



Marine & Offshore

Certificate number: 67311/A0 BV

File number: MPA2103241

Product code: 2584H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**ELECTRO ADDA SPA**  
BEVERATE DI BRIVIO (LC) - ITALY

*for the type of product*

**ASYNCHRONOUS MACHINES (Power below 100kW)**  
C & FE series

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships, Offshore Units, Naval Ships and Yachts.  
IEC 60034-1 (2014)

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 25 May 2027**

**For Bureau Veritas Marine & Offshore,**

At BV VENEZIA, on 25 May 2022,

Sandro BRUSEGAN

***This certificate was created electronically and is valid without signature***



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <https://www.veristarpm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=ivtfbhp1h>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

#### 1.1 - Specifications:

Type:	C-FE
Degree of protection:	IP56
Power:	1.4, 10, 25 and 90kW
Number of poles:	4
Rated voltage:	440V
Frequency:	60Hz
Duty type:	S1
Insulation class:	F
Cooling:	IC416 (10kW) IC411 (1.4, 25 & 90kW)

### 2. DOCUMENTS AND DRAWINGS :

Drawing N° A35987W, rev.00, dated 27 May 2020.  
 Drawing N° A36107, rev.01, dated 07 Jul 2020.  
 Drawing N° A36341, rev.01, dated 07 Oct 2020.  
 Drawing N° A36888W, rev.00, dated 09 Mar 2021.  
 Drawing N° A37007, rev.02, dated 22 Jun 2021.  
 Drawing N° A37008, rev.02, dated 22 Jun 2021.  
 Drawing N° A37315, rev.00, dated 18 Jun 2021.  
 Datasheets N° 372842\_1/2, 372842\_3/4, 372843\_1/2 and 372843\_3/4/5, dated Jun 2021.

### 3. TEST REPORTS :

#### **ELECTRO ADDA SPA:**

Test reports dated 01 Jul 2021 (25, 90kW) witnessed by BV.  
 Test reports dated 13 Sep 2021 (1.4, 10kW) witnessed by BV.

#### **TÜV NORD Italia S.r.l.:**

Test report N° PX-20283-20-L, rev.0, dated 07 May 2020.

### 4. APPLICATION / LIMITATION :

4.1 - BV Rules for the Classification of Steel Ships, Offshore Units, Naval Ships and Yachts.  
 4.2 - Electrical motors intended for hoist system applications including hydraulic power units.  
 4.3 - Precima FDW brakes are not covered by this certificate.  
 4.4 - According to BV Rules for the Classification of Naval Ships (NR483), all machines of 50 kW and over, intended for essential services are to be surveyed by the Society during testing and, if appropriate, during manufacturing.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **ELECTRO ADDA SPA** in compliance with the type described in this certificate.  
 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.  
 5.3 - **ELECTRO ADDA SPA** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.  
 5.4 - For information, **ELECTRO ADDA SPA** has declared to Bureau Veritas the following production site:

**ELECTRO ADDA SPA**  
**Via Nazionale 8,**  
**23833 BEVERATE DI BRIVIO (LC)**  
**ITALY**

### 6. MARKING OF PRODUCT :

Name plate according to IEC 60034-1.

**7. OTHERS :**

It is **ELECTRO ADDA SPA**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

**\*\*\* END OF CERTIFICATE \*\*\***