TR3H5PHAR1 Name: PHAR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_threephase	Start (active when restraint is needed)		
PhStr	ABBIED600_Rev8_ASG_SG_i	Start value 5.H		

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PhStop	ABBIED600_Rev8_ASG_SG_i	Stop value		
HDBlk	ABBIED600_Rev1_SPG_SG_e	Harmonic deblock 5.	E	ABBIED600:2014
AH-Rat	ABBIED600_Rev7_WYE_threephase_simple_i_e	5th harm to fund ratio of diff curr	E	ABBIED600:2014

5.2.457 LN: TR3HPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate signal from high (instantaneous) stage		
HiSet	ABBIED600_Rev8_ASG_SG_i	High operate value		
EnaHiSet	ABBIED600_Rev1_SPG_SG_e	Enable high set	E	ABBIED600:2014
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from instantaneous stage		

5.2.458 LN: PHPVOC1 Name: PVOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		

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RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
InEnaLoLim	ABBIED600_Rev1_SPS_e	Enable signal for voltage dependent lower start value	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
CtlMod	ABBIED600_Rev4_ENG_SP_CtlMod_e	Control mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate	E	ABBIED600:2014

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		activation		
LoStrVal	ABBIED600_Rev8_ASG_SG_i_e	Lower start value based on voltage control	E	ABBIED600:2014
VHiLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage high limit for voltage control	E	ABBIED600:2014
VLoLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage low limit for voltage control	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
EffStrVal	ABBIED600_Rev7_WYE_threephase_simple_i_e	Calculated effective start value	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.459 LN: PHPVOC2 Name: PVOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating		

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		Curve Type		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
InEnaLoLim	ABBIED600_Rev1_SPS_e	Enable signal for	E	ABBIED600:2014

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		voltage dependent lower start value		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
CtlMod	ABBIED600_Rev4_ENG_SP_CtlMod_e	Control mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
LoStrVal	ABBIED600_Rev8_ASG_SG_i_e	Lower start value based on voltage control	E	ABBIED600:2014
VHiLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage high limit for voltage	E	ABBIED600:2014

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		control		
VLoLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage low limit for voltage control	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EffStrVal	ABBIED600_Rev7_WYE_threephase_simple_i_e	Calculated effective start value	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.460 LN: PHPVOC3 Name: PVOC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		

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TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
InEnaLoLim	ABBIED600_Rev1_SPS_e	Enable signal for voltage dependent lower start value	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
CtlMod	ABBIED600_Rev4_ENG_SP_CtlMod_e	Control mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases	E	ABBIED600:2014

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		required for operate activation		
LoStrVal	ABBIED600_Rev8_ASG_SG_i_e	Lower start value based on voltage control	E	ABBIED600:2014
VHiLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage high limit for voltage control	E	ABBIED600:2014
VLoLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage low limit for voltage control	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EffStrVal	ABBIED600_Rev7_WYE_threephase_simple_i_e	Calculated effective start value	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.461 LN: PHPVOC4 Name: PVOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		

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Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014

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InEnaLoLim	ABBIED600_Rev1_SPS_e	Enable signal for voltage dependent lower start value	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
CtlMod	ABBIED600_Rev4_ENG_SP_CtlMod_e	Control mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
LoStrVal	ABBIED600_Rev8_ASG_SG_i_e	Lower start value based on voltage control	E	ABBIED600:2014
VHiLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage	E	ABBIED600:2014

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		high limit for voltage control		
VLoLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage low limit for voltage control	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling the start value	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EffStrVal	ABBIED600_Rev7_WYE_threephase_simple_i_e	Calculated effective start value	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

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5.2.462 LN: PHPVOC5 Name: PVOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
TmACrv	ABBIED600_Rev7_CURVE_SG_Sub2	Operating Curve Type		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate		

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		Delay Time		
TypRsCrv	ABBIED600_Rev3_ENG_SG_TypRsCrv	Type of Reset Curve		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
InEnaMult	ABBIED600_Rev1_SPS_e	Enable signal for current multiplier	E	ABBIED600:2014
InEnaLoLim	ABBIED600_Rev1_SPS_e	Enable signal for voltage dependent lower start value	E	ABBIED600:2014
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub2_e	Measuring mode	E	ABBIED600:2014
CtlMod	ABBIED600_Rev4_ENG_SP_CtlMod_e	Control mode	E	ABBIED600:2014

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NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
LoStrVal	ABBIED600_Rev8_ASG_SG_i_e	Lower start value based on voltage control	E	ABBIED600:2014
VHiLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage high limit for voltage control	E	ABBIED600:2014
VLoLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage low limit for voltage control	E	ABBIED600:2014
StrValMult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for scaling	E	ABBIED600:2014

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		the start value		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EffStrVal	ABBIED600_Rev7_WYE_threephase_simple_i_e	Calculated effective start value	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.463 LN: CNUPTOV1 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate		

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		delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Terminal voltage selection	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdUnb	ABBIED600_Rev3_SPC_control_e	Record natural unbalance voltage	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		
OpUnbV	ABBIED600_Rev7_MV_simple_i_e	Operating unbalance voltage	E	ABBIED600:2014

5.2.464 LN: CNUMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PhV	ABBIED600_Rev5_WYE_res_neut_simple_angle_i	Phase to ground voltages		
UnbV	ABBIED600_Rev7_WYE_neut_simple_angle_i_e	Standing unbalance compensation	E	ABBIED600:2014

5.2.465 LN: CNUPTOV2 Name: PTOV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Terminal voltage selection	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
RcdUnb	ABBIED600_Rev3_SPC_control_e	Record natural	E	ABBIED600:2014,status-only,direct-with-normal-security

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		unbalance voltage		
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014
OpUnbV	ABBIED600_Rev7_MV_simple_i_e	Operating unbalance voltage	E	ABBIED600:2014

5.2.466 LN: CNUMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PhV	ABBIED600_Rev5_WYE_res_neut_simple_angle_i	Phase to ground voltages		
UnbV	ABBIED600_Rev7_WYE_neut_simple_angle_i_e	Standing unbalance compensation	E	ABBIED600:2014

5.2.467 LN: COL1PTOC1 Name: PTOC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time Dial Multiplier		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time	E	ABBIED600:2014

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		/ operate time		
PkIAPhA	ABBIED600_Rev7_MV_simple_i_e	Peak value of integrated current phase A	E	ABBIED600:2014
PkIAPhB	ABBIED600_Rev7_MV_simple_i_e	Peak value of integrated current phase B	E	ABBIED600:2014
PkIAPhC	ABBIED600_Rev7_MV_simple_i_e	Peak value of integrated current phase C	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub3_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.468 LN: COL2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required for operate activation	E	ABBIED600:2014

5.2.469 LN: COLPTUC1 Name: PTUC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
InhRec	ABBIED600_Rev1_SPS_e	Inhibit reclose (status)	E	ABBIED600:2014
EnaUnCur	ABBIED600_Rev2_SPG_SP_e	Enable under current functionality	E	ABBIED600:2014
RecInhMod	ABBIED600_Rev3_ENG_SP_TrOutMod_Sub1_e	Reconnection inhibit mode	E	ABBIED600:2014
RecInhTms	ABBIED600_Rev2_ING_SG_e	Reclose inhibit time	E	ABBIED600:2014
LORs	ABBIED600_Rev3_SPC_control_e	Reset lockout inhibit reconnection	E	ABBIED600:2014,status-only,direct-with-normal-security
InPosCls	ABBIED600_Rev1_SPS_e	Input showing the status of capacitor circuit breaker	E	ABBIED600:2014

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5.2.470 LN: CUB1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O /E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Alar m start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Alar m de-lay time		
FailCnt	ABBIED600_Rev3_INC_control_int_e	Total num-ber of capa-citor ele-ment failu-res	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity
CntBr1P hsA	ABBIED600_Rev3_INC_control_int_e	Capa-citor ele-ment failu-res in branc h1 of	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity

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		phase A		
CntBr2PhsA	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch2 of phase A	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr1PhsB	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch1 of phase B	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr2PhsB	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch2 of phase B	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr1PhsC	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch1 of phase C	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr2PhsC	ABBIED600_Rev3_INC_control_int_e	Capacitor element	E	ABBIED600:2014, status-only,direct-with-normal-security

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		failures in branch2 of phase C		
CntRs	ABBIED600_Rev3_SPC_control_e	Reset all counters	E	ABBIED600:2014, status-only,direct-with-normal-security
FailCntLim	ABBIED600_Rev2_ING_SG_e	Maximum permissible element failures	E	ABBIED600:2014
NatCompEna	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation	E	ABBIED600:2014
RcdUnb	ABBIED600_Rev3_SPC_control_e	Record natural Unbalance current	E	ABBIED600:2014, status-only,direct-with-normal-security
UnbAlmMod	ABBIED600_Rev2_ENG_SG_CubAlmMod_e	Alarm mode	E	ABBIED600:2014
FuLoct	ABBIED600_Rev2_ENG_SG_FuLoct_e	Capacitor bank fuse location	E	ABBIED600:2014
NatUnbCur	ABBIED600_Rev3_WYE_neut_simpler_angle_i_e	Natural	E	ABBIED600:2014

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		unbalance current		
CompUnbCur	ABBIED600_Rev3_WYE_neut_simpler_angle_i_e	Compensated unbalance current	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security

5.2.471 LN: CUB2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_setCharact_SP_setParABCE	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dail		

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		multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600: 2014

5.2.472 LN: CUB1PTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Alar m start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Alar m de-lay time		
FailCnt	ABBIED600_Rev3_INC_control_int_e	Total num-ber of capa-citor ele-ment failu-res	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity
CntBr1P hsA	ABBIED600_Rev3_INC_control_int_e	Capa-citor ele-ment failu-res in branc h1 of phase A	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity
CntBr2P hsA	ABBIED600_Rev3_INC_control_int_e	Capa-citor ele-ment failu-res in branc h2 of phase A	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity
CntBr1P hsB	ABBIED600_Rev3_INC_control_int_e	Capa-citor ele-ment	E	ABBIED600:2014, status-only,direct-with-normal-secu-rity

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		failures in branch1 of phase B		
CntBr2PhsB	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch2 of phase B	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr1PhsC	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch1 of phase C	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr2PhsC	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch2 of phase C	E	ABBIED600:2014, status-only,direct-with-normal-security
CntRs	ABBIED600_Rev3_SPC_control_e	Reset all counters	E	ABBIED600:2014, status-only,direct-with-normal-security
FailCntLim	ABBIED600_Rev2_ING_SG_e	Maximum permissible element	E	ABBIED600:2014

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		failures		
NatCompEna	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation	E	ABBIED600:2014
RcdUnb	ABBIED600_Rev3_SPC_control_e	Record natural Unbalance current	E	ABBIED600:2014, status-only,direct-with-normal-security
UnbAlmMod	ABBIED600_Rev2_ENG_SG_CubAlmMod_e	Alarm mode	E	ABBIED600:2014
FuLoct	ABBIED600_Rev2_ENG_SG_FuLoct_e	Capacitor bank fuse location	E	ABBIED600:2014
NatUnbCur	ABBIED600_Rev3_WYE_neut_simpler_angle_i_e	Natural unbalance current	E	ABBIED600:2014
CompUnbCur	ABBIED600_Rev3_WYE_neut_simpler_angle_i_e	Compensated unbalance current	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security

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5.2.473 LN: CUB2PTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_setCharact_SP_setParABCE	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dail multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset		

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		delay time		
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600: 2014

5.2.474 LN: CUB1PTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Alarm start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
FailCnt	ABBIED600_Rev3_INC_control_int_e	Total number of	E	ABBIED600:2014, status-only,direct-with-normal-security

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		capacitor element failures		
CntBr1PhsA	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch1 of phase A	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr2PhsA	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch2 of phase A	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr1PhsB	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch1 of phase B	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr2PhsB	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch2 of phase B	E	ABBIED600:2014, status-only,direct-with-normal-security

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CntBr1PhsC	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch1 of phase C	E	ABBIED600:2014, status-only,direct-with-normal-security
CntBr2PhsC	ABBIED600_Rev3_INC_control_int_e	Capacitor element failures in branch2 of phase C	E	ABBIED600:2014, status-only,direct-with-normal-security
CntRs	ABBIED600_Rev3_SPC_control_e	Reset all counters	E	ABBIED600:2014, status-only,direct-with-normal-security
FailCntLim	ABBIED600_Rev2_ING_SG_e	Maximum permissible element failures	E	ABBIED600:2014
NatCompEna	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation	E	ABBIED600:2014
RcdUnb	ABBIED600_Rev3_SPC_control_e	Record natural Unbalance	E	ABBIED600:2014, status-only,direct-with-normal-security

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		current		
UnbAlmMod	ABBIED600_Rev2_ENG_SG_CubAlmMod_e	Alarm mode	E	ABBIED600:2014
FuLoct	ABBIED600_Rev2_ENG_SG_FuLoct_e	Capacitor bank fuse location	E	ABBIED600:2014
NatUnbCur	ABBIED600_Rev3_WYE_neut_simpler_angle_i_e	Natural unbalance current	E	ABBIED600:2014
CompUnbCur	ABBIED600_Rev3_WYE_neut_simpler_angle_i_e	Compensated unbalance current	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security

5.2.475 LN: CUB2PTOC3 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_setCharact_SP_setParABCE	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dail multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600: 2014

5.2.476 LN: HCUB1PTOC1 Name: PTOC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Alarm start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
CompEnaPhsA	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph A	E	ABBIED600:2014
CompEnaPhsB	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance	E	ABBIED600:2014

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		compensation ph B		
CompEnaPhsC	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph C	E	ABBIED600:2014
UnbRcdPh	ABBIED600_Rev2_ENC_RcdUnbPh_e	Record natural Unbalance current	E	ABBIED600:2014,status-only,direct-with-normal-security
NatUnbCur	ABBIED600_Rev3_WYE_4_1_e	Natural unbalance current	E	ABBIED600:2014
CompUnbCur	ABBIED600_Rev3_WYE_4_1_e	Compensated unbalance current	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.477 LN: HCUB2PTOC1 Name: PTOC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_setCharact_SP_setParABCE	Operating curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dail multiplier		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum operate time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.478 LN: HCUB1PTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Alarm start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
CompEnaPhsA	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance	E	ABBIED600:2014

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		compensation ph A		
CompEnaPhsB	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph B	E	ABBIED600:2014
CompEnaPhsC	ABBIED600_Rev1_SPG_SG_e	Enable natural unbalance compensation ph C	E	ABBIED600:2014
UnbRcdPh	ABBIED600_Rev2_ENC_RcdUnbPh_e	Record natural Unbalance current	E	ABBIED600:2014,status-only,direct-with-normal-security
NatUnbCur	ABBIED600_Rev3_WYE_4_1_e	Natural unbalance current	E	ABBIED600:2014
CompUnbCur	ABBIED600_Rev3_WYE_4_1_e	Compensated unbalance current	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.479 LN: HCUB2PTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev6_CURVE_SG_setCharact_SP_setParABCE	Ope-ra-ting curve type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
TmMult	ABBIED600_Rev8_ASG_SG_i	Time dail mul-tip-lier		
MinOpTms	ABBIED600_Rev2_ING_SP_1	Mi-ni-mum ope-rate time		

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OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600: 2014

5.2.480 LN: SRC1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

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StrVal	ABBIED600_Rev8_ASG_SG_i	Start Value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
TunHNum	ABBIED600_Rev2_ING_SG_e	Tuning Harmonic Number	E	ABBIED600:2014
ResoA	ABBIED600_Rev7_WYE_threephase_simple_i_e	Resonance Current	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub28_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.481 LN: SRC2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behavior		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
InReso	ABBIED600_Rev1_SPS_simple_e	Input signal	E	ABBIED600:2014

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		from higher frequency resonance branch		

5.2.482 LN: PHIZ1 Name: PHIZ (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	PHIZ1		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Pos	ABBIED600_Rev5_DPC_simple	Position		status-only
PosCls	ABBIED600_Rev1_SPS_simple_e	Circuit Breaker Closed input	E	ABBIED600:2014
PosOpn	ABBIED600_Rev1_SPS_simple_e	Circuit Breaker Open input	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub5_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
SysTyp	ABBIED600_Rev3_ENG_SP_PHIZMod_e	System Type	E	ABBIED600:2014
SecLev	ABBIED600_Rev2_ING_SG_e	Security Level	E	ABBIED600:2014

5.2.483 LN: MLPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate signal from low (stabilized) stage		
Blk	ABBIED600_Rev1_SPS_simple	Blocks operate outputs from biased stage		
DifAClc	ABBIED600_Rev7_WYE_threephase_simple_i	Differential Current		
RstA	ABBIED600_Rev7_WYE_threephase_simple_i	Restraint current		

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LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub15_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
BlkIntnSt	ABBIED600_Rev1_ACT_threephase_e	Status from waveform blocking	E	ABBIED600:2014
SpeScn2	ABBIED600_Rev8_ASG_SG_i_e	Slope section 2	E	ABBIED600:2014
SpeScn3	ABBIED600_Rev8_ASG_SG_i_e	Slope section 3	E	ABBIED600:2014
AngLinAB	ABBIED600_Rev7_MV_simple_i_e	Current phase angle phase A to B, line side	E	ABBIED600:2014
AngLinBC	ABBIED600_Rev7_MV_simple_i_e	Current phase angle phase B to C, line side	E	ABBIED600:2014
AngLinCA	ABBIED600_Rev7_MV_simple_i_e	Current phase angle phase C to A, line side	E	ABBIED600:2014

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Ang-NeutAB	ABBIED600_Rev7_MV_simple_i_e	Current phase angle phase A to B, neutral side	E	ABBIED600:2014
Ang-NeutBC	ABBIED600_Rev7_MV_simple_i_e	Current phase angle phase B to C, neutral side	E	ABBIED600:2014
Ang-NeutCA	ABBIED600_Rev7_MV_simple_i_e	Current phase angle phase C to A, neutral side	E	ABBIED600:2014
AngLin-NeutA	ABBIED600_Rev7_MV_simple_i_e	Current phs angle diff between line and neutral, phase A	E	ABBIED600:2014
AngLin-NeutB	ABBIED600_Rev7_MV_simple_i_e	Current phs angle diff between line and neutral,	E	ABBIED600:2014

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		phase B		
AngLinNeutC	ABBIED600_Rev7_MV_simple_i_e	Current phs angle diff between line and neutral, phase C	E	ABBIED600:2014
EndScn1	ABBIED600_Rev8_ASG_SG_i_e	End section 1	E	ABBIED600:2014
EndScn2	ABBIED600_Rev8_ASG_SG_i_e	End section 2	E	ABBIED600:2014
CTConnTyp	ABBIED600_Rev3_ENG_SP_CTConnTyp_e	CT connection type	E	ABBIED600:2014
EnaDCBias	ABBIED600_Rev1_SPG_SG_e	Setting for enabling DC bias	E	ABBIED600:2014
CTRatCor1	ABBIED600_Rev8_ASG_SP_i_e	CT ratio correction, line side	E	ABBIED600:2014
CTRatCor2	ABBIED600_Rev8_ASG_SP_i_e	CT ratio correction, neutral side	E	ABBIED600:2014

5.2.484 LN: H3EFPTRC1 Name: PTRC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub9_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.485 LN: H3EFPTDV1 Name: PTDV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007

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BlkVal	ABBIED600_Rev8_ASG_SP_i_e	Low level blocking for 3rd harmonic differential protection	E	IEC 61850-7-4:2007
Beta	ABBIED600_Rev8_ASG_SG_i_e	Portion of neutral side 3rd harmonic used as bias	E	ABBIED600:2014
TermVSel	ABBIED600_Rev4_ENG_SG_TermVSel_e	Type of voltage connection availabl e at generator terminal	E	ABBIED600:2014
CBOpnFact	ABBIED600_Rev8_ASG_SG_i_e	Multiplication factor for beta when CB is in open condition	E	ABBIED600:2014
GnCBUsed	ABBIED600_Rev2_SPG_SP_e	Defines if generator circuit breaker exists	E	ABBIED600:2014
BlkIntnSt	ABBIED600_Rev1_ACT_simple_e	Protection internally blocked	E	ABBIED600:2014
Dif3HV	ABBIED600_Rev7_MV_simple_i_e	3rd harmonic	E	ABBIED600:2014

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		differential voltage amplitude		
Bias3HV	ABBIED600_Rev7_MV_simple_i_e	3rd harmonic bias voltage amplitude	E	ABBIED600:2014
Term3HV	ABBIED600_Rev7_MV_simple_i_e	Terminal side 3rd harmonic voltage amplitude	E	ABBIED600:2014
Neut3HV	ABBIED600_Rev7_MV_simple_i_e	Neutral side 3rd harmonic voltage amplitude	E	ABBIED600:2014
Ang3HVTerN	ABBIED600_Rev7_MV_simple_i_e	3rd Harm voltage angle between terminal and neutral	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014
InGnCBPos	ABBIED600_Rev1_SPS_e	Generator CB position	E	ABBIED600:2014

5.2.486 LN: H3EFPTUV1 Name: PTUV (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
TermVSel	ABBIED600_Rev4_ENG_SG_TermVSel_e	Type of voltage connection availabl e at generator terminal	E	ABBIED600:2014
Neut3HV	ABBIED600_Rev7_MV_simple_i_e	Neutral side 3rd harmonic voltage amplitude	E	ABBIED600:2014

5.2.487 LN: DPSRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		

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MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional mode	E	IEC 61850-7-4:2007
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angl	E	ABBIED600:2014

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		e and cha-rac-teris-tic angl e		
RelDlTm ms	ABBIED600_Rev2_ING_SG_e	Re-lease de-lay time	E	ABBIED600:2014
RsDlTm ms	ABBIED600_Rev2_ING_SP_1_e	Re-set de-lay time	E	IEC 61850-7-4:2007
TestProRl	ABBIED600_Rev13_ENC_TestProRl _Sub4_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security

5.2.488 LN: DPSRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viou r		
Dir	ABBIED600_Rev1_ACD_simple	Di-rec-tion		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Cha-rac-teris-tic angl e		

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MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		

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BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional mode	E	IEC 61850-7-4:2007
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
RelDlTmms	ABBIED600_Rev2_ING_SG_e	Release	E	ABBIED600:2014

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		de-lay time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1_e	Re-set de-lay time	E	IEC 61850-7-4:2007
TestProRl	ABBIED600_Rev13_ENC_TestProRl _Sub4_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security

5.2.489 LN: DPSRDIR3 Name: RDIR (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viou r		
Dir	ABBIED600_Rev1_ACD_simple	Di-rec-tion		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Cha-rac-teris-tic angl e		
MinFw-dAng	ABBIED600_Rev8_ASG_SG_i	Mi-ni-mum phas e angl e in for-ward		

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		direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate		

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		voltage		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional mode	E	IEC 61850-7-4:2007
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
RelDlTms	ABBIED600_Rev2_ING_SG_e	Release delay time	E	ABBIED600:2014
RsDlTms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007

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TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.490 LN: DPSRDIR4 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angl		

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		e in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Min operate current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Min operate voltage		
Blk	ABBIED600_Rev1_SPS	Block signal for all		

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		binary outputs		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Directional mode	E	IEC 61850-7-4:2007
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating angle and characteristic angle	E	ABBIED600:2014
RelDlTms	ABBIED600_Rev2_ING_SG_e	Release delay time	E	ABBIED600:2014
RsDlTms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.491 LN: DNZSRDIR1 Name: RDIR (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viou r		
Blk	ABBIED600_Rev1_SPS	Bloc k sig-nal for all bi-nary out-puts		
Dir	ABBIED600_Rev1_ACD_simple	Di-rec-tion in-for-ma-tion		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Cha-rac-teris-tic angl e		
MinFw-dAng	ABBIED600_Rev8_ASG_SG_i	Mi-ni-mum phas e angl e in for-ward di-rec-tion		

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MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum		

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		operating voltage		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Direction mode	E	IEC 61850-7-4:2007
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and characteristic angle	E	ABBIED600:2014
RelDlTms	ABBIED600_Rev2_ING_SG_e	Release delay time	E	ABBIED600:2014
RsDlTms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007

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TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for polarization signal	E	ABBIED600:2014
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		

5.2.492 LN: DNZSRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
Dir	ABBIED600_Rev1_ACD_simple	Direction information		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in		

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		reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		

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DirMod	ABBIED600_Rev3_ENG_SG_DirMod_e	Direction mode	E	IEC 61850-7-4:2007
ChrAngCtl	ABBIED600_Rev1_SPS_e	Relay characteristic angle control	E	ABBIED600:2014
OpChrAng	ABBIED600_Rev7_MV_simple_i_e	Angle between operating and characteristic angle	E	ABBIED600:2014
RelDlTms	ABBIED600_Rev2_ING_SG_e	Release delay time	E	ABBIED600:2014
RsDlTms	ABBIED600_Rev2_ING_SP_1_e	Reset delay time	E	IEC 61850-7-4:2007
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

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RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for polarization signal	E	ABBIED600:2014
PolQty	ABBIED600_Rev2_ENG_SP_PolQty_Sub1	Polarizing quantity		

5.2.493 LN: DPPDUP1 Name: PDUP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal		

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		for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
OpDlTms	ABBIED600_Rev2_ING_SG_time	Ope-rate de-lay time		
RsDlTms	ABBIED600_Rev2_ING_SP	Re-set de-lay time		
PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Mea sure-ment mod e for po-wer cal-cula-tion	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Ro-tate pola-ri-zing quan tity	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security

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StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
InDsaSt	ABBIED600_Rev1_SPS_e	Signal to block the function during generator startup	E	ABBIED600:2014
DsaTmms	ABBIED600_Rev2_ING_SP_time_e	Additional wait time after CB closing	E	ABBIED600:2014

5.2.494 LN: DPMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TotW	ABBIED600_Rev7_MV_simple_i	Total active power (Total P)		
TotVAr	ABBIED600_Rev7_MV_simple_i	Total reactive power (Total Q)		

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TotVA	ABBIED600_Rev7_MV_simple_i	Total apparent power (Total S)		
TotPFAng	ABBIED600_Rev7_MV_simple_i_e	Angle between apparent power and active power	E	ABBIED600:2014

5.2.495 LN: DPPDUP2 Name: PDUP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_time	Operate delay time		

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RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
InDsaSt	ABBIED600_Rev1_SPS_e	Signal to block the function during generator startup	E	ABBIED600:2014

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DsaTmms	ABBIED600_Rev2_ING_SP_time_e	Additional wait time after CB closing	E	ABBIED600:2014

5.2.496 LN: DPMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TotW	ABBIED600_Rev7_MV_simple_i	Total active power (Total P)		
TotVAr	ABBIED600_Rev7_MV_simple_i	Total reactive power (Total Q)		
TotVA	ABBIED600_Rev7_MV_simple_i	Total apparent power (Total S)		
TotPFAng	ABBIED600_Rev7_MV_simple_i_e	Angle between apparent power and active power	E	ABBIED600:2014

5.2.497 LN: DPPDUP3 Name: PDUP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_time	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate	E	ABBIED600:2014

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		polarizing quantity		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
InDsaSt	ABBIED600_Rev1_SPS_e	Signal to block the function during generator startup	E	ABBIED600:2014
DsaTmms	ABBIED600_Rev2_ING_SP_time_e	Additional wait time after CB closing	E	ABBIED600:2014

5.2.498 LN: DPMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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TotW	ABBIED600_Rev7_MV_simple_i	Total active power (Total P)		
TotVAr	ABBIED600_Rev7_MV_simple_i	Total reactive power (Total Q)		
TotVA	ABBIED600_Rev7_MV_simple_i	Total apparent power (Total S)		
TotPFAng	ABBIED600_Rev7_MV_simple_i_e	Angle between apparent power and active power	E	ABBIED600:2014

5.2.499 LN: DPPDOP1 Name: PDOP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Directional mode		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_time	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
PwrAng	ABBIED600_Rev8_ASG_SG_i_e	Power angle	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		
StrDur	ABBIED600_Rev7_MV_2_e	Ra-tio of start time / ope-rate time	E	ABBIED600:2014

5.2.500 LN: DOPMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
TotW	ABBIED600_Rev7_MV_simple_i	Total active power (Total P)		
TotVAr	ABBIED600_Rev7_MV_simple_i	Total reactive power (Total Q)		
TotVA	ABBIED600_Rev7_MV_simple_i	Total apparent power (Total S)		
TotPFAng	ABBIED600_Rev7_MV_simple_i_e	Angle between apparent power and ac-tive po-wer	E	ABBIED600:2014

5.2.501 LN: DPPDOP2 Name: PDOP (ED2)

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Attribute name	Attribute type	Ex-planation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-haviour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Di-rec-ti-onal mode		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
OpDlTms	ABBIED600_Rev2_ING_SG_time	Ope-rate de-lay time		
RsDlTms	ABBIED600_Rev2_ING_SP	Re-set de-lay time		
PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Mea sure-ment mod	E	ABBIED600:2014

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		e for power calculation		
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
PwrAng	ABBIED600_Rev8_ASG_SG_i_e	Power angle	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.502 LN: DOPMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TotW	ABBIED600_Rev7_MV_simple_i	Total active power (Total P)		

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TotVAr	ABBIED600_Rev7_MV_simple_i	Total reactive power (Total Q)		
TotVA	ABBIED600_Rev7_MV_simple_i	Total apparent power (Total S)		
TotPFAng	ABBIED600_Rev7_MV_simple_i_e	Angle between apparent power and active power	E	ABBIED600:2014

5.2.503 LN: DPPDOP3 Name: PDOP (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		

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DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Directional mode		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG_time	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
PwrAng	ABBIED600_Rev8_ASG_SG_i_e	Power angle	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.504 LN: DOPMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TotW	ABBIED600_Rev7_MV_simple_i	Total active power (Total P)		
TotVAr	ABBIED600_Rev7_MV_simple_i	Total reactive power (Total Q)		
TotVA	ABBIED600_Rev7_MV_simple_i	Total apparent power (Total S)		
TotPFAng	ABBIED600_Rev7_MV_simple_i_e	Angle between apparent power and active power	E	ABBIED600:2014

5.2.505 LN: UZPDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
PoRch	ABBIED600_Rev8_ASG_SG_i	Radius of the origin centric circle		
Ofs	ABBIED600_Rev8_ASG_SG_i	Offset of the Mho circle		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_e	Selects used measurement mode	E	ABBIED600:2014
ZMeasMod	ABBIED600_Rev3_ENG_SP_ZMeasMod_e	Measurement mode for	E	ABBIED600:2014

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		impedance calculation		
PhSelZCl c	ABBIED600_Rev3_ENG_SP_VPhSel_e	Voltage phase selection	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OfsEna	ABBIED600_Rev1_SPG_SG_e	Offset enable	E	ABBIED600:2014
Dsp	ABBIED600_Rev8_ASG_SG_i_e	Displacement of the impedance Mho circle	E	ABBIED600:2014

5.2.506 LN: UZMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ZPP	ABBIED600_Rev7_DEL_5_simpler_e	Phase to phase impedance	E	ABBIED600:2014

5.2.507 LN: UZPDIS2 Name: PDIS (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS	Block signal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
PoRch	ABBIED600_Rev8_ASG_SG_i	Ra-dius of the origin cent-ric circle		
Ofs	ABBIED600_Rev8_ASG_SG_i	Off-set of the Mho circle		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
RsDlTm ms	ABBIED600_Rev2_ING_SP	Reset delay time		
AMeas-Mod	ABBIED600_Rev4_ENG_SP_Meas Mod_e	Se-lects used mea-sure-ment mode	E	ABBIED600:2014

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ZMeas-Mod	ABBIED600_Rev3_ENG_SP_ZMeasMod_e	Mea-sure-ment mode for impe-dance calcu-lation	E	ABBIED600:2014
PhSelZCl c	ABBIED600_Rev3_ENG_SP_VPhSel_e	Vol-tage phase selec-tion	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Start dura-tion	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security
OfsEna	ABBIED600_Rev1_SPG_SG_e	Off-set enabl e	E	ABBIED600:2014
Dsp	ABBIED600_Rev8_ASG_SG_i_e	Displ ace-ment of the impe-dance Mho circle	E	ABBIED600:2014

5.2.508 LN: UZMMXU2 Name: MMXU (ED2)

Attri-bute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		

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ZPP	ABBIED600_Rev7_DEL_5_simpler_e	Phase to phase im-pedance	E	ABBIED600:2014

5.2.509 LN: UZPDIS3 Name: PDIS (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Blk	ABBIED600_Rev1_SPS	Block signal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
PoRch	ABBIED600_Rev8_ASG_SG_i	Ra-dius of the origin cent-ric circle		
Ofs	ABBIED600_Rev8_ASG_SG_i	Off-set of the Mho circle		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate delay time		
RsDlTm ms	ABBIED600_Rev2_ING_SP	Reset delay time		
AMeas-Mod	ABBIED600_Rev4_ENG_SP_Meas Mod_e	Se-lects	E	ABBIED600:2014

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		used measurement mode		
ZMeasMod	ABBIED600_Rev3_ENG_SP_ZMeasMod_e	Measurement mode for impedance calculation	E	ABBIED600:2014
PhSelZCl c	ABBIED600_Rev3_ENG_SP_VPhSel_e	Voltage phase selection	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Start duration	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OfsEna	ABBIED600_Rev1_SPG_SG_e	Offset enable	E	ABBIED600:2014
Dsp	ABBIED600_Rev8_ASG_SG_i_e	Displacement of the impedance Mho circle	E	ABBIED600:2014

5.2.510 LN: UZMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ZPP	ABBIED600_Rev7_DEL_5_simpler_e	Phase to phase impedance	E	ABBIED600:2014

5.2.511 LN: LVRTPTUV1 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmVChr33	ABBIED600_Rev4_CSG_SP_10	Multiline curve characteristic		

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		definition		
NumPt	ABBIED600_Rev2_ING_SP_1_e	Coordinates used for defining LVRT curve	E	ABBIED600:2014
CrvPt0Tmms	ABBIED600_Rev2_ING_SP_1_e	1st time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt1Tmms	ABBIED600_Rev2_ING_SP_1_e	2nd time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt2Tmms	ABBIED600_Rev2_ING_SP_1_e	3rd time coordinate for defining LVRT	E	ABBIED600:2014

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		curve		
CrvPt3Tms	ABBIED600_Rev2_ING_SP_1_e	4th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt4Tms	ABBIED600_Rev2_ING_SP_1_e	5th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt5Tms	ABBIED600_Rev2_ING_SP_1_e	6th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt6Tms	ABBIED600_Rev2_ING_SP_1_e	7th time coordinate for defining LVRT	E	ABBIED600:2014

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		curve		
CrvPt7Tmms	ABBIED600_Rev2_ING_SP_1_e	8th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt8Tmms	ABBIED600_Rev2_ING_SP_1_e	9th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt9Tmms	ABBIED600_Rev2_ING_SP_1_e	10th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt0Ydir	ABBIED600_Rev8_ASG_SP_i_e	1st voltage coordinate for defining LVR	E	ABBIED600:2014

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		T curve		
CrvPt1Ydir	ABBIED600_Rev8_ASG_SP_i_e	2nd voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt2Ydir	ABBIED600_Rev8_ASG_SP_i_e	3rd voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt3Ydir	ABBIED600_Rev8_ASG_SP_i_e	4th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt4Ydir	ABBIED600_Rev8_ASG_SP_i_e	5th voltage coordinate	E	ABBIED600:2014

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		for defining LVRT curve		
CrvPt5Ydir	ABBIED600_Rev8_ASG_SP_i_e	6th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt6Ydir	ABBIED600_Rev8_ASG_SP_i_e	7th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt7Ydir	ABBIED600_Rev8_ASG_SP_i_e	8th voltage coordinate for defining LVRT curve	E	ABBIED600:2014

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CrvPt8Ydir	ABBIED600_Rev8_ASG_SP_i_e	9th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt9Ydir	ABBIED600_Rev8_ASG_SP_i_e	10th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub2_e	Number of phases required for operate activation	E	ABBIED600:2014
VCrtSel	ABBIED600_Rev2_ENG_SP_VCrtSel_e	Voltage criteria selection	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.512 LN: LVRTPTUV2 Name: PTUV (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmVChr33	ABBIED600_Rev4_CSG_SP_10	Multiline curve characteristic definition		

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NumPt	ABBIED600_Rev2_ING_SP_1_e	Coordinates used for defining LVRT curve	E	ABBIED600:2014
CrvPt0Tmms	ABBIED600_Rev2_ING_SP_1_e	1st time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt1Tmms	ABBIED600_Rev2_ING_SP_1_e	2nd time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt2Tmms	ABBIED600_Rev2_ING_SP_1_e	3rd time coordinate for defining LVRT curve	E	ABBIED600:2014

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CrvPt3Tmms	ABBIED600_Rev2_ING_SP_1_e	4th time coor-di-nate for defi-ning LVRT curve	E	ABBIED600:2014
CrvPt4Tmms	ABBIED600_Rev2_ING_SP_1_e	5th time coor-di-nate for defi-ning LVRT curve	E	ABBIED600:2014
CrvPt5Tmms	ABBIED600_Rev2_ING_SP_1_e	6th time coor-di-nate for defi-ning LVRT curve	E	ABBIED600:2014
CrvPt6Tmms	ABBIED600_Rev2_ING_SP_1_e	7th time coor-di-nate for defi-ning LVRT curve	E	ABBIED600:2014

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CrvPt7Tmms	ABBIED600_Rev2_ING_SP_1_e	8th time coor-di-nate for defi-ning LVRT curve	E	ABBIED600:2014
CrvPt8Tmms	ABBIED600_Rev2_ING_SP_1_e	9th time coor-di-nate for defi-ning LVRT curve	E	ABBIED600:2014
CrvPt9Tmms	ABBIED600_Rev2_ING_SP_1_e	10th time coor-di-nate for defi-ning LVRT curve	E	ABBIED600:2014
CrvPt0Ydir	ABBIED600_Rev8_ASG_SP_i_e	1st vol-tage coor-di-nate for defi-ning LVRT	E	ABBIED600:2014

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		curve		
CrvPt1Ydir	ABBIED600_Rev8_ASG_SP_i_e	2nd voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt2Ydir	ABBIED600_Rev8_ASG_SP_i_e	3rd voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt3Ydir	ABBIED600_Rev8_ASG_SP_i_e	4th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt4Ydir	ABBIED600_Rev8_ASG_SP_i_e	5th voltage coordinate for	E	ABBIED600:2014

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		defining LVRT curve		
CrvPt5Ydir	ABBIED600_Rev8_ASG_SP_i_e	6th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt6Ydir	ABBIED600_Rev8_ASG_SP_i_e	7th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt7Ydir	ABBIED600_Rev8_ASG_SP_i_e	8th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt8Ydir	ABBIED600_Rev8_ASG_SP_i_e	9th voltage	E	ABBIED600:2014

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		coordinate for defining LVRT curve		
CrvPt9Ydir	ABBIED600_Rev8_ASG_SP_i_e	10th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub2_e	Number of phases required for operate activation	E	ABBIED600:2014
VCrtSel	ABBIED600_Rev2_ENG_SP_VCrtSel_e	Voltage criteria selection	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		

5.2.513 LN: LVRTPTUV3 Name: PTUV (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
TmVChr3 3	ABBIED600_Rev4_CSG_SP_10	Mul-tiline curv e cha-rac-teris-tic defi-ni-tion		
NumPt	ABBIED600_Rev2_ING_SP_1_e	Coor di-nates used	E	ABBIED600:2014

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		for defining LVRT curve		
CrvPt0Tms	ABBIED600_Rev2_ING_SP_1_e	1st time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt1Tms	ABBIED600_Rev2_ING_SP_1_e	2nd time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt2Tms	ABBIED600_Rev2_ING_SP_1_e	3rd time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt3Tms	ABBIED600_Rev2_ING_SP_1_e	4th time coordinate	E	ABBIED600:2014

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		for defining LVRT curve		
CrvPt4Tms	ABBIED600_Rev2_ING_SP_1_e	5th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt5Tms	ABBIED600_Rev2_ING_SP_1_e	6th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt6Tms	ABBIED600_Rev2_ING_SP_1_e	7th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt7Tms	ABBIED600_Rev2_ING_SP_1_e	8th time coordinate	E	ABBIED600:2014

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		for defining LVRT curve		
CrvPt8Tms	ABBIED600_Rev2_ING_SP_1_e	9th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt9Tms	ABBIED600_Rev2_ING_SP_1_e	10th time coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt0Ydir	ABBIED600_Rev8_ASG_SP_i_e	1st voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt1Ydir	ABBIED600_Rev8_ASG_SP_i_e	2nd voltage	E	ABBIED600:2014

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		coor-di-nate for defi-ning LVR T curv e		
CrvPt2Ydi r	ABBIED600_Rev8_ASG_SP_i_e	3rd vol-tage coor-di-nate for defi-ning LVR T curv e	E	ABBIED600:2014
CrvPt3Ydi r	ABBIED600_Rev8_ASG_SP_i_e	4th vol-tage coor-di-nate for defi-ning LVR T curv e	E	ABBIED600:2014
CrvPt4Ydi r	ABBIED600_Rev8_ASG_SP_i_e	5th vol-tage coor-di-nate for defi-ning LVR T	E	ABBIED600:2014

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		curve		
CrvPt5Ydir	ABBIED600_Rev8_ASG_SP_i_e	6th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt6Ydir	ABBIED600_Rev8_ASG_SP_i_e	7th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt7Ydir	ABBIED600_Rev8_ASG_SP_i_e	8th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
CrvPt8Ydir	ABBIED600_Rev8_ASG_SP_i_e	9th voltage coordinate for	E	ABBIED600:2014

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		defining LVRT curve		
CrvPt9Ydir	ABBIED600_Rev8_ASG_SP_i_e	10th voltage coordinate for defining LVRT curve	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub2_e	Number of phases required for operate activation	E	ABBIED600:2014
VCrtSel	ABBIED600_Rev2_ENG_SP_VCrtSel_e	Voltage criteria selection	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.514 LN: OOSRPSB1 Name: RPSB (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Str	ABBIED600_Rev1_ACD_simple	Po-wer swin g de-tec-ted		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate of out of step on zone 1 or zone 2		
BlkZn	ABBIED600_Rev1_SPS	Bloc k zone 1 out-put		
SwgTmm s	ABBIED600_Rev2_ING_SG_time	Swin g time		

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MaxNumSlp	ABBIED600_Rev2_ING_SG	Max number of slips before operating zone 1		
OpDlTmms	ABBIED600_Rev2_ING_SG_time_e	OOS operate delay time	E	IEC 61850-7-4:2007
PlsTmms	ABBIED600_Rev2_ING_SG_time_e	OOS operate drop out time	E	ABBIED600:2014
RsDlTmms	ABBIED600_Rev2_ING_SP_time_e	Reset delay time	E	IEC 61850-7-4:2007
Blk2Zn	ABBIED600_Rev1_SPS_e	Block zone 2 output	E	ABBIED600:2014
SwgOp	ABBIED600_Rev1_ACT_simple_e	Swing operate output	E	ABBIED600:2014
InDsaSt	ABBIED600_Rev2_SPC_simple_e	Disable input	E	ABBIED600:2014,status-only
MinPsSeqA	ABBIED600_Rev8_ASG_SP_i_e	Minimum I1	E	ABBIED600:2014

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MaxNg-SeqA	ABBIED600_Rev8_ASG_SP_i_e	Ma-xi-mum I2	E	ABBIED600:2014
CBOp-nTmms	ABBIED600_Rev2_ING_SP_time_e	Brea-ker open time	E	ABBIED600:2014
DsaTmms	ABBIED600_Rev2_ING_SP_time_e	Di-sable time	E	ABBIED600:2014
VRv	ABBIED600_Rev2_SPG_SP_e	Ro-tate vol-tage sig-nals	E	ABBIED600:2014
OoStepMod	ABBIED600_Rev2_ENG_SG_OpModOOS_e	Ope-ra-tion mode	E	ABBIED600:2014
FwdRch	ABBIED600_Rev8_ASG_SG_i_e	For-ward reach	E	ABBIED600:2014
RvRch	ABBIED600_Rev8_ASG_SG_i_e	Re-verse reach	E	ABBIED600:2014
Inn-rBldRis	ABBIED600_Rev8_ASG_SG_i_e	Inner blin-der at R axis	E	ABBIED600:2014
Out-rBldRis	ABBIED600_Rev8_ASG_SG_i_e	Ou-ter blin-der at R axis	E	ABBIED600:2014
ImpAng	ABBIED600_Rev8_ASG_SG_i_e	Im-pe-danc e angle	E	ABBIED600:2014
Zn1Rch	ABBIED600_Rev2_ING_SG_e	Zone 1 reach	E	ABBIED600:2014

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MaxNum2Slp	ABBIED600_Rev2_ING_SG_e	Max number of slips before operating zone 2	E	ABBIED600:2014
MaxNum3Slp	ABBIED600_Rev2_ING_SG_e	Max number of slips before operating zone 3	E	ABBIED600:2014
VDipTmms	ABBIED600_Rev2_ING_SG_time_e	Voltage dip time	E	ABBIED600:2014
Zn2Ena	ABBIED600_Rev1_SPG_SG_e	Enable zone 2 feature	E	ABBIED600:2014
Zn3Ena	ABBIED600_Rev1_SPG_SG_e	Enable zone 3 feature	E	ABBIED600:2014
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub10_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

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SlpCntZn1	ABBIED600_Rev1_INS_d_e	Zone 1 slip counter	E	ABBIED600:2014
SlpCntZn2	ABBIED600_Rev1_INS_d_e	Zone 2 slip counter	E	ABBIED600:2014
SlpCntZn3	ABBIED600_Rev1_INS_d_e	Zone 3 slip counter	E	ABBIED600:2014

5.2.515 LN: OOSMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ZPs	ABBIED600_Rev7_CMV_S_1_e	Positive sequence impedance	E	ABBIED600:2014

5.2.516 LN: MHZPDIF1 Name: PDIF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
DifAClc	ABBIED600_Rev7_WYE_threephase_simple_i	Differential current		
LoSet	ABBIED600_Rev8_ASG_SG_i	Low operate value, percentage of the nominal current		
MinOpTmms	ABBIED600_Rev2_ING_SG	Minimum operate time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.517 LN: CVPSOF1 Name: PSOF (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
InCBClsCmd	ABBIED600_Rev1_SPS_simple_e	External enabling of SOTF by CB close command	E	ABBIED600:2014
InStr	ABBIED600_Rev1_SPS_simple_e	Start from function to be accelerated by SOTF	E	ABBIED600:2014
InDlStr	ABBIED600_Rev1_SPS_simple_e	Start from function to be accelerated with	E	ABBIED600:2014

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		delay by SOTF		
Op	ABBIED600_Rev1_ACT_simple	Operate		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Phase current limit for dead line used for blocking		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Phase voltage limit for dead line used for blocking		
OpModSof	ABBIED600_Rev4_ENG_SP_OpModSOF	Operation mode setting		
AVDetTmms	ABBIED600_Rev2_ING_SP_e	Time delay for voltage and current based detection	E	ABBIED600:2014
EnaMod	ABBIED600_Rev2_ENG_SP_EnaSof_Sub1	Enabling mode setting		
EnaTmms	ABBIED600_Rev2_ING_SP	Time how long this		

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		function stays enabled		
DeaLinTmms	ABBIED600_Rev2_ING_SP_e	Delay time for activation of dead line detection	E	ABBIED600:2014
StrDlTmms	ABBIED600_Rev2_ING_SP_e	Delay for the delayed start input	E	IEC 61850-7-4:2007
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub5_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.518 LN: MRE1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behavior		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary		

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		out-puts		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Alar m delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Re-set delay time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.519 LN: MRE2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-vior		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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5.2.520 LN: MRE1PTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behavior		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Alarm delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub4_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.521 LN: MRE2PTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-vior		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.522 LN: GSL1PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn _FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Alar m		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Alar m delay time		
RsDlTm ms	ABBIED600_Rev2_ING_SP	Reset delay time		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
SelOpH	ABBIED600_Rev1_ENG_SG_SelOpH_Sub1_e	Select operating harmonic	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
ShftA	ABBIED600_Rev7_MV_2_e	Amplitude of the measured shaft current	E	ABBIED600:2014
ShftAH1	ABBIED600_Rev7_MV_2_e	Amplitude of the fundamental component of the	E	ABBIED600:2014

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		measured shaft current		
ShftAH3	ABBIED600_Rev7_MV_2_e	Amplitude of the third harmonic component of the measured shaft current	E	ABBIED600:2014
ShftAH5	ABBIED600_Rev7_MV_2_e	Amplitude of the fifth harmonic component of the measured shaft current	E	ABBIED600:2014

5.2.523 LN: GSL2PTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Beha-vior		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Str	ABBIED600_Rev1_ACD_simple	Start		
RsDlTmms	ABBIED600_Rev2_ING_SP	Reset delay time		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.524 LN: RPTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Expla-nation	M/O /E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block sig-nal for all binary outputs		
TmpRl	ABBIED600_Rev7_MV_simple_i	THERML EV		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AlmThm	ABBIED600_Rev1_SPS	Thermal Alarm		
ConsTms 1	ABBIED600_Rev2_ING_SG	Time constant normal		
ConsTms 2	ABBIED600_Rev2_ING_SG	Motor time constant during the start of motor		

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ConsTms3	ABBIED600_Rev2_ING_SG	Motor time constant during the standstill condition of motor		
AlmVal	ABBIED600_Rev8_ASG_SG_i	Alarm thermal value		
BlkThm	ABBIED600_Rev1_SPS	Restart inhibited		
DropoutVal	ABBIED600_Rev8_ASG_SG_i	Restart thermal Val		
ARef	ABBIED600_Rev8_ASG_SP_i_e	Rated current (FLC) of the motor	E	ABBIED600:2014
RsTmp	ABBIED600_Rev3_SPC_control_e	RPTTR1 temperature	E	ABBIED600:2014, status-only,direct-with-normal-security
WghFact	ABBIED600_Rev8_ASG_SG_i_e	Weighting factor	E	ABBIED600:2014
OvlFact	ABBIED600_Rev8_ASG_SG_i_e	Overload factor (k)	E	ABBIED600:2014
EnvTmpSet	ABBIED600_Rev8_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev8_ASG_SP_i_e	Initial thermal Val	E	ABBIED600:2014
EnvTmpMod	ABBIED600_Rev3_ENG_SG_EnvTmpMod_e	Mode of measuring ambient temperature	E	ABBIED600:2014
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	ABBIED600:2014

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TmpUsed	ABBIED600_Rev7_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014
TmpAmb	ABBIED600_Rev7_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
ThmLevStr	ABBIED600_Rev7_MV_simple_i_e	Thermal level at beginning of motor startup	E	ABBIED600:2014
ThmLevEnd	ABBIED600_Rev7_MV_simple_i_e	Thermal level at the end of motor startup situation	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev6_INS_Unit_e	Estimated time to reset of block restart	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub19_e	RPTTR1	E	ABBIED600:2014, status-only,direct-with-normal-security
RlStrTorq	ABBIED600_Rev8_ASG_SP_i_e	Relative starting torque	E	ABBIED600:2014
RlStrCur	ABBIED600_Rev8_ASG_SP_i_e	Relative starting current	E	ABBIED600:2014
StlInd	ABBIED600_Rev1_SPS_e	Stall indication	E	ABBIED600:2014
MotSynSpd	ABBIED600_Rev2_ING_SP_e	Motor synchronous speed	E	ABBIED600:2014
MotNomSpd	ABBIED600_Rev2_ING_SP_e	Motor nominal speed	E	ABBIED600:2014

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ARefUsed	ABBIED600_Rev7_MV_simple_ie	Adjusted Rated current (FLC) of the motor	E	ABBIED600:2014
SlpClcDlTm	ABBIED600_Rev7_ING_SP_Unit_e	Slip calculation delay	E	ABBIED600:2014

5.2.525 LN: MNSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev5_CURVE_SG_setCharact_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Machine time Mult		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
MaxOpTmms	ABBIED600_Rev2_ING_SP	Maximum		

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		Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrInh	ABBIED600_Rev1_SPS_e	Overheated machine reconnection blocking	E	IEC 61850-7-4:2007
ARef	ABBIED600_Rev8_ASG_SP_i_e	Rated current (Ir) of the machine (used only in the IDMT)	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of	E	ABBIED600:2014

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		start motor		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub25_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
ClTms	ABBIED600_Rev2_ING_SP_1_e	Cooling time	E	ABBIED600:2014
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	ABBIED600:2014

5.2.526 LN: MNSPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
TmACrv	ABBIED600_Rev5_CURVE_SG_setCharact_Sub2	Operating Curve Type		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
TmMult	ABBIED600_Rev8_ASG_SG_i	Machine		

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		time Mult		
MinOpTmms	ABBIED600_Rev2_ING_SP_1	Minimum Operate Time		
MaxOpTmms	ABBIED600_Rev2_ING_SP	Maximum Operate Time		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrInh	ABBIED600_Rev1_SPS_e	Overheated machine reconnection blocking	E	IEC 61850-7-4:2007
ARef	ABBIED600_Rev8_ASG_SP_i_e	Rated current (Ir) of the machine (used only in the IDMT)	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

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EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub25_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
ClTms	ABBIED600_Rev2_ING_SP_1_e	Cooling time	E	ABBIED600:2014
TmsRecEna	ABBIED600_Rev1_INS_e	Estimated time to reset of block restart	E	ABBIED600:2014

5.2.527 LN: DNSPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		

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OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Directional mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-	E	ABBIED600:2014

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		dir when dir info is invalid		

5.2.528 LN: DNSRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in forward direction		
MinRvAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in reverse direction		
MaxFwdAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in		

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		forward direction		
MaxRvAng	ABBIED600_Rev8_ASG_SG_i	Maximum phase angle in reverse direction		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Minimum operating current		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Minimum operating voltage		
OpQty	ABBIED600_Rev4_ENG_SG_NgZroOpMod_e	Operating quantity	E	ABBIED600:2014
PolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between neg sequence current and pol quantity	E	ABBIED600:2014
OpA	ABBIED600_Rev7_MV_simple_i_e	Operating current	E	ABBIED600:2014

5.2.529 LN: DNSPTOC2 Name: PTOC (ED2)

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Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start va-lue		
OpDlTm ms	ABBIED600_Rev2_ING_SG	Ope-rate de-lay time		
RsDlTm ms	ABBIED600_Rev2_ING_SP_1	Re-set de-lay time		
DirMod	ABBIED600_Rev3_ENG_SG_DirM od	Di-recti-onal mod e		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
StrDur	ABBIED600_Rev7_MV_2_e	Ra-tio of start time /	E	ABBIED600:2014

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		operate time		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
AllwNonDir	ABBIED600_Rev2_SPG_SP_e	Allows prot activation as non-dir when dir info is invalid	E	ABBIED600:2014

5.2.530 LN: DNSRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
ChrAng	ABBIED600_Rev8_ASG_SG_i	Characteristic angle		
MinFwdAng	ABBIED600_Rev8_ASG_SG_i	Minimum phase angle in		

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		for-ward direc-tion		
Min-RvAng	ABBIED600_Rev8_ASG_SG_i	Mini-mum phase angle in re-verse direc-tion		
MaxFw-dAng	ABBIED600_Rev8_ASG_SG_i	Maxi-mum phase angle in for-ward direc-tion		
MaxRvA ng	ABBIED600_Rev8_ASG_SG_i	Maxi-mum phase angle in re-verse direc-tion		
BlkValA	ABBIED600_Rev8_ASG_SP_i	Mini-mum ope-rating cur-rent		
BlkValV	ABBIED600_Rev8_ASG_SP_i	Mini-mum ope-rating vol-tage		
OpQty	ABBIED600_Rev4_ENG_SG_NgZroOp Mod_e	Ope-rating quan-tity	E	ABBIED600:20 14

