S1 (Normal Supply) BUSBAR

S1_L1
S1_L2
S1_L3
S1_N

-OXEA1
SUPPLY B
K2-
K1+
W3
W4

2.8 / -24_K2_OB
2.8 / +24_K1_OB
7.8 / EKIP_B
24V supply
CAN
CAN B W3
CAN B W4
CAN bus
to Ekip 10K

-EKIP
SUPPLY A
K2- -24_K2_A / 2.8
K1+ +24_K1_A / 2.8
W3 CAN A W3
W4 CAN A W4
CAN bus
to Ekip 10K
8.9 / EKIP_A
24V supply
CAN

LOAD:L1
LOAD:L2
LOAD:L3
LOAD:N

-J3 LOAD: L2
-J3 LOAD: L3
-J3 X400:1
X400:2
-X400 1
2
L3
L2
OPTIONAL ACCESSORY
Heater Control Module

-PCB
/2.1
-X21 9 10
-K9
CD
microswitch
/4.1
4
8
6
-X21 11 12

6.3 / A_I3
6.3 / A_I2
6.3 / A_I1
6.3 / A_C

2.8 / -24_K2_OA
2.8 / +24_K1_OA

SPD LOAD:L1
SPD LOAD:L2
SPD LOAD:L3
SPD LOAD:N
ACCESSORY
Surge Protective Device

Customer
-XGEN
-XGEN
1.2 / XGEN:2
1.2 / XGEN:4
1.2 / XGEN:6

-ATS
-CM
CAN H
CAN L

6.3 / B_I3
6.3 / B_I1
6.3 / B_C

1.5 / XGEN:6
1.5 / XGEN:4
1.5 / XGEN:2

Bypass
/2.2
OXB_
C NO NC
C O1
FIRE
24V DC
C I1 I2 I3
24 Vdc
5 mA

ATS
/2.3
OXB_
OXEA1

LOAD BUSBAR

Fixed

Withdrawable

SPD S1:L1
SPD S1:L2
SPD S1:L3
SPD S1:N
ACCESSORY
Surface Protective Device

TC1_L2
TC1_L3
2.1

2.2 / TC2_L3
2.2 / TC2_L2

SPD S2:L1
SPD S2:L2
SPD S2:L3
SPD S2:N
ACCESSORY
Surge Protective Device

-X11 9 10 11 12

S2_L1
S2_L2
S2_L3
S2_N

S2 (Emergency Supply) BUSBAR

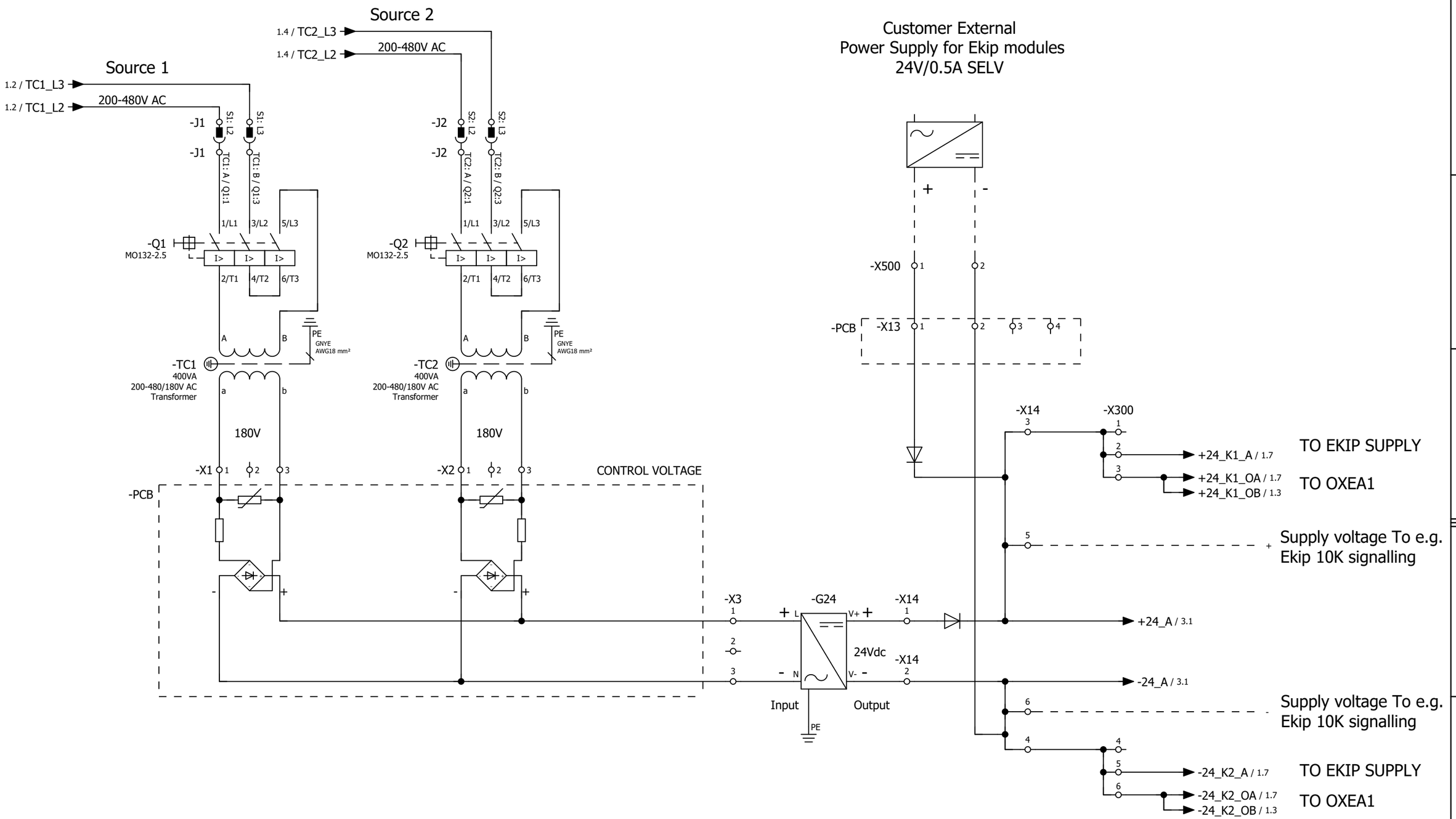
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RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2021-06-08 Jonna Ojala		APPROVED 2021-06-08 Timo Jokiniemi	
ECN NUMBER / ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	

TITLE (FI)	TYPE	SCALE	FORMAT	LANGUAGE	SHEET
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TITLE (EN) BYPASS OVERALL SCHEMATIC DIAGRAM	DOC. NO. ZSBD040-120-1				REV. A

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BYPASS CONNECTED | BYPASS TEST | BYPASS ISOLATE | ATS CONNECTED | ATS TEST | ATS ISOLATE

