



TYPE APPROVAL CERTIFICATE

N. ELE26721CS003

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	Circuit Breakers
Type	MTC 45 MTC 60 MTC 100
Applicant	GEWISS S.p.A. Via A. Volta 1 24069 Cenate Sotto (BG) Italy
Manufacturer	GEWISS PORTUGAL LDA Zona Industriale II – Bustelo 4560-043 Penafiel Portugal
Reference Standards	EN 60898-1: 2003 + A1:2004 + A11:2005 + A12:2008 + A13: 2012 EN 60898-2: 2006

Issued in **Genova** on **February 24, 2021**

This certificate is valid until **February 24, 2026**

RINA Services S.p.A.



Luigi Benedetti



TYPE APPROVAL CERTIFICATE

N. ELE26721CS003

Compact miniature Circuit Breakers with overcurrent protection:

Type MTC 45

Rated Short-circuit Breaking capacity: **I_{cn}** = 4500 A; Breaking capacity of the single pole: **I_{cn1}** = 4500A

Rated impulse withstand voltage: **U_{imp}** = 4 kV; f = 50-60 Hz; Ref. Amb. Temp. **T_{amb.}** = 30°C

Operating temp. up to 45°C (*)

Poles	Rated voltage (Ue)	Curve	Rated Current (In)	Type reference	Number Modules
2P	230V	C	2 A	GW 90045	1
			6 A	GW 90046	
			10 A	GW 90051	
			16 A	GW 90047	
			20 A	GW 90048	
			25 A	GW 90049	
			32 A	GW 90050	
3P	400V	C	6 A	GW 90065	2
			10 A	GW 90066	
			13 A	GW 90071	
			16 A	GW 90067	
			20 A	GW 90068	
			25 A	GW 90069	
			32 A	GW 90070	
4P	400V	C	6 A	GW 90085	2
			10 A	GW 90086	
			13 A	GW 90091	
			16 A	GW 90087	
			20 A	GW 90088	
			25 A	GW 90089	
			32 A	GW 90090	

Type MTC 60

Rated Short-circuit Breaking capacity: **I_{cn}** = 6000 A; Breaking capacity of the single pole: **I_{cn1}** = 4500A

Rated impulse withstand voltage: **U_{imp}** = 4 kV; f = 50-60 Hz; Ref. Amb. Temp. **T_{amb.}** = 30°C

Operating temp. up to 45°C (*)

Poles	Rated voltage (Ue)	Curve	Rated Current (In)	Type reference	Number Modules
2P	230V	C	6 A	GW 90245	1
			10 A	GW 90246	
			13 A	GW 90251	
			16 A	GW 90247	
			20 A	GW 90248	
			25 A	GW 90249	
			32 A	GW 90250	
3P	400V	C	6 A	GW 90265	2
			10 A	GW 90266	
			13 A	GW 90271	
			16 A	GW 90267	
			20 A	GW 90268	
			25 A	GW 90269	
			32 A	GW 90270	
4P	400V	C	6 A	GW 90285	2
			10 A	GW 90286	
			13 A	GW 90291	
			16 A	GW 90287	
			20 A	GW 90288	
			25 A	GW 90289	
			32 A	GW 90290	





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Type MTC 60 compact miniature circuit breaker for AC and DC operation used in 2 switch modules
Series connection (4P- 2 modules)

Models	AC Operation				DC Operation			
	In	Un	Icn	Icn1	In	Un	Icn	Icn1
GW90285MA	6A	230Vac	10kA	4.5kA	6A	230Vdc	10kA	4.5kA
GW90286MA	10A	230Vac	10kA	4.5kA	10A	230Vdc	10kA	4.5kA
GW90287MA	16A	230Vac	10kA	4.5kA	16A	230Vdc	10kA	4.5kA

Type MTC 100

Rated Short-circuit Breaking capacity: **Icn** = 10000 A; Breaking capacity of the single pole: **Icn1** = 4500A

Rated impulse withstand voltage **Uimp** 4 kV; f = 50-60 Hz; Ref. Amb. Temp. **T amb.** = 30°C

Operating temp. up to 45°C (*)

Poles	Rated voltage (Ue)	Curve	Rated Current (In)	Type reference	Number Modules
2P	230V	C	6 A	GW 90445	1
			10 A	GW 90446	
			13 A	GW 90451	
			16 A	GW 90447	
			20 A	GW 90448	
			25 A	GW 90449	
			32 A	GW 90450	

(*)

Rated currents corresponding to the different ambient temperatures:

Table from Gewiss Technical Information Ver. 2.1

MTC 45- 60- 100 Compact Miniature Circuit Breaker						
Rated Current In (A)	Temperature					
	10°C	20°C	30°C	40°C	50°C	60°C
2	2.1	2.05	2	1.9	1.8	1.55
6	7.2	6.6	6	5.7	5.3	5
10	11.8	10.8	10	9.6	9.1	8.6
13	15	14	13	12.4	11.7	11
16	18.2	17.2	16	15.2	14.3	13.4
20	22.8	21.4	20	19.5	18.9	18.4
25	28.5	26.8	25	24	23	22
32	36.5	34.2	32	30.8	29.5	28





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N. ELE26721CS003

Reference documents:

IMQ Reports n. EN957 , EQ820, EN958 (22/10/2007), PB15S0566110-01 rev.1 (18/01/2016)
GEWISS Report n. 12647 (31/07/2001)
GLOBE COMMUNICATION SPA Reports n. LVD509-1/00 (14/09/2000) , LVD510-1/00 (28/11/2000)
GEWISS n. 100.00095121 (17/11/2006)
P & P LMC n. RT-LP-004/06 rev. 00 (12/06/2006)
DEKRA Report n. 2188371.01-INC (6/11/2015)
GEWISS Statement :doc. n. IT.002-2016 (19/01/2016)
GEWISS data sheets: GW90285MA, GW90286MA, GW90287MA (01/2016)

Update 02.2021

Reference documents

Series MTC 45: IMQ CB test report n. IT-20515 (2019-10-29)
Series MTC 45: IMQ Test reports n. PB17-0013549-01-00 to PB17-0013549-01-39 (30.11.2017)

Series MTC 60: IMQ CB test report n. IT-20516 (2019-10-29)
Series MTC 60: IMQ Test reports n. PB17-0013549-02-00 to PB17-0013549-02-31 (31.10.2017)

Series MTC 100: IMQ CB test report n. IT-20517 (2019-10-29)
Series MTC 100: IMQ Test reports n. PB17-0013549-03-00 to PB17-0013549-03-10 (22.12.2017)

Gewiss Technical Information Ver. 2.1

Note:

The products listed in this certificate are suitable to be installed in accommodation areas and similar spaces
The products to be used and installed according to the Manufacturer Instructions

This Certificate annuls and replaces the previous n. ELE26721CS001 on January 28, 2021

