

RIA TYPE APPROVAL CERTIFICATE



N. ELE242219CS

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 **Electrically Powered Hold-Open Devices for swing doors**

Series S50160 Type

in conjunction with fixed keeper plates \$02160 and \$H2160 and \$04160

in conjunction with fixed keeper plates S02150 and SH2150 and S04150

Applicant ELFRI s.r.l.

Via Friuli, 9

33050 Gonars, (Udine)

Italia

Manufacturer ELFRI s.r.l.

Via Friuli, 9

33050 Gonars, (Udine)

Italia

Testing Standards EN 1155: 1997+A1: 2002+AC:2006

Issued in Genova on December 23, 2019

This certificate is valid until December 23, 2024

RINA Services S.p.A.

Giovanni Carratino



RIA TYPE APPROVAL CERTIFICATE



N. ELE242219CS

Description: Electrically Powered Hold-Open Devices for swing doors

Series S50160 in conplates type S02160			Series S59150 in conjunction with fixing keeper plates type S02150 and SH2150 and S04150			
		General	specifications			
Core material	Zinc coated steel		Core material	Zinc coated steel		
Fixing plate	Zinc coated steel		Fixing plate and Core Cover	AISI 316 L		
Coil insulation	Self extinguishing resin		Coil insulation	Self extinguishing resin		
Holding strenght	150 daN		Holding Strenght	150 daN		
Degree of protection	IP 65		Degree of protection	IP 67		
Electrical protection	Varistor		Electrical protection	Varistor		
Isolation Class	B (130°C max.)		Isolation Class	B (130°C max.)		
Operat. Ambient, temp.	-10 to 45°C		Operat. Ambient. temp.	-10 to 45°C		
		Electrical	Specifications			
Voltage supply	24Vdc		Voltage supply	24Vdc		
Rated current	100 mA @ 24Vdc		Rated current	100 mA @ 24Vdc		
Insulation resistance	>5 Mohm (typ.) @ 500Vdc		Insulation resistance	>5 Mohm (typ.) @ 500 Vdc		
Dielectric Strength	>2kV@50 Hz (2 mA)		Dielectric Strength	>2kV@50 Hz (2 mA)		
Winding temp.	66°C	@ T.a. 45°C / 24Vdc	Winding temp.	66°C	@ T.a. 45°C / 24Vdc	
Holding strength	170 daN	28.8 Vdc 125 mA		170 daN	28.8 Vdc 125 mA	
	150 daN 24.0 Vdc 100 mA		Holding strength	150 daN	24.0 Vdc 100 mA	
	130 daN	19.2 Vdc 80 mA		130 daN	19.2 Vdc 80 mA	

Performance classification according to the following table:

3	5	4 to 7	1	1	4
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Digit Characteristics 1st Category of use		Possible values		
		Grade 3: doors for use by the public, and others, with little incentive to take care, i.e. where there is some chance of misuse of the door.		
2 nd	Number of test cycles	Grade 5: 50000 test cycles; Grade 8: 500000 test cycles		
3 th	Test door mass	Grade 3: 60kg; Grade 4: 80kg; Grade 5: 100kg; Grade 6: 120kg; Grade 7: 160kg		
4 th	Fire resistance	Grade 1: suitable for use on fire / smoke door assemblies, subject to satisfactory Assessment of the contribution of the electrically powered hold-open device to the fire resistance of specified fire/smoke door assemblies		
5 th	Safety Grade 1: all electrically powered hold-open devices are required to satisfy the essential requirement of safety in use			
6 th	Corrosion resistance	Grade 0: no defined corrosion resistance; Grade 1: mild resistance; Grade 2: moderate resistance; Grade 3: high resistance; Grade 4; very high resistance		

Technical description

Data Sheets: Electromagnetic fire doors Holders S50160 and S59150 and keeper plates S02150, SH2150, S02160, SH2160, S04150, and S04160

n. S59150 Rev.0 (17/06/2019); S50160 Rev.0 (17/06/2019)

n. DTS50 Ed.2020 Rev.00; DTS59 Ed.2020 Rev.00; DTS04 Ed.2020 Rev.00

Test reports

Istituto Giordano reports n. 201623/330/CPD (12/09/2005); 357014/11910/CPR (30/11/2018)

Certificate

Istituto Giordano Certificate: n. 0407-CPR-055 (IG-154-2005) Rev.8 06/12/18 (EN1155:1997+A1:2002+AC:2006).

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