2.7 / +24_A → -X10 1 → -BYPASS → -X10 2 → +24_A / 4.1

-X20 1 → -X200 1 → -ATS

-XF 101 → 1 -S75I/1 2 → 102 -XF

-XF 121 → 1 -S75T/1 4 → 124 -XF

-XF 131 → 1 -S75E/1 4 → 134 -XF

-X20 2 → -X20 3 → -X20 4

Bypass always CONNECTED

-PCB /2.1

-K1 Bypass CONNECTED → -V1

-K14 Bypass CONNECTED → -V18

-K5 ATS CONNECTED → -V5

-K13 ATS CONNECTED → -V17

-K6 ATS TEST → -V6

-K7 ATS TEST → -V7

-K8 ATS ISOLATE → -V8

2.7 / -24_A → -24_A / 4.1

8 — 4 /6.1, 6 — 9 — 13 /6.2, 11

8 — 4 /5.2, 6

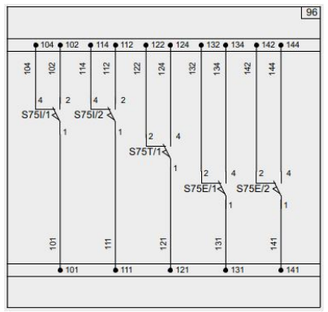
8 — 4 /6.1, 6 — 9 — 13 /6.2, 11

8 — 4 /5.2, 6

8 — 4 /6.1, 6

8 — 4 /7.8, 6 — 9 — 13 /10.7, 11

AUP signalling contacts
24Vac Sx 2I/1T/2E



-X100 1 2 3

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ATS
CD-group signal
(button microswitch)

Accessory functions
Door microswitch

Accessory functions
Door solenoid

3.9 / +24_A

+24_A / 5.1

-X21 3

-X21 1

-X11 3

-X11 1

-ATS
-CM

5

5

7

7

-ATS

-CD
microswitch

1/COM

4/NO

2/NC

-ATS

-*DOOR*
microswitch

1/COM

4/NO

2/NC

-ATS
-CM

21

6

21

6

14

23

14

23

-X21 4

-X21 2

-X11 4

-X11 2

-PCB
/2.1

-K9
ATS CD button
/4.1

13

9

11

-PCB
/2.1

-K9
ATS CD
(microswitch)

-V9

-Kxy
ATS *DOOR
(microswitch)*

-Vxy

-Kyx

-Vyx

-Kyy

-Vyy

3.9 / -24_A

-24_A / 5.1

Not assembled

Not assembled

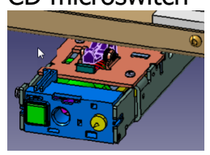
8
6

4 /1.5

9
11

13 /4.4

CD microswitch



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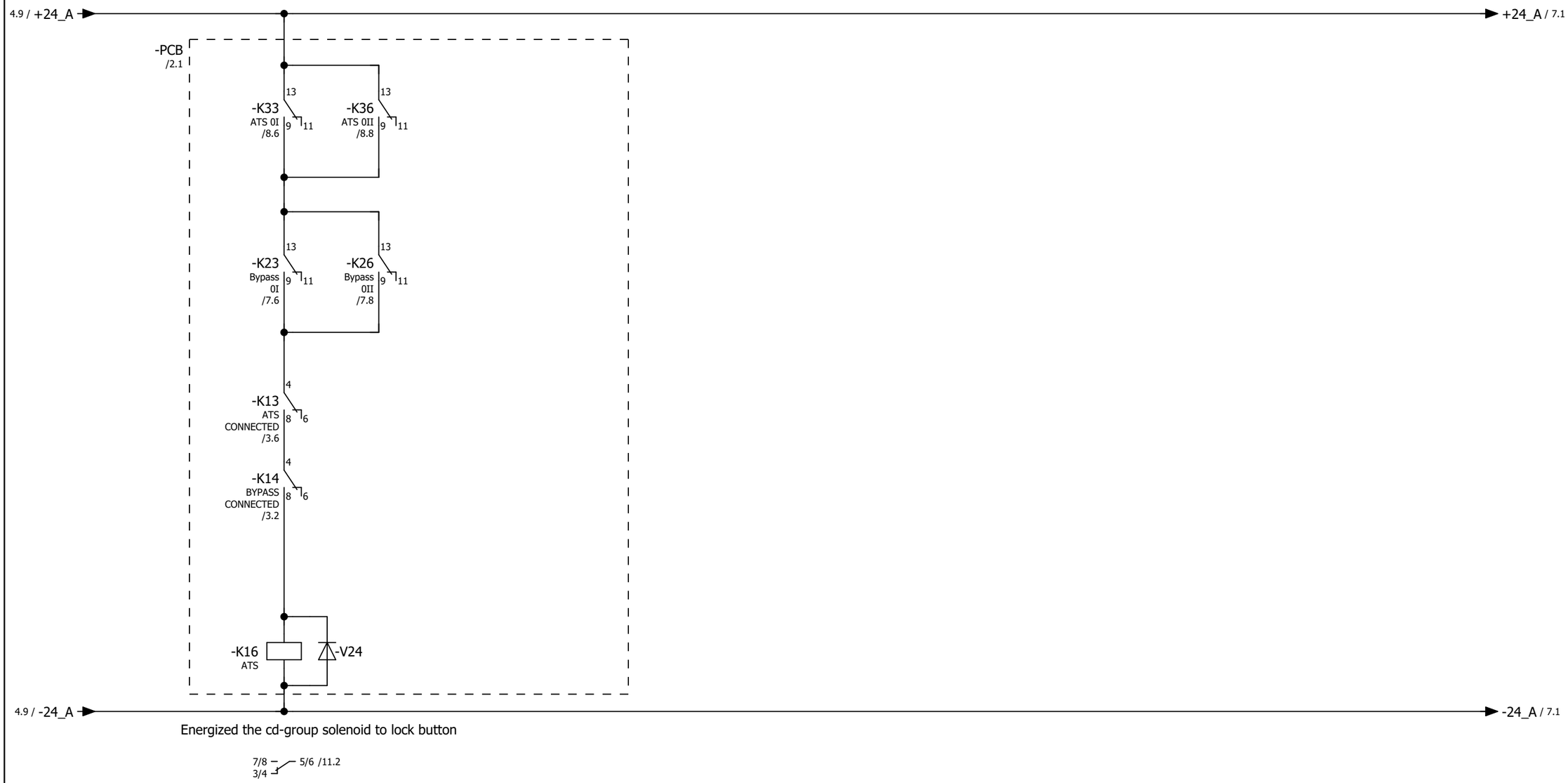
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CD-group locking solenoid



