



**TYPE APPROVAL CERTIFICATE**  
**No. ELE190522CS/001**

**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>	<b>Fuse-switch-disconnector</b>
<i>Type</i>	<b>E90 Series: E91/20 E91/32 E91N/32 E92/20 E92/32 E93/20 E93/32 E93N/32 E94/32</b>
<i>Applicant</i>	<b>ABB S.P.A. Via Vittor Pisani 16 20124 Milano ITALY</b>
<i>Manufacturer</i>	<b>ELECTROMAGNETICA SA</b>
<i>Place of manufacture</i>	<b>266-268 Calea Rahovei - Bucharest ROMANIA</b>
<i>Reference standards</i>	<b>IEC 60947-3:2020; IEC 60947-1:2020</b>

*Issued in* **Genoa** on **July 1, 2022**. *This Certificate is valid until* **June 30, 2027**

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**RINA Services S.p.A.**  
**Luigi Benedetti**

This certificate consists of this page and 1 enclosure

## TYPE APPROVAL CERTIFICATE

No. ELE190522CS/001

Enclosure - Page 1 of 1

E90 Series: E91/20

E91/32

E91N/32

E92/20

E92/32

E93/20

E93/32

E93N/32

E94/32

### Product description

**Fuse-switch-disconnectors type E91/20, E92/20, E93/20.**

#### Technical data

Rated frequency: 50/60 Hz

Number of poles: 1, 2, 3

Rated operational voltage (**Ue**): 400 V

Rated insulation voltage (**Ui**): 500 V

Rated impulse withstand voltage (**Uimp**): 6 kV

Rated operational current (**Ie**): 20 A

Conventional free air thermal current (**Ith**): 20 A

Conventional enclosed thermal current (**Ithe**): 20 A

Rated uninterrupted current (**Iu**): 20 A

Rated conditional short-circuit current: 20 kA

Utilization category: AC-22B

Kind of protective device: 20 A, 400 V, 8 X 32 mm, 20 KA

**Fuse-switch-disconnectors type E91/32, E91N/32, E92/32, E93/32, E93N/32, E94/32.**

#### Technical data

Rated frequency: 50/60 Hz

Number of poles: 1, 1+N, 2, 3, 3+N, 4

Rated operational voltage (**Ue**): 400 V

Rated insulation voltage (**Ui**): 500 V

Rated impulse withstand voltage (**Uimp**): 6 kV

Rated operational current (**Ie**): 32 A

Conventional free air thermal current (**Ith**): 32 A

Conventional enclosed thermal current (**Ithe**): 32 A

Rated uninterrupted current (**Iu**): 32 A

Rated conditional short-circuit current: 20 kA

Utilization category: AC-22B

Type of protective device: 32 A, 400 V, 10 X 38 mm, 20 KA

### Documents

CB Test Certificate IT-22556

Approval Certificate CA03.00589 (updated 2022-01-17) & Approval Certificate CA03.00590 (updated 2022-01-17)

Test Report Summary PB21-0067626-01

Test Report PB21-0067626-01-00 to PB21-0067626-01-06

**Genoa 01/07/2022**

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