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PolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between neg se-quence current and pol quantity	E	ABBIED600:2014
OpA	ABBIED600_Rev7_MV_simple_i_e	Operating current	E	ABBIED600:2014

5.2.531 LN: JAMPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev8_ASG_SP_i	Start value		

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OpDlTmms	ABBIED600_Rev2_ING_SP	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub5_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.532 LN: JAMPTOC2 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
NamPlt	ABBIED600_Rev1_LPL_1	Name plate		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
Str	ABBIED600_Rev1_ACD_threephase	Start		
Op	ABBIED600_Rev1_ACT_threephase	Operate		
StrVal	ABBIED600_Rev8_ASG_SP_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SP	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrDur	ABBIED600_Rev7_MV_simple_i_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub5_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.533 LN: STTPMSS1 Name: PMSS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	BLOCK		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Str	ABBIED600_Rev1_ACD_simple	Signal to show that motor startup is in prog-ress		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate/trip sig-nal for stal-ling protec-tion.		
MotStr	ABBIED600_Rev8_ASG_SG_i	Cur-rent value to in-dicate star-ting of motor		
LokRotTms	ABBIED600_Rev2_ING_SG	Lock Rotor Time, per-missi-ble locked rotor time		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary out-puts		
OpModStUp	ABBIED600_Rev3_ENG_SP_OpModStUp_e	Motor start-up opera-tion mode	E	ABBIED600:2014

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StrOvDlTmms	ABBIED600_Rev2_ING_SG_e	Time delay to check for completion of motor startup period	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_simple_i_e	Start time relative to the operate time for stall cond	E	ABBIED600:2014
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	ABBIED600:2014
StlInd	ABBIED600_Rev1_SPS_e	Input signal for showing the motor is not stalling	E	ABBIED600:2014
BlkLOStr	ABBIED600_Rev1_SPS_e	Blocks lock out condition for restart of motor	E	ABBIED600:2014

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InPosCls	ABBIED600_Rev1_SPS_e	Input showing the status of motor circuit breaker	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub20_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
MotStop	ABBIED600_Rev8_ASG_SP_i_e	Current limit to check for motor standstill condition	E	ABBIED600:2014

5.2.534 LN: STTPMRI1 Name: PMRI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate/trip signal for thermal stress.		
StrInh	ABBIED600_Rev1_SPS	Lock out condition for restart		

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		of motor.		
StrInhTmm	ABBIED600_Rev1_INS	Time left for restart when lockstart is enabled in minutes		
SetA	ABBIED600_Rev8_ASG_SG_i	Motor starting current		
SetTms	ABBIED600_Rev2_ING_SG	Motor starting time		
InhTmm	ABBIED600_Rev2_ING_SP_1	Time delay between consecutive startups		
StrUpCntRs	ABBIED600_Rev3_INC_control_int_e	Number of motor startups occurred	E	ABBIED600:2014,status-only,direct-with-normal-security
CntRedRte	ABBIED600_Rev8_ASG_SP_i_e	Start time counter reduction rate	E	ABBIED600:2014
EmgRedRte	ABBIED600_Rev8_ASG_SP_i_e	Start time	E	ABBIED600:2014

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		reduction factor when emergency start is On		
ThmStsPct	ABBIED600_Rev7_MV_simple_i_e	Thermal stress relative to set maximum thermal stress	E	ABBIED600:2014
TmsCumStrUp	ABBIED600_Rev7_MV_simple_i_e	Cumulated start-up time in sec	E	ABBIED600:2014
TmsStrUp	ABBIED600_Rev7_MV_simple_i_e	Measured motor latest start-up time in sec	E	ABBIED600:2014
CumLimTms	ABBIED600_Rev2_ING_SP_1_e	Cumulative time based restart inhibit limit	E	ABBIED600:2014
RsStrUpCnt	ABBIED600_Rev3_SPC_control_e	Reset number of motor start-	E	ABBIED600:2014,status-only,direct-with-normal-security

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		ups counter		

5.2.535 LN: PREVPTOC1 Name: PTOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	PREVPTOC1		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Start value		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate time delay		
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub2_e	PREVPTOC1	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.536 LN: MPTTR1 Name: PTTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

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TmpRl	ABBIED600_Rev7_MV_simple_i	THERMLEV		
Op	ABBIED600_Rev1_ACT_simple	Operate		
AlmThm	ABBIED600_Rev1_SPS	Thermal Alarm		
ConsTms1	ABBIED600_Rev2_ING_SG	Time constant normal		
ConsTms2	ABBIED600_Rev2_ING_SG	Motor time constant during the start of motor		
ConsTms3	ABBIED600_Rev2_ING_SG	Motor time constant during the standstill condition of motor		
AlmVal	ABBIED600_Rev8_ASG_SG_i	Alarm thermal value		
BlkThm	ABBIED600_Rev1_SPS	Restart inhibited		
ARef	ABBIED600_Rev8_ASG_SP_i_e	Rated current (FLC) of the motor	E	ABBIED600:2014
RsTmp	ABBIED600_Rev3_SPC_control_e	MPTTR1 temperature	E	ABBIED600:2014, status-only,direct-with-normal-security
DropoutVal	ABBIED600_Rev8_ASG_SG_i	Restart thermal Val		
WghFact	ABBIED600_Rev8_ASG_SG_i_e	Weighting factor	E	ABBIED600:2014
OvlFact	ABBIED600_Rev8_ASG_SG_i_e	Overload factor (k)	E	ABBIED600:2014
NgSeqFact	ABBIED600_Rev8_ASG_SG_i_e	Heating effect factor for negative	E	ABBIED600:2014

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		sequence current		
EnvTmpSet	ABBIED600_Rev8_ASG_SG_i_e	Ambient temperature	E	ABBIED600:2014
IniTmp	ABBIED600_Rev8_ASG_SP_i_e	Initial thermal Val	E	ABBIED600:2014
EnvTmpMod	ABBIED600_Rev3_ENG_SG_EnvTmpMod_e	Mode of measuring ambient temperature	E	ABBIED600:2014
EnaEmgStr	ABBIED600_Rev1_SPS_e	Enable emergency start to disable lock of start motor	E	ABBIED600:2014
TmpUsed	ABBIED600_Rev7_MV_simple_i_e	The ambient temperature used in the calculation	E	ABBIED600:2014
TmpAmb	ABBIED600_Rev7_MV_simple_i_e	Ambient temperature	E	ABBIED600:2014
ThmLevStr	ABBIED600_Rev7_MV_simple_i_e	Thermal level at beginning of motor startup	E	ABBIED600:2014
ThmLevEnd	ABBIED600_Rev7_MV_simple_i_e	Thermal level at the end of motor startup situation	E	ABBIED600:2014
BlkThmRsTm	ABBIED600_Rev6_INS_Unit_e	Estimated time to reset of block restart	E	ABBIED600:2014

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TestPro	ABBIED600_Rev8_ENC_TestPro_Sub26_e	MPTTR1	E	ABBIED600:2014, status-only,direct-with-normal-security

5.2.537 LN: MFADPSDE1 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev8_ASG_SG_i	Voltage start value		
StrDlTms	ABBIED600_Rev2_ING_SP_1	Start delay time		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for		

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		all binary outputs		
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
ItmEFInd	ABBIED600_Rev1_SPS_e	Intermittent earth-fault indication	E	ABBIED600:2014
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
PkInd	ABBIED600_Rev1_SPS_e	Current transient detection indication	E	ABBIED600:2014
TrgSt	ABBIED600_Rev1_SPS_simple_e	Signal indicating function triggering	E	ABBIED600:2014
PkCntLim	ABBIED600_Rev2_ING_SP_1_e	Min requirement for	E	ABBIED600:2014

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		peak counter before start in IEF mode		
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub14_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
OpModTrsEF	ABBIED600_Rev4_ENG_SP_OpModTEF_e	Operation mode for function	E	ABBIED600:2014
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time /	E	ABBIED600:2014

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		operate time		

5.2.538 LN: MFADRDIR1 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
BlkValA	ABBIED600_Rev8_ASG_SG_i	Minimum operating current		
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between polarizing and operating quantity	E	ABBIED600:2014

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TiltAng	ABBIED600_Rev8_ASG_SG_i_e	Characteristic tilt angle	E	ABBIED600:2014
OpQtySel	ABBIED600_Rev2_ENG_SP_OpQtySel_e	Operating quantity selection: resistive, amplitude	E	ABBIED600:2014
DirRs	ABBIED600_Rev2_SPC_simple_e	Direction calculation reset	E	ABBIED600:2014,status-only
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating current for EF protection	E	ABBIED600:2014

5.2.539 LN: MFADPSDE2 Name: PSDE (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
GndStr	ABBIED600_Rev8_ASG_SG_i	Voltage start value		
StrDlTms	ABBIED600_Rev2_ING_SP_1	Start delay time		
OpDlTms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
RsDlTms	ABBIED600_Rev2_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
ItmEFInd	ABBIED600_Rev1_SPS_e	Intermittent	E	ABBIED600:2014

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		earth-fault indication		
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
PkInd	ABBIED600_Rev1_SPS_e	Current transient detection indication	E	ABBIED600:2014
TrgSt	ABBIED600_Rev1_SPS_simple_e	Signal indicating function triggering	E	ABBIED600:2014
PkCntLim	ABBIED600_Rev2_ING_SP_1_e	Min requirement for peak counter before start in IEF mode	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub14_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		
OpModTrsEF	ABBIED600_Rev4_ENG_SP_OpModTEF_e	Operation mode for function	E	ABBIED600:2014
AResSigSel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Selection for used Io signal	E	ABBIED600:2014
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.540 LN: MFADRDIR2 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Dir	ABBIED600_Rev1_ACD_simple	Direction		
BlkValA	ABBIED600_Rev8_ASG_SG_i	Minimum operating current		
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate polarizing quantity	E	ABBIED600:2014
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between polarizing and operating quantity	E	ABBIED600:2014
TiltAng	ABBIED600_Rev8_ASG_SG_i_e	Characteristic tilt angle	E	ABBIED600:2014
OpQtySel	ABBIED600_Rev2_ENG_SP_OpQtySel_e	Operating quantity selection: resistive,	E	ABBIED600:2014

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		amp-li-tude		
DirRs	ABBIED600_Rev2_SPC_simple_e	Di-rec-tion cal-cula-tion reset	E	ABBIED600:2014,stat us-only
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Ope-ra-ting cur-rent for EF pro-tec-tion	E	ABBIED600:2014

5.2.541 LN: MFADPSDE3 Name: PSDE (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffO n_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viou r		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
GndStr	ABBIED600_Rev8_ASG_SG_i	Vol-tage start va-lue		
StrDlTm ms	ABBIED600_Rev2_ING_SP_1	Start de-lay time		

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OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod_Sub1	Directional Mode		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
RsDlTmms	ABBIED600_Rev2_ING_SP_1_e	Reset Delay Time	E	IEC 61850-7-4:2007
ItmEFInd	ABBIED600_Rev1_SPS_e	Intermittent earth-fault indication	E	ABBIED600:2014
InhEF	ABBIED600_Rev1_SPS_e	Block EF	E	ABBIED600:2014
PkInd	ABBIED600_Rev1_SPS_e	Current transient detection	E	ABBIED600:2014

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		indi-ca-tion		
TrgSt	ABBIED600_Rev1_SPS_simple_e	Sig-nal indi-ca-ting funct ion trig-ge-ring	E	ABBIED600:2014
PkCnt-Lim	ABBIED600_Rev2_ING_SP_1_e	Min re-quire ment for peak coun ter be-fore start in IEF mod e	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub14_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security
OpModTrsEF	ABBIED600_Rev4_ENG_SP_OpModTEF_e	Ope-ra-tion mod e for funct ion	E	ABBIED600:2014
AResSig-Sel	ABBIED600_Rev3_ENG_SP_AResSigSel_e	Se-lec-tion for used Io	E	ABBIED600:2014

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		signal		
VResSigSel	ABBIED600_Rev3_ENG_SP_VResSigSel_e	Selection for used Uo signal	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014

5.2.542 LN: MFADRDIR3 Name: RDIR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Dir	ABBIED600_Rev1_ACD_simple	Direction		
BlkValA	ABBIED600_Rev8_ASG_SG_i	Minimum operating current		
RvPol	ABBIED600_Rev2_SPG_SP_e	Rotate	E	ABBIED600:2014

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		polarizing quantity		
OpPolAng	ABBIED600_Rev7_MV_simple_i_e	Angle between polarizing and operating quantity	E	ABBIED600:2014
TiltAng	ABBIED600_Rev8_ASG_SG_i_e	Characteristic tilt angle	E	ABBIED600:2014
OpQtySel	ABBIED600_Rev2_ENG_SP_OpQtySel_e	Operating quantity selection: resistive, amplitude	E	ABBIED600:2014
DirRs	ABBIED600_Rev2_SPC_simple_e	Direction calculation reset	E	ABBIED600:2014,status-only
OpAEF	ABBIED600_Rev7_MV_simple_i_e	Operating	E	ABBIED600:2014

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		current for EF protection		

5.2.543 LN: HSARSPTR1 Name: SPTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
HPTmpAlm	ABBIED600_Rev1_SPS	Winding hotspot temperature alarm		
HPTmpWrn	ABBIED600_Rev1_SPS_e	Winding hotspot temperature warning	E	ABBIED600:2014
AgeRteAlm	ABBIED600_Rev1_SPS_e	Alarm signal for Avg ageing rate over set	E	ABBIED600:2014

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		time period		
AlmVal	ABBIED600_Rev8_ASG_SG_i_e	Alarm level	E	IEC 61850-7-4:2007
WrnVal	ABBIED600_Rev8_ASG_SG_i_e	Warning level	E	ABBIED600:2014
AvAmbTmp	ABBIED600_Rev8_ASG_SG_i_e	Average ambient temperature	E	ABBIED600:2014
CoolMod	ABBIED600_Rev1_ENG_SG_CoolMod_e	Transformer cooling method	E	ABBIED600:2014
AgeClcMth	ABBIED600_Rev2_ENG_SP_AgeClcMth_e	Ageing rate calculation method	E	ABBIED600:2014
HPTmpR	ABBIED600_Rev8_ASG_SP_i_e	Hotspot temperature rise over ambient at rated load	E	ABBIED600:2014
ToOilTmpR	ABBIED600_Rev8_ASG_SP_i_e	Top oil temperature rise over ambient at rated load	E	ABBIED600:2014

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AlmDlTmms	ABBIED600_Rev2_ING_SG_time_e	Alarm delay time	E	ABBIED600:2014
WrnDlTmms	ABBIED600_Rev2_ING_SG_time_e	Warning delay time	E	ABBIED600:2014
ARef	ABBIED600_Rev8_ASG_SP_i_e	Current applied to reach rated hotspot Temp	E	ABBIED600:2014
RatLos	ABBIED600_Rev8_ASG_SP_i_e	Ratio of load losses at rated load to no-load losses	E	ABBIED600:2014
IniLosLif	ABBIED600_Rev2_ING_SP_1_e	Initial winding insulation loss of life in months	E	ABBIED600:2014
CTRatCor	ABBIED600_Rev8_ASG_SP_i_e	Current transformer ratio correction	E	ABBIED600:2014
OilExpn	ABBIED600_Rev8_ASG_SP_i_e	User defined value for oil	E	ABBIED600:2014

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		ex-ponent		
WndExpn	ABBIED600_Rev8_ASG_SP_i_e	User defi-ned value for win-ding ex-ponent	E	ABBIED600:2014
ConsK11	ABBIED600_Rev8_ASG_SP_i_e	User defi-ned value of ther-mal model cons-tant K11	E	ABBIED600:2014
ConsK21	ABBIED600_Rev8_ASG_SP_i_e	User defi-ned value of ther-mal model cons-tant K21	E	ABBIED600:2014
ConsK22	ABBIED600_Rev8_ASG_SP_i_e	User defi-ned value of ther-mal model cons-tant K22	E	ABBIED600:2014
Oil-ConsTms	ABBIED600_Rev2_ING_SP_time_e	User defi-ned oil	E	ABBIED600:2014

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		time constant in seconds		
WndConsTms	ABBIED600_Rev2_ING_SP_time_e	User defined winding time constant in seconds	E	ABBIED600:2014
ParmSelMth	ABBIED600_Rev2_ENG_SP_ParmSelMth_e	Transformer parameter selection method	E	ABBIED600:2014
TrfPhsTyp	ABBIED600_Rev2_ENG_SP_TrfPhsTyp_e	Transformer phase type	E	ABBIED600:2014
LosLifRs	ABBIED600_Rev3_SPC_control_e	Reset loss of life calculation	E	ABBIED600:2014,status-only,direct-with-normal-security
AvRs	ABBIED600_Rev3_SPC_control_e	Reset calculated average ageing rate calculation	E	ABBIED600:2014,status-only,direct-with-normal-security
AgeRte	ABBIED600_Rev7_MV_simple_i	Aging rate		
LosLifTmYear	ABBIED600_Rev7_MV_simple_i_e	Loss of life in years	E	ABBIED600:2014

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HPT-mpClc	ABBIED600_Rev7_MV_simple_i	Calculated value of hotspot temperature		
ToTmp	ABBIED600_Rev7_MV_simple_i_e	Calculated value of top oil temperature	E	ABBIED600:2014
HPToOil-Gra	ABBIED600_Rev7_MV_simple_i_e	Rated hotspot to top oil temperature gradient	E	ABBIED600:2014
LodRsvWrn	ABBIED600_Rev7_MV_simple_i_e	Percentage load reserve for reaching warning condition	E	ABBIED600:2014
LodRs-vAlm	ABBIED600_Rev7_MV_simple_i_e	Percentage load reserve for reaching alarm condition	E	IEC 61850-7-4:2007

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TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub3_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.544 LN: HSARYPTR1 Name: YPTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VARtg	ABBIED600_Rev8_ASG_SP_i	Rating of the transformer		
TrfPapTyp	ABBIED600_Rev2_ENG_SP_TrfPapTyp_e	Type of transformer paper insulation	E	ABBIED600:2014

5.2.545 LN: ESDCSSWI1 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch		

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		operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation should complete		
OpTmClsSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window		

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		within which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch position is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout limit	E	ABBIED600:2014
LonTmAlm	ABBIED600_Rev1_SPS_e	Switch 'not operated for long time' alarm	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value of the inactive days counter	E	ABBIED600:2014
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the	E	ABBIED600:2014

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		inactive days counter		
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.546 LN: ESDCSSWI2 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		

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Op-CntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation should complete		

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OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time win-dow wit-hin which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch po-sition is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch po-sition is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout li-mit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not opera-ted for long time' alarm	E	ABBIED600:2014
OpLONu m	ABBIED600_Rev2_ING_SP_1_e	Setting to block ope-ration when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The opera-tion num-bers coun-ter initializa-tion value	E	ABBIED600:2014
InaAlmT md	ABBIED600_Rev2_ING_SP_1_e	Alarm li-mit value of the inactive days coun-ter	E	ABBIED600:2014

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IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.547 LN: ESDCSSWI3 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening operation		

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		should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch position is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout limit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not operated for long time' alarm	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value of the inactive	E	ABBIED600:2014

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		days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.548 LN: ESDCSSWI4 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening		

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		operation should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time win-dow wit-hin which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch po-sition is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch po-sition is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout li-mit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not opera-ted for long time' alarm	E	ABBIED600:2014
OpLONu m	ABBIED600_Rev2_ING_SP_1_e	Setting to block ope-ration when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The opera-tion num-bers coun-ter initializa-tion value	E	ABBIED600:2014
InaAlmT md	ABBIED600_Rev2_ING_SP_1_e	Alarm li-mit value of the	E	ABBIED600:2014

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		inactive days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.549 LN: ESDCSSWI5 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening		

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		operation should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time win-dow wit-hin which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch po-sition is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch po-sition is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout li-mit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not opera-ted for long time' alarm	E	ABBIED600:2014
OpLONu m	ABBIED600_Rev2_ING_SP_1_e	Setting to block ope-ration when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The opera-tion num-bers coun-ter initializa-tion value	E	ABBIED600:2014
InaAlmT md	ABBIED600_Rev2_ING_SP_1_e	Alarm li-mit value of the	E	ABBIED600:2014

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		inactive days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.550 LN: ESDCSSWI6 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening		

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		operation should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time win-dow wit-hin which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch po-sition is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch po-sition is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout li-mit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not opera-ted for long time' alarm	E	ABBIED600:2014
OpLONu m	ABBIED600_Rev2_ING_SP_1_e	Setting to block ope-ration when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The opera-tion num-bers coun-ter initializa-tion value	E	ABBIED600:2014
InaAlmT md	ABBIED600_Rev2_ING_SP_1_e	Alarm li-mit value of the	E	ABBIED600:2014

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		inactive days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.551 LN: ESDCSSWI7 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the opening		

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		operation should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time win-dow wit-hin which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch po-sition is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch po-sition is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout li-mit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not opera-ted for long time' alarm	E	ABBIED600:2014
OpLONu m	ABBIED600_Rev2_ING_SP_1_e	Setting to block ope-ration when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The opera-tion num-bers coun-ter initializa-tion value	E	ABBIED600:2014
InaAlmT md	ABBIED600_Rev2_ING_SP_1_e	Alarm li-mit value of the	E	ABBIED600:2014

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		inactive days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.552 LN: ESDCSSWI8 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Health	ABBIED600_Rev6_ENS_health	Health		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the		

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		opening operation should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch position is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout limit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not operated for long time' alarm	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value	E	ABBIED600:2014

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		of the inactive days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.553 LN: ESDCSSWI9 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the		

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		opening operation should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch position is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout limit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not operated for long time' alarm	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value	E	ABBIED600:2014

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		of the inactive days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.554 LN: ESDCSSWI10 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the		

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		opening operation should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch position is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout limit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not operated for long time' alarm	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value	E	ABBIED600:2014

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		of the inactive days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.555 LN: ESDCSSWI11 Name: SSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
OpCntAlm	ABBIED600_Rev1_SPS	Number of switch operations exceeds alarm limit		
OpTmOpn	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during opening operation		
OpTmCls	ABBIED600_Rev7_MV_simple_i	Travel time of the switch during closing operation		
OpTmOpnAlm	ABBIED600_Rev1_SPS	Switch open travel time exceeded set value		
OpTmClsAlm	ABBIED600_Rev1_SPS	Switch close travel time exceeded set value		
OpAlmNum	ABBIED600_Rev2_ING_SP_1	Setting of alarm for number of switch operations.		
OpCntRs	ABBIED600_Rev2_INC_simple_int	Number of switch operation cycle		status-only
OpTmOpnSet	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the		

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		opening operation should complete		
OpTmCls-Set	ABBIED600_Rev8_ASG_SP_i	Maximum time window within which the closing operation should complete		
PosOpn	ABBIED600_Rev1_SPS_e	Switch position is open	E	ABBIED600:2014
PosIvd	ABBIED600_Rev1_SPS_e	INVALID POS	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_e	Switch position is closed	E	ABBIED600:2014
OpCntLO	ABBIED600_Rev1_SPS_e	Number of switch operations exceeds lockout limit	E	ABBIED600:2014
LonT-mAlm	ABBIED600_Rev1_SPS_e	Switch 'not operated for long time' alarm	E	ABBIED600:2014
OpLONum	ABBIED600_Rev2_ING_SP_1_e	Setting to block operation when number of operation is more.	E	ABBIED600:2014
CntIniVal	ABBIED600_Rev2_ING_SP_1_e	The operation numbers counter initialization value	E	ABBIED600:2014
InaAlmTmd	ABBIED600_Rev2_ING_SP_1_e	Alarm limit value	E	ABBIED600:2014

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		of the inactive days counter		
IniInaTmd	ABBIED600_Rev2_ING_SP_1_e	Initial value of the inactive days counter	E	ABBIED600:2014
InaAlmTmh	ABBIED600_Rev2_ING_SP_1_e	Alarm time of the inactive days counter in hours	E	ABBIED600:2014
InaTmdCnt	ABBIED600_Rev1_INS_e	The number of days switch has been inactive	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset input for switch operation counter	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvTmRs	ABBIED600_Rev3_SPC_control_e	Travel time reset	E	ABBIED600:2014, status-only,direct-with-normal-security
TestSpvn	ABBIED600_Rev7_ENC_TestSpvn_Sub14_e	Test control for outputs	E	ABBIED600:2014, status-only,direct-with-normal-security
TrvClcMod	ABBIED600_Rev4_ENG_SP_TrvClcMod_e	Travel time calculation mode	E	ABBIED600:2014

5.2.556 LN: ESMGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Emergency start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
StrVal	ABBIED600_Rev8_ASG_SG_i	Motor standstill A		
RqEmgStr	ABBIED600_Rev1_SPS_e	ST_EMERG_RQ	E	ABBIED600:2014
Test-Ctl	ABBIED600_Rev12_ENC_TestCtl_Sub14_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.557 LN: UDFCNT1 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up	E	ABBIED600:2014

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		counting		
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.558 LN: UDFCNT2 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		

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UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.559 LN: UDFCNT3 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014

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CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.560 LN: UDFCNT4 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.561 LN: UDFCNT5 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.562 LN: UDFCNT6 Name: FCNT (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to	E	ABBIED600:2014,status-only,direct-with-normal-security

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		pre-set value		

5.2.563 LN: UDFCNT7 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the count	E	ABBIED600:2014,status-only,direct-with-normal-security

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		er value		
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to pre-set value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.564 LN: UDFCNT8 Name: FCNT (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Pre-set counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Out-put of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Sta-tus out-put of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Sta-tus out-put of down	E	ABBIED600:2014

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		counting		
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.565 LN: UDFCNT9 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014

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DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.566 LN: UDFCNT10 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status	E	ABBIED600:2014

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		output of up counting		
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.567 LN: UDFCNT11 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset counter value	E	ABBIED600:2014
CntVal	ABBIED600_Rev3_BCR_1	Output of		

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		counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.568 LN: UDFCNT12 Name: FCNT (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
CntLodVal	ABBIED600_Rev2_ING_SP_1_e	Preset count	E	ABBIED600:2014

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		er value		
CntVal	ABBIED600_Rev3_BCR_1	Output of counter value		
UpCntSt	ABBIED600_Rev1_SPS_e	Status output of up counting	E	ABBIED600:2014
DnCntSt	ABBIED600_Rev1_SPS_e	Status output of down counting	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Resets the counter value	E	ABBIED600:2014,status-only,direct-with-normal-security
LodCnt	ABBIED600_Rev3_SPC_control_e	Load the counter to preset value	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.569 LN: CALGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Frz	ABBIED600_Rev1_SPS_simple_e	Freeze signal for binary output	E	ABBIED600:2014
ActTm1	ABBIED600_Rev2_TSG_SP_setCal_monthday_e	Activation time 1	E	ABBIED600:2014
DeActTm1	ABBIED600_Rev2_TSG_SP_setCal_monthday_e	Deactivation time 1	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub1_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.570 LN: CALGAPC2 Name: GAPC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Frz	ABBIED600_Rev1_SPS_simple_e	Freeze signal for binary output	E	ABBIED600:2014
ActTm1	ABBIED600_Rev2_TSG_SP_setCal_monthday_e	Activation time 1	E	ABBIED600:2014
DeActTm1	ABBIED600_Rev2_TSG_SP_setCal_monthday_e	Deactivation time 1	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub1_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		

5.2.571 LN: CALGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_ FD	Mod e		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
Frz	ABBIED600_Rev1_SPS_simple_e	Free ze sig-nal for bi-nary out-put	E	ABBIED600:2014
ActTm1	ABBIED600_Rev2_TSG_SP_setCal_m onthday_e	Acti-va-tion time 1	E	ABBIED600:2014
DeActT m1	ABBIED600_Rev2_TSG_SP_setCal_m onthday_e	Deac tiva-tion time 1	E	ABBIED600:2014

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TestOth	ABBIED600_Rev2_ENC_TestOth_Sub1_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.572 LN: CALGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Frz	ABBIED600_Rev1_SPS_simple_e	Freeze signal for binary output	E	ABBIED600:2014
ActTm1	ABBIED600_Rev2_TSG_SP_setCal_monthday_e	Activation time 1	E	ABBIED600:2014

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DeActTm1	ABBIED600_Rev2_TSG_SP_setCal_monthday_e	Deactivation time 1	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub1_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.573 LN: DTMGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Frz	ABBIED600_Rev1_SPS_simple_e	Freeze signal for binary output	E	ABBIED600:2014
ActEna1	ABBIED600_Rev2_SPG_SP_e	Activation /	E	ABBIED600:2014

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		deac-tiva-tion need on Mon-day		
ActTm1	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Acti-va-tion time for Mon-day	E	ABBIED600:2014
OffDlTm1	ABBIED600_Rev7_ING_SP_Unit_e	Acti-va-tion dura-tion for Mon-day	E	ABBIED600:2014
ActEna2	ABBIED600_Rev2_SPG_SP_e	Acti-va-tion / deac-tiva-tion need on Tues-day	E	ABBIED600:2014
ActTm2	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Acti-va-tion time for Tues-day	E	ABBIED600:2014
OffDlTm2	ABBIED600_Rev7_ING_SP_Unit_e	Acti-va-tion dura-tion for Tues-day	E	ABBIED600:2014

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ActEna3	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Wednesday	E	ABBIED600:2014
ActTm3	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Wednesday	E	ABBIED600:2014
OffDlTm3	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Wednesday	E	ABBIED600:2014
ActEna4	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Thursday	E	ABBIED600:2014
ActTm4	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Thursday	E	ABBIED600:2014

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OffDlTm4	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Thursday	E	ABBIED600:2014
ActEna5	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Friday	E	ABBIED600:2014
ActTm5	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Friday	E	ABBIED600:2014
OffDlTm5	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Friday	E	ABBIED600:2014
ActEna6	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Saturday	E	ABBIED600:2014
ActTm6	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation	E	ABBIED600:2014

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		time for Sa-tur-day		
OffDlTm6	ABBIED600_Rev7_ING_SP_Unit_e	Acti-va-tion dura-tion for Sa-tur-day	E	ABBIED600:2014
ActEna7	ABBIED600_Rev2_SPG_SP_e	Acti-va-tion / deac-tiva-tion need on Sun-day	E	ABBIED600:2014
ActTm7	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Acti-va-tion time for Sun-day	E	ABBIED600:2014
OffDlTm7	ABBIED600_Rev7_ING_SP_Unit_e	Acti-va-tion dura-tion for Sun-day	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub1_e	Test cont-rol for out-puts	E	ABBIED600:2014,st atus-only,direct-with-normal-security

5.2.574 LN: DTMGAPC2 Name: GAPC (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Frz	ABBIED600_Rev1_SPS_simple_e	Freeze signal for binary output	E	ABBIED600:2014
ActEna1	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Monday	E	ABBIED600:2014
ActTm1	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Monday	E	ABBIED600:2014

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OffDlTm1	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Monday	E	ABBIED600:2014
ActEna2	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Tuesday	E	ABBIED600:2014
ActTm2	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Tuesday	E	ABBIED600:2014
OffDlTm2	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Tuesday	E	ABBIED600:2014
ActEna3	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Wednesday	E	ABBIED600:2014
ActTm3	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation	E	ABBIED600:2014

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		time for Wednesday		
OffDlTm3	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Wednesday	E	ABBIED600:2014
ActEna4	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Thursday	E	ABBIED600:2014
ActTm4	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Thursday	E	ABBIED600:2014
OffDlTm4	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Thursday	E	ABBIED600:2014
ActEna5	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on	E	ABBIED600:2014

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		Friday		
ActTm5	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Friday	E	ABBIED600:2014
OffDlTm5	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Friday	E	ABBIED600:2014
ActEna6	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Saturday	E	ABBIED600:2014
ActTm6	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Saturday	E	ABBIED600:2014
OffDlTm6	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Saturday	E	ABBIED600:2014

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ActEna7	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Sunday	E	ABBIED600:2014
ActTm7	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Sunday	E	ABBIED600:2014
OffDlTm7	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Sunday	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub1_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.575 LN: DTMGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal		

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		for all binary outputs		
Op	ABBIED600_Rev1_ACT_simple	Operate		
Frz	ABBIED600_Rev1_SPS_simple_e	Freeze signal for binary output	E	ABBIED600:2014
ActEna1	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Monday	E	ABBIED600:2014
ActTm1	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Monday	E	ABBIED600:2014
OffDlTm1	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Monday	E	ABBIED600:2014
ActEna2	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation	E	ABBIED600:2014

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		need on Tuesday		
ActTm2	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Tuesday	E	ABBIED600:2014
OffDlTm2	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Tuesday	E	ABBIED600:2014
ActEna3	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Wednesday	E	ABBIED600:2014
ActTm3	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Wednesday	E	ABBIED600:2014
OffDlTm3	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Wednesday	E	ABBIED600:2014

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ActEna4	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Thursday	E	ABBIED600:2014
ActTm4	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Thursday	E	ABBIED600:2014
OffDlTm4	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Thursday	E	ABBIED600:2014
ActEna5	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Friday	E	ABBIED600:2014
ActTm5	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Friday	E	ABBIED600:2014
OffDlTm5	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration	E	ABBIED600:2014

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		for Friday		
ActEna6	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Saturday	E	ABBIED600:2014
ActTm6	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Saturday	E	ABBIED600:2014
OffDlTm6	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Saturday	E	ABBIED600:2014
ActEna7	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Sunday	E	ABBIED600:2014
ActTm7	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for	E	ABBIED600:2014

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		Sun-day		
OffDlTm7	ABBIED600_Rev7_ING_SP_Unit_e	Acti-va-tion dura-tion for Sun-day	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub1_e	Test cont-rol for out-puts	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.576 LN: DTMGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mod e		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
Blk	ABBIED600_Rev1_SPS_simple	Bloc k sig-nal for all bi-nary out-puts		
Op	ABBIED600_Rev1_ACT_simple	Ope-rate		
Frz	ABBIED600_Rev1_SPS_simple_e	Freez e sig-nal for bi-nary	E	ABBIED600:2014

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		output		
ActEna1	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Monday	E	ABBIED600:2014
ActTm1	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Monday	E	ABBIED600:2014
OffDlTm1	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Monday	E	ABBIED600:2014
ActEna2	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Tuesday	E	ABBIED600:2014
ActTm2	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Tuesday	E	ABBIED600:2014
OffDlTm2	ABBIED600_Rev7_ING_SP_Unit_e	Activation	E	ABBIED600:2014

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		duration for Tuesday		
ActEna3	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Wednesday	E	ABBIED600:2014
ActTm3	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Wednesday	E	ABBIED600:2014
OffDlTm3	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Wednesday	E	ABBIED600:2014
ActEna4	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Thursday	E	ABBIED600:2014
ActTm4	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time	E	ABBIED600:2014

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		for Thursday		
OffDlTm4	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Thursday	E	ABBIED600:2014
ActEna5	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Friday	E	ABBIED600:2014
ActTm5	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Friday	E	ABBIED600:2014
OffDlTm5	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Friday	E	ABBIED600:2014
ActEna6	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Saturday	E	ABBIED600:2014

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ActTm6	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Saturday	E	ABBIED600:2014
OffDlTm6	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Saturday	E	ABBIED600:2014
ActEna7	ABBIED600_Rev2_SPG_SP_e	Activation / deactivation need on Sunday	E	ABBIED600:2014
ActTm7	ABBIED600_Rev2_TSG_SP_setCal_hrmn_e	Activation time for Sunday	E	ABBIED600:2014
OffDlTm7	ABBIED600_Rev7_ING_SP_Unit_e	Activation duration for Sunday	E	ABBIED600:2014
TestOth	ABBIED600_Rev2_ENC_TestOth_Sub1_e	Test control for	E	ABBIED600:2014,status-only,direct-with-normal-security

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		out-puts		

5.2.577 LN: SETRGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
AnVa-lOut1	ABBIED600_Rev7_MV_2_e	Analog value 1	E	ABBIED600:2014
AnVa-lOut2	ABBIED600_Rev7_MV_2_e	Analog value 2	E	ABBIED600:2014
AnVa-lOut3	ABBIED600_Rev7_MV_2_e	Analog value 3	E	ABBIED600:2014
AnVa-lOut4	ABBIED600_Rev7_MV_2_e	Analog value 4	E	ABBIED600:2014
AnVa-lOut5	ABBIED600_Rev7_MV_2_e	Analog value 5	E	ABBIED600:2014
AnVa-lOut6	ABBIED600_Rev7_MV_2_e	Analog value 6	E	ABBIED600:2014
AnVa-lOut7	ABBIED600_Rev7_MV_2_e	Analog value 7	E	ABBIED600:2014
AnVa-lOut8	ABBIED600_Rev7_MV_2_e	Analog value 8	E	ABBIED600:2014
AnVa-lOut9	ABBIED600_Rev7_MV_2_e	Analog value 9	E	ABBIED600:2014
AnVa-lOut10	ABBIED600_Rev7_MV_2_e	Analog value 10	E	ABBIED600:2014
AnVa-lOut11	ABBIED600_Rev7_MV_2_e	Analog value 11	E	ABBIED600:2014
AnVa-lOut12	ABBIED600_Rev7_MV_2_e	Analog value 12	E	ABBIED600:2014
AnVa-lOut13	ABBIED600_Rev7_MV_2_e	Analog value 13	E	ABBIED600:2014
AnVa-lOut14	ABBIED600_Rev7_MV_2_e	Analog value 14	E	ABBIED600:2014
AnVa-lOut15	ABBIED600_Rev7_MV_2_e	Analog value 15	E	ABBIED600:2014
AnVa-lOut16	ABBIED600_Rev7_MV_2_e	Analog value 16	E	ABBIED600:2014

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AnSet1	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 1	E	ABBIED600:2014
AnSet2	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 2	E	ABBIED600:2014
AnSet3	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 3	E	ABBIED600:2014
AnSet4	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 4	E	ABBIED600:2014
AnSet5	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 5	E	ABBIED600:2014
AnSet6	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 6	E	ABBIED600:2014
AnSet7	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 7	E	ABBIED600:2014
AnSet8	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 8	E	ABBIED600:2014
AnSet9	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 9	E	ABBIED600:2014
AnSet10	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 10	E	ABBIED600:2014
AnSet11	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 11	E	ABBIED600:2014
AnSet12	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 12	E	ABBIED600:2014
AnSet13	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 13	E	ABBIED600:2014
AnSet14	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 14	E	ABBIED600:2014

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AnSet15	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 15	E	ABBIED600:2014
AnSet16	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 16	E	ABBIED600:2014

5.2.578 LN: SETRGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
AnValOut1	ABBIED600_Rev7_MV_2_e	Analog value 1	E	ABBIED600:2014
AnValOut2	ABBIED600_Rev7_MV_2_e	Analog value 2	E	ABBIED600:2014
AnValOut3	ABBIED600_Rev7_MV_2_e	Analog value 3	E	ABBIED600:2014
AnValOut4	ABBIED600_Rev7_MV_2_e	Analog value 4	E	ABBIED600:2014
AnValOut5	ABBIED600_Rev7_MV_2_e	Analog value 5	E	ABBIED600:2014
AnValOut6	ABBIED600_Rev7_MV_2_e	Analog value 6	E	ABBIED600:2014
AnValOut7	ABBIED600_Rev7_MV_2_e	Analog value 7	E	ABBIED600:2014
AnValOut8	ABBIED600_Rev7_MV_2_e	Analog value 8	E	ABBIED600:2014
AnValOut9	ABBIED600_Rev7_MV_2_e	Analog value 9	E	ABBIED600:2014
AnValOut10	ABBIED600_Rev7_MV_2_e	Analog value 10	E	ABBIED600:2014
AnValOut11	ABBIED600_Rev7_MV_2_e	Analog value 11	E	ABBIED600:2014
AnValOut12	ABBIED600_Rev7_MV_2_e	Analog value 12	E	ABBIED600:2014
AnValOut13	ABBIED600_Rev7_MV_2_e	Analog value 13	E	ABBIED600:2014
AnValOut14	ABBIED600_Rev7_MV_2_e	Analog value 14	E	ABBIED600:2014

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AnVa-lOut15	ABBIED600_Rev7_MV_2_e	Analog value 15	E	ABBIED600:2014
AnVa-lOut16	ABBIED600_Rev7_MV_2_e	Analog value 16	E	ABBIED600:2014
AnSet1	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 1	E	ABBIED600:2014
AnSet2	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 2	E	ABBIED600:2014
AnSet3	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 3	E	ABBIED600:2014
AnSet4	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 4	E	ABBIED600:2014
AnSet5	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 5	E	ABBIED600:2014
AnSet6	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 6	E	ABBIED600:2014
AnSet7	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 7	E	ABBIED600:2014
AnSet8	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 8	E	ABBIED600:2014
AnSet9	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 9	E	ABBIED600:2014
AnSet10	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 10	E	ABBIED600:2014
AnSet11	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 11	E	ABBIED600:2014
AnSet12	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 12	E	ABBIED600:2014
AnSet13	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 13	E	ABBIED600:2014

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AnSet14	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 14	E	ABBIED600:2014
AnSet15	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 15	E	ABBIED600:2014
AnSet16	ABBIED600_Rev8_ASG_SP_i_e	Analog input value 16	E	ABBIED600:2014

5.2.579 LN: SETI32GAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
IntOut1	ABBIED600_Rev1_INS_d_e	Integer value 1	E	ABBIED600:2014
IntOut2	ABBIED600_Rev1_INS_d_e	Integer value 2	E	ABBIED600:2014
IntOut3	ABBIED600_Rev1_INS_d_e	Integer value 3	E	ABBIED600:2014
IntOut4	ABBIED600_Rev1_INS_d_e	Integer value 4	E	ABBIED600:2014
IntOut5	ABBIED600_Rev1_INS_d_e	Integer value 5	E	ABBIED600:2014
IntOut6	ABBIED600_Rev1_INS_d_e	Integer value 6	E	ABBIED600:2014
IntOut7	ABBIED600_Rev1_INS_d_e	Integer value 7	E	ABBIED600:2014
IntOut8	ABBIED600_Rev1_INS_d_e	Integer value 8	E	ABBIED600:2014
IntOut9	ABBIED600_Rev1_INS_d_e	Integer value 9	E	ABBIED600:2014
IntOut10	ABBIED600_Rev1_INS_d_e	Integer value 10	E	ABBIED600:2014
IntOut11	ABBIED600_Rev1_INS_d_e	Integer value 11	E	ABBIED600:2014
IntOut12	ABBIED600_Rev1_INS_d_e	Integer value 12	E	ABBIED600:2014
IntOut13	ABBIED600_Rev1_INS_d_e	Integer value 13	E	ABBIED600:2014

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IntOut14	ABBIED600_Rev1_INS_d_e	Integer value 14	E	ABBIED600:2014
IntOut15	ABBIED600_Rev1_INS_d_e	Integer value 15	E	ABBIED600:2014
IntOut16	ABBIED600_Rev1_INS_d_e	Integer value 16	E	ABBIED600:2014
IntSet1	ABBIED600_Rev2_ING_SP_1_e	Integer input value 1	E	ABBIED600:2014
IntSet2	ABBIED600_Rev2_ING_SP_1_e	Integer input value 2	E	ABBIED600:2014
IntSet3	ABBIED600_Rev2_ING_SP_1_e	Integer input value 3	E	ABBIED600:2014
IntSet4	ABBIED600_Rev2_ING_SP_1_e	Integer input value 4	E	ABBIED600:2014
IntSet5	ABBIED600_Rev2_ING_SP_1_e	Integer input value 5	E	ABBIED600:2014
IntSet6	ABBIED600_Rev2_ING_SP_1_e	Integer input value 6	E	ABBIED600:2014
IntSet7	ABBIED600_Rev2_ING_SP_1_e	Integer input value 7	E	ABBIED600:2014
IntSet8	ABBIED600_Rev2_ING_SP_1_e	Integer input value 8	E	ABBIED600:2014
IntSet9	ABBIED600_Rev2_ING_SP_1_e	Integer input value 9	E	ABBIED600:2014
IntSet10	ABBIED600_Rev2_ING_SP_1_e	Integer input value 10	E	ABBIED600:2014
IntSet11	ABBIED600_Rev2_ING_SP_1_e	Integer input value 11	E	ABBIED600:2014
IntSet12	ABBIED600_Rev2_ING_SP_1_e	Integer input value 12	E	ABBIED600:2014

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IntSet13	ABBIED600_Rev2_ING_SP_1_e	Integer input value 13	E	ABBIED600:2014
IntSet14	ABBIED600_Rev2_ING_SP_1_e	Integer input value 14	E	ABBIED600:2014
IntSet15	ABBIED600_Rev2_ING_SP_1_e	Integer input value 15	E	ABBIED600:2014
IntSet16	ABBIED600_Rev2_ING_SP_1_e	Integer input value 16	E	ABBIED600:2014

5.2.580 LN: SETI32GAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
IntOut1	ABBIED600_Rev1_INS_d_e	Integer value 1	E	ABBIED600:2014
IntOut2	ABBIED600_Rev1_INS_d_e	Integer value 2	E	ABBIED600:2014
IntOut3	ABBIED600_Rev1_INS_d_e	Integer value 3	E	ABBIED600:2014
IntOut4	ABBIED600_Rev1_INS_d_e	Integer value 4	E	ABBIED600:2014
IntOut5	ABBIED600_Rev1_INS_d_e	Integer value 5	E	ABBIED600:2014
IntOut6	ABBIED600_Rev1_INS_d_e	Integer value 6	E	ABBIED600:2014
IntOut7	ABBIED600_Rev1_INS_d_e	Integer value 7	E	ABBIED600:2014
IntOut8	ABBIED600_Rev1_INS_d_e	Integer value 8	E	ABBIED600:2014
IntOut9	ABBIED600_Rev1_INS_d_e	Integer value 9	E	ABBIED600:2014
IntOut10	ABBIED600_Rev1_INS_d_e	Integer value 10	E	ABBIED600:2014
IntOut11	ABBIED600_Rev1_INS_d_e	Integer value 11	E	ABBIED600:2014
IntOut12	ABBIED600_Rev1_INS_d_e	Integer value 12	E	ABBIED600:2014

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IntOut13	ABBIED600_Rev1_INS_d_e	Integer value 13	E	ABBIED600:2014
IntOut14	ABBIED600_Rev1_INS_d_e	Integer value 14	E	ABBIED600:2014
IntOut15	ABBIED600_Rev1_INS_d_e	Integer value 15	E	ABBIED600:2014
IntOut16	ABBIED600_Rev1_INS_d_e	Integer value 16	E	ABBIED600:2014
IntSet1	ABBIED600_Rev2_ING_SP_1_e	Integer input value 1	E	ABBIED600:2014
IntSet2	ABBIED600_Rev2_ING_SP_1_e	Integer input value 2	E	ABBIED600:2014
IntSet3	ABBIED600_Rev2_ING_SP_1_e	Integer input value 3	E	ABBIED600:2014
IntSet4	ABBIED600_Rev2_ING_SP_1_e	Integer input value 4	E	ABBIED600:2014
IntSet5	ABBIED600_Rev2_ING_SP_1_e	Integer input value 5	E	ABBIED600:2014
IntSet6	ABBIED600_Rev2_ING_SP_1_e	Integer input value 6	E	ABBIED600:2014
IntSet7	ABBIED600_Rev2_ING_SP_1_e	Integer input value 7	E	ABBIED600:2014
IntSet8	ABBIED600_Rev2_ING_SP_1_e	Integer input value 8	E	ABBIED600:2014
IntSet9	ABBIED600_Rev2_ING_SP_1_e	Integer input value 9	E	ABBIED600:2014
IntSet10	ABBIED600_Rev2_ING_SP_1_e	Integer input value 10	E	ABBIED600:2014
IntSet11	ABBIED600_Rev2_ING_SP_1_e	Integer input value 11	E	ABBIED600:2014
IntSet12	ABBIED600_Rev2_ING_SP_1_e	Integer input value 12	E	ABBIED600:2014

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IntSet13	ABBIED600_Rev2_ING_SP_1_e	Integer input value 13	E	ABBIED600:2014
IntSet14	ABBIED600_Rev2_ING_SP_1_e	Integer input value 14	E	ABBIED600:2014
IntSet15	ABBIED600_Rev2_ING_SP_1_e	Integer input value 15	E	ABBIED600:2014
IntSet16	ABBIED600_Rev2_ING_SP_1_e	Integer input value 16	E	ABBIED600:2014

5.2.581 LN: GATEGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	IN1		
Ind2	ABBIED600_Rev1_SPS	IN2		
Ind3	ABBIED600_Rev1_SPS	IN3		
Ind4	ABBIED600_Rev1_SPS	IN4		
Ind5	ABBIED600_Rev1_SPS	IN5		
Ind6	ABBIED600_Rev1_SPS	IN6		
Ind7	ABBIED600_Rev1_SPS	IN7		
Ind8	ABBIED600_Rev1_SPS	IN8		
SPCSO1	ABBIED600_Rev2_SPC_simple	Q1		status-only
SPCSO2	ABBIED600_Rev2_SPC_simple	Q2		status-only
SPCSO3	ABBIED600_Rev2_SPC_simple	Q3		status-only
SPCSO4	ABBIED600_Rev2_SPC_simple	Q4		status-only
SPCSO5	ABBIED600_Rev2_SPC_simple	Q5		status-only
SPCSO6	ABBIED600_Rev2_SPC_simple	Q6		status-only
SPCSO7	ABBIED600_Rev2_SPC_simple	Q7		status-only
SPCSO8	ABBIED600_Rev2_SPC_simple	Q8		status-only
EnaInd1	ABBIED600_Rev2_SPG_SP_e	Connect IN1 to Q1	E	ABBIED600:2014

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EnaInd2	ABBIED600_Rev2_SPG_SP_e	Connect IN2 to Q2	E	ABBIED600:2014
EnaInd3	ABBIED600_Rev2_SPG_SP_e	Connect IN3 to Q3	E	ABBIED600:2014
EnaInd4	ABBIED600_Rev2_SPG_SP_e	Connect IN4 to Q4	E	ABBIED600:2014
EnaInd5	ABBIED600_Rev2_SPG_SP_e	Connect IN5 to Q5	E	ABBIED600:2014
EnaInd6	ABBIED600_Rev2_SPG_SP_e	Connect IN6 to Q6	E	ABBIED600:2014
EnaInd7	ABBIED600_Rev2_SPG_SP_e	Connect IN7 to Q7	E	ABBIED600:2014
EnaInd8	ABBIED600_Rev2_SPG_SP_e	Connect IN8 to Q8	E	ABBIED600:2014

5.2.582 LN: PCGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Bi-nary input for coun-ting		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary out-puts		
CntVal1	ABBIED600_Rev8_BCR_frVal_e	Ac-tual	E	IEC 61850-7-4:2007

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		pulse count value		
Rs	ABBIED600_Rev3_SPC_control_e	Reset	E	ABBIED600:2014,status-only,direct-with-normal-security
AnIn1Upd	ABBIED600_Rev1_SPS_e	Scaled value is updated	E	ABBIED600:2014
CntSat	ABBIED600_Rev1_SPS_e	Counter reaches saturation limit	E	ABBIED600:2014
CntCrt	ABBIED600_Rev3_ENG_SP_CntCrt_e	Pulse counter criteria	E	ABBIED600:2014
RpIntv	ABBIED600_Rev3_ENG_SP_dmdItrv_e	Reporting interval for counter value	E	ABBIED600:2014
PlsRat	ABBIED600_Rev2_ING_SP_e	Impulse ratio	E	ABBIED600:2014

5.2.583 LN: PCGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Ind1	ABBIED600_Rev1_SPS	Binary input for counting		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
CntVal1	ABBIED600_Rev8_BCR_frVal_e	Actual pulse count value	E	IEC 61850-7-4:2007
Rs	ABBIED600_Rev3_SPC_control_e	Reset	E	ABBIED600:2014,status-only,direct-with-normal-security
AnIn1Upd	ABBIED600_Rev1_SPS_e	Scaled value is updated	E	ABBIED600:2014
CntSat	ABBIED600_Rev1_SPS_e	Counter reaches saturation limit	E	ABBIED600:2014
CntCrt	ABBIED600_Rev3_ENG_SP_CntCrt_e	Pulse counter criteria	E	ABBIED600:2014
RpIntv	ABBIED600_Rev3_ENG_SP_dmdItrv_e	Reporting interval for counter value	E	ABBIED600:2014

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PlsRat	ABBIED600_Rev2_ING_SP_e	Im-pulse ratio	E	ABBIED600:2014

5.2.584 LN: PCGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Bi-nary input for coun-ting		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary out-puts		
CntVal1	ABBIED600_Rev8_BCR_frVal_e	Ac-tual pulse count value	E	IEC 61850-7-4:2007
Rs	ABBIED600_Rev3_SPC_control_e	Reset	E	ABBIED600:2014,status-only,direct-with-normal-security
AnIn1Upd	ABBIED600_Rev1_SPS_e	Sca-led value is up-dated	E	ABBIED600:2014
CntSat	ABBIED600_Rev1_SPS_e	Coun-ter reach es sa-tura-tion limit	E	ABBIED600:2014

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CntCrt	ABBIED600_Rev3_ENG_SP_CntCrt_e	Pulse counter criteria	E	ABBIED600:2014
RpIntv	ABBIED600_Rev3_ENG_SP_dmdItrv_e	Reporting interval for counter value	E	ABBIED600:2014
PlsRat	ABBIED600_Rev2_ING_SP_e	Impulse ratio	E	ABBIED600:2014

5.2.585 LN: PCGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Binary input for counting		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
CntVal1	ABBIED600_Rev8_BCR_frVal_e	Actual pulse count value	E	IEC 61850-7-4:2007

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Rs	ABBIED600_Rev3_SPC_control_e	Reset	E	ABBIED600:2014,status-only,direct-with-normal-security
AnIn1Upd	ABBIED600_Rev1_SPS_e	Scaled value is updated	E	ABBIED600:2014
CntSat	ABBIED600_Rev1_SPS_e	Counter reaches saturation limit	E	ABBIED600:2014
CntCrt	ABBIED600_Rev3_ENG_SP_CntCrt_e	Pulse counter criteria	E	ABBIED600:2014
RpIntv	ABBIED600_Rev3_ENG_SP_dmdItrv_e	Reporting interval for counter value	E	ABBIED600:2014
PlsRat	ABBIED600_Rev2_ING_SP_e	Impulse ratio	E	ABBIED600:2014

5.2.586 LN: GAEPVOC1 Name: PVOC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Str	ABBIED600_Rev1_ACD_simple	Start		

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Op	ABBIED600_Rev1_ACT_simple	Operate		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate Delay Time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset Delay Time		
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Absolute maximum neutral current under normal condition	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Block		
EnaDlTmms	ABBIED600_Rev2_ING_SG_e	Arm delay time	E	ABBIED600:2014
DsaDlTmms	ABBIED600_Rev2_ING_SG_e	Disarm delay time	E	ABBIED600:2014
ALimAct	ABBIED600_Rev1_SPS_simple_e	Current limit active (armed)	E	ABBIED600:2014

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VLoLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage low limit for voltage control	E	ABBIED600:2014
VHiLim	ABBIED600_Rev8_ASG_SG_i_e	Voltage high limit for voltage control	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub8_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.587 LN: IL1TCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value)		