ATS CD
Solenoid 4

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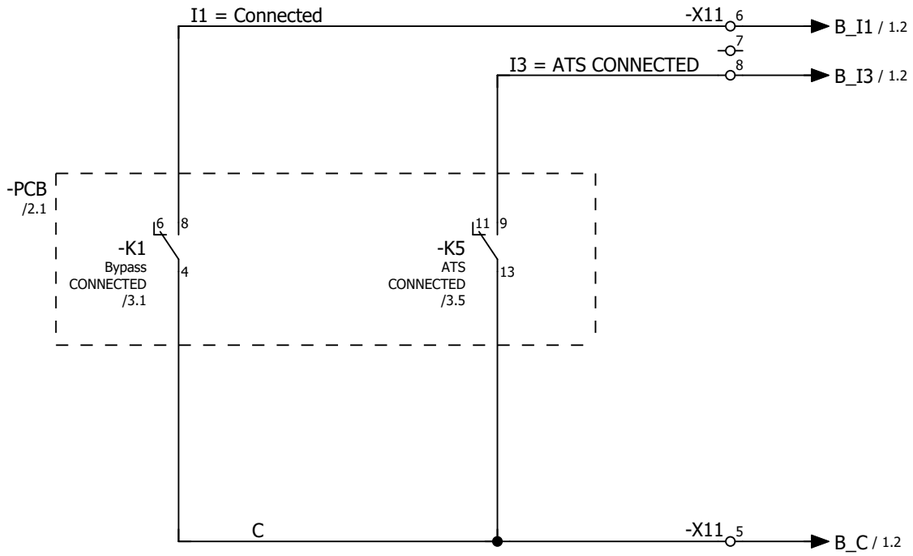
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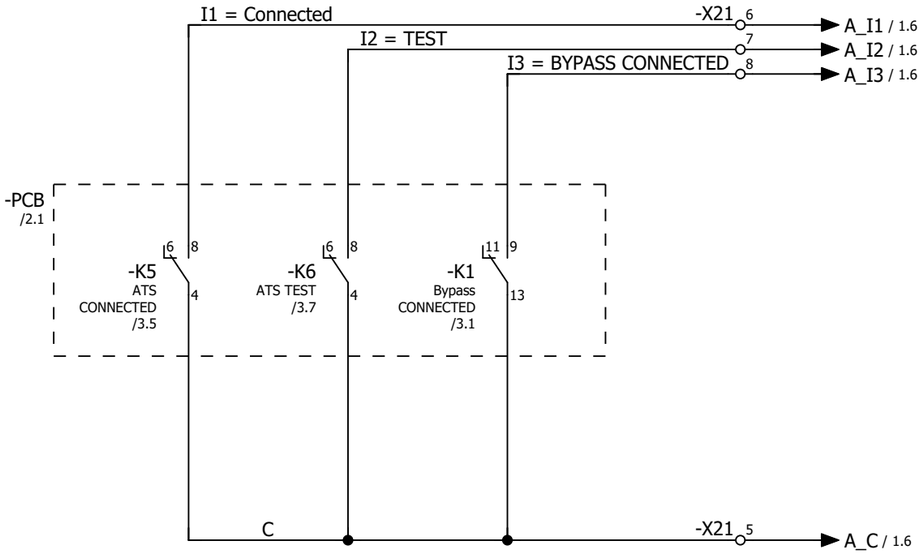
Bypass

Withdrawable position indication



ATS

Withdrawable position indication



COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
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Control voltage

5.8 / +24_A

+24_A / 8.1

-PCB /2.1

-K27 ATS I /8.2

-K30 ATS II /8.3

-X10 8

-X100 4 5

-X10 5 6 7

-BYPASS

-Ekip 2K-1

K11 K13 H11 HC1 H12

ByPass in position I

O11

O12

Bypass in position II

ATS in position I

ATS in position II

K12 K14

-X10 9 10

-PCB /2.1

-K36 ATS 0II /8.8

-K33 ATS 0I /8.6

-K7 ATS TEST /3.8

-X10 14

-X100 6 7

-X10 11 12 13

-Ekip 2K-2

K21 K23 H21 HC2 H22

Bypass in position 0I

O21

O22

Bypass in position 0II

ATS in position O

ATS TEST

K22 K24

-X10 15 16

"local bus"

EKIP_B / 1.3

-PCB /2.1

-K18 Bypass I -V40

-K17 Bypass I -V11

-K20 Bypass II -V12

-K21 Bypass II -V42

-K22 Bypass II -V43

5.8 / -24_A

8 6 4 /10.1 9 11 13 /10.3

8 6 4 /8.4 9 11 13 /9.5

8 6 4 /8.4 9 11 13 /9.6

8 6 4 /10.1 9 11 13 /10.4

Not assembled

-PCB /2.1

-K23 Bypass 0I -V13

-K24 Bypass 0I -V44

-K25 Bypass 0II -V30

-K26 Bypass 0II -V19

-24_A / 8.1

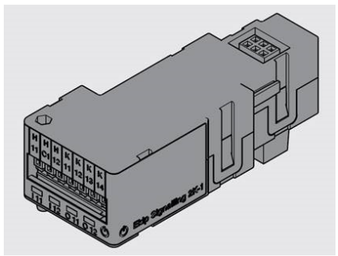
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8 6 4 /9.1 9 11 13 /9.6

8 6 4 /9.2 9 11 13 /9.5

8 6 4 /8.7 9 11 13 /5.2

EKIP SIGNALLING 2K-1, 2K-2



COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
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ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	

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Control voltage

7.9 / +24_A

+24_A / 9.1

-PCB /2.1

-K17 Bypass I /7.2

-K20 Bypass II /7.3

-K26 Bypass 0II /7.8

-K23 Bypass 0I /7.6

-X20 8 14

-X200 4 5 6 7

-X20 5 6 7 11 12 13

-ATS

-Ekip 2K-1

K11 K13 H11 HC1 H12

ATS in position I O11 ATS in position II O12 Bypass in position I Bypass in position II

K12 K14

-Ekip 2K-2

K21 K23 H21 HC2 H22

ATS in position 0I O21 ATS in position 0II O22 Bypass in position O

K22 K24

"local bus"

EKIP_A / 1.6

-X20 9 10 15 16

-PCB /2.1

-K28 ATS I -V34

-K27 ATS I -V14

-K30 ATS II -V15

-K31 ATS II -V36

-K32 ATS II -V37

-K33 ATS 0I -V16

-K34 ATS 0I -V38

-K35 ATS 0II -V31

-K36 ATS 0II -V20

7.9 / -24_A

-24_A / 9.1

8 4 /10.3 6 9 13 /9.1 11

8 4 /7.3 6 9 13 /9.5 11

8 4 /7.4 6 9 13 /9.6 11

8 4 /10.4 6 9 13 /9.2 11

Not assembled

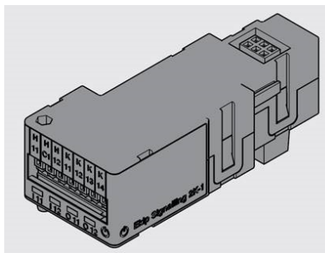
8 4 /7.7 6 9 13 /5.2 11

8 4 /10.1 6 9 13 /10.5 11

8 4 /10.1 6 9 13 /10.3 11

8 4 /7.7 6 9 13 /5.2 11

EKIP SIGNALLING 2K-1, 2K-2



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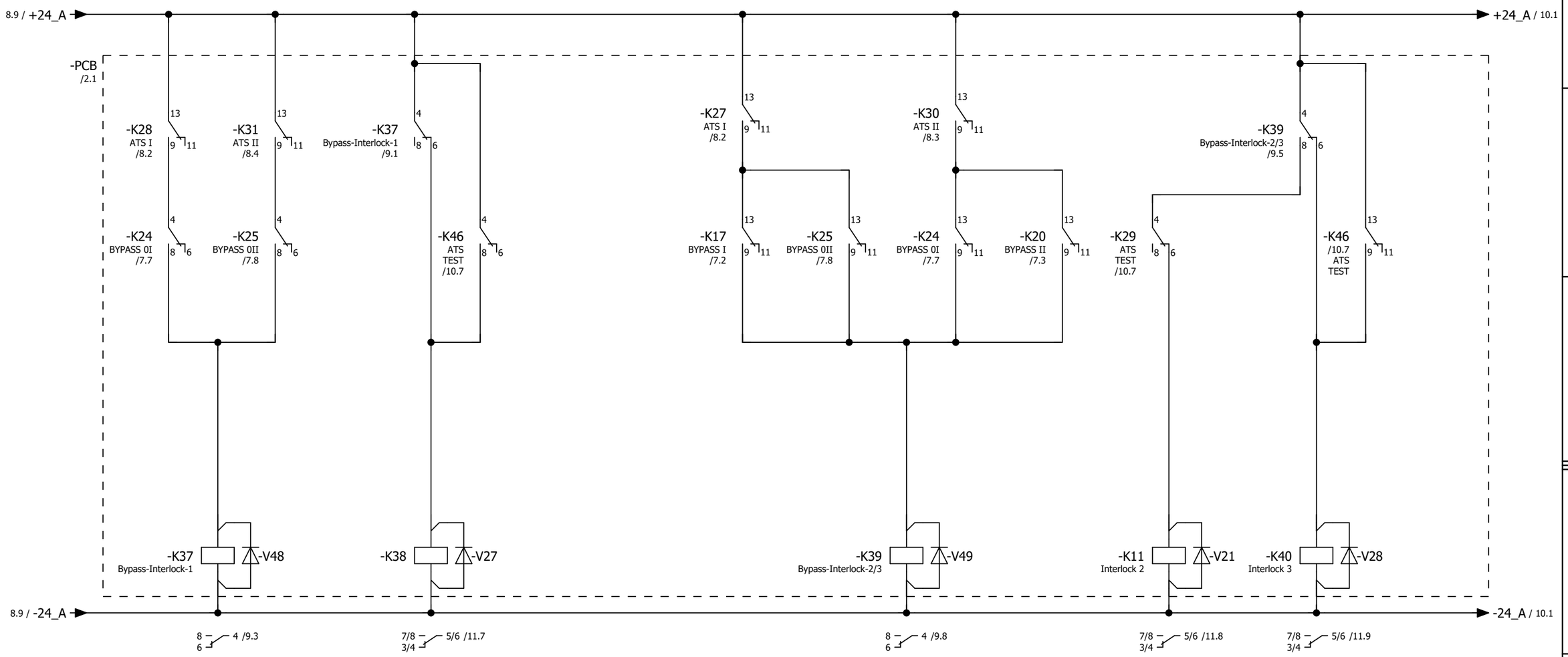
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INTERLOCKS



COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
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9.9 / +24_A

+24_A / 11.1

-PCB
/2.1

-K34
ATS 0I
/8.7

-K35
ATS 0II
/8.8

-K41
ATS-Interlock-1
/10.1

-K28
ATS I
/8.2

-K35
ATS 0II
/8.8

-K31
ATS II
/8.4

-K34
ATS 0I
/8.7

-K43
ATS-Interlock-2/3
/10.4

-K7
ATS TEST
/3.8

-K18
BYPASS I
/7.2

-K21
BYPASS II
/7.4

-K18
BYPASS I
/7.2

-K21
BYPASS II
/7.4

-K41
ATS-Interlock-1
-V46

-K42
-V25

-K43
ATS-Interlock-2/3
-V47

-K12
Interlock 2
-V22

-K44
Interlock 3
-V26

-K46
ATS TEST
-V33

-K29
ATS TEST
-V35

9.9 / -24_A

-24_A / 11.1

8 — 6 — 4 /10.2

7/8 — 3/4 — 5/6 /11.3

8 — 6 — 4 /10.6

7/8 — 3/4 — 5/6 /11.3

7/8 — 3/4 — 5/6 /11.4

8 — 6 — 4 /9.3

9 — 11 — 13 /9.8

8 — 6 — 4 /9.7

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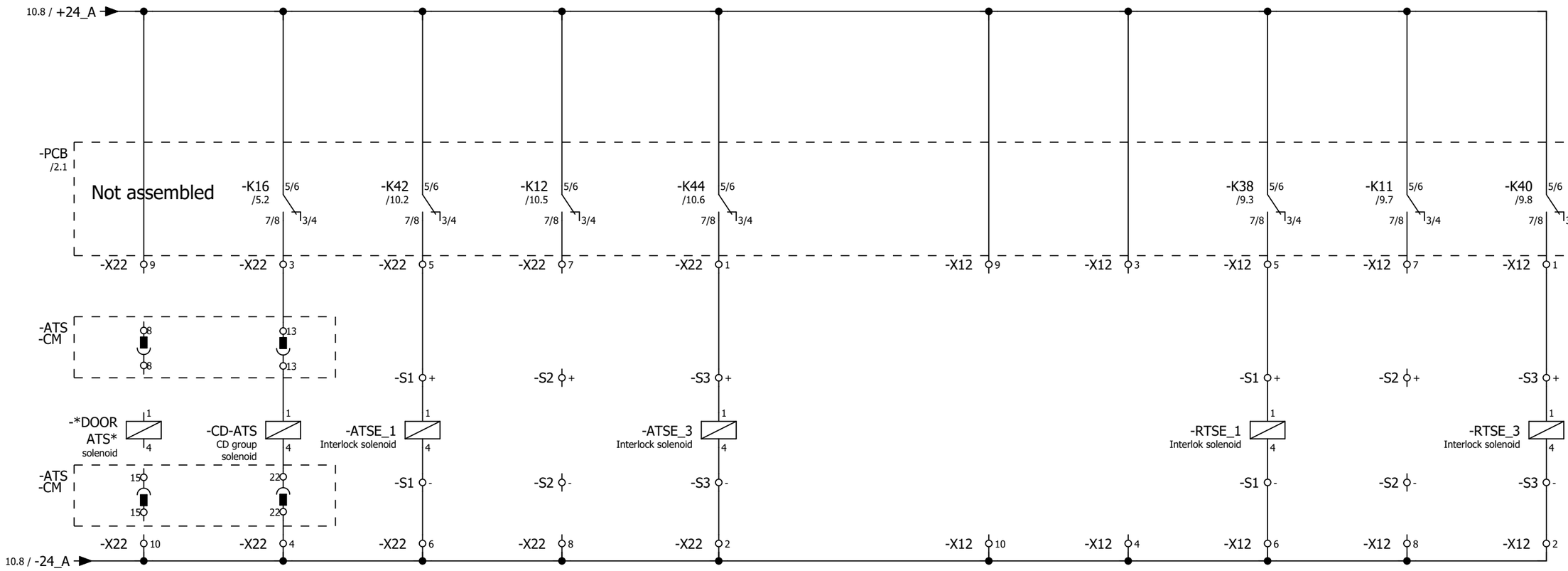
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COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2021-06-08 Jonna Ojala		APPROVED 2021-06-08 Timo Jokiniemi	
ECN NUMBER / ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	

TITLE (FI)		TYPE	SCALE	FORMAT	LANGUAGE	SHEET
			1 : 1	A3	EN/FI	10 / 20
TITLE (EN) BYPASS OVERALL SCHEMATIC DIAGRAM	DOC. NO. ZSBD040-120-1					REV. A

SOLENOID



Energized the CD-group & Door solenoid to lock button

Energized ATSE_1, ATSE_2, ATSE_3 release the solenoid

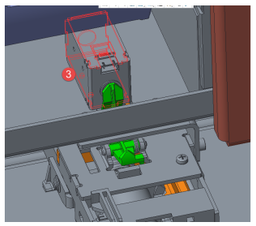
POWER ON = release the solenoid
POWER OFF = locked

Energized the CD-group & Door solenoid to lock button

Energized RTSE_1, RTSE_2, RTSE_3 release the solenoid

POWER ON = release the solenoid
POWER OFF = locked

CD-group solenoid



COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2021-06-08 Jonna Ojala		APPROVED 2021-06-08 Timo Jokiniemi	
ECN NUMBER / ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	

TITLE (FI)	TYPE	SCALE	FORMAT	LANGUAGE	SHEET
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TITLE (EN) BYPASS OVERALL SCHEMATIC DIAGRAM	DOC. NO. ZSBD040-120-1				REV. A

