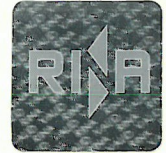




TYPE APPROVAL CERTIFICATE



N. ELE269219CS

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

Description	Motor Protection circuit breaker
Type	140MP-A3E- * ; KTA5-32A-*
Applicant	Rockwell Automation Switzerland GmbH Industriestrasse 20 CH-5000 Aarau Switzerland
Manufacturer	Rockwell Automation Inc 1201 South Second Street, Milwaukee, Wi 53204 USA
Reference Standards	IEC 60947-2:2016; IEC 60947-4-1:2018; IEC 60947-5-1:2016

Issued in **Genova** on **September 23, 2019**.

This certificate is valid until **September 23, 2024**

RINA Services S.p.A.

Giovanni Carratino



TYPE APPROVAL CERTIFICATE



N. ELE269219CS

3 Phase Motor Protection circuit breaker Series 140MP-A3E-* and KTA5-32A-*

Main features

Insulation voltage U_i : 690V

Rated operational voltage U_e : AC230/400/440/500/690V

Rated impulse withstand voltage U_{imp} : 6kV

Frequency: 50/60 Hz

Trip Class: 10A; Selectivity Category : A ; Utilization Category : AC-3, AC-3e; Suitable for isolation ; IP20 Housing; IP10 Main circ. terminals

Rated current I_n : (current setting)

0.1-0.16A, 0.16-0.25A, 0.25-0.4, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A, 1.6-2.5A, 2.5-4.0A, 4.0-6.3A, 6.3-10A, 8-12A, 10-16A, 16-20A, 20-25A, 25-32A

Over current release type : Thermal magnetic

AC 230/400V:

Rated service short circuit breaking capacity I_{cs}

$I_{cs} = 50$ kA (0.1-0.16A, 0.16-0.25A, 0.25-0.4A, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A, 1.6-2.5A, 2.5-4.0A, 4.0-6.3A, 6.3-10A)

$I_{cs} = 25$ kA (8-12A)

$I_{cs} = 16$ kA (10-16A)

$I_{cs} = 10$ kA (16-20A, 20-25A, 25-32A)

Rated ultimate short circuit breaking capacity I_{cu}

$I_{cu} = 100$ kA (0.1-0.16A, 0.16-0.25A, 0.25-0.4A, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A)

$I_{cu} = 75$ kA (1.6-2.5A, 2.5-4.0A),

$I_{cu} = 50$ kA (4.0-6.3A, 6.3-10A, 8-12A)

$I_{cu} = 16$ kA (10-16A, 16-20A, 20-25A, 25-32A)

AC 440V:

Rated service short circuit breaking capacity I_{cs}

$I_{cs} = 50$ kA (0.1-0.16A, 0.16-0.25A, 0.25-0.4A, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A)

$I_{cs} = 10$ kA (1.6-2.5A)

$I_{cs} = 6$ kA (2.5-4.0A, 4.0-6.3A, 6.3-10A, 8-12A, 10-16A)

$I_{cs} = 3$ kA (16-20A, 20-25A, 25-32A)

Rated ultimate short circuit breaking capacity I_{cu}

$I_{cu} = 100$ kA (0.1-0.16A, 0.16-0.25A, 0.25-0.4A, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A)

$I_{cu} = 30$ kA (1.6-2.5A)

$I_{cu} = 18$ kA (2.5-4.0A, 4.0-6.3A, 6.3-10A)

$I_{cu} = 15$ kA (8-12A, 10-16A, 16-20A, 20-25A, 25-32A)

AC 500V:

Rated service short circuit breaking capacity I_{cs}

$I_{cs} = 30$ kA (0.1-0.16A, 0.16-0.25A, 0.25-0.4A, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A)

$I_{cs} = 10$ kA (1.6-2.5A)

$I_{cs} = 6$ kA (2.5-4.0A, 4.0-6.3A, 6.3-10A, 8-12A)

$I_{cs} = 4$ kA (10-16A)