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		phase A		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Phase A Current phasor angle correction of an		

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		external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub1_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.588 LN: IL1TCTR2 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value) phase A		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Phase A Current		

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		phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub1_e	Frequency adaptivity selection	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014

5.2.589 LN: IL1TCTR3 Name: TCTR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value) phase A		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		

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AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub1_e	Frequency adaptivity selection	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the	E	ABBIED600:2014

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		current input		

5.2.590 LN: IL1TCTR4 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value) phase A		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Current phasor magnitude correction of an		

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		external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub1_e	Frequency	E	ABBIED600:2014

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		adaptivity selection		
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014

5.2.591 LN: IL1TCTR5 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value) phase A		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Current phasor		

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		magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014

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RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub1_e	Frequency adaptivity selection	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014

5.2.592 LN: IL1TCTR6 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value) phase A		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		

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Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014

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VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub1_e	Frequency adaptivity selection	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014

5.2.593 LN: IL1TCTR7 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value) phase A		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the		

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		current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Phase A Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007

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ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub1_e	Frequency adaptivity selection	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014

5.2.594 LN: IL1TCTR8 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value) phase A		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated		

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		current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Phase A Current phasor angle correction of an external current		

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		trans-for-mer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub1_e	Frequency adaptivity selection	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014

5.2.595 LN: RESUTCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Samp		

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		led value)		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle correction of an external		

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		current transformer		
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary voltage	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.596 LN: RESTCTR1 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value)		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current		

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		transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated	E	ABBIED600:2014

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		current		
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.597 LN: RESTCTR2 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value)		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of		

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		the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007

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ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.598 LN: RESTCTR3 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value)		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		

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HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007

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Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.599 LN: RESTCTR4 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value)		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated		

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		current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle correction of an external current transformer		

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Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.600 LN: RESTCTR5 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value)		

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ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle correction of an external current		

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		trans-for-mer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.601 LN: RESTCTR6 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Samp		

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		led value)		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle correction of an external		

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		current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.602 LN: RESTCTR7 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Mode		

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AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value)		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle correction of an		

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		external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.603 LN: RESTCTR8 Name: TCTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Mode		
AmpSv	ABBIED600_Rev2_SAV_92_lite	Current (Sampled value)		
ARtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated current		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the current transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Current phasor magnitude correction of an external current transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Current phasor angle		

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		correction of an external current transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
ARtgScnd	ABBIED600_Rev3_ENG_SP_ARtgSec_e	Secondary rated current	E	ABBIED600:2014
VRtgScndRat	ABBIED600_Rev4_ASG_SP_f_e	Rated Secondary Value	E	ABBIED600:2014
RvPol	ABBIED600_Rev2_SPG_SP_e	Reverse polarity	E	ABBIED600:2014
AInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the current input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.604 LN: UL1TVTR1 Name: TVTR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated phase-to-phase voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Rat	ABBIED600_Rev4_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Voltage phasor		

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		magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Secondary rated phase-to-phase voltage	E	ABBIED600:2014
VConnTyp	ABBIED600_Rev5_ENG_SP_ConnType_e	VT connection	E	ABBIED600:2014
VInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the voltage input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.605 LN: RESTVTR1 Name: TVTR (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value)		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Rated primary voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Voltage		

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		phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary voltage	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.606 LN: UL1TVTR2 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value)		

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		phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse fai-lure		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Pri-mary rated phase -to-phase vol-tage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated fre-quenc y of the vol-tage trans-for-mer		
Rat	ABBIED600_Rev4_ASG_SP_f	Divi-sion ratio		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Vol-tage pha-sor mag-nitude cor-rec-tion of an exter-nal vol-tage trans-for-mer		

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AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Secondary rated phase-to-phase voltage	E	ABBIED600:2014
VConnTyp	ABBIED600_Rev5_ENG_SP_ConnType_e	VT connection	E	ABBIED600:2014
VInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the voltage input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.607 LN: RESTVTR2 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (samp		

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		led value)		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Rated primary voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Voltage phasor angle correction of an external voltage		

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		trans-for-mer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary voltage	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.608 LN: UL1TVTR3 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated phase		

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		-to-phase voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Rat	ABBIED600_Rev4_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Secondary rated	E	ABBIED600:2014

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		phase-to-phase voltage		
VConnTyp	ABBIED600_Rev5_ENG_SP_ConnType_e	VT connection	E	ABBIED600:2014
VInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the voltage input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.609 LN: RESTVTR3 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value)		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Rated primary voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the		

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		voltage transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary	E	ABBIED600:2014

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		voltage		
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.610 LN: UL1TVTR4 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated phase-to-phase voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage		

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		trans-for-mer		
Rat	ABBIED600_Rev4_ASG_SP_f	Divi-sion ratio		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Vol-tage pha-sor mag-nitude cor-rec-tion of an exter-nal vol-tage trans-for-mer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	War-ning	E	IEC 61850-7-4:2007
VRt-gScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Se-con-dary rated phase -to-phase vol-tage	E	ABBIED600:2014
VConnTyp	ABBIED600_Rev5_ENG_SP_ConnType_e	VT con-nec-tion	E	ABBIED600:2014

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VIn-Typ	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the voltage input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.611 LN: RESTVTR4 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value)		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Rated primary voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Voltage phasor		

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		magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary voltage	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

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5.2.612 LN: UL1TVTR5 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated phase-to-phase voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Rat	ABBIED600_Rev4_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Voltage		

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		phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Secondary rated phase-to-phase voltage	E	ABBIED600:2014
VConnTyp	ABBIED600_Rev5_ENG_SP_ConnType_e	VT connection	E	ABBIED600:2014
VInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the voltage input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_e	Frequency adaptivity selection	E	ABBIED600:2014

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5.2.613 LN: RESTVTR5 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value)		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Rated primary voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual		

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		Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary voltage	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.614 LN: UL1TVTR6 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled		

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		value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated phase-to-phase voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Rat	ABBIED600_Rev4_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage		

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		trans-for-mer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Secondary rated phase-to-phase voltage	E	ABBIED600:2014
VConnTyp	ABBIED600_Rev5_ENG_SP_ConnType_e	VT connection	E	ABBIED600:2014
VInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the voltage input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.615 LN: RESTVTR6 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value)		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Rated primary voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Voltage phasor angle correction of an		

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		external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary voltage	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.616 LN: UL1TVTR7 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		

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VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated phase-to-phase voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Rat	ABBIED600_Rev4_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007

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VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Secondary rated phase-to-phase voltage	E	ABBIED600:2014
VConnTyp	ABBIED600_Rev5_ENG_SP_ConnType_e	VT connection	E	ABBIED600:2014
VInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the voltage input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.617 LN: RESTVTR7 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value)		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Rated primary voltage		

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HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		
Cor	ABBIED600_Rev4_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007

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VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary voltage	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.618 LN: UL1TVTR8 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value) phase A		
FuFail	ABBIED600_Rev1_SPS	TVTR fuse failure		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Primary rated phase-to-phase voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of		

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		the voltage transformer		
Rat	ABBIED600_Rev4_ASG_SP_f	Division ratio		
Cor	ABBIED600_Rev4_ASG_SP_f	Phase A Voltage phasor magnitude correction of an external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Angle corr. A		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Secondary rated phase-to-phase voltage	E	ABBIED600:2014

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VConnTyp	ABBIED600_Rev5_ENG_SP_ConnType_e	VT connection	E	ABBIED600:2014
VInTyp	ABBIED600_Rev5_ENG_SP_AnInType_e	Type of the voltage input	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_e	Frequency adaptivity selection	E	ABBIED600:2014

5.2.619 LN: RESTVTR8 Name: TVTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
VolSv	ABBIED600_Rev2_SAV_92_lite	Voltage (sampled value)		
VRtg	ABBIED600_Rev8_ASG_SP_ARtg_VRtg	Rated primary voltage		
HzRtg	ABBIED600_Rev1_ASG_SP_f_RO	Rated frequency of the voltage transformer		

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Cor	ABBIED600_Rev4_ASG_SP_f	Voltage phasor magnitude correction of external voltage transformer		
AngCor	ABBIED600_Rev5_ASG_SP_i_MinMax_retain	Residual Voltage phasor angle correction of an external voltage transformer		
Alm	ABBIED600_Rev1_SPS_e	Alarm	E	IEC 61850-7-4:2007
Wrn	ABBIED600_Rev1_SPS_e	Warning	E	IEC 61850-7-4:2007
VRtgScnd	ABBIED600_Rev5_ASG_SP_f_MinMax_retain_e	Rated secondary voltage	E	ABBIED600:2014
HzAdpSel	ABBIED600_Rev2_ENG_HzAdpSel_Sub2_e	Frequency	E	ABBIED600:2014

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		adaptivity selection		

5.2.620 LN: CMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	CMMXU1 demands	E	ABBIED600:2014, status-only,direct-with-normal-security

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On-DlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.621 LN: CMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	CMMXU2 demands	E	ABBIED600:2014, status-only,direct-

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				with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.622 LN: CMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014

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RcdRs	ABBIED600_Rev3_SPC_control_e	CMMXU3 demands	E	ABBIED600:2014, status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.623 LN: CMMXU4 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014

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LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	CMMXU4 demands	E	ABBIED600:2014, status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.624 LN: CMMXU5 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014

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LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	CMMXU5 demands	E	ABBIED600:2014, status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.625 LN: CMMXU6 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014

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HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	CMMXU6 demands	E	ABBIED600:2014, status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.626 LN: CMMXU7 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014

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HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	CMMXU7 demands	E	ABBIED600:2014, status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.627 LN: CMMXU8 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_threephase_full_i	Phase currents		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit	E	ABBIED600:2014

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		supervision		
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	CMMXU8 demands	E	ABBIED600:2014, status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.628 LN: RESCMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_res_full_i	Residual current		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESCMMXU1 demands	E	ABBIED600:2014,status-only,direct-

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				with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.629 LN: RESCMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_res_full_i	Residual current		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESCMMXU2 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.630 LN: RESCMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_res_full_i	Residual current		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESCMMXU3 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.631 LN: RESCMMXU4 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_res_full_i	Residual current		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014

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HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESCMMXU4 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.632 LN: RESCMMXU5 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_res_full_i	Residual current		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESCMMXU5 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.633 LN: RESCMMXU6 Name: MMXU (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_res_full_i	Residual current		
AMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESCMMXU6 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.634 LN: RESCMMXU7 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_res_full_i	Residual current		

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AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESCMMXU7 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
On-DlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.635 LN: RESCMMXU8 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
A	ABBIED600_Rev8_WYE_res_full_i	Residual current		
AMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESCMMXU8 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
On-DlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014

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OffDlT mms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.636 LN: VMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Ope-ration		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PPV	ABBIED600_Rev8_DEL_threephase_full_i	Phase to phase volta-ges		
PhV	ABBIED600_Rev7_WYE_4	Phase to groun d vol-tages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary out-puts		
VMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Se-lects used mea-sure-ment mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Num-ber of phase s re-qui-red by li-mit	E	ABBIED600:2014

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		su-pervi-sion		
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High war-ning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low war-ning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
On-DlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.637 LN: VMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Ope-ration		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PPV	ABBIED600_Rev8_DEL_threephase_full_i	Phase to phase volta-ges		
PhV	ABBIED600_Rev7_WYE_4	Phase to groun d vol-tages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.638 LN: VMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PPV	ABBIED600_Rev8_DEL_threephase_full_i	Phase to phase voltages		
PhV	ABBIED600_Rev7_WYE_4	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014

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LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.639 LN: VMMXU4 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PPV	ABBIED600_Rev8_DEL_threephase_full_i	Phase to phase voltages		
PhV	ABBIED600_Rev7_WYE_4	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used	E	ABBIED600:2014

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		measurement mode		
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.640 LN: VMMXU5 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PPV	ABBIED600_Rev8_DEL_threephase_full_i	Phase to		

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		phase voltages		
PhV	ABBIED600_Rev7_WYE_4	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014

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OffDlTms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.641 LN: VMMXU6 Name: MMXU (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Ope-ration		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PPV	ABBIED600_Rev8_DEL_threephase_full_i	Phase to phase volta-ges		
PhV	ABBIED600_Rev7_WYE_4	Phase to groun d vol-tages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all bi-nary out-puts		
VMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Se-lects used mea-sure-ment mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Num-ber of phase s re-qui-red by	E	ABBIED600:2014

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		limit su-pervi-sion		
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High war-ning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low war-ning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
On-DlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.642 LN: VMMXU7 Name: MMXU (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Ope-ration		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PPV	ABBIED600_Rev8_DEL_threephase_full_i	Phase to phase volta-ges		
PhV	ABBIED600_Rev7_WYE_4	Phase to groun d vol-tages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.643 LN: VMMXU8 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PPV	ABBIED600_Rev8_DEL_threephase_full_i	Phase to phase voltages		
PhV	ABBIED600_Rev7_WYE_4	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014

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LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.644 LN: VPHMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PhV	ABBIED600_Rev8_WYE_threephase_full_i	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phase	E	ABBIED600:2014

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		s required by limit supervision		
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.645 LN: VPHMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PhV	ABBIED600_Rev8_WYE_threephase_full_i	Phase to ground voltages		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
NumPh	ABBIED600_Rev4_ENG_SP_StrPhSel_Sub1_e	Number of phases required by limit supervision	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.646 LN: RESVMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev8_WYE_res_full_i	Residual voltage		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESVMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.647 LN: RESVMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev8_WYE_res_full_i	Residual voltage		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014

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HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESVMMXU2 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.648 LN: RESVMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev8_WYE_res_full_i	Residual voltage		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESVMMXU3 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.649 LN: RESVMMXU4 Name: MMXU (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev8_WYE_res_full_i	Residual voltage		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESVMMXU4 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.650 LN: RESVMMXU5 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev8_WYE_res_full_i	Residual voltage		

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VMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESVMMXU5 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
On-DlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.651 LN: RESVMMXU6 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev8_WYE_res_full_i	Residual voltage		
VMeas-Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESVMMXU6 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
On-DlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014

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OffDlT mms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.652 LN: RESVMMXU7 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
PhV	ABBIED600_Rev8_WYE_res_full_i	Residual voltage		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESVMMXU7 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlT mms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.653 LN: RESVMMXU8 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		binary outputs		
PhV	ABBIED600_Rev8_WYE_res_full_i	Residual voltage		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	RESVMMXU8 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
OnDlTmms	ABBIED600_Rev2_ING_SP_e	On delay time	E	ABBIED600:2014
OffDlTmms	ABBIED600_Rev2_ING_SP_e	Off delay time	E	ABBIED600:2014

5.2.654 LN: FMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev9_MV_5	Frequency		
DftHzSel	ABBIED600_Rev2_ENG_SP_DefHzSel_e	Default frequency selection	E	ABBIED600:2014

5.2.655 LN: FMMXU2 Name: MMXU (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev9_MV_5	Frequency		
DftHzSel	ABBIED600_Rev2_ENG_SP_DefHzSel_e	Default frequency selection	E	ABBIED600:2014

5.2.656 LN: FMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev9_MV_5	Frequency		
DftHzSel	ABBIED600_Rev2_ENG_SP_DefHzSel_e	Default frequency selection	E	ABBIED600:2014

5.2.657 LN: FMMXU4 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev9_MV_5	Frequency		
DftHzSel	ABBIED600_Rev2_ENG_SP_DefHzSel_e	Default frequency selection	E	ABBIED600:2014

5.2.658 LN: FMMXU5 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Hz	ABBIED600_Rev9_MV_5	Frequency		
DftHzSel	ABBIED600_Rev2_ENG_SP_DefHzSel_e	Default frequency selection	E	ABBIED600:2014

5.2.659 LN: CSMSQI1 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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SeqA	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Current		
APsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
APsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence high warning	E	ABBIED600:2014
APsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
APsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
ANgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
ANgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high	E	ABBIED600:2014

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		warning		
AZro-HiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
AZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014

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ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.660 LN: CSMSQI2 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqA	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Current		
APsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
APsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence high warning	E	ABBIED600:2014
APsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low	E	ABBIED600:2014

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		warning		
APsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
ANgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
ANgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
AZroHiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
AZroHiWrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014

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NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.661 LN: CSMSQI3 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqA	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequenc		

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		e Current		
APsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
APsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence high warning	E	ABBIED600:2014
APsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
APsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
ANgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
ANgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
AZroHiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014

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AZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero se-quence high war-ning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Posi-tive se-quence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Posi-tive se-quence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Nega-tive se-quence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Nega-tive se-quence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence on delay time	E	ABBIED600:2014
ZroOffTms	ABBIED600_Rev2_ING_SP_e	Zero se-quence off delay time	E	ABBIED600:2014

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5.2.662 LN: CSMSQI4 Name: MSQI (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqA	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Current		
APsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
APsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence high warning	E	ABBIED600:2014
APsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
APsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014

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ANgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
ANgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
AZro-HiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
AZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative	E	ABBIED600:2014

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		se-quence off delay time		
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence off delay time	E	ABBIED600:2014

5.2.663 LN: CSMSQI5 Name: MSQI (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
SeqA	ABBIED600_Rev8_SEQ_2	Posi-tive, Nega-tive and Zero Se-quence Cur-rent		
APsHiAlm	ABBIED600_Rev1_SPS_e	Posi-tive se-quence high alarm	E	ABBIED600:2014
APsHiWrn	ABBIED600_Rev1_SPS_e	Posi-tive	E	ABBIED600:2014

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		se-quence high warning		
APsLoWrn	ABBIED600_Rev1_SPS_e	Positive se-quence low warning	E	ABBIED600:2014
APsLoAlm	ABBIED600_Rev1_SPS_e	Positive se-quence low alarm	E	ABBIED600:2014
ANgHiAlm	ABBIED600_Rev1_SPS_e	Negative se-quence high alarm	E	ABBIED600:2014
ANgHiWrn	ABBIED600_Rev1_SPS_e	Negative se-quence high warning	E	ABBIED600:2014
AZro-HiAlm	ABBIED600_Rev1_SPS_e	Zero se-quence high alarm	E	ABBIED600:2014
AZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero se-quence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive se-quence on	E	ABBIED600:2014

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		delay time		
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.664 LN: CSMSQI6 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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SeqA	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Current		
APsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
APsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence high warning	E	ABBIED600:2014
APsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
APsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
ANgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
ANgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high	E	ABBIED600:2014

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		warning		
AZro-HiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
AZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014

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ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.665 LN: CSMSQI7 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqA	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Current		
APsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
APsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence high warning	E	ABBIED600:2014
APsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low	E	ABBIED600:2014

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		warning		
APsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
ANgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
ANgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
AZroHiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
AZroHiWrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014

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NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.666 LN: CSMSQI8 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqA	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequenc		

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		e Current		
APsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
APsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence high warning	E	ABBIED600:2014
APsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
APsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
ANgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
ANgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
AZroHiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014

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AZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero se-quence high war-ning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Posi-tive se-quence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Posi-tive se-quence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Nega-tive se-quence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Nega-tive se-quence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence on delay time	E	ABBIED600:2014
ZroOffTms	ABBIED600_Rev2_ING_SP_e	Zero se-quence off delay time	E	ABBIED600:2014

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5.2.667 LN: VSMSQI1 Name: MSQI (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqV	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Voltage		
VPsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
VPsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014

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VNgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
VNgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
VZroHiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
VZroHiWrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative	E	ABBIED600:2014

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		se-quence off delay time		
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence off delay time	E	ABBIED600:2014

5.2.668 LN: VSMSQI2 Name: MSQI (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
SeqV	ABBIED600_Rev8_SEQ_2	Posi-tive, Nega-tive and Zero Se-quence Vol-tage		
VPsHiAlm	ABBIED600_Rev1_SPS_e	Posi-tive se-quence high alarm	E	ABBIED600:2014
VPsHiWrn	ABBIED600_Rev1_SPS_e	Posi-tive	E	ABBIED600:2014

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		se-quenc e high war-ning		
VPsLoWrn	ABBIED600_Rev1_SPS_e	Posi-tive se-quenc e low war-ning	E	ABBIED600:20 14
VPsLoAlm	ABBIED600_Rev1_SPS_e	Posi-tive se-quenc e low alarm	E	ABBIED600:20 14
VNgHiAlm	ABBIED600_Rev1_SPS_e	Nega-tive se-quenc e high alarm	E	ABBIED600:20 14
VNgHiWrn	ABBIED600_Rev1_SPS_e	Nega-tive se-quenc e high war-ning	E	ABBIED600:20 14
VZro-HiAlm	ABBIED600_Rev1_SPS_e	Zero se-quenc e high alarm	E	ABBIED600:20 14
VZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero se-quenc e high war-ning	E	ABBIED600:20 14
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Posi-tive se-quenc e on	E	ABBIED600:20 14

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		delay time		
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.669 LN: VSMSQI3 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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SeqV	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Voltage		
VPsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
VPsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
VNgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
VNgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high	E	ABBIED600:2014

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		warning		
VZro-HiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
VZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014

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ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.670 LN: VSMSQI4 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqV	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Voltage		
VPsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
VPsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low	E	ABBIED600:2014

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		warning		
VPsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
VNgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
VNgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
VZroHiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
VZroHiWrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014

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NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.671 LN: VSMSQI5 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqV	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequenc		

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		e Voltage		
VPsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
VPsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
VNgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
VNgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
VZroHiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014

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VZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero se-quence high war-ning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Posi-tive se-quence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Posi-tive se-quence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Nega-tive se-quence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Nega-tive se-quence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence on delay time	E	ABBIED600:2014
ZroOffTms	ABBIED600_Rev2_ING_SP_e	Zero se-quence off delay time	E	ABBIED600:2014

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5.2.672 LN: VSMSQI6 Name: MSQI (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SeqV	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Voltage		
VPsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
VPsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014

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VNgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
VNgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high warning	E	ABBIED600:2014
VZroHiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
VZroHiWrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative	E	ABBIED600:2014

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		se-quence off delay time		
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero se-quence off delay time	E	ABBIED600:2014

5.2.673 LN: VSMSQI7 Name: MSQI (ED2)

Attribute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
SeqV	ABBIED600_Rev8_SEQ_2	Posi-tive, Nega-tive and Zero Se-quence Vol-tage		
VPsHiAlm	ABBIED600_Rev1_SPS_e	Posi-tive se-quence high alarm	E	ABBIED600:2014
VPsHiWrn	ABBIED600_Rev1_SPS_e	Posi-tive	E	ABBIED600:2014

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		se-quenc e low war-ning		
VPsLoWrn	ABBIED600_Rev1_SPS_e	Posi-tive se-quenc e low war-ning	E	ABBIED600:20 14
VPsLoAlm	ABBIED600_Rev1_SPS_e	Posi-tive se-quenc e low alarm	E	ABBIED600:20 14
VNgHiAlm	ABBIED600_Rev1_SPS_e	Nega-tive se-quenc e high alarm	E	ABBIED600:20 14
VNgHiWrn	ABBIED600_Rev1_SPS_e	Nega-tive se-quenc e high war-ning	E	ABBIED600:20 14
VZro-HiAlm	ABBIED600_Rev1_SPS_e	Zero se-quenc e high alarm	E	ABBIED600:20 14
VZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero se-quenc e high war-ning	E	ABBIED600:20 14
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Posi-tive se-quenc e on	E	ABBIED600:20 14

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		delay time		
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014
ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.674 LN: VSMSQI8 Name: MSQI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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SeqV	ABBIED600_Rev8_SEQ_2	Positive, Negative and Zero Sequence Voltage		
VPsHiAlm	ABBIED600_Rev1_SPS_e	Positive sequence high alarm	E	ABBIED600:2014
VPsHiWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoWrn	ABBIED600_Rev1_SPS_e	Positive sequence low warning	E	ABBIED600:2014
VPsLoAlm	ABBIED600_Rev1_SPS_e	Positive sequence low alarm	E	ABBIED600:2014
VNgHiAlm	ABBIED600_Rev1_SPS_e	Negative sequence high alarm	E	ABBIED600:2014
VNgHiWrn	ABBIED600_Rev1_SPS_e	Negative sequence high	E	ABBIED600:2014

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		warning		
VZro-HiAlm	ABBIED600_Rev1_SPS_e	Zero sequence high alarm	E	ABBIED600:2014
VZroHi-Wrn	ABBIED600_Rev1_SPS_e	Zero sequence high warning	E	ABBIED600:2014
PsOnTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence on delay time	E	ABBIED600:2014
PsOffTmms	ABBIED600_Rev2_ING_SP_e	Positive sequence off delay time	E	ABBIED600:2014
NgOnTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence on delay time	E	ABBIED600:2014
NgOffTmms	ABBIED600_Rev2_ING_SP_e	Negative sequence off delay time	E	ABBIED600:2014
ZroOnTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence on delay time	E	ABBIED600:2014

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ZroOffTmms	ABBIED600_Rev2_ING_SP_e	Zero sequence off delay time	E	ABBIED600:2014

5.2.675 LN: PEMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TotW	ABBIED600_Rev3_MV_8	Total Active Power (Total P)		
TotVAr	ABBIED600_Rev3_MV_8	Total Reactive Power (Total Q)		
TotVA	ABBIED600_Rev3_MV_8	Total Apparent Power (Total S)		
TotPF	ABBIED600_Rev8_MV_4	Average Power factor (Total PF)		
WhDir	ABBIED600_Rev3_ENG_SP_DirMod2_e	Active power Dir	E	ABBIED600:2014
VArhDir	ABBIED600_Rev3_ENG_SP_DirMod2_e	Reactive power Dir	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	PEMMXU1 demands	E	ABBIED600:2014,status-only,direct-with-normal-security

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PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	ABBIED600:2014

5.2.676 LN: PEMMTR1 Name: MMTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SupWh	ABBIED600_Rev6_BCR_2	EA_RV_ACM		
SupVArh	ABBIED600_Rev6_BCR_2	ER_RV_ACM		
DmdWh	ABBIED600_Rev6_BCR_2	EA_FWD_ACM		
DmdVArh	ABBIED600_Rev6_BCR_2	ER_FWD_ACM		
IniDmdWh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for forward active energy	E	ABBIED600:2014
IniSupWh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for reverse active energy	E	ABBIED600:2014
IniDmdVArh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for forward reactive energy	E	ABBIED600:2014
IniSupVArh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for reverse reactive energy	E	ABBIED600:2014
EnValRs	ABBIED600_Rev3_SPC_control_e	Reset of accumulated energy readings	E	ABBIED600:2014,status-only,direct-with-normal-security

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PlsOnTm	ABBIED600_Rev8_ASG_SP_i_e	Pulse on time	E	ABBIED600:2014
PlsOffTm	ABBIED600_Rev8_ASG_SP_i_e	Pulse off time	E	ABBIED600:2014
DmdWhPls	ABBIED600_Rev1_SPS_e	Accumulated forward active energy pulse	E	ABBIED600:2014
DmdVArhPls	ABBIED600_Rev1_SPS_e	Accumulated forward reactive energy pulse	E	ABBIED600:2014
SupVArhPls	ABBIED600_Rev1_SPS_e	Accumulated reverse reactive energy pulse	E	ABBIED600:2014
SupWhPls	ABBIED600_Rev1_SPS_e	Accumulated reverse active energy pulse	E	ABBIED600:2014
PlsQty	ABBIED600_Rev2_ING_SP_1_e	Pulse quantity for the energy pulse outputs	E	ABBIED600:2014

5.2.677 LN: PEMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
TotW	ABBIED600_Rev3_MV_8	Total Active Power (Total P)		
TotVAr	ABBIED600_Rev3_MV_8	Total Reactive Power (Total Q)		
TotVA	ABBIED600_Rev3_MV_8	Total Apparent Power (Total S)		

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TotPF	ABBIED600_Rev8_MV_4	Average Power factor (Total PF)		
WhDir	ABBIED600_Rev3_ENG_SP_DirMod2_e	Active power Dir	E	ABBIED600:2014
VAr-hDir	ABBIED600_Rev3_ENG_SP_DirMod2_e	Reactive power Dir	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	PEMMXU2 de-mands	E	ABBIED600:2014,status-only,direct-with-normal-security
PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Measure-ment mode for power calcula-tion	E	ABBIED600:2014

5.2.678 LN: PEMMTR2 Name: MMTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
SupWh	ABBIED600_Rev6_BCR_2	EA_RV_ACM		
SupVArh	ABBIED600_Rev6_BCR_2	ER_RV_ACM		
DmdWh	ABBIED600_Rev6_BCR_2	EA_FWD_ACM		
Dmd-VArh	ABBIED600_Rev6_BCR_2	ER_FWD_ACM		
IniD-mdWh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for for-ward active energy	E	ABBIED600:2014
Ini-SupWh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for	E	ABBIED600:2014

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		reverse active energy		
IniDmd-VArh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for forward reactive energy	E	ABBIED600:2014
Ini-SupVArh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for reverse reactive energy	E	ABBIED600:2014
EnValRs	ABBIED600_Rev3_SPC_control_e	Reset of accumulated energy readings	E	ABBIED600:2014,status-only,direct-with-normal-security
PlsOnTm	ABBIED600_Rev8_ASG_SP_i_e	Pulse on time	E	ABBIED600:2014
PlsOffTm	ABBIED600_Rev8_ASG_SP_i_e	Pulse off time	E	ABBIED600:2014
DmdWhPls	ABBIED600_Rev1_SPS_e	Accumulated forward active energy pulse	E	ABBIED600:2014
Dmd-VArhPls	ABBIED600_Rev1_SPS_e	Accumulated forward reactive energy pulse	E	ABBIED600:2014
SupVAr-hPls	ABBIED600_Rev1_SPS_e	Accumulated reverse reactive energy pulse	E	ABBIED600:2014
SupWhPls	ABBIED600_Rev1_SPS_e	Accumulated reverse active energy pulse	E	ABBIED600:2014
PlsQty	ABBIED600_Rev2_ING_SP_1_e	Pulse quantity for the energy pulse outputs	E	ABBIED600:2014

5.2.679 LN: PEMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security

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Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
TotW	ABBIED600_Rev3_MV_8	Total Active Power (Total P)		
TotVAr	ABBIED600_Rev3_MV_8	Total Reactive Power (Total Q)		
TotVA	ABBIED600_Rev3_MV_8	Total Apparent Power (Total S)		
TotPF	ABBIED600_Rev8_MV_4	Average Power factor (Total PF)		
WhDir	ABBIED600_Rev3_ENG_SP_DirMod2_e	Active power Dir	E	ABBIED600:2014
VArhDir	ABBIED600_Rev3_ENG_SP_DirMod2_e	Reactive power Dir	E	ABBIED600:2014
RcdRs	ABBIED600_Rev3_SPC_control_e	PEMMXU3 demands	E	ABBIED600:2014,status-only,direct-with-normal-security
PwrMeasMod	ABBIED600_Rev4_ENG_SP_PwrMeasMod_e	Measurement mode for power calculation	E	ABBIED600:2014

5.2.680 LN: PEMMTR3 Name: MMTR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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SupWh	ABBIED600_Rev6_BCR_2	EA_RV_ACM		
SupVArh	ABBIED600_Rev6_BCR_2	ER_RV_ACM		
DmdWh	ABBIED600_Rev6_BCR_2	EA_FWD_ACM		
Dmd-VArh	ABBIED600_Rev6_BCR_2	ER_FWD_ACM		
IniD-mdWh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for for-ward active energy	E	ABBIED600:2014
Ini-SupWh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for re-verse active energy	E	ABBIED600:2014
IniDmd-VArh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for for-ward reactive energy	E	ABBIED600:2014
Ini-SupVArh	ABBIED600_Rev2_ING_SP_1_e	Preset Initial value for re-verse reactive energy	E	ABBIED600:2014
EnValRs	ABBIED600_Rev3_SPC_control_e	Reset of accu-mulated energy rea-dings	E	ABBIED600:2014,status-only,direct-with-normal-security
PlsOnTm	ABBIED600_Rev8_ASG_SP_i_e	Pulse on time	E	ABBIED600:2014
PlsOffTm	ABBIED600_Rev8_ASG_SP_i_e	Pulse off time	E	ABBIED600:2014
DmdWh Pls	ABBIED600_Rev1_SPS_e	Accumulated forward ac-tive energy pulse	E	ABBIED600:2014
Dmd-VArhPls	ABBIED600_Rev1_SPS_e	Accumulated forward reac-tive energy pulse	E	ABBIED600:2014
SupVAr-hPls	ABBIED600_Rev1_SPS_e	Accumulated reverse reac-tive energy pulse	E	ABBIED600:2014

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SupWhPls	ABBIED600_Rev1_SPS_e	Accumulated reverse active energy pulse	E	ABBIED600:2014
PlsQty	ABBIED600_Rev2_ING_SP_1_e	Pulse quantity for the energy pulse outputs	E	ABBIED600:2014

5.2.681 LN: VAMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PPV	ABBIED600_Rev6_DEL_onephaseAB_full_i	Single phase to phase AB voltages		
PhV	ABBIED600_Rev6_WYE_onephaseA_full_i	Single phase to ground A voltage		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used	E	ABBIED600:2014

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		measurement mode		
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014

5.2.682 LN: VAMMXU2 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PPV	ABBIED600_Rev6_DEL_onephaseAB_full_i	Single phase to phase AB voltages		
PhV	ABBIED600_Rev6_WYE_onephaseA_full_i	Single phase to ground A voltage		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all		

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		bi-nary out-puts		
VMeas Mod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Se-lects used mea-sure-ment mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High war-ning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low war-ning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014

5.2.683 LN: VAMMXU3 Name: MMXU (ED2)

Attri-bute name	Attribute type	Ex-pla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PPV	ABBIED600_Rev6_DEL_onephaseAB_full_i	Singl e phase to phase AB volta-ges		
PhV	ABBIED600_Rev6_WYE_onephaseA_full_i	Singl e phase to groun		

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		d A voltage		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014

5.2.684 LN: VAMMXU4 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PPV	ABBIED600_Rev6_DEL_onephaseAB_full_i	Single phase to phase AB		

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		voltages		
PhV	ABBIED600_Rev6_WYE_onephaseA_full_i	Single phase to ground A voltage		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
VMeasMod	ABBIED600_Rev4_ENG_SP_MeasMod_Sub3_e	Selects used measurement mode	E	ABBIED600:2014
HiAlm	ABBIED600_Rev1_SPS_e	High alarm	E	ABBIED600:2014
HiWrn	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014
LoWrn	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014
LoAlm	ABBIED600_Rev1_SPS_e	Low alarm	E	ABBIED600:2014

5.2.685 LN: MSCPMRI1 Name: PMRI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Op	ABBIED600_Rev1_ACT_simple	Operate		

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StrInh	ABBIED600_Rev1_SPS_simple	Restart inhibited		
StrInhTmm	ABBIED600_Rev1_INS	Restart inhibit time		
MaxNumStr	ABBIED600_Rev2_ING_SG	Maximum number of cold start allowed		
MaxWrmStr	ABBIED600_Rev2_ING_SG	Maximum number of warm start allowed		
StrVal	ABBIED600_Rev8_ASG_SG_i_e	Thermal threshold to define a warm start	E	IEC 61850-7-4:2007
Blk	ABBIED600_Rev1_SPS_simple	Dynamic blocking of function		
CldStrCnt	ABBIED600_Rev1_INS_e	Count value of cold start	E	ABBIED600:2014
WrmStrCnt	ABBIED600_Rev1_INS_e	Count value of warm start	E	ABBIED600:2014
EnaEmgStr	ABBIED600_Rev1_SPS_simple_e	Enable emergency start to disable	E	ABBIED600:2014

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		lock of start motor		
Cnt-DecTmm	ABBIED600_Rev2_ING_SG_e	Counter decrease time	E	ABBIED600:2014
CntDec-Mult	ABBIED600_Rev8_ASG_SG_i_e	Multiplier for count decrease timer	E	ABBIED600:2014
CntRs	ABBIED600_Rev3_SPC_control_e	Reset counters	E	ABBIED600:2014,status-only,direct-with-normal-security
TestPro	ABBIED600_Rev8_ENC_TestPro_Sub16_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.686 LN: DSTRPSB1 Name: RPSB (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Impedance between inner and outer characteristic		

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BlkZn	ABBIED600_Rev1_SPS	Power swing detected		
SwgTmms	ABBIED600_Rev2_ING_SG_time	Power swing detection timer for impedance stays between the inner characteristic and outer characteristic		
NgEna	ABBIED600_Rev2_SPG_SP	Negative sequence current supervision enabled		
InnR1Fwd	ABBIED600_Rev8_ASG_SG_i_e	Positive sequence resistive zone reach, inner border	E	ABBIED600:2014
InnX1Fwd	ABBIED600_Rev8_ASG_SG_i_e	Positive	E	ABBIED600:2014

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		se-quenc e reac-tive zone reach, inner border		
InnX1Rv	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reac-tive zone reach in re-verse direc-tion, inner border	E	ABBIED600:2014
InnMin-Ris	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum resis-tive reach, inner border	E	ABBIED600:2014
OutrR1F wd	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e re-sistive zone reach, outer border	E	ABBIED600:2014
OutrX1F wd	ABBIED600_Rev8_ASG_SG_i_e	Posi-tive se-quenc e reac-tive zone reach,	E	ABBIED600:2014

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		outer border		
OutrX1Rv	ABBIED600_Rev8_ASG_SG_i_e	Positive sequence reactive zone reach in reverse direction, outer border	E	ABBIED600:2014
OutrMinRis	ABBIED600_Rev8_ASG_SG_i_e	Minimum resistive reach, outer border	E	ABBIED600:2014
LodInnR1Fwd	ABBIED600_Rev8_ASG_SG_i_e	Resistive forward reach of inner characteristic for load discrimination	E	ABBIED600:2014
LodInnR1Rv	ABBIED600_Rev8_ASG_SG_i_e	Resistive reverse reach of inner characteristic	E	ABBIED600:2014

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		for load discri-mi-nation		
LodOutrR1Fwd	ABBIED600_Rev8_ASG_SG_i_e	Resis-tive for-ward reach of ou-ter cha-rac-teristic for load discri-mi-nation	E	ABBIED600:2014
LodOutrR1Rv	ABBIED600_Rev8_ASG_SG_i_e	Resis-tive re-verse reach of ou-ter cha-rac-teristic for load discri-mi-nation	E	ABBIED600:2014
AngLod-Max	ABBIED600_Rev8_ASG_SG_i_e	Max impe-dance angle, load discri-mi-nation	E	ABBIED600:2014
AngLod-Min	ABBIED600_Rev8_ASG_SG_i_e	Min impe-dance angle, load	E	ABBIED600:2014

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		discri-mi-nation		
MaxNg-SeqA	ABBIED600_Rev8_ASG_SP_i_e	Maxi-mum allo-wed nega-tive se-quenc e cur-rent for po-wer swing detec-tion	E	ABBIED600:2014
NgSeqTm ms	ABBIED600_Rev2_ING_SP_time_e	Time for ne-gative se-quenc e cur-rent super-vision blocki ng the func-tion	E	ABBIED600:2014
SlwS-wgTmms	ABBIED600_Rev2_ING_SP_time_e	Time for slow swing super-vision blocki ng the func-tion	E	ABBIED600:2014
PlsTmms	ABBIED600_Rev2_ING_SP_time_e	Time for hol-ding output PSB	E	ABBIED600:2014

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ZChrModPP	ABBIED600_Rev2_ENG_SP_ZChrMod_e	Impedance characteristic	E	ABBIED600:2014
SlowSwgEna	ABBIED600_Rev2_SPG_SP_e	Slow swing supervision enabled	E	ABBIED600:2014
LodDsrMod	ABBIED600_Rev1_SPG_SG_e	Enable load discrimination	E	ABBIED600:2014
TestProRl	ABBIED600_Rev13_ENC_TestProRl_Sub6_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security

5.2.687 LN: DSTMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ZPs	ABBIED600_Rev7_CMV_S_1_e	Positive sequence impedance	E	ABBIED600:2014

5.2.688 LN: LBMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ZPs	ABBIED600_Rev7_CMV_S_1_e	Positive sequence impedance	E	ABBIED600:2014

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5.2.689 LN: DNZPDIS1 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Direction mode		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
TestPro	ABBIED600_Rev8_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
NgSeqZFw	ABBIED600_Rev8_ASG_SG_i_e	Negative sequence impedance threshold in forward direction	E	ABBIED600:2014
NgSeqZRv	ABBIED600_Rev8_ASG_SG_i_e	Negative sequence	E	ABBIED600:2014

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		impedance threshold in reverse direction		
RstFact	ABBIED600_Rev8_ASG_SG_i_e	Restrain factor	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
MinNgSeqFwA	ABBIED600_Rev8_ASG_SG_i_e	Minimum forward negative sequence current	E	ABBIED600:2014
MinNgSeqRvA	ABBIED600_Rev8_ASG_SG_i_e	Minimum reverse negative sequence current	E	ABBIED600:2014

5.2.690 LN: DNZMMXU1 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ZNg	ABBIED600_Rev7_CMV_S_1_e	Negative sequence impedance	E	ABBIED600:2014

5.2.691 LN: DNZPDIS2 Name: PDIS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Direction mode		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
TestPro	ABBIED600_Rev8_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
NgSeqZFw	ABBIED600_Rev8_ASG_SG_i_e	Negative sequence impedance threshold in forward direction	E	ABBIED600:2014
NgSeqZRv	ABBIED600_Rev8_ASG_SG_i_e	Negative sequence impedance threshold in reverse	E	ABBIED600:2014

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		direc-tion		
RstFact	ABBIED600_Rev8_ASG_SG_i_e	Restrai n fac-tor	E	ABBIED600:2014
StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
MinNgSeqF wA	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum for-ward nega-tive se-quence current	E	ABBIED600:2014
MinNgSeqR vA	ABBIED600_Rev8_ASG_SG_i_e	Mini-mum reverse nega-tive se-quence current	E	ABBIED600:2014

5.2.692 LN: DNZMMXU2 Name: MMXU (ED2)

Attri-bute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ZNg	ABBIED600_Rev7_CMV_S_1_e	Negative se-quence impe-dance	E	ABBIED600:2014

5.2.693 LN: DNZPDIS3 Name: PDIS (ED2)

Attribute name	Attribute type	Expla-nation	M/O/ E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_O ffOn_FD	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		

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Blk	ABBIED600_Rev1_SPS	Block signal for all binary outputs		
Str	ABBIED600_Rev1_ACD_simple	Start		
Op	ABBIED600_Rev1_ACT_simple	Operate		
DirMod	ABBIED600_Rev3_ENG_SG_DirMod	Direction mode		
OpDlTmms	ABBIED600_Rev2_ING_SG	Operate delay time		
RsDlTmms	ABBIED600_Rev2_ING_SP_1	Reset delay time		
TestPro	ABBIED600_Rev8_ENC_TestPro_e	Test control for outputs	E	ABBIED600:2014,status-only,direct-with-normal-security
NgSeqZFw	ABBIED600_Rev8_ASG_SG_i_e	Negative sequence impedance threshold in forward direction	E	ABBIED600:2014
NgSeqZRv	ABBIED600_Rev8_ASG_SG_i_e	Negative sequence impedance threshold in reverse direction	E	ABBIED600:2014
RstFact	ABBIED600_Rev8_ASG_SG_i_e	Restrain factor	E	ABBIED600:2014

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StrDur	ABBIED600_Rev7_MV_2_e	Ratio of start time / operate time	E	ABBIED600:2014
MinNgSeqFwA	ABBIED600_Rev8_ASG_SG_i_e	Minimum forward negative sequence current	E	ABBIED600:2014
MinNgSeqRvA	ABBIED600_Rev8_ASG_SG_i_e	Minimum reverse negative sequence current	E	ABBIED600:2014

5.2.694 LN: DNZMMXU3 Name: MMXU (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ZNg	ABBIED600_Rev7_CMV_S_1_e	Negative sequence impedance	E	ABBIED600:2014

5.2.695 LN: SGBIGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		

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Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
Ind9	ABBIED600_Rev1_SPS	Input 9		
Ind10	ABBIED600_Rev1_SPS	Input 10		
Ind11	ABBIED600_Rev1_SPS	Input 11		
Ind12	ABBIED600_Rev1_SPS	Input 12		
Ind13	ABBIED600_Rev1_SPS	Input 13		
Ind14	ABBIED600_Rev1_SPS	Input 14		
Ind15	ABBIED600_Rev1_SPS	Input 15		
Ind16	ABBIED600_Rev1_SPS	Input 16		
FilTmms1	ABBIED600_Rev2_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev2_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev2_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev2_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev2_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev2_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev2_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev2_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
FilTmms9	ABBIED600_Rev2_ING_SP_1_e	Input 9 filter time	E	ABBIED600:2014
FilTmms10	ABBIED600_Rev2_ING_SP_1_e	Input 10 filter time	E	ABBIED600:2014

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FilTmms11	ABBIED600_Rev2_ING_SP_1_e	Input 11 filter time	E	ABBIED600:2014
FilTmms12	ABBIED600_Rev2_ING_SP_1_e	Input 12 filter time	E	ABBIED600:2014
FilTmms13	ABBIED600_Rev2_ING_SP_1_e	Input 13 filter time	E	ABBIED600:2014
FilTmms14	ABBIED600_Rev2_ING_SP_1_e	Input 14 filter time	E	ABBIED600:2014
FilTmms15	ABBIED600_Rev2_ING_SP_1_e	Input 15 filter time	E	ABBIED600:2014
FilTmms16	ABBIED600_Rev2_ING_SP_1_e	Input 16 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev2_SPG_SP_e	Input 1 inver-sion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev2_SPG_SP_e	Input 2 inver-sion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev2_SPG_SP_e	Input 3 inver-sion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev2_SPG_SP_e	Input 4 inver-sion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev2_SPG_SP_e	Input 5 inver-sion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev2_SPG_SP_e	Input 6 inver-sion	E	ABBIED600:2014
DigInInv7	ABBIED600_Rev2_SPG_SP_e	Input 7 inver-sion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev2_SPG_SP_e	Input 8 inver-sion	E	ABBIED600:2014

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DigInInv9	ABBIED600_Rev2_SPG_SP_e	Input 9 inversion	E	ABBIED600:2014
DigInInv10	ABBIED600_Rev2_SPG_SP_e	Input 10 inversion	E	ABBIED600:2014
DigInInv11	ABBIED600_Rev2_SPG_SP_e	Input 11 inversion	E	ABBIED600:2014
DigInInv12	ABBIED600_Rev2_SPG_SP_e	Input 12 inversion	E	ABBIED600:2014
DigInInv13	ABBIED600_Rev2_SPG_SP_e	Input 13 inversion	E	ABBIED600:2014
DigInInv14	ABBIED600_Rev2_SPG_SP_e	Input 14 inversion	E	ABBIED600:2014
DigInInv15	ABBIED600_Rev2_SPG_SP_e	Input 15 inversion	E	ABBIED600:2014
DigInInv16	ABBIED600_Rev2_SPG_SP_e	Input 16 inversion	E	ABBIED600:2014
DigInVLev	ABBIED600_Rev2_ING_SP_e	Input threshold voltage	E	ABBIED600:2014
DigInVHys	ABBIED600_Rev2_ING_SP_e	Input threshold hysteresis	E	ABBIED600:2014

5.2.696 LN: SFBIGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		

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Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
Ind9	ABBIED600_Rev1_SPS	Input 9		
Ind10	ABBIED600_Rev1_SPS	Input 10		
Ind11	ABBIED600_Rev1_SPS	Input 11		
Ind12	ABBIED600_Rev1_SPS	Input 12		
Ind13	ABBIED600_Rev1_SPS	Input 13		
Ind14	ABBIED600_Rev1_SPS	Input 14		
Ind15	ABBIED600_Rev1_SPS	Input 15		
Ind16	ABBIED600_Rev1_SPS	Input 16		
FilTmms1	ABBIED600_Rev2_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev2_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev2_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev2_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev2_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev2_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev2_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev2_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
FilTmms9	ABBIED600_Rev2_ING_SP_1_e	Input 9 filter time	E	ABBIED600:2014

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FilTmms10	ABBIED600_Rev2_ING_SP_1_e	Input 10 filter time	E	ABBIED600:2014
FilTmms11	ABBIED600_Rev2_ING_SP_1_e	Input 11 filter time	E	ABBIED600:2014
FilTmms12	ABBIED600_Rev2_ING_SP_1_e	Input 12 filter time	E	ABBIED600:2014
FilTmms13	ABBIED600_Rev2_ING_SP_1_e	Input 13 filter time	E	ABBIED600:2014
FilTmms14	ABBIED600_Rev2_ING_SP_1_e	Input 14 filter time	E	ABBIED600:2014
FilTmms15	ABBIED600_Rev2_ING_SP_1_e	Input 15 filter time	E	ABBIED600:2014
FilTmms16	ABBIED600_Rev2_ING_SP_1_e	Input 16 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev2_SPG_SP_e	Input 1 inver-sion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev2_SPG_SP_e	Input 2 inver-sion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev2_SPG_SP_e	Input 3 inver-sion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev2_SPG_SP_e	Input 4 inver-sion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev2_SPG_SP_e	Input 5 inver-sion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev2_SPG_SP_e	Input 6 inver-sion	E	ABBIED600:2014
DigInInv7	ABBIED600_Rev2_SPG_SP_e	Input 7 inver-sion	E	ABBIED600:2014

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DigInInv8	ABBIED600_Rev2_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
DigInInv9	ABBIED600_Rev2_SPG_SP_e	Input 9 inversion	E	ABBIED600:2014
DigInInv10	ABBIED600_Rev2_SPG_SP_e	Input 10 inversion	E	ABBIED600:2014
DigInInv11	ABBIED600_Rev2_SPG_SP_e	Input 11 inversion	E	ABBIED600:2014
DigInInv12	ABBIED600_Rev2_SPG_SP_e	Input 12 inversion	E	ABBIED600:2014
DigInInv13	ABBIED600_Rev2_SPG_SP_e	Input 13 inversion	E	ABBIED600:2014
DigInInv14	ABBIED600_Rev2_SPG_SP_e	Input 14 inversion	E	ABBIED600:2014
DigInInv15	ABBIED600_Rev2_SPG_SP_e	Input 15 inversion	E	ABBIED600:2014
DigInInv16	ABBIED600_Rev2_SPG_SP_e	Input 16 inversion	E	ABBIED600:2014
DigInVLev	ABBIED600_Rev2_ING_SP_e	Input threshold voltage	E	ABBIED600:2014
DigInVHys	ABBIED600_Rev2_ING_SP_e	Input threshold hysteresis	E	ABBIED600:2014

5.2.697 LN: SEBIGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
Ind9	ABBIED600_Rev1_SPS	Input 9		
Ind10	ABBIED600_Rev1_SPS	Input 10		
Ind11	ABBIED600_Rev1_SPS	Input 11		
Ind12	ABBIED600_Rev1_SPS	Input 12		
Ind13	ABBIED600_Rev1_SPS	Input 13		
Ind14	ABBIED600_Rev1_SPS	Input 14		
Ind15	ABBIED600_Rev1_SPS	Input 15		
Ind16	ABBIED600_Rev1_SPS	Input 16		
FilTmms1	ABBIED600_Rev2_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev2_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev2_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014
FilTmms4	ABBIED600_Rev2_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev2_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev2_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev2_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev2_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014

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FilTmms9	ABBIED600_Rev2_ING_SP_1_e	Input 9 filter time	E	ABBIED600:2014
FilTmms10	ABBIED600_Rev2_ING_SP_1_e	Input 10 filter time	E	ABBIED600:2014
FilTmms11	ABBIED600_Rev2_ING_SP_1_e	Input 11 filter time	E	ABBIED600:2014
FilTmms12	ABBIED600_Rev2_ING_SP_1_e	Input 12 filter time	E	ABBIED600:2014
FilTmms13	ABBIED600_Rev2_ING_SP_1_e	Input 13 filter time	E	ABBIED600:2014
FilTmms14	ABBIED600_Rev2_ING_SP_1_e	Input 14 filter time	E	ABBIED600:2014
FilTmms15	ABBIED600_Rev2_ING_SP_1_e	Input 15 filter time	E	ABBIED600:2014
FilTmms16	ABBIED600_Rev2_ING_SP_1_e	Input 16 filter time	E	ABBIED600:2014
DigInInv1	ABBIED600_Rev2_SPG_SP_e	Input 1 inver-sion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev2_SPG_SP_e	Input 2 inver-sion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev2_SPG_SP_e	Input 3 inver-sion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev2_SPG_SP_e	Input 4 inver-sion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev2_SPG_SP_e	Input 5 inver-sion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev2_SPG_SP_e	Input 6 inver-sion	E	ABBIED600:2014

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DigInInv7	ABBIED600_Rev2_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev2_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
DigInInv9	ABBIED600_Rev2_SPG_SP_e	Input 9 inversion	E	ABBIED600:2014
DigInInv10	ABBIED600_Rev2_SPG_SP_e	Input 10 inversion	E	ABBIED600:2014
DigInInv11	ABBIED600_Rev2_SPG_SP_e	Input 11 inversion	E	ABBIED600:2014
DigInInv12	ABBIED600_Rev2_SPG_SP_e	Input 12 inversion	E	ABBIED600:2014
DigInInv13	ABBIED600_Rev2_SPG_SP_e	Input 13 inversion	E	ABBIED600:2014
DigInInv14	ABBIED600_Rev2_SPG_SP_e	Input 14 inversion	E	ABBIED600:2014
DigInInv15	ABBIED600_Rev2_SPG_SP_e	Input 15 inversion	E	ABBIED600:2014
DigInInv16	ABBIED600_Rev2_SPG_SP_e	Input 16 inversion	E	ABBIED600:2014
DigInVLev	ABBIED600_Rev2_ING_SP_e	Input threshold voltage	E	ABBIED600:2014
DigInVHys	ABBIED600_Rev2_ING_SP_e	Input threshold hysteresis	E	ABBIED600:2014
CntMod14	ABBIED600_Rev2_SPG_SP_e	Input in countermode	E	ABBIED600:2014
CntInVLev	ABBIED600_Rev2_ING_SP_e	Input counter threshol	E	ABBIED600:2014

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		d voltage		
CntInVHys	ABBIED600_Rev2_ING_SP_e	Input counter threshold hysteresis	E	ABBIED600:2014

5.2.698 LN: SDBIGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
Ind9	ABBIED600_Rev1_SPS	Input 9		
Ind10	ABBIED600_Rev1_SPS	Input 10		
Ind11	ABBIED600_Rev1_SPS	Input 11		
Ind12	ABBIED600_Rev1_SPS	Input 12		
Ind13	ABBIED600_Rev1_SPS	Input 13		
Ind14	ABBIED600_Rev1_SPS	Input 14		
Ind15	ABBIED600_Rev1_SPS	Input 15		
Ind16	ABBIED600_Rev1_SPS	Input 16		
FilTmms1	ABBIED600_Rev2_ING_SP_1_e	Input 1 filter time	E	ABBIED600:2014
FilTmms2	ABBIED600_Rev2_ING_SP_1_e	Input 2 filter time	E	ABBIED600:2014
FilTmms3	ABBIED600_Rev2_ING_SP_1_e	Input 3 filter time	E	ABBIED600:2014