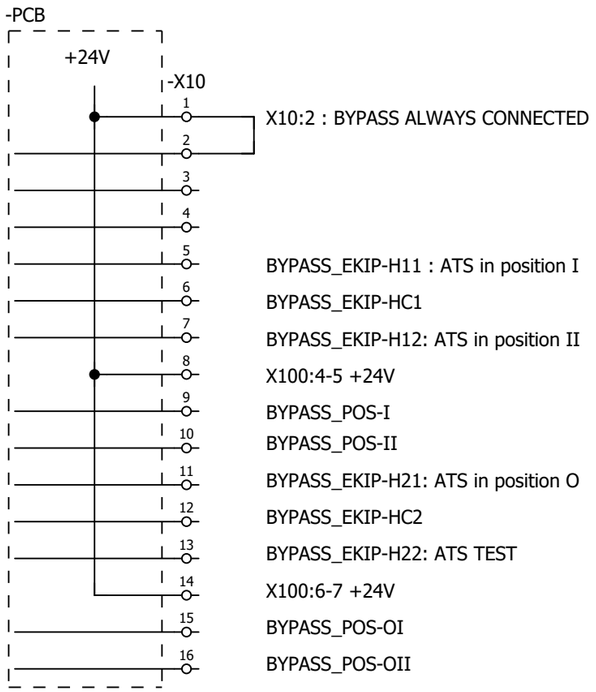
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TERMINALS FOR BYPASS

Terminals connected to the PCBA (Control Plate)



X10:2 : BYPASS ALWAYS CONNECTED

BYPASS_EKIP-H11 : ATS in position I

BYPASS_EKIP-HC1

BYPASS_EKIP-H12: ATS in position II

X100:4-5 +24V

BYPASS_POS-I

BYPASS_POS-II

BYPASS_EKIP-H21: ATS in position O

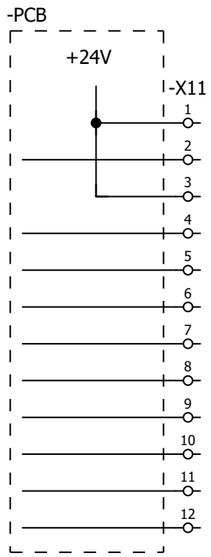
BYPASS_EKIP-HC2

BYPASS_EKIP-H22: ATS TEST

X100:6-7 +24V

BYPASS_POS-OI

BYPASS_POS-OII



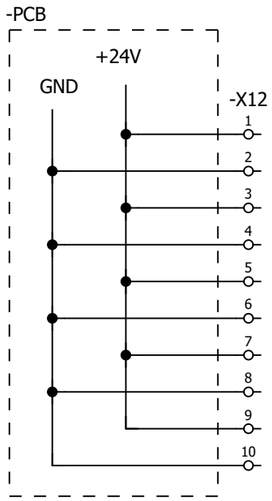
BYPASS_INPUT-C

BYPASS_INPUT-I1: BYPASS Connected

BYPASS_INPUT-I3: ATS Connected

-X12 -X11 -X10

BYPASS Interlock Solenoids:



BYPASS INTERLOCK-3-SOLENOID

NOT ASSEMBLED BYPASS CD-SOLENOID

BYPASS INTERLOCK-1-SOLENOID

NOT ASSEMBLED (BYPASS INTERLOCK-2-SOLENOID)

NOT ASSEMBLED (BYPASS DOOR-SOLENOID)

COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2021-06-08 Jonna Ojala		APPROVED 2021-06-08 Timo Jokiniemi	
ECN NUMBER / ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	
TITLE (FI)		TYPE	SCALE 1 : 1 / FORMAT A3 / LANGUAGE EN/FI	SHEET 12 / 20
TITLE (EN) BYPASS OVERALL SCHEMATIC DIAGRAM		DOC. NO. ZSBD040-120-1		REV. A

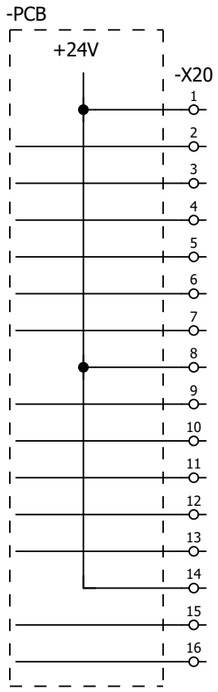
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TERMINALS FOR ATS

Connectors connected to the PCBA (Control Plate)



X200:1-3 +24V

ATS CONNECTED (AUP signalling contacts S75)

ATS TEST (AUP signalling contacts S75)

ATS ISOLATED (AUP signalling contacts S75)

ATS_EKIP-H11: BYPASS in position I

ATS_EKIP-HC1

ATS_EKIP-H12: BYPASS in position II

X200:4-5 +24V

ATS_POS-I

ATS_POS-II

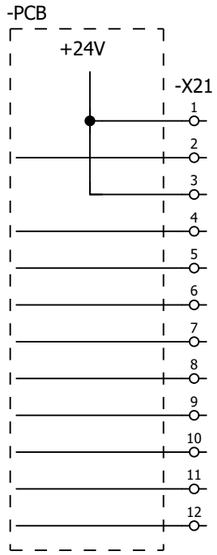
ATS_EKIP-H21: BYPASS in position O

ATS_EKIP-HC2

X200:6-7 +24V

ATS_POS-OI

ATS_POS-OII



+24V

ATS DOOR-Microswitch

+24V

ATS CD-Microswitch

ATS_INPUT-C

ATS_INPUT-I1: ATS Connected

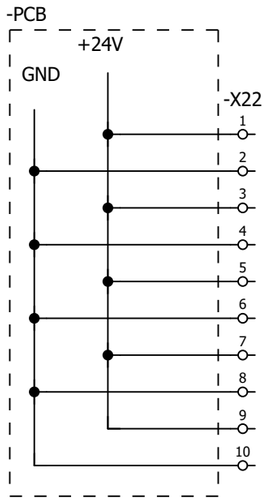
ATS_INPUT-I2: ATS Test

ATS_INPUT-I3: BYPASS Connected

ATS_FIRE FIGHT +

ATS_FIRE FIGHT -

ATS Interlock Solenoids:



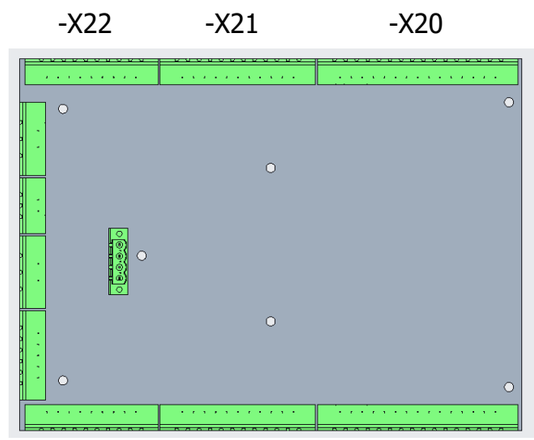
ATS INTERLOCK-3-SOLENOID

ATS CD-SOLENOID

ATS INTERLOCK-1-SOLENOID

NOT ASSEMBLED (ATS INTERLOCK-2-SOLENOID)

NOT ASSEMBLED (ATS DOOR-SOLENOID)



COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2021-06-08 Jonna Ojala		APPROVED 2021-06-08 Timo Jokiniemi	
ECN NUMBER / ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	
TITLE (FI)		TYPE	SCALE 1 : 1 / FORMAT A3 / LANGUAGE EN/FI	SHEET 13 / 20
TITLE (EN) BYPASS OVERALL SCHEMATIC DIAGRAM		DOC. NO. ZSBD040-120-1		REV. A

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Control voltage for solenoid

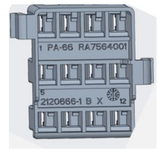
S1 (Normal Supply) BUSBAR

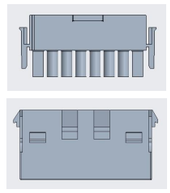
S1_L1
S1_L2
S1_L3
S1_N

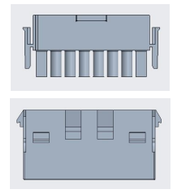
Fixed side

-ATS
-CM_VOLT.

