



Marine & Offshore

Certificate number: 23341/C0 BV File number: ACE 4/400/11 Product code: 25841

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 KONCAR-MES d.d. Zagreb - CROATIA

## for the type of product **ASYNCHRONOUS MACHINES (Power 100kW and over)**

7ABZ motors series.

**Requirements:** 

BV Rules for the Classification of Steel Ships. IEC 60034-1 (2017)

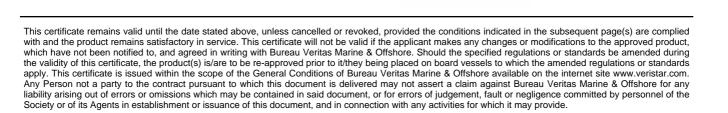
This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

#### This certificate will expire on: 10 Feb 2026

For Bureau Veritas Marine & Offshore, At BV RIJEKA, on 10 Feb 2021,

Slaven Celic

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The electronic version is available at: http://www.veristarpm.com/veristarnb/jsp/viewPublicPdfTypec.jsp?id=mk9pclozlk BV Mod. Ad.E 530 June 2017 This certificate consists of 3 page(s)

# THE SCHEDULE OF APPROVAL

#### **1. PRODUCT DESCRIPTION:**

The 7ABZ series are asynchronous motors for Marine applications.

### 1.1 - Specifications:

Frame material	Cast iron			
Number of poles	2 to 8 and multi poles			
Frame sizes	280 - 315 mm			
Cooling	Air –Cooling method IC 411			
Degree of protection of enclosures	IP55 - IP56 - IP65 - IP66			
Rotor	squirrel cage			
Power supply	220 to 690 V			
Frequency	50 Hz and 60 Hz			
Speed	750 to 3600 RPM			
Insulation class	F			
Temperature rise class	B or F			
Duty service	S1 to S10 according to IEC standard			
Ambient temperature	40°C to 50°C			
Datad norman at C1 duty*				

Rated power at S1 duty\*

#### 1.2 - Approval range:

Motor type	kW 2 poles 50 Hz	kW 2 poles 60 Hz	kW 4 poles 50 Hz	kW 4 poles 60 Hz	kW 6 poles 50 Hz	kW 6 poles 60 Hz	kW 8 poles 50 Hz	kW 8 poles 60 Hz
7ABZ 280M	/	105	/	103	/	/	/	/
7ABZ 315S	110	124	110	124	/	/	/	/
7ABZ 315M	132	149	132	149	/	101	/	/
7ABZ 315LA	160	180	160	180	110	124	/	102
7ABZ 315LB	200	250	200	250	132	149	110	124

\* The power indicated in this table can be modified according to ambient temperature, duty type and other factors as per customer request

#### 2. DOCUMENTS AND DRAWINGS:

Technical description, Out-line drawings, Assembly drawing, Data and list of position as per KONCAR-MES documentation N° A44689/A dated 07/2005 and KONCAR MES Catalogue O.K.E.10.00 and 1.K.E.10.00 Technical description ref. A44689/D, Annex 4, dated 30 Sep 2016.

#### 3. TEST REPORTS:

Type tests carried out according to BV Rules Pt C, Ch 2, Sec 4, Table 1 Review of type tests reports N° 1148761 dd 03/10/2008 - 1148753 dd 02/10/2008Tests report ref. 744901, dated 23.Nov.2015. Tests report ref. 15 TR 0060, dated 21.May.2015.

#### 4. APPLICATION / LIMITATION:

BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.

#### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **KONCAR-MES d.d.** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - For information, KONCAR-MES d.d. has declared to Bureau Veritas the following production site:

KONCAR-MES d.d. Fallerovo setaliste 22 HR-10110 Zagreb Croatia Zagreb 00 385 CROATIA

#### **6. MARKING OF PRODUCT:**

6.1 - Name plate according to IEC 60034-1 6.2 -  $\lambda$  or @conformity marking, as relevant

#### 7. OTHERS:

7.1 - It is KONCAR-MES d.d.'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.

7.2 - This certificate supersedes the Type Approval Certificate n° 23341/B0 BV issue on 05 Feb 2016 by the Society.

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