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FilTmms4	ABBIED600_Rev2_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev2_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev2_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev2_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev2_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
FilTmms9	ABBIED600_Rev2_ING_SP_1_e	Input 9 filter time	E	ABBIED600:2014
FilTmms10	ABBIED600_Rev2_ING_SP_1_e	Input 10 filter time	E	ABBIED600:2014
FilTmms11	ABBIED600_Rev2_ING_SP_1_e	Input 11 filter time	E	ABBIED600:2014
FilTmms12	ABBIED600_Rev2_ING_SP_1_e	Input 12 filter time	E	ABBIED600:2014
FilTmms13	ABBIED600_Rev2_ING_SP_1_e	Input 13 filter time	E	ABBIED600:2014
FilTmms14	ABBIED600_Rev2_ING_SP_1_e	Input 14 filter time	E	ABBIED600:2014
CntMod14	ABBIED600_Rev2_SPG_SP_e	Input 14 counter-mode	E	ABBIED600:2014
FilTmms15	ABBIED600_Rev2_ING_SP_1_e	Input 15 filter time	E	ABBIED600:2014
FilTmms16	ABBIED600_Rev2_ING_SP_1_e	Input 16 filter time	E	ABBIED600:2014

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DigInInv1	ABBIED600_Rev2_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev2_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev2_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev2_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev2_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev2_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
DigInInv7	ABBIED600_Rev2_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev2_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
DigInInv9	ABBIED600_Rev2_SPG_SP_e	Input 9 inversion	E	ABBIED600:2014
DigInInv10	ABBIED600_Rev2_SPG_SP_e	Input 10 inversion	E	ABBIED600:2014
DigInInv11	ABBIED600_Rev2_SPG_SP_e	Input 11 inversion	E	ABBIED600:2014
DigInInv12	ABBIED600_Rev2_SPG_SP_e	Input 12 inversion	E	ABBIED600:2014
DigInInv13	ABBIED600_Rev2_SPG_SP_e	Input 13 inversion	E	ABBIED600:2014
DigInInv14	ABBIED600_Rev2_SPG_SP_e	Input 14 inversion	E	ABBIED600:2014

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DigInInv15	ABBIED600_Rev2_SPG_SP_e	Input 15 inversion	E	ABBIED600:2014
DigInInv16	ABBIED600_Rev2_SPG_SP_e	Input 16 inversion	E	ABBIED600:2014
DigInVLev	ABBIED600_Rev2_ING_SP_e	Input threshold voltage	E	ABBIED600:2014
DigInVHys	ABBIED600_Rev2_ING_SP_e	Input threshold hysteresis	E	ABBIED600:2014
CntInVLev	ABBIED600_Rev2_ING_SP_e	Input counter threshold voltage	E	ABBIED600:2014
CntInVHys	ABBIED600_Rev2_ING_SP_e	Input counter threshold hysteresis	E	ABBIED600:2014

5.2.699 LN: SDAIGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
AnIn1	ABBIED600_Rev10_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev10_MV_6	Analogue		

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		input 2		
AnIn3	ABBIED600_Rev10_MV_6	Analogue input 3		
AnIn4	ABBIED600_Rev10_MV_6	Analogue input 4		
AnIn5	ABBIED600_Rev10_MV_6	Analogue input 5		
AnIn6	ABBIED600_Rev10_MV_6	Analogue input 6		
AnIn7	ABBIED600_Rev10_MV_6	Analogue input 7		
AnIn8	ABBIED600_Rev10_MV_6	Analogue input 8		
AnIn9	ABBIED600_Rev10_MV_6	Analogue input 9		
AnIn10	ABBIED600_Rev10_MV_6	Analogue input 10		
AnIn11	ABBIED600_Rev10_MV_6	Analogue		

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		input 11		
AnIn12	ABBIED600_Rev10_MV_6	Ana-lo-gue input 12		
InMin-Val1	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val2	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val3	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val4	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val5	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val6	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val7	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val8	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val9	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val10	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val11	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val12	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014

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InMaxVal1	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal2	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal3	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal4	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal5	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal6	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal7	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal8	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal9	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal10	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal11	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014

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InMaxVal12	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMod1	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod2	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod3	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod4	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod5	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod6	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod7	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod8	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod9	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod10	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod11	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod12	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
ChDlSel3	ABBIED600_Rev3_ENG_SP_RtdChlDly_e	Update interval	E	ABBIED600:2014

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ChDlSel 4	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 5	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 6	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 7	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 8	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 9	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 10	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 11	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 12	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
HiAlm1	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 1	E	ABBIED600:20 14
HiAlm2	ABBIED600_Rev1_SPS_e	High alar	E	ABBIED600:20 14

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		m ana-lo-gue input 2		
HiAlm3	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 3	E	ABBIED600:20 14
HiAlm4	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 4	E	ABBIED600:20 14
HiAlm5	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 5	E	ABBIED600:20 14
HiAlm6	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 6	E	ABBIED600:20 14
HiAlm7	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 7	E	ABBIED600:20 14

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HiAlm8	ABBIED600_Rev1_SPS_e	High alarm analogue input 8	E	ABBIED600:2014
HiAlm9	ABBIED600_Rev1_SPS_e	High alarm analogue input 9	E	ABBIED600:2014
HiAlm10	ABBIED600_Rev1_SPS_e	High alarm analogue input 10	E	ABBIED600:2014
HiAlm11	ABBIED600_Rev1_SPS_e	High alarm analogue input 11	E	ABBIED600:2014
HiAlm12	ABBIED600_Rev1_SPS_e	High alarm analogue input 12	E	ABBIED600:2014
HiWrn1	ABBIED600_Rev1_SPS_e	High warning analogue	E	ABBIED600:2014

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		input 1		
HiWrn2	ABBIED600_Rev1_SPS_e	High warning analogue input 2	E	ABBIED600:2014
HiWrn3	ABBIED600_Rev1_SPS_e	High warning analogue input 3	E	ABBIED600:2014
HiWrn4	ABBIED600_Rev1_SPS_e	High warning analogue input 4	E	ABBIED600:2014
HiWrn5	ABBIED600_Rev1_SPS_e	High warning analogue input 5	E	ABBIED600:2014
HiWrn6	ABBIED600_Rev1_SPS_e	High warning analogue input 6	E	ABBIED600:2014
HiWrn7	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014

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		analogue input 7		
HiWrn8	ABBIED600_Rev1_SPS_e	High warning analogue input 8	E	ABBIED600:2014
HiWrn9	ABBIED600_Rev1_SPS_e	High warning analogue input 9	E	ABBIED600:2014
HiWrn10	ABBIED600_Rev1_SPS_e	High warning analogue input 10	E	ABBIED600:2014
HiWrn11	ABBIED600_Rev1_SPS_e	High warning analogue input 11	E	ABBIED600:2014
HiWrn12	ABBIED600_Rev1_SPS_e	High warning analogue input 12	E	ABBIED600:2014

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LoWrn1	ABBIED600_Rev1_SPS_e	Low warning analogue input 1	E	ABBIED600:2014
LoWrn2	ABBIED600_Rev1_SPS_e	Low warning analogue input 2	E	ABBIED600:2014
LoWrn3	ABBIED600_Rev1_SPS_e	Low warning analogue input 3	E	ABBIED600:2014
LoWrn4	ABBIED600_Rev1_SPS_e	Low warning analogue input 4	E	ABBIED600:2014
LoWrn5	ABBIED600_Rev1_SPS_e	Low warning analogue input 5	E	ABBIED600:2014
LoWrn6	ABBIED600_Rev1_SPS_e	Low warning analogue	E	ABBIED600:2014

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		input 6		
LoWrn7	ABBIED600_Rev1_SPS_e	Low warning analogue input 7	E	ABBIED600:2014
LoWrn8	ABBIED600_Rev1_SPS_e	Low warning analogue input 8	E	ABBIED600:2014
LoWrn9	ABBIED600_Rev1_SPS_e	Low warning analogue input 9	E	ABBIED600:2014
LoWrn10	ABBIED600_Rev1_SPS_e	Low warning analogue input 10	E	ABBIED600:2014
LoWrn11	ABBIED600_Rev1_SPS_e	Low warning analogue input 11	E	ABBIED600:2014
LoWrn12	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014

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		ana-lo-gue input 12		
LoAlm1	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 1	E	ABBIED600:20 14
LoAlm2	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 2	E	ABBIED600:20 14
LoAlm3	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 3	E	ABBIED600:20 14
LoAlm4	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 4	E	ABBIED600:20 14
LoAlm5	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 5	E	ABBIED600:20 14
LoAlm6	ABBIED600_Rev1_SPS_e	Low alar	E	ABBIED600:20 14

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		m ana-lo-gue input 6		
LoAlm7	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 7	E	ABBIED600:20 14
LoAlm8	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 8	E	ABBIED600:20 14
LoAlm9	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 9	E	ABBIED600:20 14
LoAlm1 0	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 10	E	ABBIED600:20 14
LoAlm11	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 11	E	ABBIED600:20 14

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LoAlm12	ABBIED600_Rev1_SPS_e	Low alarm ana-lo-gue input 12	E	ABBIED600:2014
SenFlt1	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 1	E	ABBIED600:2014
SenFlt2	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 2	E	ABBIED600:2014
SenFlt3	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 3	E	ABBIED600:2014
SenFlt4	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 4	E	ABBIED600:2014
SenFlt5	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue	E	ABBIED600:2014

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		input 5		
SenFlt6	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 6	E	ABBIED600:2014
SenFlt7	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 7	E	ABBIED600:2014
SenFlt8	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 8	E	ABBIED600:2014
SenFlt9	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 9	E	ABBIED600:2014
SenFlt10	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 10	E	ABBIED600:2014
SenFlt11	ABBIED600_Rev1_SPS_e	Sensor fault	E	ABBIED600:2014

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		ana-lo-gue input 11		
SenFlt12	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 12	E	ABBIED600:2014

5.2.700 LN: SDAOGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mod e		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
AnOut1	ABBIED600_Rev9_APC_control	Ana-lo-gue out-put 1		status-only,di-rect-with-nor-mal-security
AnOut2	ABBIED600_Rev9_APC_control	Ana-lo-gue out-put 2		status-only,di-rect-with-nor-mal-security
AnOut3	ABBIED600_Rev9_APC_control	Ana-lo-gue out-put 3		status-only,di-rect-with-nor-mal-security
AnOut4	ABBIED600_Rev9_APC_control	Ana-lo-gue out-put 4		status-only,di-rect-with-nor-mal-security

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AnOut5	ABBIED600_Rev9_APC_control	Analogue output 5		status-only,direct-with-normal-security
AnOut6	ABBIED600_Rev9_APC_control	Analogue output 6		status-only,direct-with-normal-security
OutMod1	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod2	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod3	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod4	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod5	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod6	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
AnIn1	ABBIED600_Rev10_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev10_MV_6	Analogue input 2		

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AnIn3	ABBIED600_Rev10_MV_6	Ana-lo-gue input 3		
AnIn4	ABBIED600_Rev10_MV_6	Ana-lo-gue input 4		
AnIn5	ABBIED600_Rev10_MV_6	Ana-lo-gue input 5		
AnIn6	ABBIED600_Rev10_MV_6	Ana-lo-gue input 6		
NumKnPts1	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
NumKnPts2	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
NumKnPts3	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
NumKnPts4	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
NumKnPts5	ABBIED600_Rev2_ING_SP_1_e	Number	E	ABBIED600:2014

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		of knee points		
NumKnPts6	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
AnVa-lOut1	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 1 rang e	E	ABBIED600:2014
AnVa-lOut2	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 2 rang e	E	ABBIED600:2014
AnVa-lOut3	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 3 rang e	E	ABBIED600:2014
AnVa-lOut4	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 4 rang e	E	ABBIED600:2014
AnVa-lOut5	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 5 rang e	E	ABBIED600:2014

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AnVa-lOut6	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 6 rang e	E	ABBIED600:2 014

5.2.701 LN: SCBIGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Expla-nation	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_O n	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
Ind9	ABBIED600_Rev1_SPS	Input 9		
Ind10	ABBIED600_Rev1_SPS	Input 10		
Ind11	ABBIED600_Rev1_SPS	Input 11		
Ind12	ABBIED600_Rev1_SPS	Input 12		
Ind13	ABBIED600_Rev1_SPS	Input 13		
Ind14	ABBIED600_Rev1_SPS	Input 14		
Ind15	ABBIED600_Rev1_SPS	Input 15		
Ind16	ABBIED600_Rev1_SPS	Input 16		
FilTmms1	ABBIED600_Rev2_ING_SP_1_e	Input 1 filter time	E	ABBIED600:201 4
FilTmms2	ABBIED600_Rev2_ING_SP_1_e	Input 2 filter time	E	ABBIED600:201 4
FilTmms3	ABBIED600_Rev2_ING_SP_1_e	Input 3 filter time	E	ABBIED600:201 4

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FilTmms4	ABBIED600_Rev2_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev2_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev2_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev2_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev2_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
FilTmms9	ABBIED600_Rev2_ING_SP_1_e	Input 9 filter time	E	ABBIED600:2014
FilTmms10	ABBIED600_Rev2_ING_SP_1_e	Input 10 filter time	E	ABBIED600:2014
FilTmms11	ABBIED600_Rev2_ING_SP_1_e	Input 11 filter time	E	ABBIED600:2014
FilTmms12	ABBIED600_Rev2_ING_SP_1_e	Input 12 filter time	E	ABBIED600:2014
FilTmms13	ABBIED600_Rev2_ING_SP_1_e	Input 13 filter time	E	ABBIED600:2014
FilTmms14	ABBIED600_Rev2_ING_SP_1_e	Input 14 filter time	E	ABBIED600:2014
CntMod14	ABBIED600_Rev2_SPG_SP_e	Input 14 counter-mode	E	ABBIED600:2014
FilTmms15	ABBIED600_Rev2_ING_SP_1_e	Input 15 filter time	E	ABBIED600:2014
FilTmms16	ABBIED600_Rev2_ING_SP_1_e	Input 16 filter time	E	ABBIED600:2014

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DigInInv1	ABBIED600_Rev2_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev2_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev2_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev2_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev2_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev2_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
DigInInv7	ABBIED600_Rev2_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev2_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
DigInInv9	ABBIED600_Rev2_SPG_SP_e	Input 9 inversion	E	ABBIED600:2014
DigInInv10	ABBIED600_Rev2_SPG_SP_e	Input 10 inversion	E	ABBIED600:2014
DigInInv11	ABBIED600_Rev2_SPG_SP_e	Input 11 inversion	E	ABBIED600:2014
DigInInv12	ABBIED600_Rev2_SPG_SP_e	Input 12 inversion	E	ABBIED600:2014
DigInInv13	ABBIED600_Rev2_SPG_SP_e	Input 13 inversion	E	ABBIED600:2014
DigInInv14	ABBIED600_Rev2_SPG_SP_e	Input 14 inversion	E	ABBIED600:2014

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DigInInv15	ABBIED600_Rev2_SPG_SP_e	Input 15 inversion	E	ABBIED600:2014
DigInInv16	ABBIED600_Rev2_SPG_SP_e	Input 16 inversion	E	ABBIED600:2014
DigInVLev	ABBIED600_Rev2_ING_SP_e	Input threshold voltage	E	ABBIED600:2014
DigInVHys	ABBIED600_Rev2_ING_SP_e	Input threshold hysteresis	E	ABBIED600:2014
CntInVLev	ABBIED600_Rev2_ING_SP_e	Input counter threshold voltage	E	ABBIED600:2014
CntInVHys	ABBIED600_Rev2_ING_SP_e	Input counter threshold hysteresis	E	ABBIED600:2014

5.2.702 LN: SCAIGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
AnIn1	ABBIED600_Rev10_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev10_MV_6	Analogue		

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		input 2		
AnIn3	ABBIED600_Rev10_MV_6	Analogue input 3		
AnIn4	ABBIED600_Rev10_MV_6	Analogue input 4		
AnIn5	ABBIED600_Rev10_MV_6	Analogue input 5		
AnIn6	ABBIED600_Rev10_MV_6	Analogue input 6		
AnIn7	ABBIED600_Rev10_MV_6	Analogue input 7		
AnIn8	ABBIED600_Rev10_MV_6	Analogue input 8		
AnIn9	ABBIED600_Rev10_MV_6	Analogue input 9		
AnIn10	ABBIED600_Rev10_MV_6	Analogue input 10		
AnIn11	ABBIED600_Rev10_MV_6	Analogue		

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		input 11		
AnIn12	ABBIED600_Rev10_MV_6	Ana-lo-gue input 12		
InMin-Val1	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val2	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val3	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val4	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val5	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val6	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val7	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val8	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val9	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val10	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val11	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014
InMin-Val12	ABBIED600_Rev4_ASG_SP_f_e	Input mini-mum	E	ABBIED600:2014

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InMaxVal1	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal2	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal3	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal4	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal5	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal6	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal7	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal8	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal9	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal10	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014
InMaxVal11	ABBIED600_Rev4_ASG_SP_f_e	Input maximum	E	ABBIED600:2014

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In-MaxVal12	ABBIED600_Rev4_ASG_SP_f_e	Input ma-xi-mum	E	ABBIED600:2014
InMod1	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod2	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod3	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod4	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod5	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod6	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod7	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod8	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod9	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod10	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod11	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
InMod12	ABBIED600_Rev4_ENG_SP_SenInMod_Sub1_e	Input mode	E	ABBIED600:2014
ChDlSel3	ABBIED600_Rev3_ENG_SP_RtdChlDly_e	Up-date inter-val	E	ABBIED600:2014

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ChDlSel 4	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 5	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 6	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 7	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 8	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 9	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 10	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 11	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
ChDlSel 12	ABBIED600_Rev3_ENG_SP_RtdChlDly_ e	Up-date inter-val	E	ABBIED600:20 14
HiAlm1	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 1	E	ABBIED600:20 14
HiAlm2	ABBIED600_Rev1_SPS_e	High alar	E	ABBIED600:20 14

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		m ana-lo-gue input 2		
HiAlm3	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 3	E	ABBIED600:20 14
HiAlm4	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 4	E	ABBIED600:20 14
HiAlm5	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 5	E	ABBIED600:20 14
HiAlm6	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 6	E	ABBIED600:20 14
HiAlm7	ABBIED600_Rev1_SPS_e	High alar m ana-lo-gue input 7	E	ABBIED600:20 14

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HiAlm8	ABBIED600_Rev1_SPS_e	High alarm analogue input 8	E	ABBIED600:2014
HiAlm9	ABBIED600_Rev1_SPS_e	High alarm analogue input 9	E	ABBIED600:2014
HiAlm10	ABBIED600_Rev1_SPS_e	High alarm analogue input 10	E	ABBIED600:2014
HiAlm11	ABBIED600_Rev1_SPS_e	High alarm analogue input 11	E	ABBIED600:2014
HiAlm12	ABBIED600_Rev1_SPS_e	High alarm analogue input 12	E	ABBIED600:2014
HiWrn1	ABBIED600_Rev1_SPS_e	High warning analogue	E	ABBIED600:2014

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		input 1		
HiWrn2	ABBIED600_Rev1_SPS_e	High warning analogue input 2	E	ABBIED600:2014
HiWrn3	ABBIED600_Rev1_SPS_e	High warning analogue input 3	E	ABBIED600:2014
HiWrn4	ABBIED600_Rev1_SPS_e	High warning analogue input 4	E	ABBIED600:2014
HiWrn5	ABBIED600_Rev1_SPS_e	High warning analogue input 5	E	ABBIED600:2014
HiWrn6	ABBIED600_Rev1_SPS_e	High warning analogue input 6	E	ABBIED600:2014
HiWrn7	ABBIED600_Rev1_SPS_e	High warning	E	ABBIED600:2014

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		analogue input 7		
HiWrn8	ABBIED600_Rev1_SPS_e	High warning analogue input 8	E	ABBIED600:2014
HiWrn9	ABBIED600_Rev1_SPS_e	High warning analogue input 9	E	ABBIED600:2014
HiWrn10	ABBIED600_Rev1_SPS_e	High warning analogue input 10	E	ABBIED600:2014
HiWrn11	ABBIED600_Rev1_SPS_e	High warning analogue input 11	E	ABBIED600:2014
HiWrn12	ABBIED600_Rev1_SPS_e	High warning analogue input 12	E	ABBIED600:2014

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LoWrn1	ABBIED600_Rev1_SPS_e	Low warning analogue input 1	E	ABBIED600:2014
LoWrn2	ABBIED600_Rev1_SPS_e	Low warning analogue input 2	E	ABBIED600:2014
LoWrn3	ABBIED600_Rev1_SPS_e	Low warning analogue input 3	E	ABBIED600:2014
LoWrn4	ABBIED600_Rev1_SPS_e	Low warning analogue input 4	E	ABBIED600:2014
LoWrn5	ABBIED600_Rev1_SPS_e	Low warning analogue input 5	E	ABBIED600:2014
LoWrn6	ABBIED600_Rev1_SPS_e	Low warning analogue	E	ABBIED600:2014

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		input 6		
LoWrn7	ABBIED600_Rev1_SPS_e	Low warning analogue input 7	E	ABBIED600:2014
LoWrn8	ABBIED600_Rev1_SPS_e	Low warning analogue input 8	E	ABBIED600:2014
LoWrn9	ABBIED600_Rev1_SPS_e	Low warning analogue input 9	E	ABBIED600:2014
LoWrn10	ABBIED600_Rev1_SPS_e	Low warning analogue input 10	E	ABBIED600:2014
LoWrn11	ABBIED600_Rev1_SPS_e	Low warning analogue input 11	E	ABBIED600:2014
LoWrn12	ABBIED600_Rev1_SPS_e	Low warning	E	ABBIED600:2014

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		ana-lo-gue input 12		
LoAlm1	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 1	E	ABBIED600:20 14
LoAlm2	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 2	E	ABBIED600:20 14
LoAlm3	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 3	E	ABBIED600:20 14
LoAlm4	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 4	E	ABBIED600:20 14
LoAlm5	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 5	E	ABBIED600:20 14
LoAlm6	ABBIED600_Rev1_SPS_e	Low alar	E	ABBIED600:20 14

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		m ana-lo-gue input 6		
LoAlm7	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 7	E	ABBIED600:20 14
LoAlm8	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 8	E	ABBIED600:20 14
LoAlm9	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 9	E	ABBIED600:20 14
LoAlm1 0	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 10	E	ABBIED600:20 14
LoAlm11	ABBIED600_Rev1_SPS_e	Low alar m ana-lo-gue input 11	E	ABBIED600:20 14

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LoAlm12	ABBIED600_Rev1_SPS_e	Low alarm ana-lo-gue input 12	E	ABBIED600:2014
SenFlt1	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 1	E	ABBIED600:2014
SenFlt2	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 2	E	ABBIED600:2014
SenFlt3	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 3	E	ABBIED600:2014
SenFlt4	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 4	E	ABBIED600:2014
SenFlt5	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue	E	ABBIED600:2014

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		input 5		
SenFlt6	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 6	E	ABBIED600:2014
SenFlt7	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 7	E	ABBIED600:2014
SenFlt8	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 8	E	ABBIED600:2014
SenFlt9	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 9	E	ABBIED600:2014
SenFlt10	ABBIED600_Rev1_SPS_e	Sensor fault analogue input 10	E	ABBIED600:2014
SenFlt11	ABBIED600_Rev1_SPS_e	Sensor fault	E	ABBIED600:2014

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		ana-lo-gue input 11		
SenFlt12	ABBIED600_Rev1_SPS_e	Sen-sor fault ana-lo-gue input 12	E	ABBIED600:2014

5.2.703 LN: SCAOGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Ex-pla-natio n	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mod e		status-only
Beh	ABBIED600_Rev10_ENS_beh	Be-ha-viour		
AnOut1	ABBIED600_Rev9_APC_control	Ana-lo-gue out-put 1		status-only,di-rect-with-nor-mal-security
AnOut2	ABBIED600_Rev9_APC_control	Ana-lo-gue out-put 2		status-only,di-rect-with-nor-mal-security
AnOut3	ABBIED600_Rev9_APC_control	Ana-lo-gue out-put 3		status-only,di-rect-with-nor-mal-security
AnOut4	ABBIED600_Rev9_APC_control	Ana-lo-gue out-put 4		status-only,di-rect-with-nor-mal-security

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AnOut5	ABBIED600_Rev9_APC_control	Analogue output 5		status-only,direct-with-normal-security
AnOut6	ABBIED600_Rev9_APC_control	Analogue output 6		status-only,direct-with-normal-security
OutMod1	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod2	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod3	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod4	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod5	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
OutMod6	ABBIED600_Rev4_ENG_SP_SenInMod_Sub2_e	Output mode	E	ABBIED600:2014
AnIn1	ABBIED600_Rev10_MV_6	Analogue input 1		
AnIn2	ABBIED600_Rev10_MV_6	Analogue input 2		

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AnIn3	ABBIED600_Rev10_MV_6	Ana-lo-gue input 3		
AnIn4	ABBIED600_Rev10_MV_6	Ana-lo-gue input 4		
AnIn5	ABBIED600_Rev10_MV_6	Ana-lo-gue input 5		
AnIn6	ABBIED600_Rev10_MV_6	Ana-lo-gue input 6		
NumKnPts1	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
NumKnPts2	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
NumKnPts3	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
NumKnPts4	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
NumKnPts5	ABBIED600_Rev2_ING_SP_1_e	Number	E	ABBIED600:2014

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		of knee points		
NumKnPts6	ABBIED600_Rev2_ING_SP_1_e	Number of knee points	E	ABBIED600:2014
AnVa-lOut1	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 1 rang e	E	ABBIED600:2014
AnVa-lOut2	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 2 rang e	E	ABBIED600:2014
AnVa-lOut3	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 3 rang e	E	ABBIED600:2014
AnVa-lOut4	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 4 rang e	E	ABBIED600:2014
AnVa-lOut5	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 5 rang e	E	ABBIED600:2014

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AnVa-lOut6	ABBIED600_Rev5_MV_range_e	Ana-lo-gue out-put 6 rang e	E	ABBIED600:2 014

5.2.704 LN: SBBIGGIO1 Name: GGIO (ED2)

Attribute name	Attribute type	Expla-nation	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_O n	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Ind1	ABBIED600_Rev1_SPS	Input 1		
Ind2	ABBIED600_Rev1_SPS	Input 2		
Ind3	ABBIED600_Rev1_SPS	Input 3		
Ind4	ABBIED600_Rev1_SPS	Input 4		
Ind5	ABBIED600_Rev1_SPS	Input 5		
Ind6	ABBIED600_Rev1_SPS	Input 6		
Ind7	ABBIED600_Rev1_SPS	Input 7		
Ind8	ABBIED600_Rev1_SPS	Input 8		
Ind9	ABBIED600_Rev1_SPS	Input 9		
Ind10	ABBIED600_Rev1_SPS	Input 10		
Ind11	ABBIED600_Rev1_SPS	Input 11		
Ind12	ABBIED600_Rev1_SPS	Input 12		
Ind13	ABBIED600_Rev1_SPS	Input 13		
Ind14	ABBIED600_Rev1_SPS	Input 14		
Ind15	ABBIED600_Rev1_SPS	Input 15		
Ind16	ABBIED600_Rev1_SPS	Input 16		
FilTmms1	ABBIED600_Rev2_ING_SP_1_e	Input 1 filter time	E	ABBIED600:201 4
FilTmms2	ABBIED600_Rev2_ING_SP_1_e	Input 2 filter time	E	ABBIED600:201 4
FilTmms3	ABBIED600_Rev2_ING_SP_1_e	Input 3 filter time	E	ABBIED600:201 4

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FilTmms4	ABBIED600_Rev2_ING_SP_1_e	Input 4 filter time	E	ABBIED600:2014
FilTmms5	ABBIED600_Rev2_ING_SP_1_e	Input 5 filter time	E	ABBIED600:2014
FilTmms6	ABBIED600_Rev2_ING_SP_1_e	Input 6 filter time	E	ABBIED600:2014
FilTmms7	ABBIED600_Rev2_ING_SP_1_e	Input 7 filter time	E	ABBIED600:2014
FilTmms8	ABBIED600_Rev2_ING_SP_1_e	Input 8 filter time	E	ABBIED600:2014
FilTmms9	ABBIED600_Rev2_ING_SP_1_e	Input 9 filter time	E	ABBIED600:2014
FilTmms10	ABBIED600_Rev2_ING_SP_1_e	Input 10 filter time	E	ABBIED600:2014
FilTmms11	ABBIED600_Rev2_ING_SP_1_e	Input 11 filter time	E	ABBIED600:2014
FilTmms12	ABBIED600_Rev2_ING_SP_1_e	Input 12 filter time	E	ABBIED600:2014
FilTmms13	ABBIED600_Rev2_ING_SP_1_e	Input 13 filter time	E	ABBIED600:2014
FilTmms14	ABBIED600_Rev2_ING_SP_1_e	Input 14 filter time	E	ABBIED600:2014
CntMod14	ABBIED600_Rev2_SPG_SP_e	Input in counter-mode	E	ABBIED600:2014
FilTmms15	ABBIED600_Rev2_ING_SP_1_e	Input 15 filter time	E	ABBIED600:2014
FilTmms16	ABBIED600_Rev2_ING_SP_1_e	Input 16 filter time	E	ABBIED600:2014

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DigInInv1	ABBIED600_Rev2_SPG_SP_e	Input 1 inversion	E	ABBIED600:2014
DigInInv2	ABBIED600_Rev2_SPG_SP_e	Input 2 inversion	E	ABBIED600:2014
DigInInv3	ABBIED600_Rev2_SPG_SP_e	Input 3 inversion	E	ABBIED600:2014
DigInInv4	ABBIED600_Rev2_SPG_SP_e	Input 4 inversion	E	ABBIED600:2014
DigInInv5	ABBIED600_Rev2_SPG_SP_e	Input 5 inversion	E	ABBIED600:2014
DigInInv6	ABBIED600_Rev2_SPG_SP_e	Input 6 inversion	E	ABBIED600:2014
DigInInv7	ABBIED600_Rev2_SPG_SP_e	Input 7 inversion	E	ABBIED600:2014
DigInInv8	ABBIED600_Rev2_SPG_SP_e	Input 8 inversion	E	ABBIED600:2014
DigInInv9	ABBIED600_Rev2_SPG_SP_e	Input 9 inversion	E	ABBIED600:2014
DigInInv10	ABBIED600_Rev2_SPG_SP_e	Input 10 inversion	E	ABBIED600:2014
DigInInv11	ABBIED600_Rev2_SPG_SP_e	Input 11 inversion	E	ABBIED600:2014
DigInInv12	ABBIED600_Rev2_SPG_SP_e	Input 12 inversion	E	ABBIED600:2014
DigInInv13	ABBIED600_Rev2_SPG_SP_e	Input 13 inversion	E	ABBIED600:2014
DigInInv14	ABBIED600_Rev2_SPG_SP_e	Input 14 inversion	E	ABBIED600:2014

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DigInInv15	ABBIED600_Rev2_SPG_SP_e	Input 15 inversion	E	ABBIED600:2014
DigInInv16	ABBIED600_Rev2_SPG_SP_e	Input 16 inversion	E	ABBIED600:2014
DigInVLev	ABBIED600_Rev2_ING_SP_e	Input threshold voltage	E	ABBIED600:2014
DigInVHys	ABBIED600_Rev2_ING_SP_e	Input threshold hysteresis	E	ABBIED600:2014
CntInVLev	ABBIED600_Rev2_ING_SP_e	Input counter threshold voltage	E	ABBIED600:2014
CntInVHys	ABBIED600_Rev2_ING_SP_e	Input counter threshold hysteresis	E	ABBIED600:2014

5.2.705 LN: SMVLSVS1 Name: LSVS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
St	ABBIED600_Rev1_SPS_simple	Status of the subscription		
SvCBRef	ABBIED600_Rev6_ORG_SP_1	Subscription reference		

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SvMaxDl	ABBIED600_Rev7_MV_simple_i_e	Max Delay	E	ABBIED600:2014
SvAvDl	ABBIED600_Rev7_MV_simple_i_e	Average delay	E	ABBIED600:2014
SvGmId	ABBIED600_Rev1_VSS_1_20_e	Grand master ID in received stream	E	ABBIED600:2014
SimSt	ABBIED600_Rev1_SPS_simple	Simulation status of the subscription		

5.2.706 LN: SMVLSVS2 Name: LSVS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
St	ABBIED600_Rev1_SPS_simple	Status of the subscription		
SvCBRef	ABBIED600_Rev6_ORG_SP_1	Subscription reference		
SvMaxDl	ABBIED600_Rev7_MV_simple_i_e	Max Delay	E	ABBIED600:2014
SvAvDl	ABBIED600_Rev7_MV_simple_i_e	Average delay	E	ABBIED600:2014
SvGmId	ABBIED600_Rev1_VSS_1_20_e	Grand master	E	ABBIED600:2014

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		ID in received stream		
SimSt	ABBIED600_Rev1_SPS_simple	Simulation status of the subscription		

5.2.707 LN: SMVLSVS3 Name: LSVS (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
St	ABBIED600_Rev1_SPS_simple	Status of the subscription		
SvCBRef	ABBIED600_Rev6_ORG_SP_1	Subscription reference		
SvMaxDl	ABBIED600_Rev7_MV_simple_i_e	Max Delay	E	ABBIED600:2014
SvAvDl	ABBIED600_Rev7_MV_simple_i_e	Average delay	E	ABBIED600:2014
SvGmId	ABBIED600_Rev1_VSS_1_20_e	Grand master ID in received stream	E	ABBIED600:2014
SimSt	ABBIED600_Rev1_SPS_simple	Simulation status		

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		of the sub-scrip-tion		

5.2.708 LN: SMVLSVS4 Name: LSVS (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
St	ABBIED600_Rev1_SPS_simple	Status of the sub-scrip-tion		
SvCBRef	ABBIED600_Rev6_ORG_SP_1	Sub-scrip-tion refe-rence		
SvMaxDl	ABBIED600_Rev7_MV_simple_i_e	Max Delay	E	ABBIED600:2014
SvAvDl	ABBIED600_Rev7_MV_simple_i_e	Ave-rage delay	E	ABBIED600:2014
SvGmId	ABBIED600_Rev1_VSS_1_20_e	Grand master ID in re-ceived stream	E	ABBIED600:2014
SimSt	ABBIED600_Rev1_SPS_simple	Simu-lation status of the sub-scrip-tion		

5.2.709 LN: LLN0 Name: LLN0 (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OnTestBlockOff	Control		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Control		
NamPlt	ABBIED600_Rev4_LPL_CTRLDR_LNN0	Control		
Loc	ABBIED600_Rev1_SPS_retain	Local / Remote		
LocKey	ABBIED600_Rev1_SPS_simple	Local operation		
LocSta	ABBIED600_Rev2_SPC_retain	Station operation		status-only,direct-with-normal-security
GrRef	ABBIED600_Rev6_ORG_SP_1	GrRef		
MltLev	ABBIED600_Rev2_SPG_SP	Multiple levels		
CmdBlk	ABBIED600_Rev2_SPC_simple	Commands blocked		status-only
LocKeyHMI	ABBIED600_Rev3_ENS_LocKeyHMI_e	Control HMI	E	REx615:2014
LocKeyOff	ABBIED600_Rev1_SPS_simple_e	Control disable	E	REx615:2014
LocKeyLoc	ABBIED600_Rev1_SPS_simple_e	Control local	E	REx615:2014
LocKeyRem	ABBIED600_Rev1_SPS_simple_e	Control remote	E	REx615:2014

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LocKeySta	ABBIED600_Rev1_SPS_simple_e	Control station	E	REx615:2014
LocKeyAll	ABBIED600_Rev1_SPS_simple_e	Control all	E	REx615:2014
LocRemMod	ABBIED600_Rev2_ENG_SP_LocRemMod_e	Control mode	E	REx615:2014
StaLevSet	ABBIED600_Rev2_ENG_SP_StaLevSet_e	Station authority	E	REx615:2014

5.2.710 LN: CBCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only

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PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynByp	ABBIED600_Rev1_SPS_e	Syncrocheck bypass	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.711 LN: CBXCBR1 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capability		

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5.2.712 LN: CBCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

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InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynByp	ABBIED600_Rev1_SPS_e	Synch-rocheck by-pass	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.713 LN: CBXCBR2 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Re-marks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equip-ment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capabi-lity		

5.2.714 LN: CBCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local opera-tion		

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OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynByp	ABBIED600_Rev1_SPS_e	Syncrocheck bypass	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

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5.2.715 LN: CBXCBR3 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capability		

5.2.716 LN: CBCSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		

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OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynByp	ABBIED600_Rev1_SPS_e	Syncrocheck bypass	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.717 LN: CBXCBR4 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		

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OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capability		

5.2.718 LN: CBCSWI5 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
SelOpn	ABBIED600_Rev1_SPS	Selection open switch		
SelCls	ABBIED600_Rev1_SPS	Selection close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only

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PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
InSynOk	ABBIED600_Rev1_SPS_e	SYNC OK	E	ABBIED600:2014
SynByp	ABBIED600_Rev1_SPS_e	Syncrocheck bypass	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.719 LN: CBXCBR5 Name: XCBR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
CBOpCap	ABBIED600_Rev2_ENS_CBOpCap	Circuit breaker operating capability		

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5.2.720 LN: DCCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014

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ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.721 LN: DCXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.722 LN: DCCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-

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				enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.723 LN: DCXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.724 LN: DCCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

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AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.725 LN: DCXSWI3 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.726 LN: DCCSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.727 LN: DCXSWI4 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only

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Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.728 LN: DCCSWI5 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only

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PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.729 LN: DCXSWI5 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.730 LN: DCCSWI6 Name: CSWI (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

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5.2.731 LN: DCXSWI6 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.732 LN: DCCSWI7 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		

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OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.733 LN: DCXSWI7 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		

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SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.734 LN: DCCSWI8 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014

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BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.735 LN: DCXSWI8 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.736 LN: DCSXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.737 LN: DCSCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.738 LN: DCSXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.739 LN: DCSCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.740 LN: DCSXSWI3 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.741 LN: DCSCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.742 LN: DCSXSWI4 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.743 LN: DCSCSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.744 LN: DCSXSWI5 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.745 LN: DCSCSWI5 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.746 LN: DCSXSWI6 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.747 LN: DCSCSWI6 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.748 LN: DCSXSWI7 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.749 LN: DCSCSWI7 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.750 LN: DCSXSWI8 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only

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BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.751 LN: DCSCSWI8 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.752 LN: ESCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_Off On_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security

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Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.753 LN: ESXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		

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Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.754 LN: ESCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014

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PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.755 LN: ESXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.756 LN: ESCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local operation		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Switch, general		
OpCls	ABBIED600_Rev1_ACT_simple	Switch, general		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
AdpPls	ABBIED600_Rev2_SPG_SP_e	Adaptive pulse	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	OPEN_ENAD	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	CLOSE_ENAD	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.757 LN: ESXSWI3 Name: XSWI (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

5.2.758 LN: ESSXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

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5.2.759 LN: ESSCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.760 LN: ESSXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

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5.2.761 LN: ESSCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.762 LN: ESSXSWI3 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local operation		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Disconnector operating capability		

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5.2.763 LN: ESSCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit opn	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Pos 1-bit cls	E	ABBIED600:2014
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014

5.2.764 LN: P3SGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
MotPrg	ABBIED600_Rev1_SPS_simple_e	Motor in progress	E	ABBIED600:2014
NoFlt	ABBIED600_Rev1_SPS_simple_e	SCM no fault	E	ABBIED600:2014
DevErr	ABBIED600_Rev1_SPS_simple_e	SCM device error	E	ABBIED600:2014
Rel	ABBIED600_Rev1_SPS_simple_e	SCM release	E	IEC 61850-7-4:2007

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NoAct	ABBIED600_Rev1_SPS_simple_e	SCM no action	E	ABBIED600:2014
ItlErr	ABBIED600_Rev1_SPS_simple_e	SCM interlocking error	E	ABBIED600:2014
ReedErr	ABBIED600_Rev1_SPS_simple_e	SCM reed error	E	ABBIED600:2014
PosErr	ABBIED600_Rev1_SPS_simple_e	SCM position error	E	ABBIED600:2014
TmOutErr	ABBIED600_Rev1_SPS_simple_e	SCM timeout error	E	ABBIED600:2014
MotStrTmms	ABBIED600_Rev2_ING_SP_e	Motor start timeout	E	ABBIED600:2014
MotBrkTmms	ABBIED600_Rev2_ING_SP_1_e	Motor brake time	E	ABBIED600:2014
MotBrkEna	ABBIED600_Rev2_SPG_SP_e	Motor braking enabled	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014
SwTypSt	ABBIED600_Rev1_ENS_SwTypSt_e	Switch type status	E	ABBIED600:2014
CtlMod3Sw	ABBIED600_Rev2_ENG_SP_CtlMod3Sw_e	Control mode	E	ABBIED600:2014
HbUpLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge upper left	E	ABBIED600:2014

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HbUpRight	ABBIED600_Rev1_ACT_simple_e	H-bridge upper right	E	ABBIED600:2014
HbLoLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge lower left	E	ABBIED600:2014
HbLoRight	ABBIED600_Rev1_ACT_simple_e	H-bridge lower right	E	ABBIED600:2014
Seld	ABBIED600_Rev1_SPS_simple_e	Object selected	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.765 LN: P3SDCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter for disconnector		status-only,direct-with-normal-security

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Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Operation, open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Operation, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Disconnector in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Disconnector in closed position	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open disconnector enabled	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	Close disconnector enabled	E	ABBIED600:2014

5.2.766 LN: P3SECSWI1 Name: CSWI (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter for earthing switch		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Operation, open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Operation, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Earthing switch in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Earthing	E	ABBIED600:2014

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		switch in closed posi-tion		
OpnEna	ABBIED600_Rev1_SPS_e	Open eart-hing switch enable d	E	ABBIED600:201 4
ClsEna	ABBIED600_Rev1_SPS_e	Close eart-hing switch enable d	E	ABBIED600:201 4

5.2.767 LN: P3SDXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local cont-rol beha-viour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnec-tor		
Pos	ABBIED600_Rev5_DPC_simple	Switch po-sition		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block dis-connector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block dis-connector closing		status-only

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SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.768 LN: P3SEXSWI1 Name: XSWI (ED2)

Attri-bute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Loc	ABBIED600_Rev1_SPS_simple	Local control beha-viour		
EEName	ABBIED600_Rev4_DPL_EEName	Exter-nal equip-ment name plate		
OpCnt	ABBIED600_Rev1_INS	Opera-tion counter for eart-hing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch posi-tion		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block eart-hing switch ope-ning		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block eart-hing		status-only

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		switch closing		
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Eart-hing switch opera-ting ca-pability		
Ree-dEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enable d	E	ABBIED600:2014

5.2.769 LN: P3SGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Posi-tion OK	E	ABBIED600:2014
MotPrg	ABBIED600_Rev1_SPS_simple_e	Motor in prog-ress	E	ABBIED600:2014
NoFlt	ABBIED600_Rev1_SPS_simple_e	SCM no fault	E	ABBIED600:2014
DevErr	ABBIED600_Rev1_SPS_simple_e	SCM device error	E	ABBIED600:2014
Rel	ABBIED600_Rev1_SPS_simple_e	SCM release	E	IEC 61850-7-4:2007
NoAct	ABBIED600_Rev1_SPS_simple_e	SCM no ac-tion	E	ABBIED600:2014

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ItlErr	ABBIED600_Rev1_SPS_simple_e	SCM inter-locking error	E	ABBIED600:2014
ReedErr	ABBIED600_Rev1_SPS_simple_e	SCM reed error	E	ABBIED600:2014
PosErr	ABBIED600_Rev1_SPS_simple_e	SCM posi-tion error	E	ABBIED600:2014
TmOutErr	ABBIED600_Rev1_SPS_simple_e	SCM ti-meout error	E	ABBIED600:2014
MotStrTmms	ABBIED600_Rev2_ING_SP_e	Motor start ti-meout	E	ABBIED600:2014
Mot-BrkTmms	ABBIED600_Rev2_ING_SP_1_e	Motor brake time	E	ABBIED600:2014
MotBrkEna	ABBIED600_Rev2_SPG_SP_e	Motor bra-king enable d	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch posi-tion	E	ABBIED600:2014
SwTypSt	ABBIED600_Rev1_ENS_SwTypSt_e	Switch type status	E	ABBIED600:2014
CtlMod3Sw	ABBIED600_Rev2_ENG_SP_CtlMod3Sw_e	Cont-rol mode	E	ABBIED600:2014
HbUpLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge upper left	E	ABBIED600:2014
HbUpRight	ABBIED600_Rev1_ACT_simple_e	H-bridge upper right	E	ABBIED600:2014

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HbLoLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge lower left	E	ABBIED600:2014
HbLoRight	ABBIED600_Rev1_ACT_simple_e	H-bridge lower right	E	ABBIED600:2014
Seld	ABBIED600_Rev1_SPS_simple_e	Object selected	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.770 LN: P3SDCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter for disconnector		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-

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				with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Operation, open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Operation, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Disconnector in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Disconnector in closed position	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open disconnector enabled	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	Close disconnector enabled	E	ABBIED600:2014

5.2.771 LN: P3SECSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks

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Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter for earthing switch		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Operation, open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Operation, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Earthing switch in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Earthing switch in closed	E	ABBIED600:2014

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		posi-tion		
OpnEna	ABBIED600_Rev1_SPS_e	Open eart-hing switch enable d	E	ABBIED600:201 4
ClsEna	ABBIED600_Rev1_SPS_e	Close eart-hing switch enable d	E	ABBIED600:201 4

5.2.772 LN: P3SDXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local cont-rol beha-viour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnec-tor		
Pos	ABBIED600_Rev5_DPC_simple	Switch po-sition		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block dis-connector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block dis-connector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		

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SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.773 LN: P3SEXSWI2 Name: XSWI (ED2)

Attri-bute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-secu-rity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Loc	ABBIED600_Rev1_SPS_simple	Local control beha-viour		
EEName	ABBIED600_Rev4_DPL_EEName	Exter-nal equip-ment name plate		
OpCnt	ABBIED600_Rev1_INS	Opera-tion counter for eart-hing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch posi-tion		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block eart-hing switch ope-ning		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block eart-hing switch closing		status-only

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SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Eart-hing switch opera-ting ca-pability		
Ree-dEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enable d	E	ABBIED600:2014

5.2.774 LN: P3SGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,di-rect-with-nor-mal-security
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Posi-tion OK	E	ABBIED600:2014
MotPrg	ABBIED600_Rev1_SPS_simple_e	Motor in prog-ress	E	ABBIED600:2014
NoFlt	ABBIED600_Rev1_SPS_simple_e	SCM no fault	E	ABBIED600:2014
DevErr	ABBIED600_Rev1_SPS_simple_e	SCM device error	E	ABBIED600:2014
Rel	ABBIED600_Rev1_SPS_simple_e	SCM release	E	IEC 61850-7-4:2007
NoAct	ABBIED600_Rev1_SPS_simple_e	SCM no ac-tion	E	ABBIED600:2014
ItlErr	ABBIED600_Rev1_SPS_simple_e	SCM inter-lockin g error	E	ABBIED600:2014

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ReedErr	ABBIED600_Rev1_SPS_simple_e	SCM reed error	E	ABBIED600:2014
PosErr	ABBIED600_Rev1_SPS_simple_e	SCM position error	E	ABBIED600:2014
TmOutErr	ABBIED600_Rev1_SPS_simple_e	SCM timeout error	E	ABBIED600:2014
MotStrTmms	ABBIED600_Rev2_ING_SP_e	Motor start timeout	E	ABBIED600:2014
MotBrkTmms	ABBIED600_Rev2_ING_SP_1_e	Motor brake time	E	ABBIED600:2014
MotBrkEna	ABBIED600_Rev2_SPG_SP_e	Motor braking enabled	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014
SwTypSt	ABBIED600_Rev1_ENS_SwTypSt_e	Switch type status	E	ABBIED600:2014
CtlMod3Sw	ABBIED600_Rev2_ENG_SP_CtlMod3Sw_e	Control mode	E	ABBIED600:2014
HbUpLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge upper left	E	ABBIED600:2014
HbUpRight	ABBIED600_Rev1_ACT_simple_e	H-bridge upper right	E	ABBIED600:2014
HbLoLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge lower left	E	ABBIED600:2014

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HbLoRight	ABBIED600_Rev1_ACT_simple_e	H-bridge lower right	E	ABBIED600:2014
Seld	ABBIED600_Rev1_SPS_simple_e	Object selected	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.775 LN: P3SDCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter for disconnector		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Operation,		

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		open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Operation, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Disconnector in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Disconnector in closed position	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open disconnector enabled	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	Close disconnector enabled	E	ABBIED600:2014

5.2.776 LN: P3SECSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		

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Loc	ABBIED600_Rev1_SPS	Local control beha-viour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Opera-tion coun-ter for eart-hing switch		status-only,di-rect-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, gene-ral		status-only,di-rect-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Opera-tion, open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Opera-tion, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in closed posi-tion	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open eart-hing	E	ABBIED600:2014

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		switch enabled		
ClsEna	ABBIED600_Rev1_SPS_e	Close earthing switch enabled	E	ABBIED600:2014

5.2.777 LN: P3SDXSWI3 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.778 LN: P3SEXSWI3 Name: XSWI (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for earthing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Earthing switch		

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		operating capability		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.779 LN: P3SGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
MotPrg	ABBIED600_Rev1_SPS_simple_e	Motor in progress	E	ABBIED600:2014
NoFlt	ABBIED600_Rev1_SPS_simple_e	SCM no fault	E	ABBIED600:2014
DevErr	ABBIED600_Rev1_SPS_simple_e	SCM device error	E	ABBIED600:2014
Rel	ABBIED600_Rev1_SPS_simple_e	SCM release	E	IEC 61850-7-4:2007
NoAct	ABBIED600_Rev1_SPS_simple_e	SCM no action	E	ABBIED600:2014
ItlErr	ABBIED600_Rev1_SPS_simple_e	SCM interlocking error	E	ABBIED600:2014
ReedErr	ABBIED600_Rev1_SPS_simple_e	SCM reed error	E	ABBIED600:2014

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PosErr	ABBIED600_Rev1_SPS_simple_e	SCM position error	E	ABBIED600:2014
TmOutErr	ABBIED600_Rev1_SPS_simple_e	SCM timeout error	E	ABBIED600:2014
MotStrTmms	ABBIED600_Rev2_ING_SP_e	Motor start timeout	E	ABBIED600:2014
MotBrkTmms	ABBIED600_Rev2_ING_SP_1_e	Motor brake time	E	ABBIED600:2014
MotBrkEna	ABBIED600_Rev2_SPG_SP_e	Motor braking enabled	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014
SwTypSt	ABBIED600_Rev1_ENS_SwTypSt_e	Switch type status	E	ABBIED600:2014
CtlMod3Sw	ABBIED600_Rev2_ENG_SP_CtlMod3Sw_e	Control mode	E	ABBIED600:2014
HbUpLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge upper left	E	ABBIED600:2014
HbUpRight	ABBIED600_Rev1_ACT_simple_e	H-bridge upper right	E	ABBIED600:2014
HbLoLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge lower left	E	ABBIED600:2014
HbLoRight	ABBIED600_Rev1_ACT_simple_e	H-bridge	E	ABBIED600:2014

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		lower right		
Seld	ABBIED600_Rev1_SPS_simple_e	Object selected	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.780 LN: P3SDCSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter for disconnector		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Operation, open switch		

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OpCls	ABBIED600_Rev1_ACT_simple	Operation, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Disconnector in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Disconnector in closed position	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open disconnector enabled	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	Close disconnector enabled	E	ABBIED600:2014

5.2.781 LN: P3SECSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Off On	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control		

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		beha-viour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Opera-tion coun-ter for eart-hing switch		status-only,di-rect-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, gene-ral		status-only,di-rect-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Opera-tion, open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Opera-tion, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in closed posi-tion	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open eart-hing switch	E	ABBIED600:2014

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		enabled		
ClsEna	ABBIED600_Rev1_SPS_e	Close earthing switch enabled	E	ABBIED600:2014

5.2.782 LN: P3SDXSWI4 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.783 LN: P3SEXSWI4 Name: XSWI (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for earthing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Earthing switch		

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		operating capability		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.784 LN: P3SGAPC5 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
MotPrg	ABBIED600_Rev1_SPS_simple_e	Motor in progress	E	ABBIED600:2014
NoFlt	ABBIED600_Rev1_SPS_simple_e	SCM no fault	E	ABBIED600:2014
DevErr	ABBIED600_Rev1_SPS_simple_e	SCM device error	E	ABBIED600:2014
Rel	ABBIED600_Rev1_SPS_simple_e	SCM release	E	IEC 61850-7-4:2007
NoAct	ABBIED600_Rev1_SPS_simple_e	SCM no action	E	ABBIED600:2014
ItlErr	ABBIED600_Rev1_SPS_simple_e	SCM interlocking error	E	ABBIED600:2014
ReedErr	ABBIED600_Rev1_SPS_simple_e	SCM reed error	E	ABBIED600:2014

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PosErr	ABBIED600_Rev1_SPS_simple_e	SCM position error	E	ABBIED600:2014
TmOutErr	ABBIED600_Rev1_SPS_simple_e	SCM timeout error	E	ABBIED600:2014
MotStrTmms	ABBIED600_Rev2_ING_SP_e	Motor start timeout	E	ABBIED600:2014
MotBrkTmms	ABBIED600_Rev2_ING_SP_1_e	Motor brake time	E	ABBIED600:2014
MotBrkEna	ABBIED600_Rev2_SPG_SP_e	Motor braking enabled	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014
SwTypSt	ABBIED600_Rev1_ENS_SwTypSt_e	Switch type status	E	ABBIED600:2014
CtlMod3Sw	ABBIED600_Rev2_ENG_SP_CtlMod3Sw_e	Control mode	E	ABBIED600:2014
HbUpLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge upper left	E	ABBIED600:2014
HbUpRight	ABBIED600_Rev1_ACT_simple_e	H-bridge upper right	E	ABBIED600:2014
HbLoLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge lower left	E	ABBIED600:2014
HbLoRight	ABBIED600_Rev1_ACT_simple_e	H-bridge	E	ABBIED600:2014

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		lower right		
Seld	ABBIED600_Rev1_SPS_simple_e	Object selected	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.785 LN: P3SDCSWI5 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter for disconnector		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Operation, open switch		

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OpCls	ABBIED600_Rev1_ACT_simple	Operation, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Disconnector in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Disconnector in closed position	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open disconnector enabled	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	Close disconnector enabled	E	ABBIED600:2014

5.2.786 LN: P3SECSWI5 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Off On	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control		

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		beha-viour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Opera-tion coun-ter for eart-hing switch		status-only,di-rect-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, gene-ral		status-only,di-rect-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Opera-tion, open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Opera-tion, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in closed posi-tion	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open eart-hing switch	E	ABBIED600:2014

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		enabled		
ClsEna	ABBIED600_Rev1_SPS_e	Close earthing switch enabled	E	ABBIED600:2014

5.2.787 LN: P3SDXSWI5 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.788 LN: P3SEXSWI5 Name: XSWI (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for earthing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Earthing switch		

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		operating capability		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.789 LN: P3SGAPC6 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev3_ENC_Mod_OffOn_FD	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
MotPrg	ABBIED600_Rev1_SPS_simple_e	Motor in progress	E	ABBIED600:2014
NoFlt	ABBIED600_Rev1_SPS_simple_e	SCM no fault	E	ABBIED600:2014
DevErr	ABBIED600_Rev1_SPS_simple_e	SCM device error	E	ABBIED600:2014
Rel	ABBIED600_Rev1_SPS_simple_e	SCM release	E	IEC 61850-7-4:2007
NoAct	ABBIED600_Rev1_SPS_simple_e	SCM no action	E	ABBIED600:2014
ItlErr	ABBIED600_Rev1_SPS_simple_e	SCM interlocking error	E	ABBIED600:2014
ReedErr	ABBIED600_Rev1_SPS_simple_e	SCM reed error	E	ABBIED600:2014