$I_{cs} = 3$ kA (16-20A, 20-25A, 25-32A)

Rated ultimate short circuit breaking capacity I_{cu}

$I_{cu} = 100$ kA (0.1-0.16A, 0.16-0.25A, 0.25-0.4A, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A)

$I_{cu} = 20$ kA (1.6-2.5A)

$I_{cu} = 15$ kA (2.5-4.0A)

$I_{cu} = 10$ kA (4.0-6.3A, 6.3-10A, 8-12A, 10-16A, 16-20A, 20-25A, 25-32A)

AC 690V:

Rated service short circuit breaking capacity I_{cs}

$I_{cs} = 30$ kA (0.1-0.16A, 0.16-0.25A, 0.25-0.4A, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A)

$I_{cs} = 5$ kA (1.6-2.5A)

$I_{cs} = 2$ kA (2.5-4.0A, 4.0-6.3A, 6.3-10A, 8-12A, 10-16A, 16-20A, 20-25A, 25-32A)

Rated ultimate short circuit breaking capacity I_{cu}

$I_{cu} = 100$ kA (0.1-0.16A, 0.16-0.25A, 0.25-0.4A, 0.4-0.63A, 0.63-1.0A, 1.0-1.6A)

$I_{cu} = 10$ kA (1.6-2.5A)

$I_{cu} = 3$ kA (2.5-4.0A, 4.0-6.3A, 6.3-10A, 8-12A, 10-16A, 16-20A, 20-25A, 25-32A)



TYPE APPROVAL CERTIFICATE



N. ELE269219CS

Auxiliary contacts:

140MP-A-AFA-* ; KT5-PE1-*

Rated thermal current **I_{th}**: 5A

U_i: 250V; **U_{imp}**: 6kV

Frequency: 50/60Hz

Contacts: 1N.O. and 1N.C., 2N.O., 2N.C.

Rated operational voltage **U_e**; Rated operational current **I_e**

U _e /I _e	AC15	24V/3A	120V/3A	240V/1.5A
	DC13	24V/1A	125V/0.27A	250V/0.11A

Short circuit characteristics

- Rated conditional short circuit current : 1kA
- Kind of protective device 10A gG

140MP-A-ASA*; 140MP-A-ASAR*; KT5-PA1-*; KT5-PAF1-*

Rated thermal current **I_{th}**: 6A

U_i: 690V; **U_{imp}**: 6kV

Frequency: 50/60Hz

Contacts: 1N.O. and 1N.C., 2N.O., 2N.C.

Rated operational voltage **U_e**; Rated operational current **I_e**

U _e /I _e	AC15	24V/6A	110-120V/6A	220-240V/4A	400V/3A	690V/1A
	DC13	24V/2A	110-125V/0.55A	250V/0.27A	400V/0.15A	600V/0.15A

Short circuit characteristics

- Rated conditional short circuit current : 1kA
- Kind of protective device 10A gG

Test reports:

CQC report 00901-CB2019CQC-088376-1; 00901-CB2019CQC-088376-2

CQC report 00901-CB2019CQC-088433; 00901-CB2019CQC-088431

CB Test Certificates

CN47992 Aug.29, 2019; CN48006, Aug.29, 2019; CN47904, Aug.20, 2019; CN47902, Aug.20, 2019;

CN47905-A1, Aug.30, 2019; CN47903-A1, Aug.30, 2019

Product Information :

Catalog n. 140MP-TD001A-EN-P_3_2019

Cross reference List (*)

Rockwell Automation	
Allen-Bradley (A-B) type designation	Sprecher + Schuh (S+S) type designation
140MP-A3E-*	KTA5-32A-*
140MP-A-AFA-*	KT5-PE1-*
140MP-A-ASA*	KT5-PA1-*
140MP-A-ASAR*	KT5-PAF1-*

(*) Two Brands "Allen Bradley and " Sprecher+Schuh" are covered in this certificate

General remark:

Max rated thermal current shall be evaluated considering 45°C ambient temperature.

RINA Services S.p.A.

Via Corsica ,12 _16128 Genova