



TYPE APPROVAL CERTIFICATE



N. ELE147318CS

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	Fuse Holders / Fuse Disconnectors
Type	E90- 50 E90-125
Applicant	ABB S.p.A Via Vittor Pisani 16 20124 Milano Italy
Manufacturers	S.C. ELECTROMAGNETICA S.A. Calea Rahovei 266-268 Sector 5, Bucharest Romania
Reference standards	Rules for the Classification of Ships. Part C – Machinery, Systems and fire protection. Ch. 3, Section 6, Table 1. IEC60947-3:2008 + A1:2012 in conjunction with IEC60947-1:2007 + A1:2010 IEC60269-2:2013 in conjunction with IEC60269-1:2006 + A1:2009

Issued in **Genova** on **06 June 2018**

This certificate is valid until **06 June 2023**

Valerio Bonanni

RINA Services S.p.A.

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E90/50 Series Fuse Holder / Disconnectors - Main features:

Rated voltage Ue: 690 Vac (Fuse system F) ; Rated current Ith: 50A ac;
 Rated frequency: 50 / 60Hz ; Rated conditional short circuit Icc: 120 kA
 Rated insulation voltage Ui : 800V; Rated impulse withstand voltage Uimp : 6 kV
 Suitability for isolation: yes ; utilization category: AC-20B; Degree of protection: IP20
 Max rated power dissipation of fuse-link 5W (gG type) @ 25°C Tamb ; Fuses size: 14x51 mm
 Pollution degree: 3

Type	ABB Codes	Poles	Signal LED	Neutral
E91/50	2CSM279022R1801	1P	No	--
E91N/50	2CSM277982R1801	1P+N	No	Right
E92/50	2CSM277972R1801	2P	No	--
E93/50	2CSM277962R1801	3P	No	--
E93N/50	2CSM277952R1801	3P+n	No	Right
E91/50s	2CSM237202R1801	1P	Yes	--
E91N/50s	2CSM202392R1801	1P+N	Yes	Right
E92/50s	2CSM207032R1801	2P	Yes	--
E93/50s	2CSM257482R1801	3P	Yes	--
E93N/50s	2CSM256302R1801	3P+N	Yes	Right
E91N/50	2CSM204902R1801	1P+N	No	Left
E93N/50	2CSM204892R1801	3P+N	No	Left
E91N/50s	2CSM204882R1801	1P+N	Yes	Left
E93N/50s	2CSM204872R1801	3P+N	Yes	Left

E90/125 Series Fuse Holder / Disconnectors - Main features:

Rated voltage Ue: 690 Vac (Fuse system F) ; Rated current Ith: 100 A ac;
 Rated frequency: 50 / 60Hz ; Rated conditional short circuit Icc: 120 kA
 Rated insulation voltage Ui : 800V; Rated impulse withstand voltage Uimp : 6 kV
 Suitability for isolation: yes ; utilization category: AC-20B; Degree of protection: IP20
 Max rated power dissipation of fuse-link: 9.5W (gG type) @ 25°C Tamb; Fuses size: 22x58 mm
 Pollution degree: 3

Type	ABB Codes	Poles	Signal LED	Neutral
E91/125	2CSM277572R1801	1P	No	--
E91N/125	2CSM277352R1801	1P+N	No	Right
E92/125	2CSM277132R1801	2P	No	--
E93/125	2CSM277502R1801	3P	No	--
E93N/125	2CSM296532R1801	3P+n	No	Right
E91/125s	2CSM289632R1801	1P	Yes	--
E91N/125s	2CSM204942R1801	1P+N	Yes	Right
E92/125s	2CSM204932R1801	2P	Yes	--
E93/125s	2CSM204922R1801	3P	Yes	--
E93N/125s	2CSM204912R1801	3P+N	Yes	Right
E91N/125	2CSM204862R1801	1P+N	No	Left
E93N/125	2CSM204852R1801	3P+N	No	Left
E91N/125s	2CSM204842R1801	1P+N	Yes	Left
E93N/125s	2CSM204832R1801	3P+N	Yes	Left





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IMQ CB Test Certificates :

n. IT-14755 (2014-10-17) _ Fuse Disconnectors

n. IT-14816 (2014-10-17) _ Fuse Holders

IMQ Test Reports:

PB14S0291899-02-00 and PB14S0291899-02-00A

From PB14S0291899-02-01 to PB14S0291899-02-10

From PB14S0291899-02-01A to PB14S0291899-02-10A

PB14S0291899-01-00

From PB14S0291899-01-01 to PB14S0291899-01-10

ABB/ACAE report :

Project SP00290 - vibration ; damp heat tests (4/12/2014)

General remarks:

Admissible max. rated current to be evaluated considering 45°C ambient temperature.

This certificate annuls and supersedes the previous n. ELE023017CS