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PosErr	ABBIED600_Rev1_SPS_simple_e	SCM position error	E	ABBIED600:2014
TmOutErr	ABBIED600_Rev1_SPS_simple_e	SCM timeout error	E	ABBIED600:2014
MotStrTmms	ABBIED600_Rev2_ING_SP_e	Motor start timeout	E	ABBIED600:2014
MotBrkTmms	ABBIED600_Rev2_ING_SP_1_e	Motor brake time	E	ABBIED600:2014
MotBrkEna	ABBIED600_Rev2_SPG_SP_e	Motor braking enabled	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014
SwTypSt	ABBIED600_Rev1_ENS_SwTypSt_e	Switch type status	E	ABBIED600:2014
CtlMod3Sw	ABBIED600_Rev2_ENG_SP_CtlMod3Sw_e	Control mode	E	ABBIED600:2014
HbUpLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge upper left	E	ABBIED600:2014
HbUpRight	ABBIED600_Rev1_ACT_simple_e	H-bridge upper right	E	ABBIED600:2014
HbLoLeft	ABBIED600_Rev1_ACT_simple_e	H-bridge lower left	E	ABBIED600:2014
HbLoRight	ABBIED600_Rev1_ACT_simple_e	H-bridge	E	ABBIED600:2014

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		lower right		
Seld	ABBIED600_Rev1_SPS_simple_e	Object selected	E	ABBIED600:2014
BlkCtlItl	ABBIED600_Rev1_SPS_simple_e	Control blocked	E	ABBIED600:2014
ItlPlsTm	ABBIED600_Rev7_ING_SP_Unit_e	Control blocked pulse length	E	ABBIED600:2014

5.2.790 LN: P3SDCSWI6 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control behaviour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Operation counter for disconnector		status-only,direct-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, general		status-only,direct-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Operation, open switch		

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OpCls	ABBIED600_Rev1_ACT_simple	Operation, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Disconnector in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Disconnector in closed position	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open disconnector enabled	E	ABBIED600:2014
ClsEna	ABBIED600_Rev1_SPS_e	Close disconnector enabled	E	ABBIED600:2014

5.2.791 LN: P3SECSWI6 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_Off On	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS	Local control		

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		beha-viour		
OpCntRs	ABBIED600_Rev3_INC_control_int	Opera-tion coun-ter for eart-hing switch		status-only,di-rect-with-normal-security
Pos	ABBIED600_Rev11_DPC_control	Switch, gene-ral		status-only,di-rect-with-normal-security,sbo-with-enhanced-security
OpOpn	ABBIED600_Rev1_ACT_simple	Opera-tion, open switch		
OpCls	ABBIED600_Rev1_ACT_simple	Opera-tion, close switch		
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
SwModKey	ABBIED600_Rev2_SPC_simple	Switch mode key		status-only
PosOpn	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in closed posi-tion	E	ABBIED600:2014
OpnEna	ABBIED600_Rev1_SPS_e	Open eart-hing switch	E	ABBIED600:2014

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		enabled		
ClsEna	ABBIED600_Rev1_SPS_e	Close earthing switch enabled	E	ABBIED600:2014

5.2.792 LN: P3SDXSWI6 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.793 LN: P3SEXSWI6 Name: XSWI (ED2)

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Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for earthing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Earthing switch		

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		operating capability		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.794 LN: P3SSGAPC1 Name: GAPC (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014

5.2.795 LN: P3SSDCSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, general		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Disconnector in open position	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Disconnector in	E	ABBIED600:2014

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		closed position		

5.2.796 LN: P3SSDXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.797 LN: P3SSECSWI1 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, general		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Earthing switch	E	ABBIED600:2014

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		in open posi-tion		
PosCls	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in closed posi-tion	E	ABBIED600:201 4

5.2.798 LN: P3SSEXSWI1 Name: XSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Loc	ABBIED600_Rev1_SPS_simple	Local control beha-viour		
EEName	ABBIED600_Rev4_DPL_EEName	External equip-ment name plate		
OpCnt	ABBIED600_Rev1_INS	Opera-tion counter for eart-hing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		

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SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capabi-lity		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.799 LN: P3SSGAPC2 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014

5.2.800 LN: P3SSDCSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, gene-ral		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in	E	ABBIED600:2014

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		closed position		

5.2.801 LN: P3SSDXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.802 LN: P3SSECSWI2 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, general		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Earthing switch	E	ABBIED600:2014

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		in open position		
PosCls	ABBIED600_Rev1_SPS_simple_e	Earthing switch in closed position	E	ABBIED600:2014

5.2.803 LN: P3SSEXSWI2 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for earthing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		

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SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capabi-lity		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.804 LN: P3SSGAPC3 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014

5.2.805 LN: P3SSDCSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, gene-ral		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in	E	ABBIED600:2014

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		closed position		

5.2.806 LN: P3SSDXSWI3 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.807 LN: P3SSECSWI3 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, general		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Earthing switch	E	ABBIED600:2014

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		in open posi-tion		
PosCls	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in closed posi-tion	E	ABBIED600:201 4

5.2.808 LN: P3SSEXSWI3 Name: XSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Loc	ABBIED600_Rev1_SPS_simple	Local control beha-viour		
EEName	ABBIED600_Rev4_DPL_EEName	External equip-ment name plate		
OpCnt	ABBIED600_Rev1_INS	Opera-tion counter for eart-hing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		

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SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capabi-lity		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.809 LN: P3SSGAPC4 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014

5.2.810 LN: P3SSDCSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, gene-ral		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in	E	ABBIED600:2014

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		closed position		

5.2.811 LN: P3SSDXSWI4 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.812 LN: P3SSECSWI4 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, general		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Earthing switch	E	ABBIED600:2014

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		in open position		
PosCls	ABBIED600_Rev1_SPS_simple_e	Earthing switch in closed position	E	ABBIED600:2014

5.2.813 LN: P3SSEXSWI4 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for earthing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		

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SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capabi-lity		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.814 LN: P3SSGAPC5 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014

5.2.815 LN: P3SSDCSWI5 Name: CSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, gene-ral		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in	E	ABBIED600:2014

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		closed position		

5.2.816 LN: P3SSDXSWI5 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.817 LN: P3SSECSWI5 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, general		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Earthing switch	E	ABBIED600:2014

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		in open posi-tion		
PosCls	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in closed posi-tion	E	ABBIED600:2014

5.2.818 LN: P3SSEXSWI5 Name: XSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Loc	ABBIED600_Rev1_SPS_simple	Local control beha-viour		
EEName	ABBIED600_Rev4_DPL_EEName	External equip-ment name plate		
OpCnt	ABBIED600_Rev1_INS	Opera-tion counter for eart-hing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		

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SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capabi-lity		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.819 LN: P3SSGAPC6 Name: GAPC (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
PosOk	ABBIED600_Rev1_SPS_simple_e	Position OK	E	ABBIED600:2014
Pos3Sw	ABBIED600_Rev1_ENS_Pos3Sw_e	3-pos switch position	E	ABBIED600:2014

5.2.820 LN: P3SSDCSWI6 Name: CSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, gene-ral		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in open posi-tion	E	ABBIED600:2014
PosCls	ABBIED600_Rev1_SPS_simple_e	Dis-con-nector in	E	ABBIED600:2014

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		closed position		

5.2.821 LN: P3SSDXSWI6 Name: XSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Loc	ABBIED600_Rev1_SPS_simple	Local control behaviour		
EEName	ABBIED600_Rev4_DPL_EEName	External equipment name plate		
OpCnt	ABBIED600_Rev1_INS	Operation counter for disconnector		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block disconnector opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block disconnector closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		
SwOpCap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capability		

5.2.822 LN: P3SSECSWI6 Name: CSWI (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
Pos	ABBIED600_Rev5_DPC_simple	Switch, general		status-only
DscDlTmms	ABBIED600_Rev2_ING_SP_1	Event delay		
PosOpn	ABBIED600_Rev1_SPS_simple_e	Earthing switch	E	ABBIED600:2014

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		in open posi-tion		
PosCls	ABBIED600_Rev1_SPS_simple_e	Eart-hing switch in closed posi-tion	E	ABBIED600:2014

5.2.823 LN: P3SSEXSWI6 Name: XSWI (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
Loc	ABBIED600_Rev1_SPS_simple	Local control beha-viour		
EEName	ABBIED600_Rev4_DPL_EEName	External equip-ment name plate		
OpCnt	ABBIED600_Rev1_INS	Opera-tion counter for eart-hing switch		
Pos	ABBIED600_Rev5_DPC_simple	Switch position		status-only
BlkOpn	ABBIED600_Rev2_SPC_simple	Block earthing switch opening		status-only
BlkCls	ABBIED600_Rev2_SPC_simple	Block earthing switch closing		status-only
SwTyp	ABBIED600_Rev1_ENS_SwTyp	Switch type		

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SwOp-Cap	ABBIED600_Rev1_ENS_SwOpCap	Switch operating capabi-lity		
ReedEna	ABBIED600_Rev2_SPG_SP_e	Reed contact enabled	E	ABBIED600:2014

5.2.824 LN: RDRE1 Name: RDRE (ED2)

Attribute name	Attribute type	Expla-nation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_On	Mode		status-only
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
RcdTrg	ABBIED600_Rev3_SPC_control	Trig recor-ding		status-only,di-rect-with-nor-mal-security
MemClr	ABBIED600_Rev3_SPC_control	Dis-tur-bance re-cords		status-only,di-rect-with-nor-mal-security
RcdMade	ABBIED600_Rev1_SPS_simple	Recor-ding made		
FltNum	ABBIED600_Rev1_INS	Num-ber of recor-dings		
RcdStr	ABBIED600_Rev1_SPS_simple	Recor-ding started		
MemUsed	ABBIED600_Rev1_INS	Rec. me-mory used		
PerTrgTms	ABBIED600_Rev2_ING_SP_time	Pe-riodic trig time		
ExclTmms	ABBIED600_Rev2_ING_SP_time	Exclu-sion time		

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RcdMod	ABBIED600_Rev2_ENG_SP_RcdMod	Operation mode		
RcdDltInd	ABBIED600_Rev1_SPS_simple_e	Recording deleted	E	ABBIED600:2014
RmnRcdCap	ABBIED600_Rev1_INS_e	Rem. amount of rec.	E	ABBIED600:2014
MemFullSt	ABBIED600_Rev1_SPS_simple_e	Memory full	E	ABBIED600:2014
OvWrRcdInd	ABBIED600_Rev1_SPS_simple_e	Overwrite of rec.	E	ABBIED600:2014
PreTrgLen	ABBIED600_Rev2_ING_SP_1_e	Pretrg length	E	ABBIED600:2014
RcdLen	ABBIED600_Rev2_ING_SP_1_e	Record length	E	ABBIED600:2014
StoRteSel	ABBIED600_Rev3_ING_SP_EStoRte_e	Storage rate	E	ABBIED600:2014
StoModPer	ABBIED600_Rev3_ENG_SP_EStoMod_e	Stor. mode periodic	E	ABBIED600:2014
StoModMan	ABBIED600_Rev3_ENG_SP_EStoMod_e	Stor. mode manual	E	ABBIED600:2014
PerTmRmn	ABBIED600_Rev1_INS_e	Time to trigger	E	ABBIED600:2014
PerTrgInd	ABBIED600_Rev1_SPS_simple_e	Periodic triggering	E	ABBIED600:2014
ManTrgInd	ABBIED600_Rev1_SPS_simple_e	Manual triggering	E	ABBIED600:2014

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5.2.825 LN: A1RADR1 Name: RADR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ChTrg	ABBIED600_Rev1_SPS	Channel triggered		
HiTrgLev	ABBIED600_Rev8_ASG_SP_i	High trigger level		
LoTrgLev	ABBIED600_Rev8_ASG_SP_i	Low trigger level		
StoMod	ABBIED600_Rev3_ENG_SP_EStoMod_e	Storage mode	E	ABBIED600:2014
ExclTmRmn	ABBIED600_Rev1_INS_e	Exclusion time rem.	E	ABBIED600:2014

5.2.826 LN: A2RADR13 Name: RADR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Operation		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ChTrg	ABBIED600_Rev1_SPS	Channel		

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		trig-gered		
HiTrgLev	ABBIED600_Rev8_ASG_SP_i	High trig-ger level		
LoTrgLev	ABBIED600_Rev8_ASG_SP_i	Low trig-ger level		
StoMod	ABBIED600_Rev3_ENG_SP_EStoMod_e	Sto-rage mode	E	ABBIED600:2014
ExclT-mRmn	ABBIED600_Rev1_INS_e	Ex-clu-sion time rem.	E	ABBIED600:2014

5.2.827 LN: B1RBDR1 Name: RBDR (ED2)

Attri-bute name	Attribute type	Ex-pla-natio n	M/O/ E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Ope-ration		status-only,direct-with-normal-se-curity
Beh	ABBIED600_Rev10_ENS_beh	Beha-viour		
ChTrg	ABBIED600_Rev1_SPS_simple	Chan-nel trig-gered		
LevMod	ABBIED600_Rev3_ENG_SP_LevMod	Level trig-ger mode		
StoMod	ABBIED600_Rev3_ENG_SP_EStoMod_e	Sto-rage mode	E	ABBIED600:2014
ExclT-mRmn	ABBIED600_Rev1_INS_e	Ex-clu-sion	E	ABBIED600:2014

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		time rem.		
BinInSt	ABBIED600_Rev1_SPS_e	input	E	ABBIED600:2014

5.2.828 LN: B2RBDR33 Name: RBDR (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev2_ENC_Mod_OffOn	Mode		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Behaviour		
ChTrg	ABBIED600_Rev1_SPS_simple	Channel triggered		
LevMod	ABBIED600_Rev3_ENG_SP_LevMod	Level trigger mode		
StoMod	ABBIED600_Rev3_ENG_SP_EStoMod_e	Storage mode	E	ABBIED600:2014
ExclTmRmn	ABBIED600_Rev1_INS_e	Exclusion time rem.	E	ABBIED600:2014
BinInSt	ABBIED600_Rev1_SPS_e	input	E	ABBIED600:2014

5.2.829 LN: LLN0 Name: LLN0 (ED2)

Attribute name	Attribute type	Explanation	M/O/E	Remarks
Mod	ABBIED600_Rev6_ENC_Mod_OnOff_ED2	Mod		status-only,direct-with-normal-security
Beh	ABBIED600_Rev10_ENS_beh	Beh		
Health	ABBIED600_Rev6_ENS_health	Health		

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NamPlt	ABBIED600_Rev4_LPL_CTRLDR_LNN0	NamPlt		
Blk	ABBIED600_Rev1_SPS_simple	Block signal for all binary outputs		
SvSmplSynFrm	ABBIED600_Rev1_ENG_SP_SmvFieldFormat_e	Smv SmpSynch for-mat	E	ABBIED600: 2014

6. Common Data Class Extensions

6.1. New common data classes

None

6.2. Extented data classes ED1

7. Enum type extensions

7.1. New Enum types

7.1.1. ABBIED600_Rev1_CtlModelKind_StatusDirect

Value	Description	Remarks
0	status-only	
1	direct-with-normal-security	

7.1.2. ABBIED600_Rev1_OpModSG

Value	Description	Remarks
0	Operator	SG operation mode,Operation mode for setting group change
1	Logic mode 1	SG operation mode,Operation mode for setting group change
2	Logic mode 2	SG operation mode,Operation mode for setting group change

7.1.3. ABBIED600_Rev1_CpySG

Value	Description	Remarks

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1	Cancel	Copy group 1,Copy setting group 1 values into selected group
2	Copy 1 into 2	Copy group 1,Copy setting group 1 values into selected group
3	Copy 1 into 3	Copy group 1,Copy setting group 1 values into selected group
4	Copy 1 into 4	Copy group 1,Copy setting group 1 values into selected group
5	Copy 1 into 5	Copy group 1,Copy setting group 1 values into selected group
6	Copy 1 into 6	Copy group 1,Copy setting group 1 values into selected group
99	Copy 1 into all	Copy group 1,Copy setting group 1 values into selected group

7.1.4. ABBIED600_Rev1_CtlModelKind_Status

Value	Description	Remarks
0	status-only	

7.1.5. ABBIED600_Rev2_SetSvMaxDl

Value	Description	Remarks
0	2/2 ms	SMV Max Delay,SMV Maximum allowed delay
1	3/3 ms	SMV Max Delay,SMV Maximum allowed delay
2	5/4 ms	SMV Max Delay,SMV Maximum allowed delay
3	6/5 ms	SMV Max Delay,SMV Maximum allowed delay
4	7/6 ms	SMV Max Delay,SMV Maximum allowed delay

7.1.6. ABBIED600_Rev1_AuthMod

Value	Description	Remarks
1	Central	UAM mode,Authority Mode of system
2	Local	UAM mode,Authority Mode of system

7.1.7. ABBIED600_Rev1_SrvSt

Value	Description	Remarks
1	Online	CAM server1,Status of CAM server1
2	Offline	CAM server1,Status of CAM server1

7.1.8. ABBIED600_Rev1_RplSt

Value	Description	Remarks
0	Bad	Replication,Status of replication
1	Good	Replication,Status of replication
2	Pending	Replication,Status of replication
3	NA	Replication,Status of replication

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7.1.9. ABBIED600_Rev2_CommMod_Sub1

Value	Description	Remarks
0	Off	FTP write access,FTP write access
1	On	FTP write access,FTP write access

7.1.10. ABBIED600_Rev1_UamConfMod

Value	Description	Remarks
0	LDAP	
1	AD	

7.1.11. ABBIED600_Rev1_AlmLedSt

Value	Description	Remarks
0	None	
1	Ok	
2	Warning	
3	Alarm	

7.1.12. ABBIED600_Rev2_LedMode

Value	Description	Remarks
0	Follow-S	Alarm mode,Alarm mode for programmable LED 1
1	Follow-F	Alarm mode,Alarm mode for programmable LED 1
2	Latched-S	Alarm mode,Alarm mode for programmable LED 1
3	LatchedAck-F-S	Alarm mode,Alarm mode for programmable LED 1

7.1.13. ABBIED600_Rev2_LedColor

Value	Description	Remarks
1	Green	Alarm colour,Colour for the alarm state of the LED
2	Red	Alarm colour,Colour for the alarm state of the LED
3	Yellow	Alarm colour,Colour for the alarm state of the LED

7.1.14. ABBIED600_Rev6_SyncSrc

Value	Description	Remarks
0	None	Synch source,Time synchronization source
1	SNTP	Synch source,Time synchronization source
2	Modbus	Synch source,Time synchronization source
3	IEEE 1588	Synch source,Time synchronization source

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5	IRIG-B	Synch source,Time synchronization source
8	Protection communication	Synch source,Time synchronization source
9	DNP	Synch source,Time synchronization source
16	IEC60870-5-101	Synch source,Time synchronization source
17	IEC60870-5-103	Synch source,Time synchronization source
18	IEC60870-5-104	Synch source,Time synchronization source

7.1.15. ABBIED600_Rev3_TmSrc

Value	Description	Remarks
0	Not defined	Synch source,Current time source
1	SNTP primary	Synch source,Current time source
2	SNTP secondary	Synch source,Current time source
3	SNTP tertiary or further	Synch source,Current time source
4	IEEE 1588 master	Synch source,Current time source
5	IEEE 1588 slave	Synch source,Current time source
6	IEEE 1588 further	Synch source,Current time source
7	IRIG-B	Synch source,Current time source
8	DNP 5.0	Synch source,Current time source
9	Modbus	Synch source,Current time source
10	SPA	Synch source,Current time source
11	LON VATS	Synch source,Current time source
12	LON other	Synch source,Current time source
13	PPS	Synch source,Current time source
14	Minute pulse	Synch source,Current time source
15	local GPS	Synch source,Current time source
16	IEC60870-5-101	Synch source,Current time source
17	IEC60870-5-103	Synch source,Current time source
18	IEC60870-5-104	Synch source,Current time source
19	EXT	Synch source,Current time source
20	LHMI	Synch source,Current time source
21	Line differential	Synch source,Current time source
99	Free running, locally generated	Synch source,Current time source

7.1.16. ABBIED600_Rev1_PTPTmSrc

Va-lue	Description	Remarks

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1	Atomic clock	PTP gm time Src,PTP grandmaster timeSource enum according to PTPv2
2	GPS	PTP gm time Src,PTP grandmaster timeSource enum according to PTPv2
3	Terrestial radio	PTP gm time Src,PTP grandmaster timeSource enum according to PTPv2
4	PTP	PTP gm time Src,PTP grandmaster timeSource enum according to PTPv2
5	NTP	PTP gm time Src,PTP grandmaster timeSource enum according to PTPv2
6	Hand set	PTP gm time Src,PTP grandmaster timeSource enum according to PTPv2
7	Other	PTP gm time Src,PTP grandmaster timeSource enum according to PTPv2
8	Internal oscil.	PTP gm time Src,PTP grandmaster timeSource enum according to PTPv2

7.1.17. ABBIED600_Rev1_PTPClkAcc

Value	Description	Remarks
1	25 ns	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
2	100 ns	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
3	250 ns	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
4	1 us	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
5	2.5 us	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
6	10 us	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
7	25 us	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
8	100 us	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
9	250 us	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
10	1 ms	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
11	2.5 ms	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2

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12	10 ms	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
13	25 ms	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
14	100 ms	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
15	250 ms	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
16	1 s	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
17	10 s	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2
18	more than 10 s	PTP gm accuracy,PTP grandmaster clockAccuracy enum according to PTPv2

7.1.18. ABBIED600_Rev1_PTPProf

Value	Description	Remarks
1	IEEE C37.238-2011	PTP Profile,Profile Selection for the Precision Time Protocol
2	IEC 61850-9-3	PTP Profile,Profile Selection for the Precision Time Protocol

7.1.19. ABBIED600_Rev2_EthFilMod

Value	Description	Remarks
0	Off	Filter mode A_B,Filter out selected message types
1	SMV	Filter mode A_B,Filter out selected message types
2	GOOSE	Filter mode A_B,Filter out selected message types
3	GOOSE and SMV	Filter mode A_B,Filter out selected message types

7.1.20. ABBIED600_Rev2_EthPortMod

Value	Description	Remarks
0	Off	Port mode X1,Ethernet port mode
1	On	Port mode X1,Ethernet port mode

7.1.21. ABBIED600_Rev3_FibMod

Value	Description	Remarks
0	No fiber	Fiber mode,Fiber mode (light ON/OFF = idle)
1	Fiber light ON loop	Fiber mode,Fiber mode (light ON/OFF = idle)

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2	Fiber light OFF loop	Fiber mode,Fiber mode (light ON/OFF = idle)
3	Fiber light ON star	Fiber mode,Fiber mode (light ON/OFF = idle)
4	Fiber light OFF star	Fiber mode,Fiber mode (light ON/OFF = idle)

7.1.22. ABBIED600_Rev1_SerMod

Value	Description	Remarks
1	RS485 2Wire	Serial mode,Serial mode
2	RS485 4Wire	Serial mode,Serial mode
3	RS232 no handshake	Serial mode,Serial mode
4	RS232 with handshake	Serial mode,Serial mode

5.1.23 ABBIED600_Rev1_BaudRate

Value	Description	Remarks
1	300	Baudrate,Baudrate
2	600	Baudrate,Baudrate
3	1200	Baudrate,Baudrate
4	2400	Baudrate,Baudrate
5	4800	Baudrate,Baudrate
6	9600	Baudrate,Baudrate
7	19200	Baudrate,Baudrate
8	38400	Baudrate,Baudrate
9	57600	Baudrate,Baudrate
10	115200	Baudrate,Baudrate

5.1.24 ABBIED600_Rev7_TestSpvnKind_Sub10

Value	Description	Remarks
0	Reset	TCSSCBR1,Test control for outputs
5	Activate ALARM	TCSSCBR1,Test control for outputs
6	Deactive ALARM	TCSSCBR1,Test control for outputs

5.1.25 ABBIED600_Rev1_OpModComp

Value	Description	Remarks
1	Over	Operation mode,Operation mode
2	Under	Operation mode,Operation mode

5.1.26 ABBIED600_Rev8_TestProKind_Sub2

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Value	Description	Remarks
0	Reset	MAPGAPC1,Test control for outputs
1	Activate START	MAPGAPC1,Test control for outputs
2	Deactive START	MAPGAPC1,Test control for outputs
9	Activate OPERATE	MAPGAPC1,Test control for outputs
10	Deactive OPERATE	MAPGAPC1,Test control for outputs

5.1.27 ABBIED600_Rev7_TestSpvnKind_Sub9

Value	Description	Remarks
0	Reset	SSCBR1,Test control for outputs
9	Act. TRV_T_OP_ALM	SSCBR1,Test control for outputs
10	Deact. TRV_T_OP_ALM	SSCBR1,Test control for outputs
11	Act. TRV_T_CL_ALM	SSCBR1,Test control for outputs
12	Deact. TRV_T_CL_ALM	SSCBR1,Test control for outputs
17	Activate SPR_CHR_ALM	SSCBR1,Test control for outputs
18	Deactive SPR_CHR_ALM	SSCBR1,Test control for outputs
19	Activate OPR_ALM	SSCBR1,Test control for outputs
20	Deactive OPR_ALM	SSCBR1,Test control for outputs
21	Activate OPR_LO	SSCBR1,Test control for outputs
22	Deactive OPR_LO	SSCBR1,Test control for outputs
23	Activate IPOW_ALM	SSCBR1,Test control for outputs
24	Deactive IPOW_ALM	SSCBR1,Test control for outputs
25	Activate IPOW_LO	SSCBR1,Test control for outputs
26	Deactive IPOW_LO	SSCBR1,Test control for outputs
27	Activate CB_LIFE_ALM	SSCBR1,Test control for outputs
28	Deactive CB_LIFE_ALM	SSCBR1,Test control for outputs
29	Activate MON_ALM	SSCBR1,Test control for outputs
30	Deactive MON_ALM	SSCBR1,Test control for outputs
31	Activate PRES_ALM	SSCBR1,Test control for outputs
32	Deactive PRES_ALM	SSCBR1,Test control for outputs
33	Activate PRES_LO	SSCBR1,Test control for outputs
34	Deactive PRES_LO	SSCBR1,Test control for outputs
35	Activate OPENPOS	SSCBR1,Test control for outputs
36	Deactive OPENPOS	SSCBR1,Test control for outputs
37	Activate INVALIDPOS	SSCBR1,Test control for outputs
38	Deactive INVALIDPOS	SSCBR1,Test control for outputs

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39	Activate CLOSEPOS	SSCBR1,Test control for outputs
40	Deactive CLOSEPOS	SSCBR1,Test control for outputs

5.1.28 ABBIED600_Rev4_TrvClcMod

Value	Description	Remarks
1	From Cmd to Pos	Travel time Clc mode,Travel time calculation mode selection
2	From Pos to Pos	Travel time Clc mode,Travel time calculation mode selection
3	From Cmd to Curr	Travel time Clc mode,Travel time calculation mode selection
4	From Pos to Curr	Travel time Clc mode,Travel time calculation mode selection
5	Manual	Travel time Clc mode,Travel time calculation mode selection

5.1.29 ABBIED600_Rev7_TestSpvnKind_Sub2

Value	Description	Remarks
0	Reset	CCSPVC2,Test control for outputs
5	Activate ALARM	CCSPVC2,Test control for outputs
6	Deactive ALARM	CCSPVC2,Test control for outputs
41	Activate FAIL	CCSPVC2,Test control for outputs
42	Deactive FAIL	CCSPVC2,Test control for outputs

5.1.30 ABBIED600_Rev2_MeasMod

Value	Description	Remarks
1	RMS	Measurement mode,Phase current measurement mode of function
2	DFT	Measurement mode,Phase current measurement mode of function
3	Peak-to-Peak	Measurement mode,Phase current measurement mode of function
4	P-to-P + backup	Measurement mode,Phase current measurement mode of function
5	Wide P-to-P	Measurement mode,Phase current measurement mode of function

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5.1.31 ABBIED600_Rev1_buTripMode

Value	Description	Remarks
1	2 out of 4	CB failure trip mode,Backup trip current check mode
2	1 out of 3	CB failure trip mode,Backup trip current check mode
3	1 out of 4	CB failure trip mode,Backup trip current check mode

5.1.32 ABBIED600_Rev14_TestProRlKind_Sub1

Value	Description	Remarks
0	Reset	CCBRBRF1,Test control for outputs
3	Activate CB_FAULT_AL	CCBRBRF1,Test control for outputs
4	Deactive CB_FAULT_AL	CCBRBRF1,Test control for outputs
5	Activate TRBU	CCBRBRF1,Test control for outputs
6	Deactive TRBU	CCBRBRF1,Test control for outputs
7	Activate TRRET	CCBRBRF1,Test control for outputs
8	Deactive TRRET	CCBRBRF1,Test control for outputs

5.1.33 ABBIED600_Rev1_StrLtcMod

Value	Description	Remarks
1	Rising edge	Start latching mode,Start reset delayed or immediately
2	Level sensitive	Start latching mode,Start reset delayed or immediately

5.1.34 ABBIED600_Rev1_TrOutMod

Value	Description	Remarks
1	Non-latched	Trip output mode,Select the operation mode for trip output
2	Latched	Trip output mode,Select the operation mode for trip output
3	Lockout	Trip output mode,Select the operation mode for trip output

5.1.35 ABBIED600_Rev2_StrPhSel_Sub1

Value	Description	Remarks
1	1 out of 3	Num of start phases,Number of phases required for operate activation
2	2 out of 3	Num of start phases,Number of phases required for operate activation

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3	3 out of 3	Num of start phases,Number of phases required for operate activation

5.1.36 ABBIED600_Rev2_MeasMod_Sub4

Value	Description	Remarks
1	RMS	Measurement mode,Selects used measurement mode
2	DFT	Measurement mode,Selects used measurement mode
3	Peak-to-Peak	Measurement mode,Selects used measurement mode
5	Wide P-to-P	Measurement mode,Selects used measurement mode

5.1.37 ABBIED600_Rev2_MeasMod_Sub2

Value	Description	Remarks
1	RMS	Measurement mode,Selects used measurement mode
2	DFT	Measurement mode,Selects used measurement mode
3	Peak-to-Peak	Measurement mode,Selects used measurement mode

5.1.38 ABBIED600_Rev1_AResSigSel

Value	Description	Remarks
1	Measured Io	Io signal Sel,Selection for used Io signal
2	Calculated Io	Io signal Sel,Selection for used Io signal

5.1.39 ABBIED600_Rev1_PhVMeas

Value	Description	Remarks
1	Accurate	Phase voltage Meas,Phase voltage measurement principle
2	Ph-to-ph without Uo	Phase voltage Meas,Phase voltage measurement principle

5.1.40 ABBIED600_Rev2_SysGnd_Sub1

Value	Description	Remarks
1	High impedance	System grounding GFC,Network neutral earthing method
2	Low impedance	System grounding GFC,Network neutral earthing method
3	From input	System grounding GFC,Network neutral earthing method

5.1.41 ABBIED600_Rev1_PhPrfModHi

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Value	Description	Remarks
1	No filter	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
2	No preference	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
3	Cyc A-B-C-A	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
4	Cyc A-C-B-A	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
5	Acyc A-B-C	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
6	Acyc A-C-B	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
7	Acyc B-A-C	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
8	Acyc B-C-A	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
9	Acyc C-A-B	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network
10	Acyc C-B-A	Ph Prf mode Hi Z GFC,Phase preference mode for high impedance earthed network

5.1.42 ABBIED600_Rev1_PhPrfModLo

Value	Description	Remarks
1	All loops	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network
2	PE only	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network
3	PP only	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network
4	BLK leading PE	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network
5	BLK lagging PE	Ph Prf mode Lo Z GFC,Loop selection mode for low impedance earthed network

5.1.43 ABBIED600_Rev1_ZMod

Value	Description	Remarks

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1	Rectangu-lar	Impedance mode Zn,Impedance characteristic, underimpedance, PSL
2	Polar	Impedance mode Zn,Impedance characteristic, underimpedance, PSL

5.1.44 ABBIED600_Rev1_ZChrMod

Va-lue	Description	Remarks
1	Quadrilateral	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones
2	Mho (circu-lar)	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones
3	Mho Dir line	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones
4	Offset Dir line	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones
5	Bullet (combi)	Impedance Chr Gnd Zn,Impedance characteristic for PE-loops, zones

5.1.45 ABBIED600_Rev1_ZnTmMod

Value	Description	Remarks
1	Independent	Zone timer mode,Operate timer start mode, zones
2	Common	Zone timer mode,Operate timer start mode, zones

5.1.46 ABBIED600_Rev3_PhSelMod

Value	Description	Remarks
1	Overcurrent	Phase Sel mode GFC,Phase selection method
2	Vol Dep Overcur	Phase Sel mode GFC,Phase selection method
3	Under impedance	Phase Sel mode GFC,Phase selection method
4	OC AND Und impedance	Phase Sel mode GFC,Phase selection method

5.1.47 ABBIED600_Rev1_EfDetMod

Value	Description	Remarks
1	Io	EF detection Mod GFC,Earth-fault (EF) detection method
2	Io OR Uo	EF detection Mod GFC,Earth-fault (EF) detection method
3	Io AND Uo	EF detection Mod GFC,Earth-fault (EF) detection method
4	Io AND IoRef	EF detection Mod GFC,Earth-fault (EF) detection method

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5.1.48 ABBIED600_Rev1_ZChrMod_Sub1

Value	Description	Remarks
1	Quadrilateral	Z Chr Mod Ph Sel GFC,Impedance characteristic, underimpedance, PSL
2	Mho (circular)	Z Chr Mod Ph Sel GFC,Impedance characteristic, underimpedance, PSL

5.1.49 ABBIED600_Rev1_SelActZn

Value	Description	Remarks
1	Zone 1	Select active zones,Active zones selection
2	Zones 1-2	Select active zones,Active zones selection
3	Zones 1-3	Select active zones,Active zones selection
4	Zones 1-4	Select active zones,Active zones selection
5	All 5 zones	Select active zones,Active zones selection

5.1.50 ABBIED600_Rev1_OpModEF

Value	Description	Remarks
1	Phase angle	Operation mode,Operation criteria
2	IoSin	Operation mode,Operation criteria
3	IoCos	Operation mode,Operation criteria
4	Phase angle 80	Operation mode,Operation criteria
5	Phase angle 88	Operation mode,Operation criteria

5.1.51 ABBIED600_Rev1_VResSigSel

Value	Description	Remarks
1	Measured Uo	Uo signal Sel,Selection for used Uo signal
2	Calculated Uo	Uo signal Sel,Selection for used Uo signal

5.1.52 ABBIED600_Rev8_TestProKind_Sub11

Value	Description	Remarks
0	Reset	INTRPTEF1,Test control for outputs
1	Activate START	INTRPTEF1,Test control for outputs
2	Deactive START	INTRPTEF1,Test control for outputs
9	Activate OPERATE	INTRPTEF1,Test control for outputs

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10	Deactive OPERATE	INTRPTEF1,Test control for outputs
23	Activate BLK_EF	INTRPTEF1,Test control for outputs
24	Deactive BLK_EF	INTRPTEF1,Test control for outputs

5.1.53 ABBIED600_Rev2_OpModTEF

Value	Description	Remarks
1	Intermittent EF	Operation mode,Operation criteria
2	Transient EF	Operation mode,Operation criteria
3	General EF	Operation mode,Operation criteria
4	Alarming EF	Operation mode,Operation criteria

5.1.54 ABBIED600_Rev1_EFTrMod

Value	Description	Remarks
1	Alarming EF	Operation mode,Operation criteria
2	Tripping EF	Operation mode,Operation criteria

5.1.55 ABBIED600_Rev1_CrvClcMod

Value	Description	Remarks
1	Cumulative	IDMT calculation Mod,IDMT calculation mode
2	Momentary	IDMT calculation Mod,IDMT calculation mode

5.1.56 ABBIED600_Rev1_TchVOpMod

Value	Description	Remarks
1	EF current based	Operation principle,Operation principle
2	Touch voltage based	Operation principle,Operation principle

5.1.57 ABBIED600_Rev1_PFDir

Value	Description	Remarks
1	Lagging	Alarm value Dir,PF direction for alarm value
2	Leading	Alarm value Dir,PF direction for alarm value

5.1.58 ABBIED600_Rev8_TestProKind_Sub4

Value	Description	Remarks
0	Reset	MPUPF1,Test control for outputs

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1	Activate START	MPUPF1,Test control for outputs
2	Deactive START	MPUPF1,Test control for outputs
9	Activate OPERATE	MPUPF1,Test control for outputs
10	Deactive OPERATE	MPUPF1,Test control for outputs
17	Activate ALARM	MPUPF1,Test control for outputs
18	Deactive ALARM	MPUPF1,Test control for outputs

5.1.59 ABBIED600_Rev1_OpModPh

Value	Description	Remarks
1	Three Phase	Operation mode,Number of phases needed to start
2	Single Phase	Operation mode,Number of phases needed to start

5.1.60 ABBIED600_Rev2_VSel_Sub1

Value	Description	Remarks
1	phase-to-earth	Voltage selection,Parameter to select phase or phase-to-phase voltages
2	phase-to-phase	Voltage selection,Parameter to select phase or phase-to-phase voltages

5.1.61 ABBIED600_Rev1_TypTmRs

Value	Description	Remarks
1	Freeze Op timer	Type of time reset,Selection of time reset
2	Decrease Op timer	Type of time reset,Selection of time reset

5.1.62 ABBIED600_Rev1_AlmMod

Value	Description	Remarks
1	Any of selected	Alarm mode,Selects the used alarm logic mode for activating SEND_SIG_A and RECV_SIG_A
2	All of selected	Alarm mode,Selects the used alarm logic mode for activating SEND_SIG_A and RECV_SIG_A

5.1.63 ABBIED600_Rev1_BstMode

Value	Description	Remarks
1	In use	Signal 1 mode,Operation mode for signal 1

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2	In use, alarm sel.	Signal 1 mode,Operation mode for signal 1
3	Not in use	Signal 1 mode,Operation mode for signal 1

5.1.64 ABBIED600_Rev8_TestProKind_Sub12

Value	Description	Remarks
0	Reset	LNPLDF1,Test control for outputs
1	Activate START	LNPLDF1,Test control for outputs
2	Deactive START	LNPLDF1,Test control for outputs
9	Activate OPERATE	LNPLDF1,Test control for outputs
10	Deactive OPERATE	LNPLDF1,Test control for outputs
27	Activate STR_LS_LOC	LNPLDF1,Test control for outputs
28	Deactive STR_LS_LOC	LNPLDF1,Test control for outputs
29	Activate STR_LS_REM	LNPLDF1,Test control for outputs
30	Deactive STR_LS_REM	LNPLDF1,Test control for outputs
31	Activate OPR_LS_LOC	LNPLDF1,Test control for outputs
32	Deactive OPR_LS_LOC	LNPLDF1,Test control for outputs
33	Activate OPR_LS_REM	LNPLDF1,Test control for outputs
34	Deactive OPR_LS_REM	LNPLDF1,Test control for outputs
35	Activate OPR_HS_LOC	LNPLDF1,Test control for outputs
36	Deactive OPR_HS_LOC	LNPLDF1,Test control for outputs
37	Activate OPR_HS_REM	LNPLDF1,Test control for outputs
38	Deactive OPR_HS_REM	LNPLDF1,Test control for outputs
39	Activate RSTD2H_LOC	LNPLDF1,Test control for outputs
40	Deactive RSTD2H_LOC	LNPLDF1,Test control for outputs
41	Activate RSTD2H_REM	LNPLDF1,Test control for outputs
42	Deactive RSTD2H_REM	LNPLDF1,Test control for outputs
43	Activate PROT_ACTIVE	LNPLDF1,Test control for outputs
44	Deactive PROT_ACTIVE	LNPLDF1,Test control for outputs

5.1.65 ABBIED600_Rev1_CTConnTyp

Va-lue	Descrip-tion	Remarks
1	Type 1	CT connection type,CT connection type. Determined by the direc-tions of the connected current transformers.
2	Type 2	CT connection type,CT connection type. Determined by the direc-tions of the connected current transformers.

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5.1.66 ABBIED600_Rev1_WndSel_Sub1

Value	Description	Remarks
1	Not in use	Winding selection,IED location respect to transformer, HV (Winding 1) side or LV (Winding 2) side
2	Winding 1	Winding selection,IED location respect to transformer, HV (Winding 1) side or LV (Winding 2) side
3	Winding 2	Winding selection,IED location respect to transformer, HV (Winding 1) side or LV (Winding 2) side

5.1.67 ABBIED600_Rev2_Wnd1Typ

Value	Description	Remarks
1	Y	Winding 1 type,Connection of the HV side windings
2	YN	Winding 1 type,Connection of the HV side windings
3	D	Winding 1 type,Connection of the HV side windings
4	Z	Winding 1 type,Connection of the HV side windings
5	ZN	Winding 1 type,Connection of the HV side windings

5.1.68 ABBIED600_Rev2_Wnd2Typ

Value	Description	Remarks
1	y	Winding 2 type,Connection of the LV side windings
2	yn	Winding 2 type,Connection of the LV side windings
3	d	Winding 2 type,Connection of the LV side windings
4	z	Winding 2 type,Connection of the LV side windings
5	zn	Winding 2 type,Connection of the LV side windings

5.1.69 ABBIED600_Rev1_ClkNum

Value	Description	Remarks
0	Clk Num 0	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
1	Clk Num 1	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
2	Clk Num 2	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
4	Clk Num 4	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)

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5	Clk Num 5	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
6	Clk Num 6	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
7	Clk Num 7	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
8	Clk Num 8	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
10	Clk Num 10	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)
11	Clk Num 11	Clock number,Setting the phase shift between HV and LV with clock number for connection group compensation (e.g. Dyn11 -> 11)

5.1.70 ABBIED600_Rev3_ZroAElm_Sub1

Value	Description	Remarks
1	Not eliminated	Zro A elimination,Elimination of the zero-sequence current
2	Winding 1	Zro A elimination,Elimination of the zero-sequence current
3	Winding 2	Zro A elimination,Elimination of the zero-sequence current
4	Winding 1 and 2	Zro A elimination,Elimination of the zero-sequence current

5.1.71 ABBIED600_Rev8_TestProKind_Sub7

Value	Description	Remarks
0	Reset	FRPFRQ1,Test control for outputs
1	Activate START	FRPFRQ1,Test control for outputs
2	Deactive START	FRPFRQ1,Test control for outputs
9	Activate OPERATE	FRPFRQ1,Test control for outputs
10	Deactive OPERATE	FRPFRQ1,Test control for outputs
69	Activate OPR_UFRQ	FRPFRQ1,Test control for outputs
70	Deactive OPR_UFRQ	FRPFRQ1,Test control for outputs
71	Activate OPR_OFRQ	FRPFRQ1,Test control for outputs
72	Deactive OPR_OFRQ	FRPFRQ1,Test control for outputs
73	Activate OPR_FRG	FRPFRQ1,Test control for outputs
74	Deactive OPR_FRG	FRPFRQ1,Test control for outputs
75	Activate ST_UFRQ	FRPFRQ1,Test control for outputs
76	Deactive ST_UFRQ	FRPFRQ1,Test control for outputs
77	Activate ST_OFRQ	FRPFRQ1,Test control for outputs
78	Deactive ST_OFRQ	FRPFRQ1,Test control for outputs

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79	Activate ST_FRG	FRPFRQ1,Test control for outputs
80	Deactive ST_FRG	FRPFRQ1,Test control for outputs

5.1.72 ABBIED600_Rev1_OpModProHz

Value	Description	Remarks
1	Freq<	Operation mode,Frequency protection operation mode selection
2	Freq>	Operation mode,Frequency protection operation mode selection
3	df/dt	Operation mode,Frequency protection operation mode selection
4	Freq< + df/dt	Operation mode,Frequency protection operation mode selection
5	Freq> + df/dt	Operation mode,Frequency protection operation mode selection
6	Freq< OR df/dt	Operation mode,Frequency protection operation mode selection
7	Freq> OR df/dt	Operation mode,Frequency protection operation mode selection
8	Freq< AND df/dt	Operation mode,Frequency protection operation mode selection
9	Freq> AND df/dt	Operation mode,Frequency protection operation mode selection
10	Freq< OR Freq>	Operation mode,Frequency protection operation mode selection

5.1.73 ABBIED600_Rev1_OpModProHz_Sub2

Value	Description	Remarks
1	Freq<	Load shed mode,Set the operation mode for load shedding function
6	Freq< OR df/dt	Load shed mode,Set the operation mode for load shedding function
8	Freq< AND df/dt	Load shed mode,Set the operation mode for load shedding function

5.1.74 ABBIED600_Rev1_AutoManMod

Value	Description	Remarks

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1	Disabled	Restore mode,Mode of operation of restore functionality
2	Auto	Restore mode,Mode of operation of restore functionality
3	Manual	Restore mode,Mode of operation of restore functionality

5.1.75 ABBIED600_Rev8_TestProKind_Sub23

Value	Description	Remarks
0	Reset	ARCSARC1,Test control for outputs
9	Activate OPERATE	ARCSARC1,Test control for outputs
10	Deactive OPERATE	ARCSARC1,Test control for outputs
17	Activate ALARM	ARCSARC1,Test control for outputs
18	Deactive ALARM	ARCSARC1,Test control for outputs
25	Activate ARC_FLT_DET	ARCSARC1,Test control for outputs
26	Deactive ARC_FLT_DET	ARCSARC1,Test control for outputs

5.1.76 ABBIED600_Rev1_OpModArc

Value	Description	Remarks
1	Light+current	Operation mode,Operation mode
2	Light only	Operation mode,Operation mode
3	BI controlled	Operation mode,Operation mode

5.1.77 ABBIED600_Rev2_PhSv_Sub1

Value	Description	Remarks
1	Ph A	Phase supervision,Monitored voltage phase
2	Ph B	Phase supervision,Monitored voltage phase
3	Ph A + B	Phase supervision,Monitored voltage phase
4	Ph C	Phase supervision,Monitored voltage phase
5	Ph A + C	Phase supervision,Monitored voltage phase
6	Ph B + C	Phase supervision,Monitored voltage phase
7	Ph A + B + C	Phase supervision,Monitored voltage phase

5.1.78 ABBIED600_Rev1_TestOthKind_Sub2

Value	Description	Remarks
0	Reset	PHQVVR1,Test control for outputs
1	Activate START	PHQVVR1,Test control for outputs
2	Deactive START	PHQVVR1,Test control for outputs

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3	Activate OPERATE	PHQVVR1,Test control for outputs
4	Deactive OPERATE	PHQVVR1,Test control for outputs
5	Activate SWELLST	PHQVVR1,Test control for outputs
6	Deactive SWELLST	PHQVVR1,Test control for outputs
7	Activate DIPST	PHQVVR1,Test control for outputs
8	Deactive DIPST	PHQVVR1,Test control for outputs
9	Activate INTST	PHQVVR1,Test control for outputs
10	Deactive INTST	PHQVVR1,Test control for outputs

5.1.79 ABBIED600_Rev2_VVaTyp_Sub1

Value	Description	Remarks
1	Swell	Variation enable,Enable variation type
2	Dip	Variation enable,Enable variation type
3	Swell + dip	Variation enable,Enable variation type
4	Interruption	Variation enable,Enable variation type
5	Swell + Int	Variation enable,Enable variation type
6	Dip + Int	Variation enable,Enable variation type
7	Swell+dip+Int	Variation enable,Enable variation type

5.1.80 ABBIED600_Rev2_VVaTyp

Value	Description	Remarks
0	No variation	
1	Swell	
2	Dip	
3	Swell + dip	
4	Interruption	
5	Swell + Int	
6	Dip + Int	
7	Swell+dip+Int	

5.1.81 ABBIED600_Rev1_ZMeasMod

Value	Description	Remarks
1	1Phase-to-earth	Impedance Meas mode,Select voltage and currents for impedance calculation

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2	1Phase-to-phase	Impedance Meas mode,Select voltage and currents for impedance calculation
3	3Phase-to-earth	Impedance Meas mode,Select voltage and currents for impedance calculation
4	3Phase-to-phase	Impedance Meas mode,Select voltage and currents for impedance calculation
5	Pos sequence	Impedance Meas mode,Select voltage and currents for impedance calculation

5.1.82 ABBIED600_Rev1_VPhSel

Value	Description	Remarks
1	A or AB	Phase Sel for Z Clc,Voltage phase selection
2	B or BC	Phase Sel for Z Clc,Voltage phase selection
3	C or CA	Phase Sel for Z Clc,Voltage phase selection

5.1.83 ABBIED600_Rev2_VSel

Value	Description	Remarks
1	phase-to-earth	Voltage selection,Selection of phase / phase-to-phase / pos sequence voltages
2	phase-to-phase	Voltage selection,Selection of phase / phase-to-phase / pos sequence voltages
3	pos sequence	Voltage selection,Selection of phase / phase-to-phase / pos sequence voltages

5.1.84 ABBIED600_Rev8_TestProKind_Sub17

Value	Description	Remarks
0	Reset	OEPVPH1,Test
1	Activate START	OEPVPH1,Test
2	Deactive START	OEPVPH1,Test
9	Activate OPERATE	OEPVPH1,Test
10	Deactive OPERATE	OEPVPH1,Test
57	Activate BLK_RESTART	OEPVPH1,Test
58	Deactive BLK_RESTART	OEPVPH1,Test
85	Activate COOL_ACTIVE	OEPVPH1,Test
86	Deactive COOL_ACTIVE	OEPVPH1,Test

5.1.85 ABBIED600_Rev2_TrgModPQ

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Value	Description	Remarks
1	Single	Trigger mode,Specifies the observation period triggering mode
2	Periodic	Trigger mode,Specifies the observation period triggering mode
3	Continuous	Trigger mode,Specifies the observation period triggering mode

5.1.86 ABBIED600_Rev1_ObsPerSel

Value	Description	Remarks
1	1 Hour	Obs period selection,Observation period for unbalance calculation
2	12 Hours	Obs period selection,Observation period for unbalance calculation
3	1 Day	Obs period selection,Observation period for unbalance calculation
4	7 Days	Obs period selection,Observation period for unbalance calculation
5	User defined	Obs period selection,Observation period for unbalance calculation

5.1.87 ABBIED600_Rev1_TestOthKind_Sub3

Value	Description	Remarks
0	Reset	VSQVUB1,Test control for outputs
11	Activate MN_UNB_AL	VSQVUB1,Test control for outputs
12	Deactive MN_UNB_AL	VSQVUB1,Test control for outputs
13	Activate PCT_UNB_AL	VSQVUB1,Test control for outputs
14	Deactive PCT_UNB_AL	VSQVUB1,Test control for outputs
15	Activate OBS_PR_ACT	VSQVUB1,Test control for outputs
16	Deactive OBS_PR_ACT	VSQVUB1,Test control for outputs

5.1.88 ABBIED600_Rev1_SchTyp

Value	Description	Remarks
1	None	Scheme type,Scheme type, mode of operation
2	Intertrip	Scheme type,Scheme type, mode of operation
3	Permissive Underreach	Scheme type,Scheme type, mode of operation
4	Permissive Overreach	Scheme type,Scheme type, mode of operation
5	Blocking	Scheme type,Scheme type, mode of operation

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5.1.89 ABBIED600_Rev14_TestProRlKind_Sub8

Value	Description	Remarks
0	Reset	DSOCPSCH1,Test control for outputs
1	Activate OPERATE	DSOCPSCH1,Test control for outputs
2	Deactive OPERATE	DSOCPSCH1,Test control for outputs
33	Activate CRL	DSOCPSCH1,Test control for outputs
34	Deactive CRL	DSOCPSCH1,Test control for outputs
35	Activate LCG	DSOCPSCH1,Test control for outputs
36	Deactive LCG	DSOCPSCH1,Test control for outputs
41	Activate CS_PRM	DSOCPSCH1,Test control for outputs
42	Deactive CS_PRM	DSOCPSCH1,Test control for outputs
43	Act. CS_BLOCKING	DSOCPSCH1,Test control for outputs
44	Deact. CS_BLOCKING	DSOCPSCH1,Test control for outputs
45	Act. CS_INTER_TR	DSOCPSCH1,Test control for outputs
46	Deact. CS_INTER_TR	DSOCPSCH1,Test control for outputs

5.1.90 ABBIED600_Rev1_RvAMod

Value	Description	Remarks
1	Off	Reversal mode,Operating mode of Current Reversal Logic
2	On	Reversal mode,Operating mode of Current Reversal Logic

5.1.91 ABBIED600_Rev14_TestProRlKind_Sub2

Value	Description	Remarks
0	Reset	RCRWPSCH1,Test control for outputs
23	Activate OPR_IRV	RCRWPSCH1,Test control for outputs
24	Deactive OPR_IRV	RCRWPSCH1,Test control for outputs
25	Activate OPR_WEI	RCRWPSCH1,Test control for outputs
26	Deactive OPR_WEI	RCRWPSCH1,Test control for outputs
27	Activate ECHO	RCRWPSCH1,Test control for outputs
28	Deactive ECHO	RCRWPSCH1,Test control for outputs
29	Activate CR	RCRWPSCH1,Test control for outputs
30	Deactive CR	RCRWPSCH1,Test control for outputs

5.1.92 ABBIED600_Rev2_PhSv_Sub3

Value	Description	Remarks

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7	Ph A + B + C	Phase supervision,Monitored voltage phase
8	Pos sequence	Phase supervision,Monitored voltage phase

5.1.93 ABBIED600_Rev8_TestProKind_Sub22

Value	Description	Remarks
0	Reset	VVSPPAM1,Test control for outputs
9	Activate OPERATE	VVSPPAM1,Test control for outputs
10	Deactive OPERATE	VVSPPAM1,Test control for outputs
83	Activate INT_BLKD	VVSPPAM1,Test control for outputs
84	Deactive INT_BLKD	VVSPPAM1,Test control for outputs

5.1.94 ABBIED600_Rev1_RecOp

Value	Description	Remarks
1	Off	Reclosing operation,Reclosing operation (Off, External Ctl / On)
2	External Ctl	Reclosing operation,Reclosing operation (Off, External Ctl / On)
3	On	Reclosing operation,Reclosing operation (Off, External Ctl / On)

5.1.95 ABBIED600_Rev1_TermPrio

Value	Description	Remarks
1	None	Terminal priority,Terminal priority
2	Low (follower)	Terminal priority,Terminal priority
3	High (master)	Terminal priority,Terminal priority

5.1.96 ABBIED600_Rev1_ProCrdMod

Value	Description	Remarks
1	No condition	Protection crd mode,Protection coordination mode
2	AR inoperative	Protection crd mode,Protection coordination mode
3	CB close manual	Protection crd mode,Protection coordination mode
4	AR inop, CB man	Protection crd mode,Protection coordination mode
5	Always	Protection crd mode,Protection coordination mode

5.1.97 ABBIED600_Rev1_AutoIniCnd

Value	Description	Remarks
1	Not allowed	Auto initiation cnd,Auto initiation condition

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2	When sync fails	Auto initiation cnd,Auto initiation condition
3	CB doesn't close	Auto initiation cnd,Auto initiation condition
4	Both	Auto initiation cnd,Auto initiation condition

