



# Type Approval Certificate

[ Fuse Holders ]

**Initial Approval** 24 July 2018

**Applicant** ABB S.p.A.  
Via Vittor Pisani 16, 20124 Milano, Italy

**Product Description** Type : E90/20, E90/32 Series

\* Manufacturing Place

NCT S. a. r. l,  
Rue Sfax Lot n° 108, Zone industrielle Mghira 2 2082 Fouchana, Tunisie

" See Appendix 1 "

**Approval Condition**

" See Appendix 1 "

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 6, Ch. 1, Art. 802 of the Rules for Classification, Steel Ships, IEC 60269-2, IEC 60947-3

This Certificate is valid until 23 July 2028

Issued at Busan, Korea on 22 October 2024



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME24050544600) and certificate No.(MIL37434-EL001).



**KOREAN REGISTER**

*General Manager of  
Marine & Ocean Equipment Team*

- Note :**
1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
  2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
  3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
  4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

## Product Description and/or Approval Condition

Date of Issue : 22 October 2024

### A. Product Description

#### 1. Product Specification

- 1) E90/20
  - Rated current : 20A AC
  - Rated voltage : 400V AC
  - Rated frequency : 50/60 Hz
  - Max. power dissipation : 2.5 W
  - Utilizaion category : AC-20B/22B
  - Poles : 1, 2, 3
  - Order type code : E91/20, E91/20S, E92/20, E92/20S, E93/20, E93/20S
  
- 2) E90/32
  - Rated current : 32A AC
  - Rated voltage : 400V AC
  - Rated frequency : 50/60 Hz
  - Max. power dissipation : 3 W
  - Utilizaion category : AC-20B/22B
  - Poles : 1, 1+N, 2, 3, 3+N, 4
  - Order type code : E91/32, E91/32S, E91N/32, E91N/32S, E92/32, E92/32S, E93/32, E93/32S, E93N/32, E93N/32S, E94/32, E94/32S

#### 2. Approved Drawings and Documents

- 1) 04161169 Rev. 1, 04161170 Rev. 1, 04161171 Rev. 1, 04161172 Rev. 1

#### 3. Test Reports, etc.

- 1) 2GE01064 issued by LPD Laboratory (2012.02.15)
- 2) 03AJ00031/00, 03AJ00031/01, 03AJ00031/02, 03AJ00031/03, 03AJ00032/00, 03AJ00032/01, 03AJ00032/02, 03AJ00032/003 issued by IMQ (2009.06.26)
- 3) PB21-0067626-01-00 ~ PB21-0067626-01-06 (2021.10.11)

### B. Approval Condition

#### 1. Application & Limitation

- 1) This approval is granted on the basis of the test reports and the approved documentation.
- 2) Degree of protection is to be complied with Rule Pt.6 Ch.1 Sec.2 201.2. (5).
- 3) The manufacturer is to inform this Society of all kinds of revisions of the equipment.  
If the changes are recognized to affect functionality of the approved equipment, type test to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.

#### 2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

#### 3. Marking

- 1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.

#### 4. Others

N/A

&lt; End of Certificate &gt;