Moving side







Bypass
OXB_

-S1: L3
-S1:N
-S1:L1
-S1:L2

-S2: L3
-S2:N
-S2:L1
-S2:L2

BYPASS
switch

ATS
OXB_

-S1:L3
-S1:N
-S1:L1
-S1:L2

-S2:L3
-S2:N
-S2:L1
-S2:L2

ATS
switch

-ATS
-CM_VOLT.

S2_L1
S2_L2
S2_L3
S2_N

S2 (Emergency Supply) BUSBAR

COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2021-06-08 Jonna Ojala		APPROVED 2021-06-08 Timo Jokiniemi	
ECN NUMBER / ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	

TITLE (FI)	TYPE	SCALE	FORMAT	LANGUAGE	SHEET
		1 : 1	A3	EN/FI	14 / 20
TITLE (EN) BYPASS OVERALL SCHEMATIC DIAGRAM	DOC. NO. ZSBD040-120-1				REV. A

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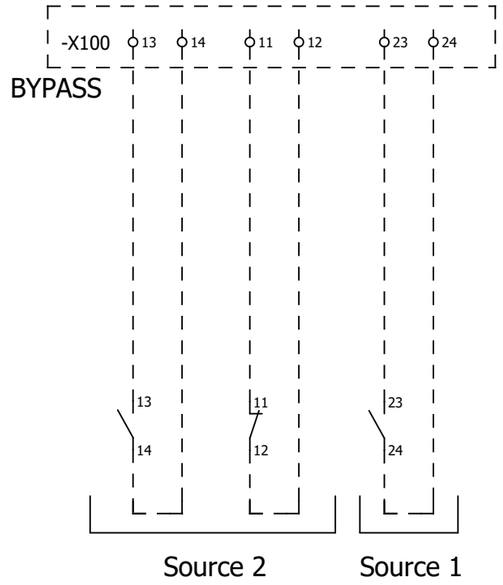
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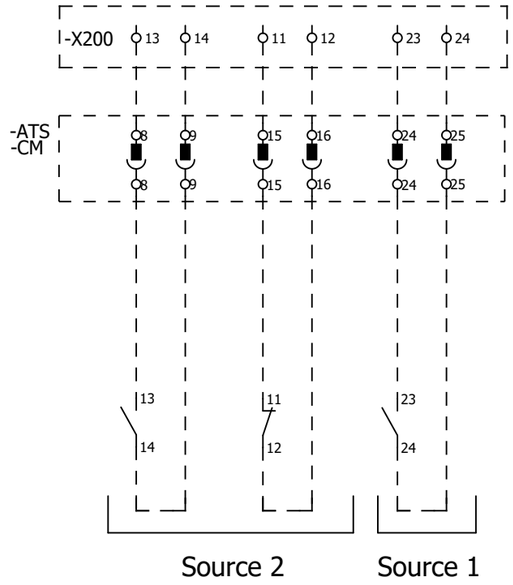
AUXILIARY CONTACT BLOCKS

FIXED & WITHDRAWABLE VERSION
MAX. 3 pcs.
For example:
Source 1 (S1) 1pcs
Source 2 (S2) 2pcs

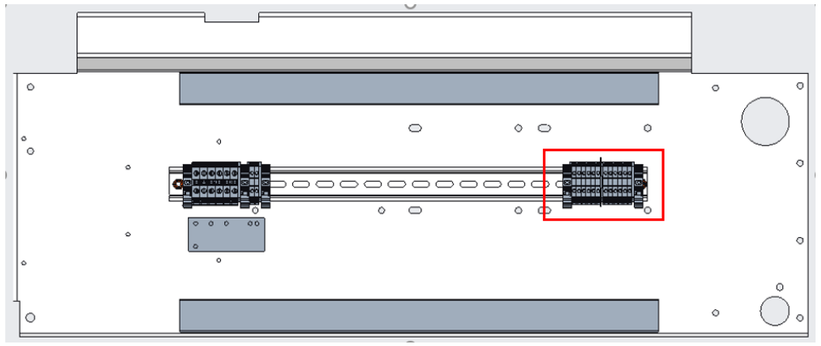
ASSEMBLY IN FACTORY

NOTE!
Terminal numbers according to the auxiliary contact blocks.





Terminals located on front side of Control Plate:



COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2021-06-08 Jonna Ojala		APPROVED 2021-06-08 Timo Jokiniemi	
ECN NUMBER / ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	

TITLE (FI)	TYPE	SCALE	FORMAT	LANGUAGE	SHEET
		1 : 1	A3	EN/FI	15 / 20
TITLE (EN) AUXILIARY CONTACT BLOCKS	DOC. NO. ZSBD040-120-1				REV. A

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INPUT/OUTPUT PACKAGES PROGRAMMING

Bypass Isolation Automatic Transfer Switching Equipment has 5 Input/Output packages; Base, Plus, Controls, Flex, Motor and makes use of Ekip Connect option modules.
The value of IO is refer to below table.

NOTE:
1. PROGRAM THE INPUT AND OUTPUT FEATURES AS "NO" CONTACT.

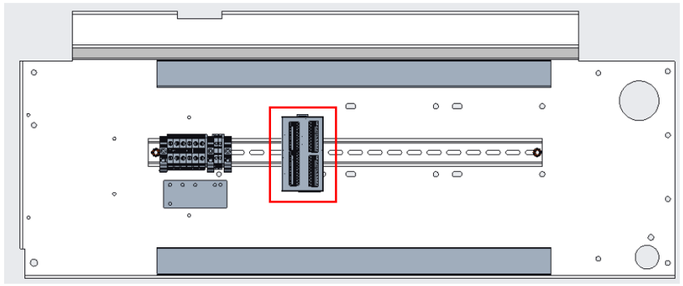
These are fix programmed contact for Bypass functionality use. It is not available for customer use:

ATS INPUTS		**Base (B)**	**Plus (P)**	**Controls (C)**	**Flex (F)**	**Motor (M)**
FIELD	**TERMINAL**	**VALUE**	**VALUE**	**VALUE**	**VALUE**	**VALUE**
Embedded	I1	ATS Connected	ATS Connected	ATS Connected	ATS Connected	ATS Connected
Embedded	I2	ATS TEST	ATS TEST	ATS TEST	ATS TEST	ATS TEST
Embedded	I3	Bypass Connected	Bypass Connected	Bypass Connected	Bypass Connected	Bypass Connected
Ekip 2K-1	I11	BYPASS IN I	BYPASS IN I	BYPASS IN I	BYPASS IN I	BYPASS IN I
Ekip 2K-1	I12	BYPASS IN II	BYPASS IN II	BYPASS IN II	BYPASS IN II	BYPASS IN II
Ekip 2K-2	I21	BYPASS IN O	BYPASS IN O	BYPASS IN O	BYPASS IN O	BYPASS IN O
Ekip 2K-2	I22	BYPASS TEST	BYPASS TEST	BYPASS TEST	BYPASS TEST	BYPASS TEST