5.1.98 ABBIED600_Rev11_TestCtlKind_Sub8

Value	Description	Remarks
0	Reset	DARREC1,Test control for outputs
5	Activate OPEN_CB	DARREC1,Test control for outputs
6	Deactive OPEN_CB	DARREC1,Test control for outputs
7	Activate CLOSE_CB	DARREC1,Test control for outputs
8	Deactive CLOSE_CB	DARREC1,Test control for outputs
9	Activate CMD_WAIT	DARREC1,Test control for outputs
10	Deactive CMD_WAIT	DARREC1,Test control for outputs
11	Activate PROT_CRD	DARREC1,Test control for outputs
12	Deactive PROT_CRD	DARREC1,Test control for outputs
13	Activate INPRO	DARREC1,Test control for outputs
14	Deactive INPRO	DARREC1,Test control for outputs
15	Activate LOCKED	DARREC1,Test control for outputs
16	Deactive LOCKED	DARREC1,Test control for outputs
17	Activate UNSUC_RECL	DARREC1,Test control for outputs
18	Deactive UNSUC_RECL	DARREC1,Test control for outputs
19	Activate AR_ON	DARREC1,Test control for outputs
20	Deactive AR_ON	DARREC1,Test control for outputs
21	Activate READY	DARREC1,Test control for outputs
22	Deactive READY	DARREC1,Test control for outputs
45	Activate ACTIVE	DARREC1,Test control for outputs
46	Deactive ACTIVE	DARREC1,Test control for outputs

5.1.99 ABBIED600_Rev1_BCMod

Value	Description	Remarks
1	NAT2INT	Operation mode,Operation mode selection
2	BCD2INT	Operation mode,Operation mode selection
3	GRAY2INT	Operation mode,Operation mode selection

5.1.100 ABBIED600_Rev2_TrfSt

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Value	Description	Remarks
0	Independent	TR_STATUS,Transformer status information
1	Master	TR_STATUS,Transformer status information
2	Follower	TR_STATUS,Transformer status information

5.1.101 ABBIED600_Rev4_OpModSetATCC

Value	Description	Remarks
1	Manual	Operation mode,The operation mode
2	Auto single	Operation mode,The operation mode
3	Parallel manual	Operation mode,The operation mode
4	Auto parallel	Operation mode,The operation mode
5	Input control	Operation mode,The operation mode
6	Command	Operation mode,The operation mode

5.1.102 ABBIED600_Rev1_ManBlkType

Value	Description	Remarks
1	Custom disabled	Custom Man blocking,Customized manual blocking
2	OC	Custom Man blocking,Customized manual blocking
3	UV	Custom Man blocking,Customized manual blocking
4	OC, UV	Custom Man blocking,Customized manual blocking
5	EXT	Custom Man blocking,Customized manual blocking
6	OC, EXT	Custom Man blocking,Customized manual blocking
7	UV, EXT	Custom Man blocking,Customized manual blocking
8	OC, UV, EXT	Custom Man blocking,Customized manual blocking

5.1.103 ABBIED600_Rev1_TimerOn

Value	Description	Remarks
0	Timer off	TIMER_STS,Timer T1, T2 or fast lower timer active
1	Lower timer1 on	TIMER_STS,Timer T1, T2 or fast lower timer active
2	Raise timer1 on	TIMER_STS,Timer T1, T2 or fast lower timer active
3	Lower timer2 on	TIMER_STS,Timer T1, T2 or fast lower timer active
4	Raise timer2 on	TIMER_STS,Timer T1, T2 or fast lower timer active
5	Fast lower T on	TIMER_STS,Timer T1, T2 or fast lower timer active

5.1.104 ABBIED600_Rev2_OpModATCC

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Va-lue	Description	Remarks
0	Not in use	OPR_MODE_STS,The acting operation mode of the function block
1	Manual	OPR_MODE_STS,The acting operation mode of the function block
2	Auto single	OPR_MODE_STS,The acting operation mode of the function block
3	Parallel ma-nual	OPR_MODE_STS,The acting operation mode of the function block
4	Auto master	OPR_MODE_STS,The acting operation mode of the function block
5	Auto follower	OPR_MODE_STS,The acting operation mode of the function block
6	MCC	OPR_MODE_STS,The acting operation mode of the function block
7	NRP	OPR_MODE_STS,The acting operation mode of the function block

5.1.105 ABBIED600_Rev1_AlmReas

Value	Description	Remarks
0	No alarm	ALARM_REAS,Status and reason for alarm
1	Cmd error	ALARM_REAS,Status and reason for alarm
2	TCO error	ALARM_REAS,Status and reason for alarm
3	Cmd + TCO err	ALARM_REAS,Status and reason for alarm
4	Pump error	ALARM_REAS,Status and reason for alarm
5	Pump + cmd err	ALARM_REAS,Status and reason for alarm
6	Pump + TCO err	ALARM_REAS,Status and reason for alarm
7	Pmp+TCO+cmd err	ALARM_REAS,Status and reason for alarm

5.1.106 ABBIED600_Rev2_FllwFlt

Value	Description	Remarks
0	No failed followers	FAIL_FLLW,Failed followers
1	T1	FAIL_FLLW,Failed followers
2	T2	FAIL_FLLW,Failed followers
3	T1+T2	FAIL_FLLW,Failed followers
4	T3	FAIL_FLLW,Failed followers
5	T1+T3	FAIL_FLLW,Failed followers

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6	T2+T3	FAIL_FLLW,Failed followers
7	T1+T2+T3	FAIL_FLLW,Failed followers
8	T4	FAIL_FLLW,Failed followers
9	T1+T4	FAIL_FLLW,Failed followers
10	T2+T4	FAIL_FLLW,Failed followers
11	T1+T2+T4	FAIL_FLLW,Failed followers
12	T3+T4	FAIL_FLLW,Failed followers
13	T1+T3+T4	FAIL_FLLW,Failed followers
14	T2+T3+T4	FAIL_FLLW,Failed followers
15	T1+T2+T3+T4	FAIL_FLLW,Failed followers
16	T5	FAIL_FLLW,Failed followers
17	T1+T5	FAIL_FLLW,Failed followers
18	T2+T5	FAIL_FLLW,Failed followers
19	T1+T2+T5	FAIL_FLLW,Failed followers
20	T3+T5	FAIL_FLLW,Failed followers
21	T1+T3+T5	FAIL_FLLW,Failed followers
22	T2+T3+T5	FAIL_FLLW,Failed followers
23	T1+T2+T3+T5	FAIL_FLLW,Failed followers
24	T4+T5	FAIL_FLLW,Failed followers
25	T1+T4+T5	FAIL_FLLW,Failed followers
26	T2+T4+T5	FAIL_FLLW,Failed followers
27	T1+T2+T4+T5	FAIL_FLLW,Failed followers
28	T3+T4+T5	FAIL_FLLW,Failed followers
29	T1+T3+T4+T5	FAIL_FLLW,Failed followers
30	T2+T3+T4+T5	FAIL_FLLW,Failed followers
31	T1+T2+T3+T4+T5	FAIL_FLLW,Failed followers

5.1.107 ABBIED600_Rev2_ParUnits

Value	Description	Remarks
0	No parallel units	PAR_UNIT_MCC,Parallel units included in MCC calculation
1	T1	PAR_UNIT_MCC,Parallel units included in MCC calculation
2	T2	PAR_UNIT_MCC,Parallel units included in MCC calculation
3	T1+T2	PAR_UNIT_MCC,Parallel units included in MCC calculation

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4	T3	PAR_UNIT_MCC,Parallel units included in MCC calculation
5	T1+T3	PAR_UNIT_MCC,Parallel units included in MCC calculation
6	T2+T3	PAR_UNIT_MCC,Parallel units included in MCC calculation
7	T1+T2+T3	PAR_UNIT_MCC,Parallel units included in MCC calculation
8	T4	PAR_UNIT_MCC,Parallel units included in MCC calculation
9	T1+T4	PAR_UNIT_MCC,Parallel units included in MCC calculation
10	T2+T4	PAR_UNIT_MCC,Parallel units included in MCC calculation
11	T1+T2+T4	PAR_UNIT_MCC,Parallel units included in MCC calculation
12	T3+T4	PAR_UNIT_MCC,Parallel units included in MCC calculation
13	T1+T3+T4	PAR_UNIT_MCC,Parallel units included in MCC calculation
14	T2+T3+T4	PAR_UNIT_MCC,Parallel units included in MCC calculation
15	T1+T2+T3+T4	PAR_UNIT_MCC,Parallel units included in MCC calculation
16	T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
17	T1+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
18	T2+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
19	T1+T2+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
20	T3+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
21	T1+T3+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
22	T2+T3+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
23	T1+T2+T3+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
24	T4+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation

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25	T1+T4+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
26	T2+T4+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
27	T1+T2+T4+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
28	T3+T4+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
29	T1+T3+T4+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
30	T2+T3+T4+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation
31	T1+T2+T3+T4+T5	PAR_UNIT_MCC,Parallel units included in MCC calculation

5.1.108 ABBIED600_Rev11_TestCtlKind_Sub9

Value	Description	Remarks
0	Reset	OL5ATCC1,Test control for outputs
3	Activate ALARM	OL5ATCC1,Test control for outputs
4	Deactive ALARM	OL5ATCC1,Test control for outputs
23	Activate RAISE	OL5ATCC1,Test control for outputs
24	Deactive RAISE	OL5ATCC1,Test control for outputs
25	Activate LOWER	OL5ATCC1,Test control for outputs
26	Deactive LOWER	OL5ATCC1,Test control for outputs
27	Activate PAR_FAIL	OL5ATCC1,Test control for outputs
28	Deactive PAR_FAIL	OL5ATCC1,Test control for outputs

5.1.109 ABBIED600_Rev1_RegModATCC

Value	Description	Remarks
1	Forward	Regulation mode,Regulation mode
2	Bi-dir(meas)	Regulation mode,Regulation mode
3	Bi-dir(calc)	Regulation mode,Regulation mode
4	Auto select	Regulation mode,Regulation mode

5.1.110 ABBIED600_Rev1_CbrRsl

Value	Description	Remarks
1	Calibration successful	CALIB_RSL,Calibration result

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2	Calibration ongoing	CALIB_RSL,Calibration result
3	Calibration failed	CALIB_RSL,Calibration result
4	Not calibrated	CALIB_RSL,Calibration result

5.1.111 ABBIED600_Rev3_CbrSt

Value	Description	Remarks
1	Detect end switches	CALIB_STS,Calibration status
2	Move to middle position	CALIB_STS,Calibration status
3	Detect mechanical play	CALIB_STS,Calibration status
4	Detect after running	CALIB_STS,Calibration status
5	Detect potentiometer gaps	CALIB_STS,Calibration status
6	Calibration not ongoing	CALIB_STS,Calibration status

5.1.112 ABBIED600_Rev3_AlmSt

Value	Description	Remarks
1	No Alarm	ALARM_STS,Alarm status
2	No movement detected	ALARM_STS,Alarm status
3	Movement into wrong direction	ALARM_STS,Alarm status
4	Simultaneously indication from both end-switches	ALARM_STS,Alarm status
5	Potentiometer maximum gap length exceeded	ALARM_STS,Alarm status
6	Potentiometer new gap appeared	ALARM_STS,Alarm status
7	Maximum number of potentiometer gaps exceeded	ALARM_STS,Alarm status
8	Check measurements	ALARM_STS,Alarm status
9	Umin not reached	ALARM_STS,Alarm status
10	Cannot obtain minimum Uo variation	ALARM_STS,Alarm status

5.1.113 ABBIED600_Rev2_TunSt

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Value	Description	Remarks
1	Tuned successfully	TUNING_STS,Tuning status
2	Not tuned	TUNING_STS,Tuning status
3	Tuned at Umax	TUNING_STS,Tuning status
4	Tuned at low limit (low end switch or low operating limit)	TUNING_STS,Tuning status
5	Tuned at high limit (high end switch or high operating limit)	TUNING_STS,Tuning status
6	Tuning delay ongoing	TUNING_STS,Tuning status
7	Move to Ures min	TUNING_STS,Tuning status
8	Direction determination	TUNING_STS,Tuning status
9	Pick up 1st point	TUNING_STS,Tuning status
10	Pick up 2nd point	TUNING_STS,Tuning status
11	Pick up 3rd point	TUNING_STS,Tuning status
12	Calculate parameters	TUNING_STS,Tuning status
13	Move to detuning point	TUNING_STS,Tuning status

5.1.114 ABBIED600_Rev1_AbsRl

Value	Description	Remarks
1	Absolute	Compensation mode,Compensation degree in absolute amperes or relative to the resonance point
2	Relative	Compensation mode,Compensation degree in absolute amperes or relative to the resonance point

5.1.115 ABBIED600_Rev1_AmpPhasor

Value	Description	Remarks

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1	Amplitude	V Res Meas mode,Uo trigger based on amplitude or phasor measurement
2	Phasor	V Res Meas mode,Uo trigger based on amplitude or phasor measurement

5.1.116 ABBIED600_Rev1_TunMod

Value	Description	Remarks
1	Coil movement	Tuning mode,Method for obtaining Uo variation
2	Resistor switching	Tuning mode,Method for obtaining Uo variation

5.1.117 ABBIED600_Rev1_ErrPos

Value	Description	Remarks
1	Current	Error position,Coil position in the case error occurred during the automatic tuning process
2	Previous	Error position,Coil position in the case error occurred during the automatic tuning process
3	Default	Error position,Coil position in the case error occurred during the automatic tuning process

5.1.118 ABBIED600_Rev1_ModEF

Value	Description	Remarks
1	Blocked during EF	EF mode,Operation mode during earth-fault (alarming earth-fault)
2	Resonance	EF mode,Operation mode during earth-fault (alarming earth-fault)
3	Tuning during EF	EF mode,Operation mode during earth-fault (alarming earth-fault)

5.1.119 ABBIED600_Rev1_ResoCrvCur

Value	Description	Remarks
1	Icoil	Resonance curve Cur,Resonance curve x-axis title on HMI
2	Icoil + Ifix	Resonance curve Cur,Resonance curve x-axis title on HMI

5.1.120 ABBIED600_Rev2_BusCol

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Va-lue	Descrip-tion	Remarks
1	U0 busbar	Voltage measurement,Residual voltage measurement from busbar or from coil
2	U0 coil	Voltage measurement,Residual voltage measurement from busbar or from coil

5.1.121 ABBIED600_Rev2_ClcInd

Va-lue	Description	Remarks
1	Pos. indication	Position Meas mode,Coil position measurement mode
2	Pos. indication and meas.	Position Meas mode,Coil position measurement mode,Pos. ind. and meas.
3	Pos. calculation	Position Meas mode,Coil position measurement mode

5.1.122 ABBIED600_Rev1_AutoOnOff

Value	Description	Remarks
1	OFF	Fix coil type,Fix coil type
2	ON	Fix coil type,Fix coil type
3	Automatic	Fix coil type,Fix coil type

5.1.123 ABBIED600_Rev2_OpModSC_Sub1

Value	Description	Remarks
1	Off	Synchro check mode,Synchro check operation mode
2	Synchronous	Synchro check mode,Synchro check operation mode
3	Asynchronous	Synchro check mode,Synchro check operation mode

5.1.124 ABBIED600_Rev2_OpModCtrl_Sub1

Va-lue	Descrip-tion	Remarks
1	Conti-nuous	Control mode,Selection of synchro check command or Continuous control mode
2	Command	Control mode,Selection of synchro check command or Continuous control mode

5.1.125 ABBIED600_Rev1_EnergSt

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Value	Description	Remarks
0	Unknown	ENERG_STATE,Energization state of Line and Bus
1	Both Live	ENERG_STATE,Energization state of Line and Bus
2	Live L, Dead B	ENERG_STATE,Energization state of Line and Bus
3	Dead L, Live B	ENERG_STATE,Energization state of Line and Bus
4	Both Dead	ENERG_STATE,Energization state of Line and Bus

5.1.126 ABBIED600_Rev11_TestCtlKind_Sub12

Value	Description	Remarks
0	Reset	SECRSYN1,Test control for outputs
29	Activate SYNC_INPRO	SECRSYN1,Test control for outputs
30	Deactive SYNC_INPRO	SECRSYN1,Test control for outputs
31	Activate SYNC_OK	SECRSYN1,Test control for outputs
32	Deactive SYNC_OK	SECRSYN1,Test control for outputs
33	Activate CL_FAIL_AL	SECRSYN1,Test control for outputs
34	Deactive CL_FAIL_AL	SECRSYN1,Test control for outputs
35	Activate CMD_FAIL_AL	SECRSYN1,Test control for outputs
36	Deactive CMD_FAIL_AL	SECRSYN1,Test control for outputs
37	Activate LLDB	SECRSYN1,Test control for outputs
38	Deactive LLDB	SECRSYN1,Test control for outputs
39	Activate LLLB	SECRSYN1,Test control for outputs
40	Deactive LLLB	SECRSYN1,Test control for outputs
41	Activate DLLB	SECRSYN1,Test control for outputs
42	Deactive DLLB	SECRSYN1,Test control for outputs
43	Activate DLDB	SECRSYN1,Test control for outputs
44	Deactive DLDB	SECRSYN1,Test control for outputs

5.1.127 ABBIED600_Rev3_MatchStatus

Value	Description	Remarks
1	No request	MATCH STATUS,Matching status
2	Request received	MATCH STATUS,Matching status
3	No source selection	MATCH STATUS,Matching status
4	Correct Src selection	MATCH STATUS,Matching status
5	Wrong source selection	MATCH STATUS,Matching status
6	Wrong tuning Src Sel	MATCH STATUS,Matching status
7	Source not ready	MATCH STATUS,Matching status

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8	Source ready	MATCH STATUS,Matching status
9	GOV-AVR modes not OK	MATCH STATUS,Matching status
10	GOV-AVR modes OK	MATCH STATUS,Matching status
11	Matching in progress	MATCH STATUS,Matching status
12	Matching done	MATCH STATUS,Matching status
13	Matching not done	MATCH STATUS,Matching status
14	Int Connect,set Sync	MATCH STATUS,Matching status
15	Int Connect,set Async	MATCH STATUS,Matching status
16	Externally connected	MATCH STATUS,Matching status
17	Int Async,set Sync	MATCH STATUS,Matching status

5.1.128 ABBIED600_Rev2_AutoSyncConfl

Va-lue	Description	Remarks
1	No conflict	CONFL_STATUS,Autosynchronization conflict status
2	Multiple NSCB sync	CONFL_STATUS,Autosynchronization conflict status
3	Multiple SCB sync	CONFL_STATUS,Autosynchronization conflict status
4	NSCB and SCB sync	CONFL_STATUS,Autosynchronization conflict status
5	Coordinator selection conflict	CONFL_STATUS,Autosynchronization conflict status

5.1.129 ABBIED600_Rev3_PtcpGroup

Value	Description	Remarks
1	Group 1	SRC1_PTC_GRP,Source 1 participation group
2	Group 2	SRC1_PTC_GRP,Source 1 participation group
3	Group 3	SRC1_PTC_GRP,Source 1 participation group
4	Group 4	SRC1_PTC_GRP,Source 1 participation group
5	Group 5	SRC1_PTC_GRP,Source 1 participation group
6	Group 6	SRC1_PTC_GRP,Source 1 participation group
7	Group 7	SRC1_PTC_GRP,Source 1 participation group
8	Group 8	SRC1_PTC_GRP,Source 1 participation group
9	Group 9	SRC1_PTC_GRP,Source 1 participation group

5.1.130 ABBIED600_Rev3_AutoSyncMode

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Value	Description	Remarks
0	Invalid	NSCB_SYN_MOD,Operation mode of non-source CB undergoing synchronization
1	AS Man Relay Loc	NSCB_SYN_MOD,Operation mode of non-source CB undergoing synchronization
2	AS Man Relay Rem	NSCB_SYN_MOD,Operation mode of non-source CB undergoing synchronization
3	AS Semi Relay Loc	NSCB_SYN_MOD,Operation mode of non-source CB undergoing synchronization
4	AS Semi Relay Rem	NSCB_SYN_MOD,Operation mode of non-source CB undergoing synchronization
5	AS Auto Relay Loc	NSCB_SYN_MOD,Operation mode of non-source CB undergoing synchronization
6	AS Auto Relay Rem	NSCB_SYN_MOD,Operation mode of non-source CB undergoing synchronization

5.1.131 ABBIED600_Rev1_BusList

Value	Description	Remarks
0	Not Configured	Src1 bus A Num,Source 1 CB connected bus A number
1	Bus 1	Src1 bus A Num,Source 1 CB connected bus A number
2	Bus 2	Src1 bus A Num,Source 1 CB connected bus A number
3	Bus 3	Src1 bus A Num,Source 1 CB connected bus A number
4	Bus 4	Src1 bus A Num,Source 1 CB connected bus A number
5	Bus 5	Src1 bus A Num,Source 1 CB connected bus A number
6	Bus 6	Src1 bus A Num,Source 1 CB connected bus A number
7	Bus 7	Src1 bus A Num,Source 1 CB connected bus A number
8	Bus 8	Src1 bus A Num,Source 1 CB connected bus A number
9	Bus 9	Src1 bus A Num,Source 1 CB connected bus A number
10	Bus 10	Src1 bus A Num,Source 1 CB connected bus A number
11	Bus 11	Src1 bus A Num,Source 1 CB connected bus A number
12	Bus 12	Src1 bus A Num,Source 1 CB connected bus A number
13	Bus 13	Src1 bus A Num,Source 1 CB connected bus A number
14	Bus 14	Src1 bus A Num,Source 1 CB connected bus A number
15	Bus 15	Src1 bus A Num,Source 1 CB connected bus A number
21	Grid	Src1 bus A Num,Source 1 CB connected bus A number

5.1.132 ABBIED600_Rev2_VTPolarity

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Va-lue	Descrip-tion	Remarks
1	No Use	NonSrc1 VT Conn,Voltage transformer connection type for non-source CB1
2	No Change	NonSrc1 VT Conn,Voltage transformer connection type for non-source CB1
3	Reverse	NonSrc1 VT Conn,Voltage transformer connection type for non-source CB1

5.1.133 ABBIED600_Rev3_SourceList

Value	Description	Remarks
0	No selection	Tuning source,Source selection for fine matching
1	Source 1	Tuning source,Source selection for fine matching
2	Source 2	Tuning source,Source selection for fine matching
3	Source 3	Tuning source,Source selection for fine matching
4	Source 4	Tuning source,Source selection for fine matching
5	Source 5	Tuning source,Source selection for fine matching
6	Source 6	Tuning source,Source selection for fine matching
7	Source 7	Tuning source,Source selection for fine matching
8	Source 8	Tuning source,Source selection for fine matching

5.1.134 ABBIED600_Rev4_CBList

Value	Description	Remarks
0	Not Configured	ASC CB Num1,ASC host circuit breaker number 1
1	Non source CB 1	ASC CB Num1,ASC host circuit breaker number 1
2	Non source CB 2	ASC CB Num1,ASC host circuit breaker number 1
3	Non source CB 3	ASC CB Num1,ASC host circuit breaker number 1
4	Non source CB 4	ASC CB Num1,ASC host circuit breaker number 1
5	Non source CB 5	ASC CB Num1,ASC host circuit breaker number 1
6	Non source CB 6	ASC CB Num1,ASC host circuit breaker number 1
7	Non source CB 7	ASC CB Num1,ASC host circuit breaker number 1
8	Non source CB 8	ASC CB Num1,ASC host circuit breaker number 1
9	Non source CB 9	ASC CB Num1,ASC host circuit breaker number 1
10	Non source CB 10	ASC CB Num1,ASC host circuit breaker number 1
11	Non source CB 11	ASC CB Num1,ASC host circuit breaker number 1
12	Non source CB 12	ASC CB Num1,ASC host circuit breaker number 1
13	Non source CB 13	ASC CB Num1,ASC host circuit breaker number 1

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14	Non source CB 14	ASC CB Num1,ASC host circuit breaker number 1
15	Non source CB 15	ASC CB Num1,ASC host circuit breaker number 1
16	Non source CB 16	ASC CB Num1,ASC host circuit breaker number 1
17	Non source CB 17	ASC CB Num1,ASC host circuit breaker number 1
18	Source CB 1	ASC CB Num1,ASC host circuit breaker number 1
19	Source CB 2	ASC CB Num1,ASC host circuit breaker number 1
20	Source CB 3	ASC CB Num1,ASC host circuit breaker number 1
21	Source CB 4	ASC CB Num1,ASC host circuit breaker number 1
22	Source CB 5	ASC CB Num1,ASC host circuit breaker number 1
23	Source CB 6	ASC CB Num1,ASC host circuit breaker number 1
24	Source CB 7	ASC CB Num1,ASC host circuit breaker number 1
25	Source CB 8	ASC CB Num1,ASC host circuit breaker number 1

5.1.135 ABBIED600_Rev11_TestCtlKind_Sub3

Value	Description	Remarks
0	Reset	ASCGAPC1,Test control for outputs
57	Activate AS_CONFLICT	ASCGAPC1,Test control for outputs
58	Deactive AS_CONFLICT	ASCGAPC1,Test control for outputs

5.1.136 ABBIED600_Rev1_PmsPrsnt

Va-lue	Descrip-tion	Remarks
1	No	Central PMS present,Centralized power management system present
2	Yes	Central PMS present,Centralized power management system present

5.1.137 ABBIED600_Rev2_OpModSC_Sub2

Value	Description	Remarks
1	Off	Synchrocheck mode,Synchrocheck operation mode
3	Asynchronous	Synchrocheck mode,Synchrocheck operation mode
4	Command	Synchrocheck mode,Synchrocheck operation mode

5.1.138 ABBIED600_Rev11_TestCtlKind_Sub4

Value	Description	Remarks
0	Reset	ASGCSYN1,Test control for outputs

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7	Activate CLOSE_CB	ASGCSYN1,Test control for outputs
8	Deactive CLOSE_CB	ASGCSYN1,Test control for outputs
29	Activate SYNC_INPRO	ASGCSYN1,Test control for outputs
30	Deactive SYNC_INPRO	ASGCSYN1,Test control for outputs
31	Activate SYNC_OK	ASGCSYN1,Test control for outputs
32	Deactive SYNC_OK	ASGCSYN1,Test control for outputs
33	Activate CL_FAIL_AL	ASGCSYN1,Test control for outputs
34	Deactive CL_FAIL_AL	ASGCSYN1,Test control for outputs
35	Activate CMD_FAIL_AL	ASGCSYN1,Test control for outputs
36	Deactive CMD_FAIL_AL	ASGCSYN1,Test control for outputs
59	Activate LBDG	ASGCSYN1,Test control for outputs
60	Deactive LBDG	ASGCSYN1,Test control for outputs
61	Activate LBLG	ASGCSYN1,Test control for outputs
62	Deactive LBLG	ASGCSYN1,Test control for outputs
63	Activate DBLG	ASGCSYN1,Test control for outputs
64	Deactive DBLG	ASGCSYN1,Test control for outputs
65	Activate DBDG	ASGCSYN1,Test control for outputs
66	Deactive DBDG	ASGCSYN1,Test control for outputs
71	Activate MATCH_INPRO	ASGCSYN1,Test control for outputs
72	Deactive MATCH_INPRO	ASGCSYN1,Test control for outputs
73	Activate MATCH_OK	ASGCSYN1,Test control for outputs
74	Deactive MATCH_OK	ASGCSYN1,Test control for outputs
75	Activate CB_SELECTED	ASGCSYN1,Test control for outputs
76	Deactive CB_SELECTED	ASGCSYN1,Test control for outputs
81	Activate RAISE_U	ASGCSYN1,Test control for outputs
82	Deactive RAISE_U	ASGCSYN1,Test control for outputs
83	Activate LOWER_U	ASGCSYN1,Test control for outputs
84	Deactive LOWER_U	ASGCSYN1,Test control for outputs
85	Activate RAISE_F	ASGCSYN1,Test control for outputs
86	Deactive RAISE_F	ASGCSYN1,Test control for outputs
87	Activate LOWER_F	ASGCSYN1,Test control for outputs
88	Deactive LOWER_F	ASGCSYN1,Test control for outputs
89	Activate GOV_DROOP	ASGCSYN1,Test control for outputs
90	Deactive GOV_DROOP	ASGCSYN1,Test control for outputs
91	Activate AVR_DROOP	ASGCSYN1,Test control for outputs
92	Deactive AVR_DROOP	ASGCSYN1,Test control for outputs

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5.1.139 ABBIED600_Rev3_GOVMode

Value	Description	Remarks
0	No change	MODE_GOV,Governor working mode
1	Droop	MODE_GOV,Governor working mode
2	Fixed MW	MODE_GOV,Governor working mode
3	Isochronous	MODE_GOV,Governor working mode
4	P-Control	MODE_GOV,Governor working mode
5	Optimize	MODE_GOV,Governor working mode
6	Base Load	MODE_GOV,Governor working mode
7	Peak Load	MODE_GOV,Governor working mode
8	GovMode8	MODE_GOV,Governor working mode

5.1.140 ABBIED600_Rev3_AVRMode

Value	Description	Remarks
0	No change	MODE_AVR,AVR working mode
9	Droop	MODE_AVR,AVR working mode
10	PF	MODE_AVR,AVR working mode
11	Fixed MVAr	MODE_AVR,AVR working mode
12	Q-Control	MODE_AVR,AVR working mode
13	Optimize	MODE_AVR,AVR working mode
14	Voltage	MODE_AVR,AVR working mode

5.1.141 ABBIED600_Rev1_VoltFreqMatchMode

Value	Description	Remarks
1	Off	Voltage match mode,Voltage matcher mode
2	Variable Pulse	Voltage match mode,Voltage matcher mode
3	Variable Interval	Voltage match mode,Voltage matcher mode

5.1.142 ABBIED600_Rev3_GOVMode_Sub1

Value	Description	Remarks
0	No change	Gov mode change,Gov mode change
1	Droop	Gov mode change,Gov mode change
2	Fixed MW	Gov mode change,Gov mode change
3	Isochronous	Gov mode change,Gov mode change
4	P-Control	Gov mode change,Gov mode change

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5	Optimize	Gov mode change,Gov mode change
6	Base Load	Gov mode change,Gov mode change
7	Peak Load	Gov mode change,Gov mode change

5.1.143 ABBIED600_Rev1_VHzTuneENC

Va-lue	Description	Remarks
1	Cancel	Tune V and F match,Tuning voltage and frequency matching rate
2	Volt match rate	Tune V and F match,Tuning voltage and frequency matching rate
3	Freq match rate	Tune V and F match,Tuning voltage and frequency matching rate

5.1.144 ABBIED600_Rev1_CBCloseBlock

Value	Description	Remarks
1	Unblocked	CB_CL_BLKD,CB close blocked status
2	Ext Check Fail	CB_CL_BLKD,CB close blocked status
3	IED Test CB Service	CB_CL_BLKD,CB close blocked status
4	IED Service CB Test	CB_CL_BLKD,CB close blocked status

5.1.145 ABBIED600_Rev1_SynDir

Value	Description	Remarks
1	Always over synchronous	Synchronization Dir,Synchronization direction
2	Both direction	Synchronization Dir,Synchronization direction

5.1.146 ABBIED600_Rev2_OpModSC

Value	Description	Remarks
1	Off	SYNCCHK_STS,Synchro check mode status
2	Synchronous	SYNCCHK_STS,Synchro check mode status
3	Asynchronous	SYNCCHK_STS,Synchro check mode status
4	Command	SYNCCHK_STS,Synchro check mode status

5.1.147 ABBIED600_Rev2_OpModSC_Sub3

Value	Description	Remarks

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1	Off	Synchro Chk mode Ctl,Sync check mode control
3	Asynchronous	Synchro Chk mode Ctl,Sync check mode control

5.1.148 ABBIED600_Rev11_TestCtlKind_Sub5

Value	Description	Remarks
0	Reset	ASNSCSYN1,Test control for outputs
7	Activate CLOSE_CB	ASNSCSYN1,Test control for outputs
8	Deactive CLOSE_CB	ASNSCSYN1,Test control for outputs
29	Activate SYNC_INPRO	ASNSCSYN1,Test control for outputs
30	Deactive SYNC_INPRO	ASNSCSYN1,Test control for outputs
31	Activate SYNC_OK	ASNSCSYN1,Test control for outputs
32	Deactive SYNC_OK	ASNSCSYN1,Test control for outputs
33	Activate CL_FAIL_AL	ASNSCSYN1,Test control for outputs
34	Deactive CL_FAIL_AL	ASNSCSYN1,Test control for outputs
35	Activate CMD_FAIL_AL	ASNSCSYN1,Test control for outputs
36	Deactive CMD_FAIL_AL	ASNSCSYN1,Test control for outputs
67	Activate LADB	ASNSCSYN1,Test control for outputs
68	Deactive LADB	ASNSCSYN1,Test control for outputs
69	Activate LALB	ASNSCSYN1,Test control for outputs
70	Deactive LALB	ASNSCSYN1,Test control for outputs
71	Activate MATCH_INPRO	ASNSCSYN1,Test control for outputs
72	Deactive MATCH_INPRO	ASNSCSYN1,Test control for outputs
73	Activate MATCH_OK	ASNSCSYN1,Test control for outputs
74	Deactive MATCH_OK	ASNSCSYN1,Test control for outputs
75	Activate CB_SELECTED	ASNSCSYN1,Test control for outputs
76	Deactive CB_SELECTED	ASNSCSYN1,Test control for outputs
77	Activate DALB	ASNSCSYN1,Test control for outputs
78	Deactive DALB	ASNSCSYN1,Test control for outputs
79	Activate DADB	ASNSCSYN1,Test control for outputs
80	Deactive DADB	ASNSCSYN1,Test control for outputs
93	Activate AS_INIT_FAIL	ASNSCSYN1,Test control for outputs
94	Deactive AS_INIT_FAIL	ASNSCSYN1,Test control for outputs

5.1.149 ABBIED600_Rev2_IntFltCaus

Value	Description	Remarks
0	None	INT_BLKD_STS,Internal block status

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1	Fuel Crl	INT_BLKD_STS,Internal block status
2	Fuel Vot	INT_BLKD_STS,Internal block status
3	Fuel Crl Vot	INT_BLKD_STS,Internal block status
4	Ext Crl	INT_BLKD_STS,Internal block status
5	Fuel Ext Crl	INT_BLKD_STS,Internal block status
6	Fuel Vot Ext Crl	INT_BLKD_STS,Internal block status
7	Fuel Crl Vot Ext Crl	INT_BLKD_STS,Internal block status
8	Ext Vot	INT_BLKD_STS,Internal block status
9	Fuel Crl Ext Vot	INT_BLKD_STS,Internal block status
10	Fuel Ext Vot	INT_BLKD_STS,Internal block status
11	Fuel Crl Vot Ext Vot	INT_BLKD_STS,Internal block status
12	Ext Crl Vot	INT_BLKD_STS,Internal block status
13	Fuel Crl Ext Crl Vot	INT_BLKD_STS,Internal block status
14	Fuel Vot Ext Crl Vot	INT_BLKD_STS,Internal block status
15	Fuel Ext Crl Vot	INT_BLKD_STS,Internal block status

5.1.150 ABBIED600_Rev14_TestProRlKind_Sub3

Value	Description	Remarks
0	Reset	DGMGAPC1,Test control for outputs
1	Activate OPERATE	DGMGAPC1,Test control for outputs
2	Deactive OPERATE	DGMGAPC1,Test control for outputs
57	Activate OPR_TIE_A	DGMGAPC1,Test control for outputs
58	Deactive OPR_TIE_A	DGMGAPC1,Test control for outputs
59	Activate OPR_TIE_B	DGMGAPC1,Test control for outputs
60	Deactive OPR_TIE_B	DGMGAPC1,Test control for outputs
61	Activate STOP_ENGINE	DGMGAPC1,Test control for outputs
62	Deactive STOP_ENGINE	DGMGAPC1,Test control for outputs
63	Activate DE_EXCITE	DGMGAPC1,Test control for outputs
64	Deactive DE_EXCITE	DGMGAPC1,Test control for outputs
65	Activate PRE_TRIP	DGMGAPC1,Test control for outputs
66	Deactive PRE_TRIP	DGMGAPC1,Test control for outputs
67	Activate FLT_DETECTED	DGMGAPC1,Test control for outputs
68	Deactive FLT_DETECTED	DGMGAPC1,Test control for outputs
69	Activate OV_FUEL_FLT	DGMGAPC1,Test control for outputs
70	Deactive OV_FUEL_FLT	DGMGAPC1,Test control for outputs
71	Activate UN_FUEL_FLT	DGMGAPC1,Test control for outputs
72	Deactive UN_FUEL_FLT	DGMGAPC1,Test control for outputs

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73	Activate OV_EXCT_FLT	DGMGAPC1,Test control for outputs
74	Deactive OV_EXCT_FLT	DGMGAPC1,Test control for outputs
75	Activate UN_EXCT_FLT	DGMGAPC1,Test control for outputs
76	Deactive UN_EXCT_FLT	DGMGAPC1,Test control for outputs
77	Activate GCB_TRP_FAIL	DGMGAPC1,Test control for outputs
78	Deactive GCB_TRP_FAIL	DGMGAPC1,Test control for outputs
79	Activate TIE_TRP_FAIL	DGMGAPC1,Test control for outputs
80	Deactive TIE_TRP_FAIL	DGMGAPC1,Test control for outputs
81	Activate FUEL_RCK_FLT	DGMGAPC1,Test control for outputs
82	Deactive FUEL_RCK_FLT	DGMGAPC1,Test control for outputs
83	Activate I_EXCT_FLT	DGMGAPC1,Test control for outputs
84	Deactive I_EXCT_FLT	DGMGAPC1,Test control for outputs
85	Activate TEST_MOD_STS	DGMGAPC1,Test control for outputs
86	Deactive TEST_MOD_STS	DGMGAPC1,Test control for outputs
87	Activate INT_BLKD	DGMGAPC1,Test control for outputs
88	Deactive INT_BLKD	DGMGAPC1,Test control for outputs
89	Activate EXTERNAL_FLT	DGMGAPC1,Test control for outputs
90	Deactive EXTERNAL_FLT	DGMGAPC1,Test control for outputs

5.1.151 ABBIED600_Rev1_BusNum

Value	Description	Remarks
0	Not configured	Gn 1 busbar Num,Busbar number of generator 1
1	Bus1	Gn 1 busbar Num,Busbar number of generator 1
2	Bus2	Gn 1 busbar Num,Busbar number of generator 1
3	Bus3	Gn 1 busbar Num,Busbar number of generator 1
4	Bus4	Gn 1 busbar Num,Busbar number of generator 1
5	Bus5	Gn 1 busbar Num,Busbar number of generator 1
6	Bus6	Gn 1 busbar Num,Busbar number of generator 1
7	Bus7	Gn 1 busbar Num,Busbar number of generator 1
8	Bus8	Gn 1 busbar Num,Busbar number of generator 1

5.1.152 ABBIED600_Rev1_HotTagSrc

Value	Description	Remarks
0	None	TAG_SOURCE,Source of active hotline tag
1	Local	TAG_SOURCE,Source of active hotline tag
2	Remote	TAG_SOURCE,Source of active hotline tag

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5.1.153 ABBIED600_Rev1_RemTagMod

Value	Description	Remarks
1	Untag Rem only	Remote tag mode,Deactivation mode for remotely set hot-line tag
2	Untag Loc or Rem	Remote tag mode,Deactivation mode for remotely set hot-line tag

5.1.154 ABBIED600_Rev1_ENG_SP_OpModTrn

Value	Description	Remarks
1	Only ext	Operation mode,Operation mode for transfer initiation
2	Freq<	Operation mode,Operation mode for transfer initiation
3	U<	Operation mode,Operation mode for transfer initiation
4	Both	Operation mode,Operation mode for transfer initiation

5.1.155 ABBIED600_Rev1_ENG_SP_LodShdMth

Value	Description	Remarks
1	None	Load shedding mode,Load shedding operation mode
2	Instantaneous	Load shedding mode,Load shedding operation mode
3	Voltage based	Load shedding mode,Load shedding operation mode
4	Time based	Load shedding mode,Load shedding operation mode

5.1.156 ABBIED600_Rev1_ENG_SP_EnaTrn

Value	Description	Remarks
1	1>2	Enable fast transfer,Enable fast transfer
2	2<1	Enable fast transfer,Enable fast transfer
3	Both	Enable fast transfer,Enable fast transfer
4	Off	Enable fast transfer,Enable fast transfer

5.1.157 ABBIED600_Rev2_TransferKind

Value	Description	Remarks
0	Off	STATUS,Transfer status
1	Ready - sync	STATUS,Transfer status
2	Ready - no sync	STATUS,Transfer status
3	Not ready - sync	STATUS,Transfer status

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4	Not ready - no sync	STATUS,Transfer status
5	Transfer running	STATUS,Transfer status
6	Not defined	STATUS,Transfer status

5.1.158 ABBIED600_Rev1_EFAlg

Value	Description	Remarks
1	Load compensation	EF algorithm Sel,Selection for PhE-loop calculation algorithm
2	Load modelling	EF algorithm Sel,Selection for PhE-loop calculation algorithm

5.1.159 ABBIED600_Rev1_EFAlgASel

Value	Description	Remarks
1	Io based	EF algorithm Cur Sel,Selection for earth-fault current model
2	I2 based	EF algorithm Cur Sel,Selection for earth-fault current model

5.1.160 ABBIED600_Rev14_TestProRlKind_Sub9

Value	Description	Remarks
0	Reset	SCEFRFLO1,Test control for outputs
39	Activate ALARM	SCEFRFLO1,Test control for outputs
40	Deactive ALARM	SCEFRFLO1,Test control for outputs

5.1.161 ABBIED600_Rev1_LoctDetModKind

Value	Description	Remarks
1	Comp, switched R	Flt Loc Det mode,Fault location detection mode
2	Non-comp	Flt Loc Det mode,Fault location detection mode

5.1.162 ABBIED600_Rev8_TestProKind_Sub18

Value	Description	Remarks
0	Reset	T1PTTR1,Test control for outputs
1	Activate START	T1PTTR1,Test control for outputs
2	Deactive START	T1PTTR1,Test control for outputs
9	Activate OPERATE	T1PTTR1,Test control for outputs
10	Deactive OPERATE	T1PTTR1,Test control for outputs

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17	Activate ALARM	T1PTTR1,Test control for outputs
18	Deactive ALARM	T1PTTR1,Test control for outputs
21	Activate BLK_CLOSE	T1PTTR1,Test control for outputs
22	Deactive BLK_CLOSE	T1PTTR1,Test control for outputs

5.1.163 ABBIED600_Rev14_TestProRlKind_Sub12

Value	Description	Remarks
0	Reset	INRPHAR1,Test control for outputs
9	Activate BLK2H	INRPHAR1,Test control for outputs
10	Deactive BLK2H	INRPHAR1,Test control for outputs

5.1.164 ABBIED600_Rev2_StrPhSel_Sub3

Va-lue	Descrip-tion	Remarks
1	1 out of 3	Num of start phases,Number of phases required for operate activa-tion
2	2 out of 3	Num of start phases,Number of phases required for operate activa-tion

5.1.165 ABBIED600_Rev8_TestProKind_Sub24

Value	Description	Remarks
0	Reset	LREFPNDF1,Test control for outputs
1	Activate START	LREFPNDF1,Test control for outputs
2	Deactive START	LREFPNDF1,Test control for outputs
9	Activate OPERATE	LREFPNDF1,Test control for outputs
10	Deactive OPERATE	LREFPNDF1,Test control for outputs
63	Activate BLKD2H	LREFPNDF1,Test control for outputs
64	Deactive BLKD2H	LREFPNDF1,Test control for outputs

5.1.166 ABBIED600_Rev8_TestProKind_Sub21

Value	Description	Remarks
0	Reset	TR2PTDF1,Test control for outputs
9	Activate OPERATE	TR2PTDF1,Test control for outputs
10	Deactive OPERATE	TR2PTDF1,Test control for outputs
59	Activate OPR_LS	TR2PTDF1,Test control for outputs
60	Deactive OPR_LS	TR2PTDF1,Test control for outputs

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61	Activate OPR_HS	TR2PTDF1,Test control for outputs
62	Deactive OPR_HS	TR2PTDF1,Test control for outputs
63	Activate BLKD2H	TR2PTDF1,Test control for outputs
64	Deactive BLKD2H	TR2PTDF1,Test control for outputs
65	Activate BLKD5H	TR2PTDF1,Test control for outputs
66	Deactive BLKD5H	TR2PTDF1,Test control for outputs
67	Activate BLKDWAV	TR2PTDF1,Test control for outputs
68	Deactive BLKDWAV	TR2PTDF1,Test control for outputs

5.1.167 ABBIED600_Rev2_AGrpTyp

Va-lue	Description	Remarks
1	Not in use	Current group 3 type,Type of the third set/group of current inputs
2	Winding 3	Current group 3 type,Type of the third set/group of current inputs
3	Wnd 1 restraint	Current group 3 type,Type of the third set/group of current inputs
4	Wnd 2 restraint	Current group 3 type,Type of the third set/group of current inputs

5.1.168 ABBIED600_Rev1_WndSel

Value	Description	Remarks
1	Not in use	Phase Ref winding,Reference winding for vector group matching
2	Winding 1	Phase Ref winding,Reference winding for vector group matching
3	Winding 2	Phase Ref winding,Reference winding for vector group matching
4	Winding 3	Phase Ref winding,Reference winding for vector group matching

5.1.169 ABBIED600_Rev3_ZroAElm

Value	Description	Remarks
1	Not eliminated	Zro A elimination,Elimination of the zero-sequence current
2	Winding 1	Zro A elimination,Elimination of the zero-sequence current
3	Winding 2	Zro A elimination,Elimination of the zero-sequence current
4	Winding 1 and 2	Zro A elimination,Elimination of the zero-sequence current
5	Winding 3	Zro A elimination,Elimination of the zero-sequence current
6	Winding 1 and 3	Zro A elimination,Elimination of the zero-sequence current
7	Winding 2 and 3	Zro A elimination,Elimination of the zero-sequence current

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8	Winding 1, 2, 3	Zro A elimination,Elimination of the zero-sequence current

5.1.170 ABBIED600_Rev2_CtlMod

Value	Description	Remarks
1	Voltage control	Control mode,Type of control
2	Input control	Control mode,Type of control
3	Voltage and input Ctl	Control mode,Type of control
4	No Volt dependency	Control mode,Type of control

5.1.171 ABBIED600_Rev8_TestProKind_Sub3

Value	Description	Remarks
0	Reset	COLPTOC1,Test control for outputs
17	Activate ALARM	COLPTOC1,Test control for outputs
18	Deactive ALARM	COLPTOC1,Test control for outputs
21	Activate BLK_CLOSE	COLPTOC1,Test control for outputs
22	Deactive BLK_CLOSE	COLPTOC1,Test control for outputs
113	Activate OPR_OVLOD	COLPTOC1,Test control for outputs
114	Deactive OPR_OVLOD	COLPTOC1,Test control for outputs
115	Activate ST_OVLOD	COLPTOC1,Test control for outputs
116	Deactive ST_OVLOD	COLPTOC1,Test control for outputs
117	Activate OPR_UN_I	COLPTOC1,Test control for outputs
118	Deactive OPR_UN_I	COLPTOC1,Test control for outputs
119	Activate ST_UN_I	COLPTOC1,Test control for outputs
120	Deactive ST_UN_I	COLPTOC1,Test control for outputs

5.1.172 ABBIED600_Rev1_TrOutMod_Sub1

Value	Description	Remarks
1	Non-latched	Reclose inhibit mode,Reclose inhibit mode
3	Lockout	Reclose inhibit mode,Reclose inhibit mode

5.1.173 ABBIED600_Rev1_CubAlmMod

Value	Description	Remarks
1	Normal	Alarm mode,Mode of operation for Alarm stage
2	Element counter	Alarm mode,Mode of operation for Alarm stage

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5.1.174 ABBIED600_Rev1_FuLoct

Value	Description	Remarks
1	Internal	Fuse location,Location of capacitor fuse
2	External	Fuse location,Location of capacitor fuse

5.1.175 ABBIED600_Rev1_RcdUnbPhKind

Value	Description	Remarks
0	Do not record	Record unbalance,Record natural unbalance current
1	Record all phases	Record unbalance,Record natural unbalance current
2	Record phase A	Record unbalance,Record natural unbalance current
3	Record phase B	Record unbalance,Record natural unbalance current
4	Record phase C	Record unbalance,Record natural unbalance current

5.1.176 ABBIED600_Rev8_TestProKind_Sub28

Value	Description	Remarks
0	Reset	SRCPTOC1,Test control for outputs
9	Activate OPERATE	SRCPTOC1,Test control for outputs
10	Deactive OPERATE	SRCPTOC1,Test control for outputs
17	Activate ALARM	SRCPTOC1,Test control for outputs
18	Deactive ALARM	SRCPTOC1,Test control for outputs

5.1.177 ABBIED600_Rev8_TestProKind_Sub5

Value	Description	Remarks
0	Reset	PHIZ1,Test control for outputs
9	Activate OPERATE	PHIZ1,Test control for outputs
10	Deactive OPERATE	PHIZ1,Test control for outputs

5.1.178 ABBIED600_Rev1_PHIZMod

Value	Description	Remarks
1	Grounded	System type,System Type
2	Ungrounded	System type,System Type

5.1.179 ABBIED600_Rev8_TestProKind_Sub15

Value	Description	Remarks

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0	Reset	MPDIF1,Test control for outputs
9	Activate OPERATE	MPDIF1,Test control for outputs
10	Deactive OPERATE	MPDIF1,Test control for outputs
59	Activate OPR_LS	MPDIF1,Test control for outputs
60	Deactive OPR_LS	MPDIF1,Test control for outputs
61	Activate OPR_HS	MPDIF1,Test control for outputs
62	Deactive OPR_HS	MPDIF1,Test control for outputs
83	Activate INT_BLKD	MPDIF1,Test control for outputs
84	Deactive INT_BLKD	MPDIF1,Test control for outputs

5.1.180 ABBIED600_Rev8_TestProKind_Sub9

Value	Description	Remarks
0	Reset	H3EFPSEF1,Test control for outputs
1	Activate START	H3EFPSEF1,Test control for outputs
2	Deactive START	H3EFPSEF1,Test control for outputs
9	Activate OPERATE	H3EFPSEF1,Test control for outputs
10	Deactive OPERATE	H3EFPSEF1,Test control for outputs
83	Activate INT_BLKD	H3EFPSEF1,Test control for outputs
84	Deactive INT_BLKD	H3EFPSEF1,Test control for outputs

5.1.181 ABBIED600_Rev2_TermVSel

Value	Description	Remarks
1	No voltage	Voltage selection,Type of voltage connection available at generator terminal
2	Uo	Voltage selection,Type of voltage connection available at generator terminal
3	Calculated Uo	Voltage selection,Type of voltage connection available at generator terminal
4	Phase A	Voltage selection,Type of voltage connection available at generator terminal
5	Phase B	Voltage selection,Type of voltage connection available at generator terminal
6	Phase C	Voltage selection,Type of voltage connection available at generator terminal

5.1.182 ABBIED600_Rev14_TestProRlKind_Sub4

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Value	Description	Remarks
0	Reset	DPSRDIR1,Test control for outputs
47	Activate RELEASE	DPSRDIR1,Test control for outputs
48	Deactive RELEASE	DPSRDIR1,Test control for outputs

5.1.183 ABBIED600_Rev1_PwrMeasMod

Value	Description	Remarks
1	PhsA, PhsB, PhsC	Measurement mode,Selection of power calculation method
2	Arone	Measurement mode,Selection of power calculation method
3	Pos Seq	Measurement mode,Selection of power calculation method
4	PhsAB	Measurement mode,Selection of power calculation method
5	PhsBC	Measurement mode,Selection of power calculation method
6	PhsCA	Measurement mode,Selection of power calculation method
7	PhsA	Measurement mode,Selection of power calculation method
8	PhsB	Measurement mode,Selection of power calculation method
9	PhsC	Measurement mode,Selection of power calculation method

5.1.184 ABBIED600_Rev2_StrPhSel_Sub2

Value	Description	Remarks
4	Exactly 1 of 3	Num of start phases,Number of faulty phases
5	Exactly 2 of 3	Num of start phases,Number of faulty phases
6	Exactly 3 of 3	Num of start phases,Number of faulty phases

5.1.185 ABBIED600_Rev1_VCrtSel

Value	Description	Remarks
1	Highest Ph-to-E	Voltage selection,Parameter to select voltage for curve monitoring
2	Lowest Ph-to-E	Voltage selection,Parameter to select voltage for curve monitoring
3	Highest Ph-to-Ph	Voltage selection,Parameter to select voltage for curve monitoring
4	Lowest Ph-to-Ph	Voltage selection,Parameter to select voltage for curve monitoring
5	Positive Seq	Voltage selection,Parameter to select voltage for curve monitoring

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5.1.186 ABBIED600_Rev1_OpModOOS

Value	Description	Remarks
1	Way in	Oos operate mode,Operate mode for tripping when out of step condition is detected
2	Way out	Oos operate mode,Operate mode for tripping when out of step condition is detected
3	Adaptive	Oos operate mode,Operate mode for tripping when out of step condition is detected

5.1.187 ABBIED600_Rev14_TestProRlKind_Sub10

Value	Description	Remarks
0	Reset	OOSRPSB1,Test control for outputs
1	Activate OPERATE	OOSRPSB1,Test control for outputs
2	Deactive OPERATE	OOSRPSB1,Test control for outputs
49	Activate SWING_OP	OOSRPSB1,Test control for outputs
50	Deactive SWING_OP	OOSRPSB1,Test control for outputs
51	Activate SWING	OOSRPSB1,Test control for outputs
52	Deactive SWING	OOSRPSB1,Test control for outputs
53	Activate OSB	OOSRPSB1,Test control for outputs
54	Deactive OSB	OOSRPSB1,Test control for outputs
55	Activate OSB_Z2	OOSRPSB1,Test control for outputs
56	Deactive OSB_Z2	OOSRPSB1,Test control for outputs

5.1.188 ABBIED600_Rev1_SelOpH_Sub1

Value	Description	Remarks
1	Fundamental	Sel operate harmonic,Select operating harmonic
3	Third harmonic	Sel operate harmonic,Select operating harmonic
5	Fifth harmonic	Sel operate harmonic,Select operating harmonic

5.1.189 ABBIED600_Rev1_EnvTmpMod

Value	Description	Remarks
1	FLC Only	Env temperature mode,Mode of measuring ambient temperature
2	Use input	Env temperature mode,Mode of measuring ambient temperature

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3	Set Amb Temp	Env temperature mode,Mode of measuring ambient temperature

5.1.190 ABBIED600_Rev2_BusSwPos

Value	Description	Remarks
1	Bus 1	SWITCH_POS,Switch position
2	Bus 2	SWITCH_POS,Switch position
3	Bus 3	SWITCH_POS,Switch position
4	Bus 4	SWITCH_POS,Switch position

5.1.191 ABBIED600_Rev8_TestProKind_Sub25

Value	Description	Remarks
0	Reset	MNSPTOC1,Test control for outputs
1	Activate START	MNSPTOC1,Test control for outputs
2	Deactive START	MNSPTOC1,Test control for outputs
9	Activate OPERATE	MNSPTOC1,Test control for outputs
10	Deactive OPERATE	MNSPTOC1,Test control for outputs
57	Activate BLK_RESTART	MNSPTOC1,Test control for outputs
58	Deactive BLK_RESTART	MNSPTOC1,Test control for outputs

5.1.192 ABBIED600_Rev4_NgZroOpMod

Value	Description	Remarks
1	Negative seq	Operating quantity,Operating quantity
2	Residual	Operating quantity,Operating quantity
3	Residual (calc)	Operating quantity,Operating quantity

