



TYPE APPROVAL CERTIFICATE
No. ELE160722CS

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Residual current operated circuit-breakers with overcurrent protection
<i>Type</i>	MDc 45, MDc 60, MDc 100
<i>Applicant</i>	GEWISS S.p.A. Via A. Volta, 1 24069 Cenate Sotto (BG) ITALY
<i>Manufacturer</i>	GEWISS PORTUGAL LDA
<i>Place of manufacture</i>	Zona Industrial 2a fase - BUSTELO 4560-043 Penafiel PORTUGAL
<i>Reference standards</i>	IEC 61009-2-1:2010+AMD1:2012+AMD2:2013(Ed.3.2); IEC 61009-2-1.1991 (Ed.1.0)

Issued in **Genoa** on **May 20, 2022**. *This Certificate is valid until* **May 19, 2027**

RINA Services S.p.A.
Luigi Benedetti

This certificate consists of this page and 1 enclosure

ELE160722CS

Residual current operated circuit-breakers with integral overcurrent protection (RCBO's)

Main features

Type MDc 45

Number of poles	1P+N (230V); 2P; 3P; 4P (400V)
Rated voltage(V)	230/400V - 50 Hz
Rated residual operating current (A)	0.03 - 0.3 A/AC type
Rated current (A)	6A; 10A; 13A; 16A; 20A; 25A; 32A
Rated residual making and breaking capacity, $I_{\Delta m}$ (A)	4500A
Rated short circuit capacity I_{cn} (A)	4500A
Curve	C
Ambient temperature	45 °C

Type MDc 60

Number of poles	1P+N; 2P (230V); 3P; 4P (400V)
Rated voltage(V)	230/400V - 50 Hz
Rated residual operating current (A)	0.03 - 0.3 A/AC type
Rated current (A)	6A; 10A; 13A; 16A; 20A; 25A; 32A
Rated residual making and breaking capacity, $I_{\Delta m}$ (A)	4500A
Rated short circuit capacity I_{cn} (A)	6000A
Curve	C
Ambient temperature	45 °C

Type MDc100

Number of poles	2P (110V); 2P(230V);
Rated voltage(V)	110/230V - 50 Hz
Rated residual operating current (A)	0.03 - 0.3 A/AC/A IR type
Rated current (A)	6A; 10A; 13A; 16A; 20A; 25A; 32A
Rated residual making and breaking capacity, $I_{\Delta m}$ (A)	4500A
Rated short circuit capacity I_{cn} (A)	10000A
Curve	B - C
Ambient temperature	45 °C

Reference documentation:

Type Approval Certificate n. ELE0063217CS
TAO-APP compiled 07/03/2022
RINA offer n.2022/4921

Certificates:

IMQ CB test certificates n. IT 20215
IMQ CB test certificates n. IT 20216/M1
IMQ CB test certificates n. IT 20216
IMQ CB test certificates n. IT 20217

IMQ Approval Certificate n. CA03.00780; CA03.00781; CA03.00782
IMQ EMC Technical Evaluation n. PB19-0036410-01

Test Reports:

Test Report Summary n. CVPB17-0017685-01-00
Test Report Summary n. CVPB17-0017685-02-00
Test Report Summary n. CVPB17-0017685-03-00

IMQ PB17-0017685-01-01 to PB17-0017685-01-16
IMQ PB17-0017685-02-01 to PB17-0017685-02-39
IMQ PB17-0017685-03-01 to PB17-0017685-03-28