



TYPE APPROVAL CERTIFICATE



N. ELE303419CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA Type Approval system.

<i>Description</i>	Monitoring, Protection and Control system for low voltage plants
<i>Type</i>	EKIP-UP
<i>Applicant</i>	ABB S.P.A. ABB SACE DIVISION Via Pescaria , 5 24123 Bergamo ITALY
<i>Manufacturer</i>	ABB S.P.A. ABB SACE DIVISION Via Enrico Fermi, 14 03100 Frosinone ITALY
<i>Testing Standards</i>	Rules for the Classification of Ships – Part C – Machinery Systems and Fire protection – Ch. 3 Sect. 6, Tab. 1

Issued in Genova on October 28, 2019

This certificate is valid until October 28, 2024

RINA Services S.p.A.

Giovanni Carratino



TYPE APPROVAL CERTIFICATE



N. ELE303419CS

EKIP-UP Monitoring, Protection and Control system for low voltage plants

EKIP-UP operates in low voltage grids according to the following ranges and characteristics:

Operating voltage, U_e [V]	Up to 1000
Operating current, I_n [A]	From 100 to 6300
Operating frequency, Hz	50 - 60
Protection degree, IP	40

Ekip UP Versions

Type	Ordering Codes
EKIP UP MONITOR	1SDA 083359R1
EKIP UP PROTECT	1SDA 083360R1
EKIP UP PROTECT +	1SDA 083361R1
EKIP UP CONTROL	1SDA 083362R1
EKIP UP CONTROL +	1SDA 083363R1

System Submodules :

Optional Accessories / Type	Ordering Codes
Ekip supply module 24 -48V	1SDA074173R1
Ekip measuring module	1SDA074184R1
Ekip 2K-1 signalling module	1SDA074167R1
Ekip 4K signalling module	1SDA074170R1
Ekip 3T-1 AI signalling module	1SDA085693R1
Ekip Synchrocheck	1SDA074183R1
Ekip Com Modbus RS-485	1SDA074150R1
Ekip Com R Modbus RS485	1SDA074157R1
Ekip Com Modbus TCP	1SDA074151R1
Ekip Com R Modbus TCP	1SDA074158R1
External AC/DC p.s. module CP-D24/0.42	1SVR427041R0000
CS 100-2000A 3P type A	1SDA083368R1
CS 100-2000A 4P type A	1SDA083369R1
CS 2000-4000A 3P type A	1SDA083370R1
CS 2000-4000A 4P type A	1SDA083371R1
CS 100-400A 3P type B	1SDA083364R1
CS 100-400A 4P type B	1SDA083365R1
CS 400-1600 3P type B	1SDA083366R1
CS 400-1600A 4P type B	1SDA083367R1
CS 400-2500A 3P type B shaped	1SDA085561R1
CS 400-2500A 4P type B shaped	1SDA085562R1
Open CS 3P type C 80	1SDA085566R1
Open CS 4P type C 80	1SDA085564R1
Open CS 3P type C 120	1SDA083372R1
Open CS 4P type C 120	1SDA083373R1
Open CS 3P type C 200	1SDA085565R1
Open CS 4P type C 200	1SDA085563R1
Open CS 3P type C 290	1SDA107696R1
Open CS 4P type C 290	1SDA107695R1

ABB Technical specifications

Manual on use, installation, configuration and maintenance for the installing technician and user:

doc. 1SDH002003A1002 ECN000071509 Rev. A

Ekip UP General catalogue n. 1SDC001051D0901; Ekip UP Technical catalogue n. 1SDC001051D0201(2019.07)

Test Reports

ABB reports LBRP 15415/00 Rev. 0 (2017/10/30); LBRP 15530/00 Rev. 0 (2017/10/30)

Nemko report 326919-1 TRFEMC (2017/06/12); ABB report n. 22549 (2017/05/24)

ABB reports LBRP 16267/00 rev. 0 (2017/10/30); LBRP 16418/00 rev. 0 (2017/10/23)

ABB reports LBRP 15413/00 (2017/10/27); LBRP 15649/00 rev. 0 (2017/10/27)

ABB reports LBRP 17609/00 Rev.0 (2019/03/26); ABB reports n. 22790 (2019/02/19)

General remark

For each specific installation on board, the functionalities implemented in EKIP-UP Unit are to be verified and previously approved, in accordance with the drawing approval procedure for the Classification of a Ships.