Available for customer use:

ATS INPUTS		**Base (B)**	**Plus (P)**	**Controls (C)**	**Flex (F)**	**Motor (M)**
FIELD	**TERMINAL**	**VALUE**	**VALUE**	**VALUE**	**VALUE**	**VALUE**
Ekip 2K-3	I31	No function	Not available	Not available	Not available	Not available
Ekip 2K-3	I32	No function	Not available	Not available	Not available	Not available
Ekip 10K	I S01	Not available	Test on Load **(for Switch)**	Remote Inhibit ATS	Test on Load **(for Switch)**	Test on Load **(for Switch)**
Ekip 10K	I S02	Not available	Test off Load **(for Switch)**	Remote Bypass Running Time Delays	Test off Load **(for Switch)**	Test off Load **(for Switch)**
Ekip 10K	I S03	Not available	Remote Test on Load/Peak Shave	Remote Test on Load/Peak Shave	Remote Test on Load/Peak Shave	Remote Test on Load/Peak Shave
Ekip 10K	I S04	Not available	Remote Inhibit ATS **(for Switch)**	Remote Manual Re-Transfer	Remote Manual Re-Transfer	Remote Manual Re-Transfer
Ekip 10K	I S05	Not available	No function	Load Shed Input Signal	Load Shed Input Signal	Load Shed Input Signal
Ekip 10K	I S06	Not available	No function	Remote Inhibit Transfer to non-priority	Remote Inhibit ATS **(for Switch)**	Remote Inhibit Transfer to non-priority
Ekip 10K	I S07	Not available	No function	No function	No function	Remote Inhibit ATS
Ekip 10K	I S08	Not available	No function	No function	No function	Remote Inhibit ATS **(for Switch)**
Ekip 10K	I S09	Not available	No function	No function	No function	No function
Ekip 10K	I S10	Not available	No function	No function	No function	No function

ATS Ekip 10K located on front side of the Control Plate:



ATS Ekip 2K-3 located on Connection module (lower switch):



COLOR		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2022-04-12 Jonna Ojala		APPROVED 2022-04-12 Timo Jokiniemi	
ECN NUMBER / ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power	DEPARTMENT FIELSP		TOLERANCES	

TITLE (FI)	TYPE	SCALE	FORMAT	LANGUAGE	SHEET
		1 : 1	A3	EN/FI	16 / 20
TITLE (EN) CUSTOMER I/O DIAGRAM	DOC. NO. ZSBD040-120-1				REV. A

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INPUT/OUTPUT PACKAGES PROGRAMMING

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NOTE:
1. PROGRAM THE INPUT AND OUTPUT FEATURES AS "NO" CONTACT.

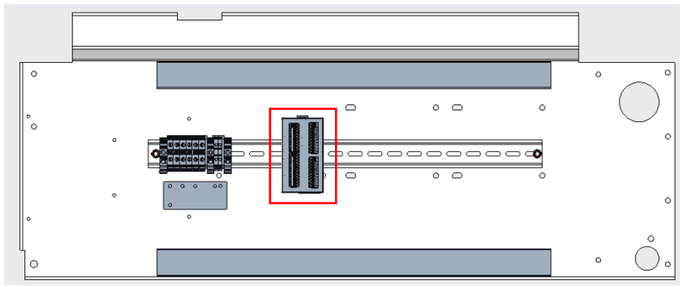
These are fix programmed contact for Bypass functionality use. It is not available for customer use:

ATS OUTPUTS		**Base (B)**	**Plus (P)**	**Controls (C)**	**Flex (F)**	**Motor (M)**
FIELD	**TERMINAL**	**VALUE**	**VALUE**	**VALUE**	**VALUE**	**VALUE**
Ekip 2K-1	O11	ATS IN POSITION I	ATS IN POSITION I	ATS IN POSITION I	ATS IN POSITION I	ATS IN POSITION I
Ekip 2K-1	O12	ATS IN POSITION II	ATS IN POSITION II	ATS IN POSITION II	ATS IN POSITION II	ATS IN POSITION II
Ekip 2K-2	O21	ATS IN POSITION OI	ATS IN POSITION OI	ATS IN POSITION OI	ATS IN POSITION OI	ATS IN POSITION OI
Ekip 2K-2	O22	ATS IN POSITION OII	ATS IN POSITION OII	ATS IN POSITION OII	ATS IN POSITION OII	ATS IN POSITION OII

Available for customer use:

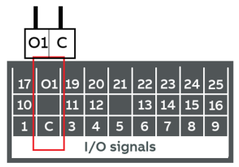
ATS OUTPUTS		**Base (B)**	**Plus (P)**	**Controls (C)**	**Flex (F)**	**Motor (M)**
FIELD	**TERMINAL**	**VALUE**	**VALUE**	**VALUE**	**VALUE**	**VALUE**
Embedded	O1	No function	No function	No function	No function	No function
Ekip 2K-3	O31	No function	Not available	Not available	Not available	Not available
Ekip 2K-3	O32	No function	Not available	Not available	Not available	Not available
Ekip 10K	O S01	Not available	**Transfer Alarm**	**Transfer Alarm**	**Transfer Alarm**	**Transfer Alarm**
Ekip 10K	O S02	Not available	S1 Available/Not Available Indication	S1 Available/Not Available Indication	S1 Available/Not Available Indication	S1 Available/Not Available Indication
Ekip 10K	O S03	Not available	S2 Available/Not Available Indication	S2 Available/Not Available Indication	S2 Available/Not Available Indication	S2 Available/Not Available Indication
Ekip 10K	O S04	Not available	No function	Elevator Pre-Transfer Signal	Elevator Pre-Transfer Signal	Elevator Pre-Transfer Signal
Ekip 10K	O S05	Not available	No function	Pre-Transfer Signal	Pre-Transfer Signal	Elevator Pre-Transfer Signal
Ekip 10K	O S06	Not available	No function	No function	No function	Pre-Transfer Signal
Ekip 10K	O S07	Not available	No function	No function	No function	Pre-Transfer Signal
Ekip 10K	O S08	Not available	No function	No function	No function	Load Disconnected Indication
Ekip 10K	O S09	Not available	No function	No function	No function	No function
Ekip 10K	O S10	Not available	No function	No function	No function	No function

ATS Ekip 10K located on front side of the Control Plate:



ATS Ekip 2K-3 / Embedded O1 located on Connection module (lower switch):





COLOR: 2021-06-08 Jonna Ojala		UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS	
RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA	
CREATED	MODIFIED: 2022-04-12 Jonna Ojala		APPROVED: 2022-04-12 Timo Jokiniemi		
ECN NUMBER	ECN DATE	CONCERNING: Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE: ZSBD040-120-1-Z31	
ORGANIZATION: ABB Oy, Smart Power		DEPARTMENT: FIELSP		TOLERANCES	
ABB	TITLE (FI)		TYPE	SCALE: 1 : 1	FORMAT: A3 / LANGUAGE: EN/FI / SHEET: 17 / 20
	TITLE (EN): CUSTOMER I/O DIAGRAM		DOC. NO.: ZSBD040-120-1		REV.: A

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INPUT/OUTPUT PACKAGES PROGRAMMING

Bypass Isolation Automatic Transfer Switching Equipment has 5 Input/Output packages; Base, Plus, Controls, Flex, Motor and makes use of Ekip Connect option modules.
The value of IO is refer to below table.

NOTE:
1. PROGRAM THE INPUT AND OUTPUT FEATURES AS "NO" CONTACT.