5.1.193 ABBIED600_Rev1_OpModStUp

Value	Description	Remarks
1	IIt	Operation mode,Motor start-up operation mode
2	IIt, CB	Operation mode,Motor start-up operation mode
3	IIt + stall	Operation mode,Motor start-up operation mode
4	IIt + stall, CB	Operation mode,Motor start-up operation mode

5.1.194 ABBIED600_Rev8_TestProKind_Sub20

Value	Description	Remarks

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0	Reset	STTPMSU1,Test control for outputs
49	Activate OPR_IIT	STTPMSU1,Test control for outputs
50	Deactive OPR_IIT	STTPMSU1,Test control for outputs
51	Activate OPR_STALL	STTPMSU1,Test control for outputs
52	Deactive OPR_STALL	STTPMSU1,Test control for outputs
53	Activate MOT_START	STTPMSU1,Test control for outputs
54	Deactive MOT_START	STTPMSU1,Test control for outputs
55	Activate LOCK_START	STTPMSU1,Test control for outputs
56	Deactive LOCK_START	STTPMSU1,Test control for outputs

5.1.195 ABBIED600_Rev8_TestProKind_Sub26

Value	Description	Remarks
0	Reset	MPTTR1,Test control for outputs
9	Activate OPERATE	MPTTR1,Test control for outputs
10	Deactive OPERATE	MPTTR1,Test control for outputs
17	Activate ALARM	MPTTR1,Test control for outputs
18	Deactive ALARM	MPTTR1,Test control for outputs
57	Activate BLK_RESTART	MPTTR1,Test control for outputs
58	Deactive BLK_RESTART	MPTTR1,Test control for outputs

5.1.196 ABBIED600_Rev8_TestProKind_Sub14

Value	Description	Remarks
0	Reset	MFADPSDE1,Test control for outputs
1	Activate START	MFADPSDE1,Test control for outputs
2	Deactive START	MFADPSDE1,Test control for outputs
9	Activate OPERATE	MFADPSDE1,Test control for outputs
10	Deactive OPERATE	MFADPSDE1,Test control for outputs
23	Activate BLK_EF	MFADPSDE1,Test control for outputs
24	Deactive BLK_EF	MFADPSDE1,Test control for outputs
121	Activate INTR_EF	MFADPSDE1,Test control for outputs
122	Deactive INTR_EF	MFADPSDE1,Test control for outputs
123	Activate PEAK_IND	MFADPSDE1,Test control for outputs
124	Deactive PEAK_IND	MFADPSDE1,Test control for outputs

5.1.197 ABBIED600_Rev2_OpQtySel

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Value	Description	Remarks
1	Adaptive	Operating quantity,Operating quantity selection
2	Amplitude	Operating quantity,Operating quantity selection
3	Resistive	Operating quantity,Operating quantity selection

5.1.198 ABBIED600_Rev1_CoolMod

Value	Description	Remarks
1	ONAN	Cooling mode,Transformer cooling method
2	ONAF	Cooling mode,Transformer cooling method
3	OFAF	Cooling mode,Transformer cooling method
4	ODAF	Cooling mode,Transformer cooling method

5.1.199 ABBIED600_Rev1_AgeClcMth

Value	Description	Remarks
1	IEC	Ageing rate method,Ageing rate calculation method
2	IEEE	Ageing rate method,Ageing rate calculation method

5.1.200 ABBIED600_Rev1_ParmSelMth

Value	Description	Remarks
1	IEC	Parameter Sel method,Transformer parameter selection method
2	IEEE	Parameter Sel method,Transformer parameter selection method
3	Manual	Parameter Sel method,Transformer parameter selection method

5.1.201 ABBIED600_Rev1_TrfPhsTyp

Value	Description	Remarks
1	Single phase	Transformer type,Number of phases of the transformer
2	Three phase	Transformer type,Number of phases of the transformer

5.1.202 ABBIED600_Rev7_TestSpvnKind_Sub3

Value	Description	Remarks
0	Reset	HSARSPTR1,Test control for outputs
5	Activate ALARM	HSARSPTR1,Test control for outputs
6	Deactive ALARM	HSARSPTR1,Test control for outputs
7	Activate WARNING	HSARSPTR1,Test control for outputs

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8	Deactive WARNING	HSARSPTR1,Test control for outputs
73	Activate ALM_AGE_RATE	HSARSPTR1,Test control for outputs
74	Deactive ALM_AGE_RATE	HSARSPTR1,Test control for outputs

5.1.203 ABBIED600_Rev1_TrfPapTyp

Value	Description	Remarks
1	Normal	Insul paper type,Type of transformer paper insulation
2	Upgraded	Insul paper type,Type of transformer paper insulation

5.1.204 ABBIED600_Rev7_TestSpvnKind_Sub14

Value	Description	Remarks
0	Reset	ESDCSSWI1,Test control for outputs
9	Act. TRV_T_OP_ALM	ESDCSSWI1,Test control for outputs
10	Deact. TRV_T_OP_ALM	ESDCSSWI1,Test control for outputs
11	Act. TRV_T_CL_ALM	ESDCSSWI1,Test control for outputs
12	Deact. TRV_T_CL_ALM	ESDCSSWI1,Test control for outputs
19	Activate OPR_ALM	ESDCSSWI1,Test control for outputs
20	Deactive OPR_ALM	ESDCSSWI1,Test control for outputs
21	Activate OPR_LO	ESDCSSWI1,Test control for outputs
22	Deactive OPR_LO	ESDCSSWI1,Test control for outputs
29	Activate MON_ALM	ESDCSSWI1,Test control for outputs
30	Deactive MON_ALM	ESDCSSWI1,Test control for outputs
35	Activate OPENPOS	ESDCSSWI1,Test control for outputs
36	Deactive OPENPOS	ESDCSSWI1,Test control for outputs
37	Activate INVALIDPOS	ESDCSSWI1,Test control for outputs
38	Deactive INVALIDPOS	ESDCSSWI1,Test control for outputs
39	Activate CLOSEPOS	ESDCSSWI1,Test control for outputs
40	Deactive CLOSEPOS	ESDCSSWI1,Test control for outputs

5.1.205 ABBIED600_Rev11_TestCtlKind_Sub14

Value	Description	Remarks
0	Reset	ESMGAPC1,Test control for outputs
1	Activate START	ESMGAPC1,Test control for outputs
2	Deactive START	ESMGAPC1,Test control for outputs

5.1.206 ABBIED600_Rev1_TestOthKind_Sub1

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Value	Description	Remarks
0	Reset	CALGAPC1,Test control for outputs
3	Activate OPERATE	CALGAPC1,Test control for outputs
4	Deactive OPERATE	CALGAPC1,Test control for outputs

5.1.207 ABBIED600_Rev1_CntCrt

Value	Description	Remarks
1	Freeze	Count criteria,Pulse counter criteria
2	Rising edge	Count criteria,Pulse counter criteria
3	Falling edge	Count criteria,Pulse counter criteria
4	On change	Count criteria,Pulse counter criteria

5.1.208 ABBIED600_Rev1_dmdItrv

Value	Description	Remarks
0	1 minute	Reporting interval,Reporting interval for counter value
1	5 minutes	Reporting interval,Reporting interval for counter value
2	10 minutes	Reporting interval,Reporting interval for counter value
3	15 minutes	Reporting interval,Reporting interval for counter value
4	30 minutes	Reporting interval,Reporting interval for counter value
5	60 minutes	Reporting interval,Reporting interval for counter value
6	180 minutes	Reporting interval,Reporting interval for counter value

5.1.209 ABBIED600_Rev1_PrefixUnits

Value	Description	Remarks
0		PREFIX_UNITS,Internal prefix units for menu hiding
1	k	PREFIX_UNITS,Internal prefix units for menu hiding
2	M	PREFIX_UNITS,Internal prefix units for menu hiding
3	G	PREFIX_UNITS,Internal prefix units for menu hiding
4	T	PREFIX_UNITS,Internal prefix units for menu hiding
5	P	PREFIX_UNITS,Internal prefix units for menu hiding
6	E	PREFIX_UNITS,Internal prefix units for menu hiding
7	Z	PREFIX_UNITS,Internal prefix units for menu hiding
8	Y	PREFIX_UNITS,Internal prefix units for menu hiding
9	Wh	PREFIX_UNITS,Internal prefix units for menu hiding
10	kWh	PREFIX_UNITS,Internal prefix units for menu hiding

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11	MWh	PREFIX_UNITS,Internal prefix units for menu hiding
12	GWh	PREFIX_UNITS,Internal prefix units for menu hiding
13	TWh	PREFIX_UNITS,Internal prefix units for menu hiding
14	PWh	PREFIX_UNITS,Internal prefix units for menu hiding
15	EWh	PREFIX_UNITS,Internal prefix units for menu hiding
16	ZWh	PREFIX_UNITS,Internal prefix units for menu hiding
17	YWh	PREFIX_UNITS,Internal prefix units for menu hiding
18	Vah	PREFIX_UNITS,Internal prefix units for menu hiding
19	kVAh	PREFIX_UNITS,Internal prefix units for menu hiding
20	MVAh	PREFIX_UNITS,Internal prefix units for menu hiding
21	GVAh	PREFIX_UNITS,Internal prefix units for menu hiding
22	TVAh	PREFIX_UNITS,Internal prefix units for menu hiding
23	PVAh	PREFIX_UNITS,Internal prefix units for menu hiding
24	EVAh	PREFIX_UNITS,Internal prefix units for menu hiding
25	ZVAh	PREFIX_UNITS,Internal prefix units for menu hiding
26	YVAh	PREFIX_UNITS,Internal prefix units for menu hiding
27	Varh	PREFIX_UNITS,Internal prefix units for menu hiding
28	kVarh	PREFIX_UNITS,Internal prefix units for menu hiding
29	MVarh	PREFIX_UNITS,Internal prefix units for menu hiding
30	GVarh	PREFIX_UNITS,Internal prefix units for menu hiding
31	TVarh	PREFIX_UNITS,Internal prefix units for menu hiding
32	PVarh	PREFIX_UNITS,Internal prefix units for menu hiding
33	EVarh	PREFIX_UNITS,Internal prefix units for menu hiding
34	ZVarh	PREFIX_UNITS,Internal prefix units for menu hiding
35	YVarh	PREFIX_UNITS,Internal prefix units for menu hiding

5.1.210 ABBIED600_Rev1_ARtgSec

Value	Description	Remarks
1	0.2A	Secondary current,Rated secondary current
2	1A	Secondary current,Rated secondary current
3	5A	Secondary current,Rated secondary current

5.1.211 ABBIED600_Rev3_AnInpType

Value	Description	Remarks
1	Voltage trafo	Current input type,Type of the current input
2	Current trafo	Current input type,Type of the current input

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3	Voltage sensor	Current input type,Type of the current input
4	Current sensor	Current input type,Type of the current input

5.1.212 ABBIED600_Rev1_HzAdpSel_Sub1

Value	Description	Remarks
0	Disable	Frequency adaptivity,Frequency adaptivity selection
1	Enable	Frequency adaptivity,Frequency adaptivity selection
3	Backup frequency source	Frequency adaptivity,Frequency adaptivity selection

5.1.213 ABBIED600_Rev1_HzAdpSel_Sub2

Value	Description	Remarks
0	Disable	Frequency adaptivity,Frequency adaptivity selection
1	Enable	Frequency adaptivity,Frequency adaptivity selection

5.1.214 ABBIED600_Rev3_ConnType

Value	Description	Remarks
1	Wye	VT connection,Voltage transducer measurement connection
2	Delta	VT connection,Voltage transducer measurement connection

5.1.215 ABBIED600_Rev1_HzAdpSel

Value	Description	Remarks
0	Disable	Frequency adaptivity,Frequency adaptivity selection
1	Enable	Frequency adaptivity,Frequency adaptivity selection
2	Main frequency source	Frequency adaptivity,Frequency adaptivity selection
3	Backup frequency source	Frequency adaptivity,Frequency adaptivity selection

5.1.216 ABBIED600_Rev2_MeasMod_Sub3

Value	Description	Remarks
1	RMS	Measurement mode,Selects used measurement mode
2	DFT	Measurement mode,Selects used measurement mode

5.1.217 ABBIED600_Rev1_DefHzSel

Value	Description	Remarks
1	Nominal	Def frequency Sel,Default frequency selection

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2	Zero	Def frequency Sel,Default frequency selection

5.1.218 ABBIED600_Rev1_DirMod2

Va-lue	Descrip-tion	Remarks
1	Forward	Active power Dir,Direction of active power flow: Forward, Re-verse
2	Reverse	Active power Dir,Direction of active power flow: Forward, Re-verse

5.1.219 ABBIED600_Rev8_TestProKind_Sub16

Value	Description	Remarks
0	Reset	MSCPMRI1,Test control for outputs
9	Activate OPERATE	MSCPMRI1,Test control for outputs
10	Deactive OPERATE	MSCPMRI1,Test control for outputs
57	Activate BLK_RESTART	MSCPMRI1,Test control for outputs
58	Deactive BLK_RESTART	MSCPMRI1,Test control for outputs

5.1.220 ABBIED600_Rev14_TestProRlKind_Sub6

Value	Description	Remarks
0	Reset	DSTRPSB1,Test control for outputs
113	Activate SWING_ST	DSTRPSB1,Test control for outputs
114	Deactive SWING_ST	DSTRPSB1,Test control for outputs
115	Activate PSB	DSTRPSB1,Test control for outputs
116	Deactive PSB	DSTRPSB1,Test control for outputs

5.1.221 ABBIED600_Rev2_SenInMod_Sub1

Value	Description	Remarks
1	Not in use	Input mode,Analogue input mode
2	Resistance	Input mode,Analogue input mode
6	-20..20mA	Input mode,Analogue input mode
10	Pt100	Input mode,Analogue input mode
11	Pt250	Input mode,Analogue input mode
20	Ni100	Input mode,Analogue input mode
21	Ni120	Input mode,Analogue input mode
22	Ni250	Input mode,Analogue input mode

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5.1.222 ABBIED600_Rev1_RtdChlDly

Value	Description	Remarks
0	No delay	Update interval,Value update interval
1	10 ms	Update interval,Value update interval
2	50 ms	Update interval,Value update interval
3	100 ms	Update interval,Value update interval

5.1.223 ABBIED600_Rev2_SenInMod_Sub2

Value	Description	Remarks
1	Not in use	Output mode,Analogue output mode
6	-20..20mA	Output mode,Analogue output mode

5.1.224 ABBIED600_Rev4_CmdRsp

Value	Description	Remarks
0	No commands	Command response,Latest command response
1	Select open	Command response,Latest command response
2	Select close	Command response,Latest command response
3	Operate open	Command response,Latest command response
4	Operate close	Command response,Latest command response
5	Direct open	Command response,Latest command response
6	Direct close	Command response,Latest command response
7	Cancel	Command response,Latest command response
8	Position reached	Command response,Latest command response
9	Position timeout	Command response,Latest command response
10	Object status only	Command response,Latest command response
11	Object direct	Command response,Latest command response
12	Object select	Command response,Latest command response
13	RL local allowed	Command response,Latest command response
14	RL remote allowed	Command response,Latest command response
15	RL off	Command response,Latest command response
16	Function off	Command response,Latest command response
17	Function blocked	Command response,Latest command response
18	Command progress	Command response,Latest command response
19	Select timeout	Command response,Latest command response
20	Missing authority	Command response,Latest command response

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21	Close not enabled	Command response,Latest command response
22	Open not enabled	Command response,Latest command response
23	Internal fault	Command response,Latest command response
24	Already close	Command response,Latest command response
25	Wrong client	Command response,Latest command response
26	RL station allowed	Command response,Latest command response
27	RL change	Command response,Latest command response
28	Abortion by trip	Command response,Latest command response
29	Reed not closed	Command response,Latest command response
30	Motor blocked	Command response,Latest command response
31	Motor wrong direction	Command response,Latest command response

5.1.225 ABBIED600_Rev3_LocKeyHMI

Value	Description	Remarks
0	Off	LR state,LR state monitoring
1	Local	LR state,LR state monitoring
2	Remote	LR state,LR state monitoring
3	Station	LR state,LR state monitoring
4	L+R	LR state,LR state monitoring
5	L+S	LR state,LR state monitoring
6	L+S+R	LR state,LR state monitoring
7	S+R	LR state,LR state monitoring

5.1.226 ABBIED600_Rev1_LocRemMod

Value	Description	Remarks
1	LR key	LR control,LR control through LR key or binary input
2	Binary input	LR control,LR control through LR key or binary input

5.1.227 ABBIED600_Rev1_StaLevSet

Va-lue	Description	Remarks
1	L,R	Station authority,Control command originator category usage
2	L,S,R	Station authority,Control command originator category usage

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3	L,R,L+R	Station authority,Control command originator category usage
4	L,S,S+R,L+S,L+S+R	Station authority,Control command originator category usage

5.1.228 ABBIED600_Rev1_Pos3Sw

Value	Description	Remarks
0	earthing switch closed	POSITION,3-position switch position
1	earthing switch intermediate	POSITION,3-position switch position
2	both open	POSITION,3-position switch position
3	disconnector intermediate	POSITION,3-position switch position
4	disconnector closed	POSITION,3-position switch position
5	faulty	POSITION,3-position switch position

5.1.229 ABBIED600_Rev1_SwTypSt

Value	Description	Remarks
1	3-position switch	SWTYPE,Switch type
2	Disconnector	SWTYPE,Switch type
3	Earthing switch	SWTYPE,Switch type
4	Unknown	SWTYPE,Switch type

5.1.230 ABBIED600_Rev1_CtlMod3Sw

Value	Description	Remarks
1	Direct control	Control mode,Direct control or RIO600 SCM control
2	With RIO600 SCM	Control mode,Direct control or RIO600 SCM control

5.1.231 ABBIED600_Rev1_EStoRte

Value	Description	Remarks
8	8 samples / cycle	Storage rate,Storage rate for waveform recordings in samples per cycle
16	16 samples / cycle	Storage rate,Storage rate for waveform recordings in samples per cycle
32	32 samples / cycle	Storage rate,Storage rate for waveform recordings in samples per cycle

5.1.232 ABBIED600_Rev1_EStoMod

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Va-lue	Description	Remarks
0	Waveform	Stor. mode periodic,Storage mode selection (waveform / trend) for periodic trigger
1	Trend / cy-cle	Stor. mode periodic,Storage mode selection (waveform / trend) for periodic trigger

5.2 Extented Enum types

5.2.1 ABBIED600_Rev20_Health_Warning

Value	Description	Remarks
1	All ok	Warning,IED warning
2	System	Warning,IED warning
5	Time synch warning	Warning,IED warning
6	Over temperature	Warning,IED warning
7	File system warning	Warning,IED warning
10	Watchdog reset	Warning,IED warning
11	Power down det.	Warning,IED warning
20	IEC 61850 warning	Warning,IED warning
21	Modbus warning	Warning,IED warning
22	DNP3 warning	Warning,IED warning
23	PNIO warning	Warning,IED warning
24	Dataset warning	Warning,IED warning
25	Report cont. warning	Warning,IED warning
26	GOOSE contr. warning	Warning,IED warning
27	SCL config warning	Warning,IED warning
28	Logic warning	Warning,IED warning
29	SMT logic warning	Warning,IED warning
30	GOOSE input warning	Warning,IED warning
31	ACT warning	Warning,IED warning
32	GOOSE rec. warning	Warning,IED warning
33	AFL warning	Warning,IED warning
34	SMV warning	Warning,IED warning
35	Comm. channel down	Warning,IED warning
36	Settings mismatch	Warning,IED warning
37	User/Role db warning	Warning,IED warning
38	Sec.cert/key warning	Warning,IED warning

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40	Unack card comp.	Warning,IED warning
50	Protection comm.	Warning,IED warning
60	Conf.warning,X105	Warning,IED warning
61	Conf.warning,X115	Warning,IED warning
62	Conf.warning,X000	Warning,IED warning
63	Conf.warning,X100	Warning,IED warning
64	Conf.warning,X110	Warning,IED warning
65	Conf.warning,X120	Warning,IED warning
66	Conf.warning,X130	Warning,IED warning
67	Conf.warning,X095	Warning,IED warning
70	Card warning,X105	Warning,IED warning
71	Card warning,X115	Warning,IED warning
72	Card warning,X000	Warning,IED warning
73	Card warning,X100	Warning,IED warning
74	Card warning,X110	Warning,IED warning
75	Card warning,X120	Warning,IED warning
76	Card warning,X130	Warning,IED warning
77	Card warning,X095	Warning,IED warning
85	ARC1 cont. light	Warning,IED warning
86	ARC2 cont. light	Warning,IED warning
87	ARC3 cont. light	Warning,IED warning
88	ARC4 cont. light	Warning,IED warning
90	RTD card warning,X105	Warning,IED warning
91	RTD card warning,X115	Warning,IED warning
92	RTD card warning,X000	Warning,IED warning
93	RTD card warning,X100	Warning,IED warning
94	RTD card warning,X110	Warning,IED warning
95	RTD card warning,X120	Warning,IED warning
96	RTD card warning,X130	Warning,IED warning
97	RTD card warning,X095	Warning,IED warning
100	RTD meas. warning,X105	Warning,IED warning
101	RTD meas. warning,X115	Warning,IED warning
102	RTD meas. warning,X000	Warning,IED warning
103	RTD meas. warning,X100	Warning,IED warning
104	RTD meas. warning,X110	Warning,IED warning
105	RTD meas. warning,X120	Warning,IED warning
106	RTD meas. warning,X130	Warning,IED warning

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107	RTD meas. warning,X095	Warning,IED warning
115	Breaker oper. fail	Warning,IED warning
117	ARC1 fault	Warning,IED warning
118	ARC2 fault	Warning,IED warning
119	ARC3 fault	Warning,IED warning
120	ARC4 fault	Warning,IED warning
-10	Card warning,slot C	Warning,IED warning
-11	Card warning,slot E	Warning,IED warning
-12	Card warning,slot A2	Warning,IED warning
-13	Card warning,slot B	Warning,IED warning
-14	Card warning,slot D	Warning,IED warning
-15	Card warning,slot F	Warning,IED warning
-16	Card warning,slot G	Warning,IED warning
-17	Card warning,slot A1	Warning,IED warning
-20	mA output warn.,slot C	Warning,IED warning
-21	mA output warn.,slot E	Warning,IED warning
-22	mA output warn.,slot A2	Warning,IED warning
-23	mA output warn.,slot B	Warning,IED warning
-24	mA output warn.,slot D	Warning,IED warning
-25	mA output warn.,slot F	Warning,IED warning
-26	mA output warn.,slot G	Warning,IED warning
-27	mA output warn.,slot A1	Warning,IED warning
-30	Conf.warning,slot C	Warning,IED warning
-31	Conf.warning,slot E	Warning,IED warning
-32	Conf.warning,slot A2	Warning,IED warning
-33	Conf.warning,slot B	Warning,IED warning
-34	Conf.warning,slot D	Warning,IED warning
-35	Conf.warning,slot F	Warning,IED warning
-36	Conf.warning,slot G	Warning,IED warning
-37	Conf.warning,slot A1	Warning,IED warning
-45	640-Prod license warn	Warning,IED warning
-50	RTD meas. warn.,slot C	Warning,IED warning
-51	RTD meas. warn.,slot E	Warning,IED warning
-52	RTD meas. warn.,slot A2	Warning,IED warning
-53	RTD meas. warn.,slot B	Warning,IED warning
-54	RTD meas. warn.,slot D	Warning,IED warning
-55	RTD meas. warn.,slot F	Warning,IED warning

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-56	RTD meas. warn.,slot G	Warning,IED warning
-57	RTD meas. warn.,slot A1	Warning,IED warning

5.2.2 ABBIED600_Rev15_Health_Error

Value	Description	Remarks
1	All ok	Internal Fault,IED internal fault
2	System error	Internal Fault,IED internal fault
3	Runtime app. error	Internal Fault,IED internal fault
4	Runtime exec error	Internal Fault,IED internal fault
7	File system error	Internal Fault,IED internal fault
8	Test	Internal Fault,IED internal fault
10	SW watchdog error	Internal Fault,IED internal fault
11	Uaux error	Internal Fault,IED internal fault
32	Settings error	Internal Fault,IED internal fault
36	Settings mismatch	Internal Fault,IED internal fault
40	SO-relay(s),X105	Internal Fault,IED internal fault
41	SO-relay(s),X115	Internal Fault,IED internal fault
43	SO-relay(s),X100	Internal Fault,IED internal fault
44	SO-relay(s),X110	Internal Fault,IED internal fault
45	SO-relay(s),X120	Internal Fault,IED internal fault
46	SO-relay(s),X130	Internal Fault,IED internal fault
47	SO-relay(s),X095	Internal Fault,IED internal fault
50	PO-relay(s),X105	Internal Fault,IED internal fault
51	PO-relay(s),X115	Internal Fault,IED internal fault
53	PO-relay(s),X100	Internal Fault,IED internal fault
54	PO-relay(s),X110	Internal Fault,IED internal fault
55	PO-relay(s),X120	Internal Fault,IED internal fault
56	PO-relay(s),X130	Internal Fault,IED internal fault
57	PO-relay(s),X095	Internal Fault,IED internal fault
59	Light sensor error	Internal Fault,IED internal fault
60	Conf.error,X105	Internal Fault,IED internal fault
61	Conf.error,X115	Internal Fault,IED internal fault
62	Conf.error,X000	Internal Fault,IED internal fault
63	Conf.error,X100	Internal Fault,IED internal fault
64	Conf.error,X110	Internal Fault,IED internal fault
65	Conf.error,X120	Internal Fault,IED internal fault
66	Conf.error,X130	Internal Fault,IED internal fault

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67	Conf.error,X095	Internal Fault,IED internal fault
70	Card error,X105	Internal Fault,IED internal fault
71	Card error,X115	Internal Fault,IED internal fault
72	Card error,X000	Internal Fault,IED internal fault
73	Card error,X100	Internal Fault,IED internal fault
74	Card error,X110	Internal Fault,IED internal fault
75	Card error,X120	Internal Fault,IED internal fault
76	Card error,X130	Internal Fault,IED internal fault
77	Card error,X095	Internal Fault,IED internal fault
79	LHMI module	Internal Fault,IED internal fault
80	RAM error	Internal Fault,IED internal fault
81	ROM error	Internal Fault,IED internal fault
82	EEPROM error	Internal Fault,IED internal fault
83	FPGA error	Internal Fault,IED internal fault
84	RTC error	Internal Fault,IED internal fault
90	RTD card error,X105	Internal Fault,IED internal fault
91	RTD card error,X115	Internal Fault,IED internal fault
92	RTD card error,X000	Internal Fault,IED internal fault
93	RTD card error,X100	Internal Fault,IED internal fault
94	RTD card error,X110	Internal Fault,IED internal fault
95	RTD card error,X120	Internal Fault,IED internal fault
96	RTD card error,X130	Internal Fault,IED internal fault
97	RTD card error,X095	Internal Fault,IED internal fault
116	COM card error	Internal Fault,IED internal fault
117	ARC1 fault	Internal Fault,IED internal fault
118	ARC2 fault	Internal Fault,IED internal fault
119	ARC3 fault	Internal Fault,IED internal fault
120	ARC4 fault	Internal Fault,IED internal fault
-10	SO-relay(s),slot C	Internal Fault,IED internal fault
-11	SO-relay(s),slot E	Internal Fault,IED internal fault
-13	SO-relay(s),slot B	Internal Fault,IED internal fault
-14	SO-relay(s),slot D	Internal Fault,IED internal fault
-15	SO-relay(s),slot F	Internal Fault,IED internal fault
-16	SO-relay(s),slot G	Internal Fault,IED internal fault
-17	SO-relay(s),slot A1	Internal Fault,IED internal fault
-20	PO-relay(s),slot C	Internal Fault,IED internal fault
-21	PO-relay(s),slot E	Internal Fault,IED internal fault

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-23	PO-relay(s),slot B	Internal Fault,IED internal fault
-24	PO-relay(s),slot D	Internal Fault,IED internal fault
-25	PO-relay(s),slot F	Internal Fault,IED internal fault
-26	PO-relay(s),slot G	Internal Fault,IED internal fault
-27	PO-relay(s),slot A1	Internal Fault,IED internal fault
-30	Conf.error,slot C	Internal Fault,IED internal fault
-31	Conf.error,slot E	Internal Fault,IED internal fault
-32	Conf.error,slot A2	Internal Fault,IED internal fault
-33	Conf.error,slot B	Internal Fault,IED internal fault
-34	Conf.error,slot D	Internal Fault,IED internal fault
-35	Conf.error,slot F	Internal Fault,IED internal fault
-36	Conf.error,slot G	Internal Fault,IED internal fault
-37	Conf.error,slot A1	Internal Fault,IED internal fault
-40	Card error,slot C	Internal Fault,IED internal fault
-41	Card error,slot E	Internal Fault,IED internal fault
-42	Card error,slot A2	Internal Fault,IED internal fault
-43	Card error,slot B	Internal Fault,IED internal fault
-44	Card error,slot D	Internal Fault,IED internal fault
-45	Card error,slot F	Internal Fault,IED internal fault
-46	Card error,slot G	Internal Fault,IED internal fault
-47	Card error,slot A1	Internal Fault,IED internal fault
-50	RTD card error,slot C	Internal Fault,IED internal fault
-51	RTD card error,slot E	Internal Fault,IED internal fault
-52	RTD card error,slot A2	Internal Fault,IED internal fault
-53	RTD card error,slot B	Internal Fault,IED internal fault
-54	RTD card error,slot D	Internal Fault,IED internal fault
-55	RTD card error,slot F	Internal Fault,IED internal fault
-56	RTD card error,slot G	Internal Fault,IED internal fault
-57	RTD card error,slot A1	Internal Fault,IED internal fault
-62	Prod license error	Internal Fault,IED internal fault

5.2.3 ABBIED600_Rev5_Health_Error_Action

Value	Description	Remarks
1	No action required	Recommended fault action,Recommended recovery actions defined by manufacturer

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2	Try rebooting the relay. If the fault persists, try writing configuration again. Relay or some card(s) may need to be replaced.	Recommended fault action,Recommended recovery actions defined by manufacturer,Try rebooting the relay. If the fault persists, try writing configuration again. If writing configuration did not help, relay or some card(s) may need to be replaced.
7	CPU card failure (File system). Relay may need to be replaced.	Recommended fault action,Recommended recovery actions defined by manufacturer
8	IRF test activated. No action required.	Recommended fault action,Recommended recovery actions defined by manufacturer
10	Watchdog resets have happened too frequently. Relay may need to be replaced.	Recommended fault action,Recommended recovery actions defined by manufacturer
11	Check power supply unit and cables. Fix or replace if needed	Recommended fault action,Recommended recovery actions defined by manufacturer
80	CPU card failure (RAM). Relay may need to be replaced.	Recommended fault action,Recommended recovery actions defined by manufacturer
81	CPU card failure (ROM). Relay may need to be replaced.	Recommended fault action,Recommended recovery actions defined by manufacturer
82	CPU card failure (EEPROM). Relay may need to be replaced.	Recommended fault action,Recommended recovery actions defined by manufacturer
83	CPU card failure (FPGA). Relay may need to be replaced.	Recommended fault action,Recommended recovery actions defined by manufacturer
84	CPU card failure (RTC). Relay may need to be replaced.	Recommended fault action,Recommended recovery actions defined by manufacturer
116	Card self-supervision has detected a fault in the communication card. Replace the card.	Recommended fault action,Recommended recovery actions defined by manufacturer
-10	Card self-supervision detected a signal output relay coil failure. Replace the card in slot C.	Recommended fault action,Recommended recovery actions defined by manufacturer
-11	Card self-supervision detected a signal output relay coil failure. Replace the card in slot E.	Recommended fault action,Recommended recovery actions defined by manufacturer
-13	Card self-supervision detected a signal output relay coil failure. Replace the card in slot B.	Recommended fault action,Recommended recovery actions defined by manufacturer

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-14	Card self-supervision detected a signal output relay coil failure. Replace the card in slot D.	Recommended fault action,Recommended recovery actions defined by manufacturer
-15	Card self-supervision detected a signal output relay coil failure. Replace the card in slot F.	Recommended fault action,Recommended recovery actions defined by manufacturer
-16	Card self-supervision detected a signal output relay coil failure. Replace the card in slot G.	Recommended fault action,Recommended recovery actions defined by manufacturer
-17	Card self-supervision detected a signal output relay coil failure. Replace the card in slot A1.	Recommended fault action,Recommended recovery actions defined by manufacturer
-20	Card self-supervision detected a power output relay coil failure. Replace the card in slot C.	Recommended fault action,Recommended recovery actions defined by manufacturer
-21	Card self-supervision detected a power output relay coil failure. Replace the card in slot E.	Recommended fault action,Recommended recovery actions defined by manufacturer
-23	Card self-supervision detected a power output relay coil failure. Replace the card in slot B.	Recommended fault action,Recommended recovery actions defined by manufacturer
-24	Card self-supervision detected a power output relay coil failure. Replace the card in slot D.	Recommended fault action,Recommended recovery actions defined by manufacturer
-25	Card self-supervision detected a power output relay coil failure. Replace the card in slot F.	Recommended fault action,Recommended recovery actions defined by manufacturer
-26	Card self-supervision detected a power output relay coil failure. Replace the card in slot G.	Recommended fault action,Recommended recovery actions defined by manufacturer
-27	Card self-supervision detected a power output relay coil failure. Replace the card in slot A1.	Recommended fault action,Recommended recovery actions defined by manufacturer
-30	Hardware combination does not match the license. Check that the card in slot C is not	Recommended fault action,Recommended recovery actions defined by manufacturer,Hardware combination does not match with the license.

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	missing and the card type is correct.	Check that the card in slot C is not missing and the card type is correct.
-31	Hardware combination does not match the license. Check that the card in slot E is not missing and the card type is correct.	Recommended fault action,Recommended recovery actions defined by manufacturer,Hardware combination does not match with the license. Check that the card in slot E is not missing and the card type is correct.
-32	Hardware combination does not match the license. Check that the card in slot A2 is not missing and the card type is correct.	Recommended fault action,Recommended recovery actions defined by manufacturer,Hardware combination does not match with the license. Check that the card in slot A2 is not missing and the card type is correct.
-33	Hardware combination does not match the license. Check that the card in slot B is not missing and the card type is correct.	Recommended fault action,Recommended recovery actions defined by manufacturer,Hardware combination does not match with the license. Check that the card in slot B is not missing and the card type is correct.
-34	Hardware combination does not match the license. Check that the card in slot D is not missing and the card type is correct.	Recommended fault action,Recommended recovery actions defined by manufacturer,Hardware combination does not match with the license. Check that the card in slot D is not missing and the card type is correct.
-35	Hardware combination does not match the license. Check that the card in slot F is not missing and the card type is correct.	Recommended fault action,Recommended recovery actions defined by manufacturer,Hardware combination does not match with the license. Check that the card in slot F is not missing and the card type is correct.
-36	Hardware combination does not match the license. Check that the card in slot G is not missing and the card type is correct.	Recommended fault action,Recommended recovery actions defined by manufacturer,Hardware combination does not match with the license. Check that the card in slot G is not missing and the card type is correct.
-37	Hardware combination does not match the license. Check that the card in slot A1 is not missing and the card type is correct.	Recommended fault action,Recommended recovery actions defined by manufacturer,Hardware combination does not match with the license. Check that the card in slot A1 is not missing and the card type is correct.
-40	Card self-supervision has detected a fault in the card. Replace the card in slot C.	Recommended fault action,Recommended recovery actions defined by manufacturer
-41	Card self-supervision has detected a fault in the card. Replace the card in slot E.	Recommended fault action,Recommended recovery actions defined by manufacturer
-42	Card self-supervision has detected a fault in the card. Replace the card in slot A2.	Recommended fault action,Recommended recovery actions defined by manufacturer

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-43	Card self-supervision has detected a fault in the card. Replace the card in slot B.	Recommended fault action,Recommended recovery actions defined by manufacturer
-44	Card self-supervision has detected a fault in the card. Replace the card in slot D.	Recommended fault action,Recommended recovery actions defined by manufacturer
-45	Card self-supervision has detected a fault in the card. Replace the card in slot F.	Recommended fault action,Recommended recovery actions defined by manufacturer
-46	Card self-supervision has detected a fault in the card. Replace the card in slot G.	Recommended fault action,Recommended recovery actions defined by manufacturer
-47	Card self-supervision has detected a fault in the card. Replace the card in slot A1.	Recommended fault action,Recommended recovery actions defined by manufacturer
-62	The relay's license is missing or wrong license is in use. Try rewriting the license.	Recommended fault action,Recommended recovery actions defined by manufacturer

5.2.4 ABBIED600_Rev7_Health_Warning_Action

Value	Description	Remarks
1	No action required	Recommended warning action,Recommended recovery actions defined by manufacturer
2	Try to reboot the relay, if warning persists try writing configuration again.	Recommended warning action,Recommended recovery actions defined by manufacturer
7	Writing of a non-critical file has failed. Try to run factory restore. If the warning reoccurs, consider replacing the relay.	Recommended warning action,Recommended recovery actions defined by manufacturer
10	The relay has rebooted due to self-supervision.	Recommended warning action,Recommended recovery actions defined by manufacturer
11	Loss of or voltage dip in auxiliary power supply detected within last 5 minutes.	Recommended warning action,Recommended recovery actions defined by manufacturer
20	Due to an warning in IEC 61850 configuration, communication is not running correctly. Check the configuration.	Recommended warning action,Recommended recovery actions defined by manufacturer

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22	Due to an warning in DNP3 configuration, communication is not running correctly. Check the configuration.	Recommended warning action,Recommended recovery actions defined by manufacturer
24	Due to an warning in IEC 61850 dataset configuration, communication is not running correctly. Check the configuration.	Recommended warning action,Recommended recovery actions defined by manufacturer
25	Due to an warning in IEC 61850 report control block conf., communication is not running correctly. Check the configuration.	Recommended warning action,Recommended recovery actions defined by manufacturer,Due to an warning in IEC 61850 report control block configuration, communication is not running correctly. Check the configuration.
26	Due to an warning in IEC 61850 GOOSE control block conf., communication is not running correctly. Check the configuration.	Recommended warning action,Recommended recovery actions defined by manufacturer,Due to an warning in IEC 61850 GOOSE control block configuration, communication is not running correctly. Check the configuration.
27	warning in relay configuration file. Possible solution is to rewrite the configuration to the relay.	Recommended warning action,Recommended recovery actions defined by manufacturer
28	Application configuration (ACT) has too many connections. Optimize logic circuits.	Recommended warning action,Recommended recovery actions defined by manufacturer
29	Application configuration (ACT) logic connection type mismatch. Check the ACT configuration.	Recommended warning action,Recommended recovery actions defined by manufacturer
30	Check GOOSE input configuration.	Recommended warning action,Recommended recovery actions defined by manufacturer
31	Check Application configuration (ACT).	Recommended warning action,Recommended recovery actions defined by manufacturer
32	Check relay GOOSE diagnostics.	Recommended warning action,Recommended recovery actions defined by manufacturer
33	Mismatch in analog channel configuration within application configuration (ACT).	Recommended warning action,Recommended recovery actions defined by manufacturer
34	Check relay SMV diagnostics.	Recommended warning action,Recommended recovery actions defined by manufacturer
35	Redundant Ethernet communication supervision has noticed loss of link on one of the	Recommended warning action,Recommended recovery actions defined by manufacturer

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	comm. channels. Check Ethernet connections.	
36	Setting parameters and/or application configuration (ACT) invalid. Check settings and/or configuration.	Recommended warning action,Recommended recovery actions defined by manufacturer
37	User/Role database warning. Check relay user account settings.	Recommended warning action,Recommended recovery actions defined by manufacturer
38	Security certificate or key warning. Check relay security certificate and key file correctness.	Recommended warning action,Recommended recovery actions defined by manufacturer
50	Check protection communication link and port and the remote-end relay compatibility.	Recommended warning action,Recommended recovery actions defined by manufacturer
85	Continuous light detected in ARC input 1. Check ARC sensor and relay input.	Recommended warning action,Recommended recovery actions defined by manufacturer
86	Continuous light detected in ARC input 2. Check ARC sensor and relay input.	Recommended warning action,Recommended recovery actions defined by manufacturer
87	Continuous light detected in ARC input 5. Check ARC sensor and relay input.	Recommended warning action,Recommended recovery actions defined by manufacturer
88	Continuous light detected in ARC input 4. Check ARC sensor and relay input.	Recommended warning action,Recommended recovery actions defined by manufacturer
117	ARC sensor supervision has detected warning. Check ARC sensor and input 1.	Recommended warning action,Recommended recovery actions defined by manufacturer
118	ARC sensor supervision has detected warning. Check ARC sensor and input 2.	Recommended warning action,Recommended recovery actions defined by manufacturer
119	ARC sensor supervision has detected warning. Check ARC sensor and input 5.	Recommended warning action,Recommended recovery actions defined by manufacturer
120	ARC sensor supervision has detected warning. Check ARC sensor and input 4.	Recommended warning action,Recommended recovery actions defined by manufacturer
-10	Card self-supervision detected a temporary disturbance. If the warning persists, check	Recommended warning action,Recommended recovery actions defined by manufacturer,Card self-supervision has detected a temporary disturbance.

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	environment and/or card in slot C.	If the warning persists, check environment for possible cause and/or card in slot C.
-11	Card self-supervision detected a temporary disturbance. If the warning persists, check environment and/or card in slot E.	Recommended warning action,Recommended recovery actions defined by manufacturer,Card self-supervision has detected a temporary disturbance. If the warning persists, check environment for possible cause and/or card in slot E.
-12	Card self-supervision detected a temporary disturbance. If the warning persists, check environment and/or card in slot A2.	Recommended warning action,Recommended recovery actions defined by manufacturer,Card self-supervision has detected a temporary disturbance. If the warning persists, check environment for possible cause and/or card in slot A2.
-13	Card self-supervision detected a temporary disturbance. If the warning persists, check environment and/or card in slot B.	Recommended warning action,Recommended recovery actions defined by manufacturer,Card self-supervision has detected a temporary disturbance. If the warning persists, check environment for possible cause and/or card in slot B.
-14	Card self-supervision detected a temporary disturbance. If the warning persists, check environment and/or card in slot D.	Recommended warning action,Recommended recovery actions defined by manufacturer,Card self-supervision has detected a temporary disturbance. If the warning persists, check environment for possible cause and/or card in slot D.
-15	Card self-supervision detected a temporary disturbance. If the warning persists, check environment and/or card in slot F.	Recommended warning action,Recommended recovery actions defined by manufacturer,Card self-supervision has detected a temporary disturbance. If the warning persists, check environment for possible cause and/or card in slot F.
-16	Card self-supervision detected a temporary disturbance. If the warning persists, check environment and/or card in slot G.	Recommended warning action,Recommended recovery actions defined by manufacturer,Card self-supervision has detected a temporary disturbance. If the warning persists, check environment for possible cause and/or card in slot G.
-17	Card self-supervision detected a temporary disturbance. If the warning persists, check environment and/or card in slot A1.	Recommended warning action,Recommended recovery actions defined by manufacturer,Card self-supervision has detected a temporary disturbance. If the warning persists, check environment for possible cause and/or card in slot A1.
-20	External circuit overload or card malfunction in slot C. Check the continuity and resistance of the external circuit.	Recommended warning action,Recommended recovery actions defined by manufacturer,External circuit overload or card malfunction in slot C. Check the continuity and resistance (shall be below the specified max value) of the external circuit.
-21	External circuit overload or card malfunction in slot E. Check the continuity and	Recommended warning action,Recommended recovery actions defined by manufacturer,External circuit overload or card malfunction in slot E.

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	resistance of the external circuit.	Check the continuity and resistance (shall be below the specified max value) of the external circuit.
-22	External circuit overload or card malfunction in slot A2. Check the continuity and resistance of the external circuit.	Recommended warning action,Recommended recovery actions defined by manufacturer,External circuit overload or card malfunction in slot A2. Check the continuity and resistance (shall be below the specified max value) of the external circuit.
-23	External circuit overload or card malfunction in slot B. Check the continuity and resistance of the external circuit.	Recommended warning action,Recommended recovery actions defined by manufacturer,External circuit overload or card malfunction in slot B. Check the continuity and resistance (shall be below the specified max value) of the external circuit.
-24	External circuit overload or card malfunction in slot D. Check the continuity and resistance of the external circuit.	Recommended warning action,Recommended recovery actions defined by manufacturer,External circuit overload or card malfunction in slot D. Check the continuity and resistance (shall be below the specified max value) of the external circuit.
-25	External circuit overload or card malfunction in slot F. Check the continuity and resistance of the external circuit.	Recommended warning action,Recommended recovery actions defined by manufacturer,External circuit overload or card malfunction in slot F. Check the continuity and resistance (shall be below the specified max value) of the external circuit.
-26	External circuit overload or card malfunction in slot G. Check the continuity and resistance of the external circuit.	Recommended warning action,Recommended recovery actions defined by manufacturer,External circuit overload or card malfunction in slot G. Check the continuity and resistance (shall be below the specified max value) of the external circuit.
-27	External circuit overload or card malfunction in slot A1. Check the continuity and resistance of the external circuit.	Recommended warning action,Recommended recovery actions defined by manufacturer,External circuit overload or card malfunction in slot A1. Check the continuity and resistance (shall be below the specified max value) of the external circuit.
-32	Check COM card SW version.	Recommended warning action,Recommended recovery actions defined by manufacturer
-50	Abnormal signal from sensor(s) received. Check sensor and cabling for the faulty channel(s) of card in slot C.	Recommended warning action,Recommended recovery actions defined by manufacturer,Abnormal signal from sensor(s) received. Check monitoring menu to locate the faulty RTD channel(s).

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		Check sensor and cabling for the faulty channel(s) of card in slot C.
-51	Abnormal signal from sensor(s) received. Check sensor and cabling for the faulty channel(s) of card in slot E.	Recommended warning action,Recommended recovery actions defined by manufacturer,Abnormal signal from sensor(s) received. Check monitoring menu to locate the faulty RTD channel(s). Check sensor and cabling for the faulty channel(s) of card in slot E.
-52	Abnormal signal from sensor(s) received. Check sensor and cabling for the faulty channel(s) of card in slot A2.	Recommended warning action,Recommended recovery actions defined by manufacturer,Abnormal signal from sensor(s) received. Check monitoring menu to locate the faulty RTD channel(s). Check sensor and cabling for the faulty channel(s) of card in slot A2.
-53	Abnormal signal from sensor(s) received. Check sensor and cabling for the faulty channel(s) of card in slot B.	Recommended warning action,Recommended recovery actions defined by manufacturer,Abnormal signal from sensor(s) received. Check monitoring menu to locate the faulty RTD channel(s). Check sensor and cabling for the faulty channel(s) of card in slot B.
-54	Abnormal signal from sensor(s) received. Check sensor and cabling for the faulty channel(s) of card in slot D.	Recommended warning action,Recommended recovery actions defined by manufacturer,Abnormal signal from sensor(s) received. Check monitoring menu to locate the faulty RTD channel(s). Check sensor and cabling for the faulty channel(s) of card in slot D.
-55	Abnormal signal from sensor(s) received. Check sensor and cabling for the faulty channel(s) of card in slot F.	Recommended warning action,Recommended recovery actions defined by manufacturer,Abnormal signal from sensor(s) received. Check monitoring menu to locate the faulty RTD channel(s). Check sensor and cabling for the faulty channel(s) of card in slot F.
-56	Abnormal signal from sensor(s) received. Check sensor and cabling for the faulty channel(s) of card in slot G.	Recommended warning action,Recommended recovery actions defined by manufacturer,Abnormal signal from sensor(s) received. Check monitoring menu to locate the faulty RTD channel(s). Check sensor and cabling for the faulty channel(s) of card in slot G.
-57	Abnormal signal from sensor(s) received. Check sensor and cabling for the faulty channel(s) of card in slot A1.	Recommended warning action,Recommended recovery actions defined by manufacturer,Abnormal signal from sensor(s) received. Check monitoring menu to locate the faulty RTD channel(s). Check sensor and cabling for the faulty channel(s) of card in slot A1.

