



TYPE APPROVAL CERTIFICATE



N. ELE197619CS003

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>	Contactors
<i>Type</i>	MC1...
<i>Applicant</i>	ABB Stotz Kontakt GmbH Eppelheimer Strasse, 82 69123 Heidelberg Germany
<i>Manufacturer</i>	ABB Industrial Solution Sp. z.o.o. Ul. Pilsudskiego, 5 57300 Kłodzko Poland
<i>Testing Standards</i>	Rules for the Classification of Ships. Machinery, Systems and Fire protection, Part C, Ch. 2, Sec. 8

Issued in **Genova** on **June 19, 2019**

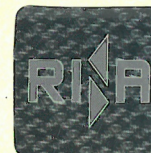
This Certificate is valid until **June 19, 2024**

RINA Services S.p.A.

Valerio Bonanni



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Motor Starter consisting of:

3P, 4P Contactor type: MC1...

Rated insulation Voltage (Ui)	V	750	750	750	750	750	750	750
Rated Frequency	Hz	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Ambient temperature	°C	45	45	45	45	45	45	45
Rated thermal current (Ith)	A	20	20	20	20	20	20	20
Rated operational voltage (Ue)	V	690	400	500	690	400	500	690
Rated operational current (Ie)	A	20	9	8	6	9	8	6
Utilization category		AC-1	AC-3	AC-3	AC-3	AC-4	AC-4	AC-4
Rated prospective short-circuit current "r"	A	1 kA						
Rated conditional short circuit current (Iq)	A	50 kA						
Type of co-ordination		Type 2						
Rated impulse withstand voltage (Uimp)	V	6 kV						

Auxiliary Contact

Rated insulation Voltage (Ui): 750 (V)

Rated conditional short circuit current (Iq): 1 kA

AC-15: Ue/Ie: 120V/ 6A, 240V/ 6A, 400V/ 4A, 500V/ 2.5A, 690V/ 1.5A;

DC-13: Ue/Ie: 24V/ 5A, 48V/ 3.5A, 125V/ 1.2A, 250V/ 0.6A, 440V/ 0.25A

Three poles thermal overload relays type T16

Rated operational voltage (Ue) 690V

Rated insulation voltage (Ui) 690V

Rated impulse withstand voltage (Uimp): 6 kV

Rated frequency: 50/ 60 Hz

Rated duty: Uninterrupted duty

Rated prospective short-circuit current "r" : 1 kA

Rated conditional short-circuit current (Iq) : 35 kA

SCPD: Fuses

Trip Class: 10

Model	Range (A)	Fuse
T16/0,13	0,10-0,13	0,5 AT
T16/0,17	0,13-0,17	1 AT
T16/0,23	0,17-0,23	1 AT
T16/0,31	0,23-0,31	1 AT
T16/0,41	0,31-0,41	2 A gG
T16/0,55	0,41-0,55	2 A gG
T16/0,74	0,55-0,74	4 A gG
T16/1,0	0,74-1,0	6 A gG
T16/1,3	1,0-1,3	6 A gG
T16/1,7	1,3-1,7	10 A gG
T16/2,3	1,7-2,3	10 A gG
T16/3,1	2,3-3,1	10 A gG
T16/4,2	3,1-4,2	20 A gG
T16/5,7	4,2-5,7	20 A gG
T16/7,6	5,7-7,6	35 A gG
T16/10	7,6-10	35 A gG
T16/13	10-13	40 A gG
T16/16	13-16	40 A gG



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Auxiliary contact block

Utilization Category	Ue (V)	Ie (A)	
		NC (95/96)	NO (97/98)
AC-15	120V	3A	0,75A
	240V	3A	0,75A
	380V	0,95A	0,75A
	500V	0,75A	0,75A
	600V	0,6A	-
DC-13	24V	1,25A	1,25A
	60V	0,55A	0,55A
	125V	0,55A	0,55A
	250V	0,27A	0,27A
	500V	0,15A	0,15A
	600V	0,1A	0,1A

Accessories:

- side and front mounted auxiliary contacts blocks type MACN... / MACL... / MARN... / MARL...
- transient voltage suppressor type MPO
- mechanical interlock type MMHO

Test report:

SGS Belgium NV-Division SGS CEBEC Testing Laboratory
Reports n. 58293101/00 to 58293101/37 (06/07/2010)

SGS Belgium NV-Division SGS CEBEC Testing Laboratory
CB Test Certificate n. BE-2537 (2010-09-07)

Shanghai Testing & Inspection Institute for Electrical Equipment Co. Ltd. (STIEE)
Report n. 00901-CB2019CQC-085551 (14/05/2019)

Note:

This certificate supersedes and annuls the certificate n. ELE197619CS001 issued on June 12, 2019