These are fix programmed contact for Bypass functionality use. It is not available for customer use:

BYPASS INPUTS		**Base (B)**	**Plus (P)**	**Controls (C)**	**Flex (F)**	**Motor (M)**
FIELD	**TERMINAL**	**VALUE**	**VALUE**	**VALUE**	**VALUE**	**VALUE**
Embedded	I1	Bypass Connected	Bypass Connected	Bypass Connected	Bypass Connected	Bypass Connected
Embedded	I2	Bypass TEST	Bypass TEST	Bypass TEST	Bypass TEST	Bypass TEST
Embedded	I3	ATS Connected	ATS Connected	ATS Connected	ATS Connected	ATS Connected
Ekip 2K-1	I11	ATS IN I	ATS IN I	ATS IN I	ATS IN I	ATS IN I
Ekip 2K-1	I12	ATS IN II	ATS IN II	ATS IN II	ATS IN II	ATS IN II
Ekip 2K-2	I21	ATS IN O	ATS IN O	ATS IN O	ATS IN O	ATS IN O
Ekip 2K-2	I22	ATS TEST	ATS TEST	ATS TEST	ATS TEST	ATS TEST

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CREATED 2021-06-08 Jonna Ojala		MODIFIED 2022-04-12 Jonna Ojala		APPROVED 2022-04-12 Timo Jokiniemi	
ECN NUMBER	ECN DATE	CONCERNING Zenith ZBTS(D) T-series 100-1200A		DRAWING FILE ZSBD040-120-1-Z31	
ORGANIZATION ABB Oy, Smart Power		DEPARTMENT FIELSP		TOLERANCES	
TITLE (FI)		TYPE	SCALE 1 : 1	FORMAT A3	LANGUAGE EN/FI	SHEET 18 / 20
TITLE (EN) CUSTOMER I/O DIAGRAM		DOC. NO. ZSBD040-120-1			REV. A

INPUT/OUTPUT PACKAGES PROGRAMMING

Bypass-Isolation Automatic Transfer Switches have 5 Input/Output packages; Base, Plus, Controls, Flex, Motor and makes use of Ekip Connect option modules.
The value of IO is refer to below table.

NOTE:
1. PROGRAM THE INPUT AND OUTPUT FEATURES AS "NO" CONTACT.

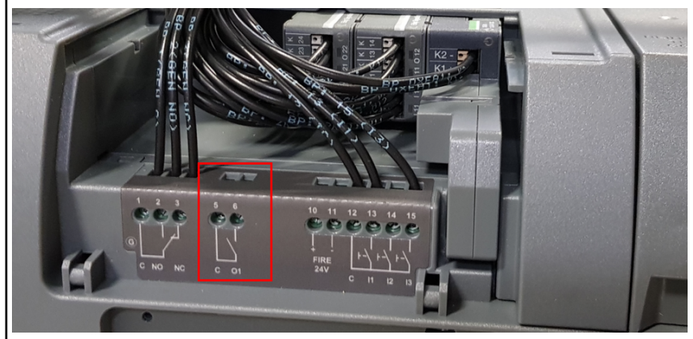
These are fix programmed contact for Bypass functionality use. It is not available for customer use:

BYPASS OUTPUTS		**Base (B)**	**Plus (P)**	**Controls (C)**	**Flex (F)**	**Motor (M)**
FIELD	**TERMINAL**	**VALUE**	**VALUE**	**VALUE**	**VALUE**	**VALUE**
Ekip 2K-1	O11	ATS IN POSITION I	ATS IN POSITION I	ATS IN POSITION I	ATS IN POSITION I	ATS IN POSITION I
Ekip 2K-1	O12	ATS IN POSITION II	ATS IN POSITION II	ATS IN POSITION II	ATS IN POSITION II	ATS IN POSITION II
Ekip 2K-2	O21	ATS IN POSITION OI	ATS IN POSITION OI	ATS IN POSITION OI	ATS IN POSITION OI	ATS IN POSITION OI
Ekip 2K-2	O22	ATS IN POSITION OII	ATS IN POSITION OII	ATS IN POSITION OII	ATS IN POSITION OII	ATS IN POSITION OII

Available for customer use:

BYPASS OUTPUTS		**Base (B)**	**Plus (P)**	**Controls (C)**	**Flex (F)**	**Motor (M)**
FIELD	**TERMINAL**	**VALUE**	**VALUE**	**VALUE**	**VALUE**	**VALUE**
Embedded	O1	No function	No function	No function	No function	No function

Bypass Embedded O1 located on upper switch:



COLOR			UNMARKED ROUNDINGS	UNMARKED DRAFTS	INSPECTED DIMENSIONS
RAW MATERIAL	MATERIAL NORM		NET WEIGHT	VOLUME	AREA
CREATED 2021-06-08 Jonna Ojala	MODIFIED 2022-04-12 Jonna Ojala			APPROVED 2022-04-12 Timo Jokiniemi	
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TITLE (FI)			TYPE	SCALE 1 : 1	FORMAT A3
TITLE (EN) CUSTOMER I/O DIAGRAM			DOC. NO. ZSBD040-120-1		REV. A

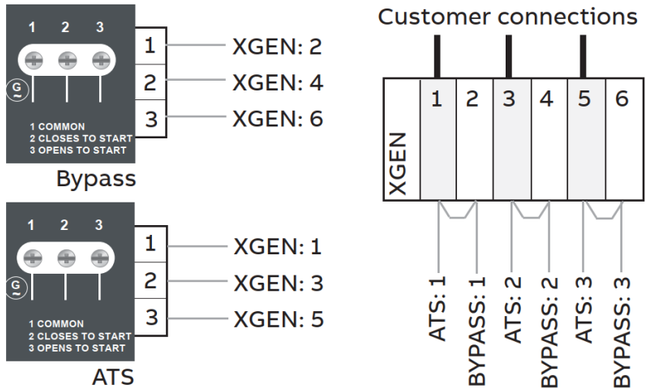
Proprietary and Secret Information

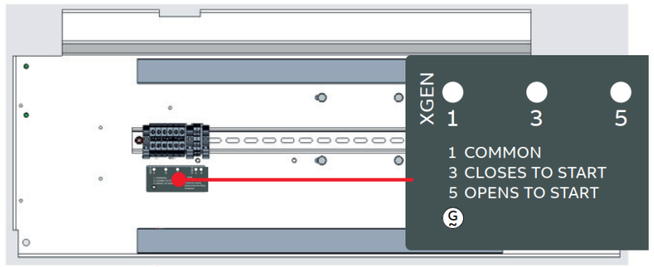
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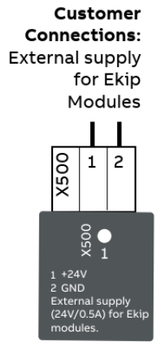
CUSTOMER CONNECTION POINTS:

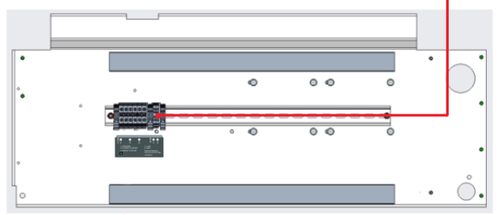
Generator START/STOP on Control Plate:





Ext. voltage supply on Control Plate:





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RAW MATERIAL	MATERIAL NORM	NET WEIGHT	VOLUME	AREA
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TITLE (FI)		TYPE	SCALE	FORMAT	LANGUAGE	SHEET
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TITLE (EN) CUSTOMER I/O DIAGRAM		DOC. NO. ZSBD040-120-1				REV. A