5.2.5 ABBIED600_Rev39_ProFcn

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Value	Description	Remarks
-127	PHAPTUV1	Protection (rec. set 1),Protection function (rec. set1)
-126	PHCPTOV1	Protection (rec. set 1),Protection function (rec. set1)
-125	PHBPTOV1	Protection (rec. set 1),Protection function (rec. set1)
-124	PHAPTOV1	Protection (rec. set 1),Protection function (rec. set1)
-123	DPH3LPDOC2	Protection (rec. set 1),Protection function (rec. set1)
-122	DPH3LPDOC1	Protection (rec. set 1),Protection function (rec. set1)
-121	DPH3HPDOC2	Protection (rec. set 1),Protection function (rec. set1)
-120	DPH3HPDOC1	Protection (rec. set 1),Protection function (rec. set1)
-119	PH3LPTOC2	Protection (rec. set 1),Protection function (rec. set1)
-118	PH3LPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-117	XDEFLPDEF2	Protection (rec. set 1),Protection function (rec. set1)
-116	XDEFLPDEF1	Protection (rec. set 1),Protection function (rec. set1)
-115	SDPHLPDOC2	Protection (rec. set 1),Protection function (rec. set1)
-114	SDPHLPDOC1	Protection (rec. set 1),Protection function (rec. set1)
-113	XNSPTOC2	Protection (rec. set 1),Protection function (rec. set1)
-112	XNSPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-111	XEFIPTOC2	Protection (rec. set 1),Protection function (rec. set1)
-110	XEFHPTOC4	Protection (rec. set 1),Protection function (rec. set1)
-109	XEFHPTOC3	Protection (rec. set 1),Protection function (rec. set1)
-108	XEFLPTOC3	Protection (rec. set 1),Protection function (rec. set1)
-107	XEFLPTOC2	Protection (rec. set 1),Protection function (rec. set1)
-106	MAPGAPC16	Protection (rec. set 1),Protection function (rec. set1)
-105	MAPGAPC15	Protection (rec. set 1),Protection function (rec. set1)
-104	MAPGAPC14	Protection (rec. set 1),Protection function (rec. set1)
-103	MAPGAPC13	Protection (rec. set 1),Protection function (rec. set1)
-102	MAPGAPC12	Protection (rec. set 1),Protection function (rec. set1)
-101	MAPGAPC11	Protection (rec. set 1),Protection function (rec. set1)
-100	MAPGAPC10	Protection (rec. set 1),Protection function (rec. set1)
-99	MAPGAPC9	Protection (rec. set 1),Protection function (rec. set1)
-98	RESCPSCH1	Protection (rec. set 1),Protection function (rec. set1)
-97	HIAPDIF3	Protection (rec. set 1),Protection function (rec. set1)
-96	SPHIPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-95	HICPDIF3	Protection (rec. set 1),Protection function (rec. set1)
-94	HICPDIF2	Protection (rec. set 1),Protection function (rec. set1)
-93	SPHLPTOC2	Protection (rec. set 1),Protection function (rec. set1)
-92	SPHLPTOC1	Protection (rec. set 1),Protection function (rec. set1)

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-91	HIBPDIF3	Protection (rec. set 1),Protection function (rec. set1)
-90	HIBPDIF2	Protection (rec. set 1),Protection function (rec. set1)
-89	SPHHPTOC2	Protection (rec. set 1),Protection function (rec. set1)
-88	SPHHPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-87	SPHPTUV4	Protection (rec. set 1),Protection function (rec. set1)
-86	SPHPTUV3	Protection (rec. set 1),Protection function (rec. set1)
-85	SPHPTUV2	Protection (rec. set 1),Protection function (rec. set1)
-84	SPHPTUV1	Protection (rec. set 1),Protection function (rec. set1)
-83	SPHPTOV4	Protection (rec. set 1),Protection function (rec. set1)
-82	SPHPTOV3	Protection (rec. set 1),Protection function (rec. set1)
-81	SPHPTOV2	Protection (rec. set 1),Protection function (rec. set1)
-80	SPHPTOV1	Protection (rec. set 1),Protection function (rec. set1)
-79	PH3HPTOC2	Protection (rec. set 1),Protection function (rec. set1)
-78	PH3HPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-77	PH3IPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-76	MAPGAPC18	Protection (rec. set 1),Protection function (rec. set1)
-75	MAPGAPC17	Protection (rec. set 1),Protection function (rec. set1)
-74	DOPPDPR3	Protection (rec. set 1),Protection function (rec. set1)
-73	DOPPDPR2	Protection (rec. set 1),Protection function (rec. set1)
-72	DOPPDPR1	Protection (rec. set 1),Protection function (rec. set1)
-71	HIAPDIF2	Protection (rec. set 1),Protection function (rec. set1)
-70	DUPPDPR2	Protection (rec. set 1),Protection function (rec. set1)
-69	DUPPDPR1	Protection (rec. set 1),Protection function (rec. set1)
-68	PHPVOC2	Protection (rec. set 1),Protection function (rec. set1)
-67	DQPTUV2	Protection (rec. set 1),Protection function (rec. set1)
-66	DQPTUV1	Protection (rec. set 1),Protection function (rec. set1)
-65	VVSPPAM1	Protection (rec. set 1),Protection function (rec. set1)
-64	PHPVOC1	Protection (rec. set 1),Protection function (rec. set1)
-63	H3EFPSEF1	Protection (rec. set 1),Protection function (rec. set1)
-62	SRCPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-61	COLPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-60	HCUBPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-59	CUBPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-58	UZPDIS1	Protection (rec. set 1),Protection function (rec. set1)
-57	FDEFLPDEF2	Protection (rec. set 1),Protection function (rec. set1)
-56	FDEFLPDEF1	Protection (rec. set 1),Protection function (rec. set1)
-55	FRPFRQ12	Protection (rec. set 1),Protection function (rec. set1)

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-54	FEFLPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-53	FDPHLPDOC2	Protection (rec. set 1),Protection function (rec. set1)
-52	FDPHLPDOC1	Protection (rec. set 1),Protection function (rec. set1)
-51	FRPFRQ11	Protection (rec. set 1),Protection function (rec. set1)
-50	FPHLPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-49	FRPFRQ10	Protection (rec. set 1),Protection function (rec. set1)
-48	FRPFRQ9	Protection (rec. set 1),Protection function (rec. set1)
-47	FRPFRQ8	Protection (rec. set 1),Protection function (rec. set1)
-46	FRPFRQ7	Protection (rec. set 1),Protection function (rec. set1)
-45	MAPGAPC24	Protection (rec. set 1),Protection function (rec. set1)
-44	MAPGAPC23	Protection (rec. set 1),Protection function (rec. set1)
-43	MAPGAPC22	Protection (rec. set 1),Protection function (rec. set1)
-42	MAPGAPC21	Protection (rec. set 1),Protection function (rec. set1)
-41	MAPGAPC20	Protection (rec. set 1),Protection function (rec. set1)
-40	MAPGAPC19	Protection (rec. set 1),Protection function (rec. set1)
-39	UEXPDIS2	Protection (rec. set 1),Protection function (rec. set1)
-38	DSTPDIS1	Protection (rec. set 1),Protection function (rec. set1)
-37	HAEFPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-36	UEXPDIS1	Protection (rec. set 1),Protection function (rec. set1)
-35	WPWDE3	Protection (rec. set 1),Protection function (rec. set1)
-34	WPWDE2	Protection (rec. set 1),Protection function (rec. set1)
-33	WPWDE1	Protection (rec. set 1),Protection function (rec. set1)
-32	LSHDPFRQ8	Protection (rec. set 1),Protection function (rec. set1)
-31	LSHDPFRQ7	Protection (rec. set 1),Protection function (rec. set1)
-30	PHDSTPDIS1	Protection (rec. set 1),Protection function (rec. set1)
-29	TR3PTDF1	Protection (rec. set 1),Protection function (rec. set1)
-28	HICPDIF1	Protection (rec. set 1),Protection function (rec. set1)
-27	HIBPDIF1	Protection (rec. set 1),Protection function (rec. set1)
-26	HIAPDIF1	Protection (rec. set 1),Protection function (rec. set1)
-25	OEPVPH4	Protection (rec. set 1),Protection function (rec. set1)
-24	OEPVPH3	Protection (rec. set 1),Protection function (rec. set1)
-23	OEPVPH2	Protection (rec. set 1),Protection function (rec. set1)
-22	OEPVPH1	Protection (rec. set 1),Protection function (rec. set1)
-21	CUBPTOC3	Protection (rec. set 1),Protection function (rec. set1)
-20	CUBPTOC2	Protection (rec. set 1),Protection function (rec. set1)
-19	PSPTOV2	Protection (rec. set 1),Protection function (rec. set1)
-18	PSPTOV1	Protection (rec. set 1),Protection function (rec. set1)

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-17	MPUPF2	Protection (rec. set 1),Protection function (rec. set1)
-16	MPUPF1	Protection (rec. set 1),Protection function (rec. set1)
-15	PREVPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-14	OOSRPSB1	Protection (rec. set 1),Protection function (rec. set1)
-13	PHPTUC3	Protection (rec. set 1),Protection function (rec. set1)
-12	PHPTUC2	Protection (rec. set 1),Protection function (rec. set1)
-11	PHPTUC1	Protection (rec. set 1),Protection function (rec. set1)
-10	LVRTPTUV1	Protection (rec. set 1),Protection function (rec. set1)
-9	PHIZ1	Protection (rec. set 1),Protection function (rec. set1)
-8	LVRTPTUV2	Protection (rec. set 1),Protection function (rec. set1)
-7	INTRPTEF1	Protection (rec. set 1),Protection function (rec. set1)
-6	LVRTPTUV3	Protection (rec. set 1),Protection function (rec. set1)
-5	STTPMSU1	Protection (rec. set 1),Protection function (rec. set1)
-4	MREFPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-3	JAMPTOC1	Protection (rec. set 1),Protection function (rec. set1)
-2	PHCPTUV1	Protection (rec. set 1),Protection function (rec. set1)
-1	PHBPTUV1	Protection (rec. set 1),Protection function (rec. set1)
0	None	Protection (rec. set 1),Protection function (rec. set1)
1	PHLPTOC1	Protection (rec. set 1),Protection function (rec. set1)
2	PHLPTOC2	Protection (rec. set 1),Protection function (rec. set1)
3	PHLPTOC3	Protection (rec. set 1),Protection function (rec. set1)
4	PHIPTOC3	Protection (rec. set 1),Protection function (rec. set1)
5	PHLTPTOC1	Protection (rec. set 1),Protection function (rec. set1)
6	PHHPTOC1	Protection (rec. set 1),Protection function (rec. set1)
7	PHHPTOC2	Protection (rec. set 1),Protection function (rec. set1)
8	PHHPTOC3	Protection (rec. set 1),Protection function (rec. set1)
9	PHHPTOC4	Protection (rec. set 1),Protection function (rec. set1)
10	PHHPTOC5	Protection (rec. set 1),Protection function (rec. set1)
11	PHHPTOC6	Protection (rec. set 1),Protection function (rec. set1)
12	PHIPTOC1	Protection (rec. set 1),Protection function (rec. set1)
13	PHIPTOC2	Protection (rec. set 1),Protection function (rec. set1)
14	MFADPSDE1	Protection (rec. set 1),Protection function (rec. set1)
15	MFADPSDE2	Protection (rec. set 1),Protection function (rec. set1)
16	MFADPSDE3	Protection (rec. set 1),Protection function (rec. set1)
17	EFLPTOC1	Protection (rec. set 1),Protection function (rec. set1)
18	EFLPTOC2	Protection (rec. set 1),Protection function (rec. set1)
19	EFLPTOC3	Protection (rec. set 1),Protection function (rec. set1)

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20	EFLPTOC4	Protection (rec. set 1),Protection function (rec. set1)
21	DEFHPDEF4	Protection (rec. set 1),Protection function (rec. set1)
22	EFHPTOC1	Protection (rec. set 1),Protection function (rec. set1)
23	EFHPTOC2	Protection (rec. set 1),Protection function (rec. set1)
24	EFHPTOC3	Protection (rec. set 1),Protection function (rec. set1)
25	EFHPTOC4	Protection (rec. set 1),Protection function (rec. set1)
26	EFHPTOC5	Protection (rec. set 1),Protection function (rec. set1)
27	EFHPTOC6	Protection (rec. set 1),Protection function (rec. set1)
28	EFHPTOC7	Protection (rec. set 1),Protection function (rec. set1)
29	EFHPTOC8	Protection (rec. set 1),Protection function (rec. set1)
30	EFIPTOC1	Protection (rec. set 1),Protection function (rec. set1)
31	EFIPTOC2	Protection (rec. set 1),Protection function (rec. set1)
32	EFIPTOC3	Protection (rec. set 1),Protection function (rec. set1)
33	DPHHPDOC4	Protection (rec. set 1),Protection function (rec. set1)
34	DPHLPDOC4	Protection (rec. set 1),Protection function (rec. set1)
35	NSPTOC1	Protection (rec. set 1),Protection function (rec. set1)
36	NSPTOC2	Protection (rec. set 1),Protection function (rec. set1)
37	NSPTOC3	Protection (rec. set 1),Protection function (rec. set1)
38	NSPTOC4	Protection (rec. set 1),Protection function (rec. set1)
39	DNSPDOC1	Protection (rec. set 1),Protection function (rec. set1)
40	DNSPDOC2	Protection (rec. set 1),Protection function (rec. set1)
41	PDNSPTOC1	Protection (rec. set 1),Protection function (rec. set1)
44	T1PTTR1	Protection (rec. set 1),Protection function (rec. set1)
45	T1PTTR2	Protection (rec. set 1),Protection function (rec. set1)
46	T2PTTR1	Protection (rec. set 1),Protection function (rec. set1)
47	DEFLPDEF4	Protection (rec. set 1),Protection function (rec. set1)
48	MPTTR1	Protection (rec. set 1),Protection function (rec. set1)
50	DEFLPDEF1	Protection (rec. set 1),Protection function (rec. set1)
51	DEFLPDEF2	Protection (rec. set 1),Protection function (rec. set1)
52	DEFLPDEF3	Protection (rec. set 1),Protection function (rec. set1)
53	DEFHPDEF1	Protection (rec. set 1),Protection function (rec. set1)
54	DEFHPDEF2	Protection (rec. set 1),Protection function (rec. set1)
55	DEFHPDEF3	Protection (rec. set 1),Protection function (rec. set1)
56	EFPADM1	Protection (rec. set 1),Protection function (rec. set1)
57	EFPADM2	Protection (rec. set 1),Protection function (rec. set1)
58	EFPADM3	Protection (rec. set 1),Protection function (rec. set1)
59	FRPFRQ1	Protection (rec. set 1),Protection function (rec. set1)

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60	FRPFRQ2	Protection (rec. set 1),Protection function (rec. set1)
61	FRPFRQ3	Protection (rec. set 1),Protection function (rec. set1)
62	FRPFRQ4	Protection (rec. set 1),Protection function (rec. set1)
63	FRPFRQ5	Protection (rec. set 1),Protection function (rec. set1)
64	FRPFRQ6	Protection (rec. set 1),Protection function (rec. set1)
65	LSHDPFRQ1	Protection (rec. set 1),Protection function (rec. set1)
66	LSHDPFRQ2	Protection (rec. set 1),Protection function (rec. set1)
67	LSHDPFRQ3	Protection (rec. set 1),Protection function (rec. set1)
68	LSHDPFRQ4	Protection (rec. set 1),Protection function (rec. set1)
69	LSHDPFRQ5	Protection (rec. set 1),Protection function (rec. set1)
70	LSHDPFRQ6	Protection (rec. set 1),Protection function (rec. set1)
71	DPHLPDOC1	Protection (rec. set 1),Protection function (rec. set1)
72	DPHLPDOC2	Protection (rec. set 1),Protection function (rec. set1)
73	DPHLPDOC3	Protection (rec. set 1),Protection function (rec. set1)
74	DPHHPDOC1	Protection (rec. set 1),Protection function (rec. set1)
75	DPHHPDOC2	Protection (rec. set 1),Protection function (rec. set1)
76	DPHHPDOC3	Protection (rec. set 1),Protection function (rec. set1)
77	MAPGAPC1	Protection (rec. set 1),Protection function (rec. set1)
78	MAPGAPC2	Protection (rec. set 1),Protection function (rec. set1)
79	MAPGAPC3	Protection (rec. set 1),Protection function (rec. set1)
80	MAPGAPC4	Protection (rec. set 1),Protection function (rec. set1)
81	MAPGAPC5	Protection (rec. set 1),Protection function (rec. set1)
82	MAPGAPC6	Protection (rec. set 1),Protection function (rec. set1)
83	MAPGAPC7	Protection (rec. set 1),Protection function (rec. set1)
84	MAPGAPC8	Protection (rec. set 1),Protection function (rec. set1)
85	MNSPTOC1	Protection (rec. set 1),Protection function (rec. set1)
86	MNSPTOC2	Protection (rec. set 1),Protection function (rec. set1)
88	LOFLPTUC1	Protection (rec. set 1),Protection function (rec. set1)
89	LOFLPTUC2	Protection (rec. set 1),Protection function (rec. set1)
90	TR2PTDF1	Protection (rec. set 1),Protection function (rec. set1)
91	LNPLDF1	Protection (rec. set 1),Protection function (rec. set1)
92	LREFPNDF1	Protection (rec. set 1),Protection function (rec. set1)
93	LREFPNDF2	Protection (rec. set 1),Protection function (rec. set1)
94	MPDIF1	Protection (rec. set 1),Protection function (rec. set1)
95	HCUBPTOC2	Protection (rec. set 1),Protection function (rec. set1)
96	HREFPDIF1	Protection (rec. set 1),Protection function (rec. set1)
97	HREFPDIF2	Protection (rec. set 1),Protection function (rec. set1)

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98	MHZPDIF1	Protection (rec. set 1),Protection function (rec. set1)
99	MREFPTOC2	Protection (rec. set 1),Protection function (rec. set1)
100	ROVPTOV1	Protection (rec. set 1),Protection function (rec. set1)
101	ROVPTOV2	Protection (rec. set 1),Protection function (rec. set1)
102	ROVPTOV3	Protection (rec. set 1),Protection function (rec. set1)
103	ROVPTOV4	Protection (rec. set 1),Protection function (rec. set1)
104	PHPTOV1	Protection (rec. set 1),Protection function (rec. set1)
105	PHPTOV2	Protection (rec. set 1),Protection function (rec. set1)
106	PHPTOV3	Protection (rec. set 1),Protection function (rec. set1)
107	PHPTOV4	Protection (rec. set 1),Protection function (rec. set1)
108	PHPTUV1	Protection (rec. set 1),Protection function (rec. set1)
109	PHPTUV2	Protection (rec. set 1),Protection function (rec. set1)
110	PHPTUV3	Protection (rec. set 1),Protection function (rec. set1)
111	PHPTUV4	Protection (rec. set 1),Protection function (rec. set1)
112	NSPTOV1	Protection (rec. set 1),Protection function (rec. set1)
113	NSPTOV2	Protection (rec. set 1),Protection function (rec. set1)
114	NSPTOV3	Protection (rec. set 1),Protection function (rec. set1)
115	NSPTOV4	Protection (rec. set 1),Protection function (rec. set1)
116	PSPTUV1	Protection (rec. set 1),Protection function (rec. set1)
117	PSPTUV2	Protection (rec. set 1),Protection function (rec. set1)
118	ARCSARC1	Protection (rec. set 1),Protection function (rec. set1)
119	ARCSARC2	Protection (rec. set 1),Protection function (rec. set1)
120	ARCSARC3	Protection (rec. set 1),Protection function (rec. set1)
121	PSPTUV3	Protection (rec. set 1),Protection function (rec. set1)
122	PSPTOV3	Protection (rec. set 1),Protection function (rec. set1)
123	PHVPTOV1	Protection (rec. set 1),Protection function (rec. set1)
124	PSPTUV4	Protection (rec. set 1),Protection function (rec. set1)
125	PSPTOV4	Protection (rec. set 1),Protection function (rec. set1)
127	JAMPTOC2	Protection (rec. set 1),Protection function (rec. set1)

5.2.6 ABBIED600_Rev2_cmdQual

Va-lue	Descrip-tion	Remarks
-1	Off	Operation mode,Operation mode for generic control point
0	pulse	Operation mode,Operation mode for generic control point,Pulsed
1	persistent	Operation mode,Operation mode for generic control point,Tog-gle/Persistent

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5.2.7 ABBIED600_Rev3_FailureDetectionKind

Value	Description	Remarks
-1	Either current or breaker status	CB failure mode,Operating mode of function,Both (OR)
1	Current	CB failure mode,Operating mode of function
2	Breaker Status	CB failure mode,Operating mode of function,Breaker status
3	Both current and breaker status	CB failure mode,Operating mode of function,Both (AND)
4	Other	CB failure mode,Operating mode of function

5.2.8 ABBIED600_Rev1_PhaseFaultDirectionKind

Value	Description	Remarks
-1	both	
0	unknown	
1	forward	
2	backward	

5.2.9 ABBIED600_Rev2_FaultLoopKind

Value	Description	Remarks
-5	No fault	STARTS_GFC,Start signals for phases A, B and C, GFC
-4	PhaseAtoBtoCto-Ground	STARTS_GFC,Start signals for phases A, B and C, GFC,ABCG Fault
-3	PhaseCtoAGround	STARTS_GFC,Start signals for phases A, B and C, GFC,CAG Fault
-2	PhaseBtoCGround	STARTS_GFC,Start signals for phases A, B and C, GFC,BCG Fault
-1	PhaseAtoBGround	STARTS_GFC,Start signals for phases A, B and C, GFC,ABG Fault
1	PhaseAtoGround	STARTS_GFC,Start signals for phases A, B and C, GFC,AG Fault
2	PhaseBtoGround	STARTS_GFC,Start signals for phases A, B and C, GFC,BG Fault
3	PhaseCtoGround	STARTS_GFC,Start signals for phases A, B and C, GFC,CG Fault
4	PhaseAtoB	STARTS_GFC,Start signals for phases A, B and C, GFC,AB Fault

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5	PhaseBtoC	STARTS_GFC,Start signals for phases A, B and C, GFC,BC Fault
6	PhaseCtoA	STARTS_GFC,Start signals for phases A, B and C, GFC,CA Fault
7	Others	STARTS_GFC,Start signals for phases A, B and C, GFC,ABC Fault

5.2.10 ABBIED600_Rev8_TestProKind_Sub6

Value	Description	Remarks
0	Reset	DSTPDIS1,Test control for outputs
87	Activate OPERATE_Z1	DSTPDIS1,Test control for outputs
88	Deactive OPERATE_Z1	DSTPDIS1,Test control for outputs
89	Activate OPERATE_Z2	DSTPDIS1,Test control for outputs
90	Deactive OPERATE_Z2	DSTPDIS1,Test control for outputs
91	Activate OPERATE_Z3	DSTPDIS1,Test control for outputs
92	Deactive OPERATE_Z3	DSTPDIS1,Test control for outputs
93	Activate OPERATE_Z4	DSTPDIS1,Test control for outputs
94	Deactive OPERATE_Z4	DSTPDIS1,Test control for outputs
95	Activate OPERATE_Z5	DSTPDIS1,Test control for outputs
96	Deactive OPERATE_Z5	DSTPDIS1,Test control for outputs
97	Activate START_Z1	DSTPDIS1,Test control for outputs
98	Deactive START_Z1	DSTPDIS1,Test control for outputs
99	Activate START_Z2	DSTPDIS1,Test control for outputs
100	Deactive START_Z2	DSTPDIS1,Test control for outputs
101	Activate START_Z3	DSTPDIS1,Test control for outputs
102	Deactive START_Z3	DSTPDIS1,Test control for outputs
103	Activate START_Z4	DSTPDIS1,Test control for outputs
104	Deactive START_Z4	DSTPDIS1,Test control for outputs
105	Activate START_Z5	DSTPDIS1,Test control for outputs
106	Deactive START_Z5	DSTPDIS1,Test control for outputs
107	Activate LODDSR_GFC	DSTPDIS1,Test control for outputs
108	Deactive LODDSR_GFC	DSTPDIS1,Test control for outputs
109	Activate START_GFC	DSTPDIS1,Test control for outputs
110	Deactive START_GFC	DSTPDIS1,Test control for outputs
-3	Activate OPERATE_GFC	DSTPDIS1,Test control for outputs
-4	Deactive OPERATE_GFC	DSTPDIS1,Test control for outputs
-5	Activate XC_FLT	DSTPDIS1,Test control for outputs

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-6	Deactive XC_FLT	DSTPDIS1,Test control for outputs

5.2.11 ABBIED600_Rev1_PolarizingQuantityKind_Sub2

Va-lue	Description	Remarks
-1	Zro vol.OR cur.	Pol quantity GFC,Polarization method, earth-fault directional function
2	Zero Sequence Current	Pol quantity GFC,Polarization method, earth-fault directional function,Zero seq. cur.
3	Zero Sequence Voltage	Pol quantity GFC,Polarization method, earth-fault directional function,Zero seq. volt.
4	Negative Sequence Voltage	Pol quantity GFC,Polarization method, earth-fault directional function,Neg. seq. volt.

5.2.12 ABBIED600_Rev8_TestProKind_Sub10

Value	Description	Remarks
0	Reset	IFPTOC1,Test control for outputs
1	Activate START	IFPTOC1,Test control for outputs
2	Deactive START	IFPTOC1,Test control for outputs
9	Activate OPERATE	IFPTOC1,Test control for outputs
10	Deactive OPERATE	IFPTOC1,Test control for outputs
121	Activate INTR_EF	IFPTOC1,Test control for outputs
122	Deactive INTR_EF	IFPTOC1,Test control for outputs
123	Activate PEAK_IND	IFPTOC1,Test control for outputs
124	Deactive PEAK_IND	IFPTOC1,Test control for outputs
-5	Activate XC_FLT	IFPTOC1,Test control for outputs
-6	Deactive XC_FLT	IFPTOC1,Test control for outputs
-29	Activate ST_EF	IFPTOC1,Test control for outputs
-30	Deactive ST_EF	IFPTOC1,Test control for outputs
-31	Activate ST_XC	IFPTOC1,Test control for outputs
-32	Deactive ST_XC	IFPTOC1,Test control for outputs
-33	Activate ST_SOTF	IFPTOC1,Test control for outputs
-34	Deactive ST_SOTF	IFPTOC1,Test control for outputs
-35	Activate ST_INTR_EF	IFPTOC1,Test control for outputs
-36	Deactive ST_INTR_EF	IFPTOC1,Test control for outputs
-37	Activate OP_EF	IFPTOC1,Test control for outputs
-38	Deactive OP_EF	IFPTOC1,Test control for outputs

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-39	Activate OP_XC	IFPTOC1,Test control for outputs
-40	Deactive OP_XC	IFPTOC1,Test control for outputs
-41	Activate OP_SOTF	IFPTOC1,Test control for outputs
-42	Deactive OP_SOTF	IFPTOC1,Test control for outputs
-43	Activate OP_INTR_EF	IFPTOC1,Test control for outputs
-44	Deactive OP_INTR_EF	IFPTOC1,Test control for outputs
-45	Activate EF_IND	IFPTOC1,Test control for outputs
-46	Deactive EF_IND	IFPTOC1,Test control for outputs
-47	Activate VALID_EF	IFPTOC1,Test control for outputs
-48	Deactive VALID_EF	IFPTOC1,Test control for outputs

5.2.13 ABBIED600_Rev4_CurveCharKind

Va-lue	Description	Remarks
1	ANSI Extremely In-verse	Operating curve type,Selection of time delay curve type,ANSI Ext. inv.
2	ANSI Very Inverse	Operating curve type,Selection of time delay curve type,ANSI Very inv.
3	ANSI Normal Inverse	Operating curve type,Selection of time delay curve type,ANSI Norm. inv.
4	ANSI Moderate In-verse	Operating curve type,Selection of time delay curve type,ANSI Mod. inv.
5	ANSI Definite Time	Operating curve type,Selection of time delay curve type,ANSI Def. Time
6	Long-Time Extremely Inverse	Operating curve type,Selection of time delay curve type,L.T.E. inv.
7	Long-Time Very In-verse	Operating curve type,Selection of time delay curve type,L.T.V. inv.
8	Long-Time Inverse	Operating curve type,Selection of time delay curve type,L.T. inv.
9	IEC Normal Inverse	Operating curve type,Selection of time delay curve type,IEC Norm. inv.
10	IEC Very Inverse	Operating curve type,Selection of time delay curve type,IEC Very inv.
11	IEC Inverse	Operating curve type,Selection of time delay curve type,IEC inv.
12	IEC Extremely Inverse	Operating curve type,Selection of time delay curve type,IEC Ext. inv.
13	IEC Short-Time In-verse	Operating curve type,Selection of time delay curve type,IEC S.T. inv.

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14	IEC Long-Time Inverse	Operating curve type,Selection of time delay curve type,IEC L.T. inv.
15	IEC Definite Time	Operating curve type,Selection of time delay curve type,IEC Def. Time
16	Reserved	Operating curve type,Selection of time delay curve type
17	Polynom 1	Operating curve type,Selection of time delay curve type,Programmable
18	Polynom 2	Operating curve type,Selection of time delay curve type,RI type
19	Polynom 3	Operating curve type,Selection of time delay curve type,RD type
20	Polynom 4	Operating curve type,Selection of time delay curve type,UK rectifier
21	Polynom 5	Operating curve type,Selection of time delay curve type,LT Ext Inv
22	Polynom 6	Operating curve type,Selection of time delay curve type,LT Very Inv
23	Polynom 7	Operating curve type,Selection of time delay curve type,LT Inv
24	Polynom 8	Operating curve type,Selection of time delay curve type,LT Mod Inv
25	Polynom 9	Operating curve type,Selection of time delay curve type,Long DT
26	Polynom 10	Operating curve type,Selection of time delay curve type,Very LT Ext Inv
27	Polynom 11	Operating curve type,Selection of time delay curve type,Very LT Very Inv
28	Polynom 12	Operating curve type,Selection of time delay curve type,Very LT Inv
29	Polynom 13	Operating curve type,Selection of time delay curve type,LT Normal Inv
30	Polynom 14	Operating curve type,Selection of time delay curve type
31	Polynom 15	Operating curve type,Selection of time delay curve type
32	Polynom 16	Operating curve type,Selection of time delay curve type
33	Multiline 1	Operating curve type,Selection of time delay curve type
34	Multiline 2	Operating curve type,Selection of time delay curve type

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35	Multiline 3	Operating curve type,Selection of time delay curve type
36	Multiline 4	Operating curve type,Selection of time delay curve type
37	Multiline 5	Operating curve type,Selection of time delay curve type
38	Multiline 6	Operating curve type,Selection of time delay curve type
39	Multiline 7	Operating curve type,Selection of time delay curve type
40	Multiline 8	Operating curve type,Selection of time delay curve type
41	Multiline 9	Operating curve type,Selection of time delay curve type
42	Multiline 10	Operating curve type,Selection of time delay curve type
43	Multiline 11	Operating curve type,Selection of time delay curve type
44	Multiline 12	Operating curve type,Selection of time delay curve type
45	Multiline 13	Operating curve type,Selection of time delay curve type
46	Multiline 14	Operating curve type,Selection of time delay curve type
47	Multiline 15	Operating curve type,Selection of time delay curve type
48	Multiline 16	Operating curve type,Selection of time delay curve type
-1	Recloser 1	Operating curve type,Selection of time delay curve type
-2	Recloser 2	Operating curve type,Selection of time delay curve type
-3	Recloser 3	Operating curve type,Selection of time delay curve type
-4	Recloser 4	Operating curve type,Selection of time delay curve type
-5	Recloser 5	Operating curve type,Selection of time delay curve type
-6	Recloser 6	Operating curve type,Selection of time delay curve type
-7	Recloser 7	Operating curve type,Selection of time delay curve type

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-8	Recloser 8	Operating curve type,Selection of time delay curve type
-9	Recloser 8+	Operating curve type,Selection of time delay curve type
-10	Recloser 8*	Operating curve type,Selection of time delay curve type
-11	Recloser 9	Operating curve type,Selection of time delay curve type
-12	Recloser 11	Operating curve type,Selection of time delay curve type
-13	Recloser 13	Operating curve type,Selection of time delay curve type
-14	Recloser 14	Operating curve type,Selection of time delay curve type
-15	Recloser 15	Operating curve type,Selection of time delay curve type
-16	Recloser 16	Operating curve type,Selection of time delay curve type
-17	Recloser 17	Operating curve type,Selection of time delay curve type
-18	Recloser 18	Operating curve type,Selection of time delay curve type
-19	Recloser A	Operating curve type,Selection of time delay curve type
-20	Recloser B	Operating curve type,Selection of time delay curve type
-21	Recloser C	Operating curve type,Selection of time delay curve type
-22	Recloser D	Operating curve type,Selection of time delay curve type
-23	Recloser E	Operating curve type,Selection of time delay curve type
-24	Recloser F	Operating curve type,Selection of time delay curve type
-25	Recloser G	Operating curve type,Selection of time delay curve type
-26	Recloser H	Operating curve type,Selection of time delay curve type
-27	Recloser J	Operating curve type,Selection of time delay curve type
-28	Recloser Kg	Operating curve type,Selection of time delay curve type

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-29	Recloser Kp	Operating curve type,Selection of time delay curve type
-30	Recloser L	Operating curve type,Selection of time delay curve type
-31	Recloser M	Operating curve type,Selection of time delay curve type
-32	Recloser N	Operating curve type,Selection of time delay curve type
-33	Recloser P	Operating curve type,Selection of time delay curve type
-34	Recloser R	Operating curve type,Selection of time delay curve type
-35	Recloser T	Operating curve type,Selection of time delay curve type
-36	Recloser V	Operating curve type,Selection of time delay curve type
-37	Recloser W	Operating curve type,Selection of time delay curve type
-38	Recloser Y	Operating curve type,Selection of time delay curve type
-39	Recloser Z	Operating curve type,Selection of time delay curve type

5.2.14 ABBIED600_Rev8_TestProKind

Value	Description	Remarks
0	Reset	PHPTUC1,Test control for outputs
1	Activate START	PHPTUC1,Test control for outputs
2	Deactive START	PHPTUC1,Test control for outputs
3	Activate ST_A	PHPTUC1,Test control for outputs
4	Deactive ST_A	PHPTUC1,Test control for outputs
5	Activate ST_B	PHPTUC1,Test control for outputs
6	Deactive ST_B	PHPTUC1,Test control for outputs
7	Activate ST_C	PHPTUC1,Test control for outputs
8	Deactive ST_C	PHPTUC1,Test control for outputs
9	Activate OPERATE	PHPTUC1,Test control for outputs
10	Deactive OPERATE	PHPTUC1,Test control for outputs
11	Activate OPR_A	PHPTUC1,Test control for outputs
12	Deactive OPR_A	PHPTUC1,Test control for outputs
13	Activate OPR_B	PHPTUC1,Test control for outputs

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14	Deactive OPR_B	PHPTUC1,Test control for outputs
15	Activate OPR_C	PHPTUC1,Test control for outputs
16	Deactive OPR_C	PHPTUC1,Test control for outputs
17	Activate ALARM	PHPTUC1,Test control for outputs
18	Deactive ALARM	PHPTUC1,Test control for outputs
19	Activate WARNING	PHPTUC1,Test control for outputs
20	Deactive WARNING	PHPTUC1,Test control for outputs
21	Activate BLK_CLOSE	PHPTUC1,Test control for outputs
22	Deactive BLK_CLOSE	PHPTUC1,Test control for outputs
23	Activate BLK_EF	PHPTUC1,Test control for outputs
24	Deactive BLK_EF	PHPTUC1,Test control for outputs
25	Activate ARC_FLT_DET	PHPTUC1,Test control for outputs
26	Deactive ARC_FLT_DET	PHPTUC1,Test control for outputs
27	Activate STR_LS_LOC	PHPTUC1,Test control for outputs
28	Deactive STR_LS_LOC	PHPTUC1,Test control for outputs
29	Activate STR_LS_REM	PHPTUC1,Test control for outputs
30	Deactive STR_LS_REM	PHPTUC1,Test control for outputs
31	Activate OPR_LS_LOC	PHPTUC1,Test control for outputs
32	Deactive OPR_LS_LOC	PHPTUC1,Test control for outputs
33	Activate OPR_LS_REM	PHPTUC1,Test control for outputs
34	Deactive OPR_LS_REM	PHPTUC1,Test control for outputs
35	Activate OPR_HS_LOC	PHPTUC1,Test control for outputs
36	Deactive OPR_HS_LOC	PHPTUC1,Test control for outputs
37	Activate OPR_HS_REM	PHPTUC1,Test control for outputs
38	Deactive OPR_HS_REM	PHPTUC1,Test control for outputs
39	Activate RSTD2H_LOC	PHPTUC1,Test control for outputs
40	Deactive RSTD2H_LOC	PHPTUC1,Test control for outputs
41	Activate RSTD2H_REM	PHPTUC1,Test control for outputs
42	Deactive RSTD2H_REM	PHPTUC1,Test control for outputs
43	Activate PROT_ACTIVE	PHPTUC1,Test control for outputs
44	Deactive PROT_ACTIVE	PHPTUC1,Test control for outputs
45	Activate RESTORE	PHPTUC1,Test control for outputs
46	Deactive RESTORE	PHPTUC1,Test control for outputs
47	Activate RELEASE	PHPTUC1,Test control for outputs
48	Deactive RELEASE	PHPTUC1,Test control for outputs
49	Activate OPR_IIT	PHPTUC1,Test control for outputs
50	Deactive OPR_IIT	PHPTUC1,Test control for outputs

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51	Activate OPR_STALL	PHPTUC1,Test control for outputs
52	Deactive OPR_STALL	PHPTUC1,Test control for outputs
53	Activate MOT_START	PHPTUC1,Test control for outputs
54	Deactive MOT_START	PHPTUC1,Test control for outputs
55	Activate LOCK_START	PHPTUC1,Test control for outputs
56	Deactive LOCK_START	PHPTUC1,Test control for outputs
57	Activate BLK_RESTART	PHPTUC1,Test control for outputs
58	Deactive BLK_RESTART	PHPTUC1,Test control for outputs
59	Activate OPR_LS	PHPTUC1,Test control for outputs
60	Deactive OPR_LS	PHPTUC1,Test control for outputs
61	Activate OPR_HS	PHPTUC1,Test control for outputs
62	Deactive OPR_HS	PHPTUC1,Test control for outputs
63	Activate BLKD2H	PHPTUC1,Test control for outputs
64	Deactive BLKD2H	PHPTUC1,Test control for outputs
65	Activate BLKD5H	PHPTUC1,Test control for outputs
66	Deactive BLKD5H	PHPTUC1,Test control for outputs
67	Activate BLKDWAV	PHPTUC1,Test control for outputs
68	Deactive BLKDWAV	PHPTUC1,Test control for outputs
69	Activate OPR_UFRQ	PHPTUC1,Test control for outputs
70	Deactive OPR_UFRQ	PHPTUC1,Test control for outputs
71	Activate OPR_OFRQ	PHPTUC1,Test control for outputs
72	Deactive OPR_OFRQ	PHPTUC1,Test control for outputs
73	Activate OPR_FRG	PHPTUC1,Test control for outputs
74	Deactive OPR_FRG	PHPTUC1,Test control for outputs
75	Activate ST_UFRQ	PHPTUC1,Test control for outputs
76	Deactive ST_UFRQ	PHPTUC1,Test control for outputs
77	Activate ST_OFRQ	PHPTUC1,Test control for outputs
78	Deactive ST_OFRQ	PHPTUC1,Test control for outputs
79	Activate ST_FRG	PHPTUC1,Test control for outputs
80	Deactive ST_FRG	PHPTUC1,Test control for outputs
81	Activate ST_REST	PHPTUC1,Test control for outputs
82	Deactive ST_REST	PHPTUC1,Test control for outputs
83	Activate INT_BLKD	PHPTUC1,Test control for outputs
84	Deactive INT_BLKD	PHPTUC1,Test control for outputs
85	Activate COOL_ACTIVE	PHPTUC1,Test control for outputs
86	Deactive COOL_ACTIVE	PHPTUC1,Test control for outputs
87	Activate OPERATE_Z1	PHPTUC1,Test control for outputs

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88	Deactive OPERATE_Z1	PHPTUC1,Test control for outputs
89	Activate OPERATE_Z2	PHPTUC1,Test control for outputs
90	Deactive OPERATE_Z2	PHPTUC1,Test control for outputs
91	Activate OPERATE_Z3	PHPTUC1,Test control for outputs
92	Deactive OPERATE_Z3	PHPTUC1,Test control for outputs
93	Activate OPERATE_Z4	PHPTUC1,Test control for outputs
94	Deactive OPERATE_Z4	PHPTUC1,Test control for outputs
95	Activate OPERATE_Z5	PHPTUC1,Test control for outputs
96	Deactive OPERATE_Z5	PHPTUC1,Test control for outputs
97	Activate START_Z1	PHPTUC1,Test control for outputs
98	Deactive START_Z1	PHPTUC1,Test control for outputs
99	Activate START_Z2	PHPTUC1,Test control for outputs
100	Deactive START_Z2	PHPTUC1,Test control for outputs
101	Activate START_Z3	PHPTUC1,Test control for outputs
102	Deactive START_Z3	PHPTUC1,Test control for outputs
103	Activate START_Z4	PHPTUC1,Test control for outputs
104	Deactive START_Z4	PHPTUC1,Test control for outputs
105	Activate START_Z5	PHPTUC1,Test control for outputs
106	Deactive START_Z5	PHPTUC1,Test control for outputs
107	Activate LODDSR_GFC	PHPTUC1,Test control for outputs
108	Deactive LODDSR_GFC	PHPTUC1,Test control for outputs
109	Activate START_GFC	PHPTUC1,Test control for outputs
110	Deactive START_GFC	PHPTUC1,Test control for outputs
111	Activate ST_ALARM	PHPTUC1,Test control for outputs
112	Deactive ST_ALARM	PHPTUC1,Test control for outputs
113	Activate OPR_OVLOD	PHPTUC1,Test control for outputs
114	Deactive OPR_OVLOD	PHPTUC1,Test control for outputs
115	Activate ST_OVLOD	PHPTUC1,Test control for outputs
116	Deactive ST_OVLOD	PHPTUC1,Test control for outputs
117	Activate OPR_UN_I	PHPTUC1,Test control for outputs
118	Deactive OPR_UN_I	PHPTUC1,Test control for outputs
119	Activate ST_UN_I	PHPTUC1,Test control for outputs
120	Deactive ST_UN_I	PHPTUC1,Test control for outputs
121	Activate INTR_EF	PHPTUC1,Test control for outputs
122	Deactive INTR_EF	PHPTUC1,Test control for outputs
123	Activate PEAK_IND	PHPTUC1,Test control for outputs
124	Deactive PEAK_IND	PHPTUC1,Test control for outputs

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125	Activate ST_FRQ	PHPTUC1,Test control for outputs
126	Deactive ST_FRQ	PHPTUC1,Test control for outputs
-1	Activate OPR_FRQ	PHPTUC1,Test control for outputs
-2	Deactive OPR_FRQ	PHPTUC1,Test control for outputs
-3	Activate OPERATE_GFC	PHPTUC1,Test control for outputs
-4	Deactive OPERATE_GFC	PHPTUC1,Test control for outputs
-5	Activate XC_FLT	PHPTUC1,Test control for outputs
-6	Deactive XC_FLT	PHPTUC1,Test control for outputs
-7	Activate ARMED	PHPTUC1,Test control for outputs
-8	Deactive ARMED	PHPTUC1,Test control for outputs
-9	Activate OPR_ZA	PHPTUC1,Test control for outputs
-10	Deactive OPR_ZA	PHPTUC1,Test control for outputs
-11	Activate OPR_ZB	PHPTUC1,Test control for outputs
-12	Deactive OPR_ZB	PHPTUC1,Test control for outputs
-13	Activate OPR_ZN	PHPTUC1,Test control for outputs
-14	Deactive OPR_ZN	PHPTUC1,Test control for outputs
-15	Activate OPR_SEF_ZA	PHPTUC1,Test control for outputs
-16	Deactive OPR_SEF_ZA	PHPTUC1,Test control for outputs
-17	Activate OPR_SEF_ZB	PHPTUC1,Test control for outputs
-18	Deactive OPR_SEF_ZB	PHPTUC1,Test control for outputs
-19	Activate OPR_EX_ZA	PHPTUC1,Test control for outputs
-20	Deactive OPR_EX_ZA	PHPTUC1,Test control for outputs
-21	Activate OPR_EX_ZB	PHPTUC1,Test control for outputs
-22	Deactive OPR_EX_ZB	PHPTUC1,Test control for outputs
-23	Activate INT_BLKD_ZA	PHPTUC1,Test control for outputs
-24	Deactive INT_BLKD_ZA	PHPTUC1,Test control for outputs
-25	Activate INT_BLKD_ZB	PHPTUC1,Test control for outputs
-26	Deactive INT_BLKD_ZB	PHPTUC1,Test control for outputs
-27	Activate CT_OPEN	PHPTUC1,Test control for outputs
-28	Deactive CT_OPEN	PHPTUC1,Test control for outputs
-29	Activate ST_EF	PHPTUC1,Test control for outputs
-30	Deactive ST_EF	PHPTUC1,Test control for outputs
-31	Activate ST_XC	PHPTUC1,Test control for outputs
-32	Deactive ST_XC	PHPTUC1,Test control for outputs
-33	Activate ST_SOTF	PHPTUC1,Test control for outputs
-34	Deactive ST_SOTF	PHPTUC1,Test control for outputs
-35	Activate ST_INTR_EF	PHPTUC1,Test control for outputs

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-36	Deactive ST_INTR_EF	PHPTUC1,Test control for outputs
-37	Activate OP_EF	PHPTUC1,Test control for outputs
-38	Deactive OP_EF	PHPTUC1,Test control for outputs
-39	Activate OP_XC	PHPTUC1,Test control for outputs
-40	Deactive OP_XC	PHPTUC1,Test control for outputs
-41	Activate OP_SOTF	PHPTUC1,Test control for outputs
-42	Deactive OP_SOTF	PHPTUC1,Test control for outputs
-43	Activate OP_INTR_EF	PHPTUC1,Test control for outputs
-44	Deactive OP_INTR_EF	PHPTUC1,Test control for outputs
-45	Activate EF_IND	PHPTUC1,Test control for outputs
-46	Deactive EF_IND	PHPTUC1,Test control for outputs
-47	Activate VALID_EF	PHPTUC1,Test control for outputs
-48	Deactive VALID_EF	PHPTUC1,Test control for outputs
-49	Activate STALL_IND	PHPTUC1,Test control for outputs
-50	Deactive STALL_IND	PHPTUC1,Test control for outputs

5.2.15 ABBIED600_Rev1_HealthLineDiffKind

Value	Description	Remarks
-2	Waiting	HEALTH,Communication link health
-1	Test	HEALTH,Communication link health
1	Ok	HEALTH,Communication link health
2	Warning	HEALTH,Communication link health
3	Alarm	HEALTH,Communication link health

5.2.16 ABBIED600_Rev8_TestProKind_Sub13

Value	Description	Remarks
0	Reset	LSHDPFRQ1,Test control for outputs
1	Activate START	LSHDPFRQ1,Test control for outputs
2	Deactive START	LSHDPFRQ1,Test control for outputs
9	Activate OPERATE	LSHDPFRQ1,Test control for outputs
10	Deactive OPERATE	LSHDPFRQ1,Test control for outputs
45	Activate RESTORE	LSHDPFRQ1,Test control for outputs
46	Deactive RESTORE	LSHDPFRQ1,Test control for outputs
73	Activate OPR_FRG	LSHDPFRQ1,Test control for outputs
74	Deactive OPR_FRG	LSHDPFRQ1,Test control for outputs
79	Activate ST_FRG	LSHDPFRQ1,Test control for outputs

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80	Deactive ST_FRG	LSHDPFRQ1,Test control for outputs
81	Activate ST_REST	LSHDPFRQ1,Test control for outputs
82	Deactive ST_REST	LSHDPFRQ1,Test control for outputs
125	Activate ST_FRQ	LSHDPFRQ1,Test control for outputs
126	Deactive ST_FRQ	LSHDPFRQ1,Test control for outputs
-1	Activate OPR_FRQ	LSHDPFRQ1,Test control for outputs
-2	Deactive OPR_FRQ	LSHDPFRQ1,Test control for outputs

5.2.17 ABBIED600_Rev4_AutoReclosingKind

Value	Description	Remarks
-1	Not defined	STATUS,AR status signal for IEC61850
1	Ready	STATUS,AR status signal for IEC61850
2	InProgress	STATUS,AR status signal for IEC61850
3	Successful	STATUS,AR status signal for IEC61850
4	WaitingForTrip	STATUS,AR status signal for IEC61850
5	TripFromProtection	STATUS,AR status signal for IEC61850
6	FaultDisappeared	STATUS,AR status signal for IEC61850
7	WaitToComplete	STATUS,AR status signal for IEC61850
8	CBclosed	STATUS,AR status signal for IEC61850
9	CycleUnsuccessful	STATUS,AR status signal for IEC61850
10	Unsuccessful	STATUS,AR status signal for IEC61850
11	Aborted	STATUS,AR status signal for IEC61850

5.2.18 ABBIED600_Rev2_ParallelTransfModeKind_Sub1

Value	Description	Remarks
-2	Command	Parallel mode,Parallel mode selection
-1	Input control	Parallel mode,Parallel mode selection
2	Master	Parallel mode,Parallel mode selection
3	Follower	Parallel mode,Parallel mode selection
5	Negative Reactance	Parallel mode,Parallel mode selection,NRP
7	Circulating Reactive Current (var balancing)	Parallel mode,Parallel mode selection,MCC

5.2.19 ABBIED600_Rev12_TestCtlKind_Sub2

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Value	Description	Remarks
0	Reset	PASANCR1,Test control for outputs
3	Activate ALARM	PASANCR1,Test control for outputs
4	Deactive ALARM	PASANCR1,Test control for outputs
23	Activate RAISE	PASANCR1,Test control for outputs
24	Deactive RAISE	PASANCR1,Test control for outputs
25	Activate LOWER	PASANCR1,Test control for outputs
26	Deactive LOWER	PASANCR1,Test control for outputs
-29	Activate FIXCOIL	PASANCR1,Test control for outputs
-30	Deactive FIXCOIL	PASANCR1,Test control for outputs
-31	Activate OP_FIXCOIL	PASANCR1,Test control for outputs
-32	Deactive OP_FIXCOIL	PASANCR1,Test control for outputs
-33	Activate CL_FIXCOIL	PASANCR1,Test control for outputs
-34	Deactive CL_FIXCOIL	PASANCR1,Test control for outputs
-35	Activate RESISTOR	PASANCR1,Test control for outputs
-36	Deactive RESISTOR	PASANCR1,Test control for outputs
-37	Activate OP_RESISTOR	PASANCR1,Test control for outputs
-38	Deactive OP_RESISTOR	PASANCR1,Test control for outputs
-39	Activate CL_RESISTOR	PASANCR1,Test control for outputs
-40	Deactive CL_RESISTOR	PASANCR1,Test control for outputs
-41	Activate POT_ALARM	PASANCR1,Test control for outputs
-42	Deactive POT_ALARM	PASANCR1,Test control for outputs
-43	Activate MOT_ALARM	PASANCR1,Test control for outputs
-44	Deactive MOT_ALARM	PASANCR1,Test control for outputs
-45	Activate EARTH_FAULT	PASANCR1,Test control for outputs
-46	Deactive EARTH_FAULT	PASANCR1,Test control for outputs
-49	Activate TUNING_ACT	PASANCR1,Test control for outputs
-50	Deactive TUNING_ACT	PASANCR1,Test control for outputs
-107	Activate TUNING_SUC	PASANCR1,Test control for outputs
-108	Deactive TUNING_SUC	PASANCR1,Test control for outputs

5.2.20 ABBIED600_Rev5_LiveDeadModeKind_Sub1

Va-lue	Description	Remarks
-1	Off	Live dead mode,Energizing check mode

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1	Dead Line, Dead Bus	Live dead mode,Energizing check mode,Both Dead
2	Live Line, Dead Bus	Live dead mode,Energizing check mode,Live L, Dead B
3	Dead Line, Live Bus	Live dead mode,Energizing check mode,Dead L, Live B
4	Dead Line, Dead Bus OR Live Line, Dead Bus	Live dead mode,Energizing check mode,Dead Bus, L Any
5	Dead Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,Dead L, Bus Any
6	Live Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,One Live, Dead
7	Dead Line, Dead Bus OR Live Line, Dead Bus OR Dead Line, Live Bus	Live dead mode,Energizing check mode,Not Both Live

5.2.21 ABBIED600_Rev3_SynchOperationModeKind_Sub1

Va-lue	Description	Remarks
-1	Semi-automatic synchroni-sing	Auto Syn mode,Auto synchronization operation mode
1	Automatic synchronising	Auto Syn mode,Auto synchronization operation mode
3	Manual	Auto Syn mode,Auto synchronization operation mode

5.2.22 ABBIED600_Rev5_LiveDeadModeKind_Sub2

Va-lue	Description	Remarks
-2	Command	Live dead mode,Live dead mode
-1	Off	Live dead mode,Live dead mode
1	Dead Line, Dead Bus	Live dead mode,Live dead mode,Both Dead
2	Live Line, Dead Bus	Live dead mode,Live dead mode,Live L, Dead B
4	Dead Line, Dead Bus OR Live Line, Dead Bus	Live dead mode,Live dead mode,Dead Bus, L Any

5.2.23 ABBIED600_Rev5_LiveDeadModeKind

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Value	Description	Remarks
-2	Command	LIVEDEAD_STS,Live dead mode status
-1	Off	LIVEDEAD_STS,Live dead mode status
1	Dead Line, Dead Bus	LIVEDEAD_STS,Live dead mode status,Both Dead
2	Live Line, Dead Bus	LIVEDEAD_STS,Live dead mode status,Live L, Dead B
3	Dead Line, Live Bus	LIVEDEAD_STS,Live dead mode status,Dead L, Live B
4	Dead Line, Dead Bus OR Live Line, Dead Bus	LIVEDEAD_STS,Live dead mode status,Dead Bus, L Any
5	Dead Line, Dead Bus OR Dead Line, Live Bus	LIVEDEAD_STS,Live dead mode status,Dead L, Bus Any
6	Live Line, Dead Bus OR Dead Line, Live Bus	LIVEDEAD_STS,Live dead mode status,One Live, Dead
7	Dead Line, Dead Bus OR Live Line, Dead Bus OR Dead Line, Live Bus	LIVEDEAD_STS,Live dead mode status,Not Both Live

5.2.24 ABBIED600_Rev6_LiveDeadModeKind_Sub3

Value	Description	Remarks
-1	Off	Live dead mode Ctl,Live dead mode control
1	Dead Line, Dead Bus	Live dead mode Ctl,Live dead mode control,Both Dead
2	Live Line, Dead Bus	Live dead mode Ctl,Live dead mode control,Live L, Dead B
4	Dead Line, Dead Bus OR Live Line, Dead Bus	Live dead mode Ctl,Live dead mode control,Dead Bus, L Any

5.2.25 ABBIED600_Rev1_GenStatus

Value	Description	Remarks
-1	Unknown	GEN_STATE,Current operating state
1	Stopped	GEN_STATE,Current operating state
2	Stopping	GEN_STATE,Current operating state
3	Started	GEN_STATE,Current operating state
4	Starting	GEN_STATE,Current operating state

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5	Disabled	GEN_STATE,Current operating state

5.2.26 ABBIED600_Rev12_TestCtlKind_Sub15

Value	Description	Remarks
0	Reset	HSABTC1,Test control for outputs
21	Activate READY	HSABTC1,Test control for outputs
22	Deactive READY	HSABTC1,Test control for outputs
47	Activate OPEN_CB1	HSABTC1,Test control for outputs
48	Deactive OPEN_CB1	HSABTC1,Test control for outputs
49	Activate CLOSE_CB1	HSABTC1,Test control for outputs
50	Deactive CLOSE_CB1	HSABTC1,Test control for outputs
51	Activate OPEN_CB2	HSABTC1,Test control for outputs
52	Deactive OPEN_CB2	HSABTC1,Test control for outputs
53	Activate CLOSE_CB2	HSABTC1,Test control for outputs
54	Deactive CLOSE_CB2	HSABTC1,Test control for outputs
-53	Activate NOT_READY	HSABTC1,Test control for outputs
-54	Deactive NOT_READY	HSABTC1,Test control for outputs
-55	Activate TR_RUNNING	HSABTC1,Test control for outputs
-56	Deactive TR_RUNNING	HSABTC1,Test control for outputs
-57	Activate NOT_IDLE	HSABTC1,Test control for outputs
-58	Deactive NOT_IDLE	HSABTC1,Test control for outputs
-59	Activate FAST_READY	HSABTC1,Test control for outputs
-60	Deactive FAST_READY	HSABTC1,Test control for outputs
-61	Activate OPR_LOADSHED	HSABTC1,Test control for outputs
-62	Deactive OPR_LOADSHED	HSABTC1,Test control for outputs
-63	Activate COMPL_FAST	HSABTC1,Test control for outputs
-64	Deactive COMPL_FAST	HSABTC1,Test control for outputs
-65	Activate COMPL_FBBM	HSABTC1,Test control for outputs
-66	Deactive COMPL_FBBM	HSABTC1,Test control for outputs
-67	Activate COMPL_1ST_PH	HSABTC1,Test control for outputs
-68	Deactive COMPL_1ST_PH	HSABTC1,Test control for outputs
-69	Activate COMPL_RES	HSABTC1,Test control for outputs
-70	Deactive COMPL_RES	HSABTC1,Test control for outputs
-71	Activate COMPL_TDLY	HSABTC1,Test control for outputs
-72	Deactive COMPL_TDLY	HSABTC1,Test control for outputs
-73	Activate FRQ_DIFF_FAIL	HSABTC1,Test control for outputs
-74	Deactive FRQ_DIFF_FAIL	HSABTC1,Test control for outputs

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-75	Activate ANG_DIFF_FAIL	HSABTC1,Test control for outputs
-76	Deactive ANG_DIFF_FAIL	HSABTC1,Test control for outputs
-77	Activate GRAD_FAIL	HSABTC1,Test control for outputs
-78	Deactive GRAD_FAIL	HSABTC1,Test control for outputs
-79	Activate U_STDBY_FAIL	HSABTC1,Test control for outputs
-80	Deactive U_STDBY_FAIL	HSABTC1,Test control for outputs
-81	Activate U_BB_FAIL	HSABTC1,Test control for outputs
-82	Deactive U_BB_FAIL	HSABTC1,Test control for outputs
-83	Activate U_BB_U_RES	HSABTC1,Test control for outputs
-84	Deactive U_BB_U_RES	HSABTC1,Test control for outputs
-85	Activate INIT_UF	HSABTC1,Test control for outputs
-86	Deactive INIT_UF	HSABTC1,Test control for outputs
-87	Activate INIT_UV	HSABTC1,Test control for outputs
-88	Deactive INIT_UV	HSABTC1,Test control for outputs
-89	Activate INIT_EXT	HSABTC1,Test control for outputs
-90	Deactive INIT_EXT	HSABTC1,Test control for outputs
-91	Activate TR_1_2_OK	HSABTC1,Test control for outputs
-92	Deactive TR_1_2_OK	HSABTC1,Test control for outputs
-93	Activate TR_2_1_OK	HSABTC1,Test control for outputs
-94	Deactive TR_2_1_OK	HSABTC1,Test control for outputs
-95	Activate LAST_TR_1_2	HSABTC1,Test control for outputs
-96	Deactive LAST_TR_1_2	HSABTC1,Test control for outputs
-97	Activate LAST_TR_2_1	HSABTC1,Test control for outputs
-98	Deactive LAST_TR_2_1	HSABTC1,Test control for outputs
-99	Activate AL_OPN_CB1	HSABTC1,Test control for outputs
-100	Deactive AL_OPN_CB1	HSABTC1,Test control for outputs
-101	Activate AL_CLS_CB1	HSABTC1,Test control for outputs
-102	Deactive AL_CLS_CB1	HSABTC1,Test control for outputs
-103	Activate AL_OPN_CB2	HSABTC1,Test control for outputs
-104	Deactive AL_OPN_CB2	HSABTC1,Test control for outputs
-105	Activate AL_CLS_CB2	HSABTC1,Test control for outputs
-106	Deactive AL_CLS_CB2	HSABTC1,Test control for outputs

5.2.27 ABBIED600_Rev2_SOFEnablingModeKind_Sub1

Value	Description	Remarks
-4	Cur&Vol or SwitchCmd	SOTF initialization,Switch onto fault initialization
-3	Current or SwitchCmd	SOTF initialization,Switch onto fault initialization

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-2	Voltage or SwitchCmd	SOTF initialization,Switch onto fault initialization
1	SwitchCommand	SOTF initialization,Switch onto fault initialization

5.2.28 ABBIED600_Rev8_TestProKind_Sub19

Value	Description	Remarks
0	Reset	RPTTR1,Test control for outputs
9	Activate OPERATE	RPTTR1,Test control for outputs
10	Deactive OPERATE	RPTTR1,Test control for outputs
17	Activate ALARM	RPTTR1,Test control for outputs
18	Deactive ALARM	RPTTR1,Test control for outputs
57	Activate BLK_RESTART	RPTTR1,Test control for outputs
58	Deactive BLK_RESTART	RPTTR1,Test control for outputs
-49	Activate STALL_IND	RPTTR1,Test control for outputs
-50	Deactive STALL_IND	RPTTR1,Test control for outputs

5.2.29 ABBIED600_Rev8_TestProKind_Sub8

Value	Description	Remarks
0	Reset	GAEPVOC1,Test control for outputs
1	Activate START	GAEPVOC1,Test control for outputs
2	Deactive START	GAEPVOC1,Test control for outputs
9	Activate OPERATE	GAEPVOC1,Test control for outputs
10	Deactive OPERATE	GAEPVOC1,Test control for outputs
-7	Activate ARMED	GAEPVOC1,Test control for outputs
-8	Deactive ARMED	GAEPVOC1,Test control for outputs

5.2.30 ABBIED600_Rev1_I3CCls2Frame

Value	Description	Remarks
-1	Not in use	Frame1InUse,Active Class2 Frame 1
0	User frame	Frame1InUse,Active Class2 Frame 1
1	Standard frame 1	Frame1InUse,Active Class2 Frame 1
2	Standard frame 2	Frame1InUse,Active Class2 Frame 1
3	Standard frame 3	Frame1InUse,Active Class2 Frame 1
4	Standard frame 4	Frame1InUse,Active Class2 Frame 1
5	Standard frame 5	Frame1InUse,Active Class2 Frame 1
6	Private frame 6	Frame1InUse,Active Class2 Frame 1

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7	Private frame 7	Frame1InUse,Active Class2 Frame 1

8. Control Block Extensions

None

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