



Marine & Offshore

Certificate number: 59930/A0 BV

File number: ACE4/897/1

Product code: 2584H

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

AEM ELEKTRIK MOTORLARI

AKSARAY - TURKEY

for the type of product

ASYNCHRONOUS MACHINES (Power below 100kW)

Types: AA and AB

Requirements:

Bureau Veritas Rules for the Classification of Offshore Units.
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: 02 Mar 2026

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 02 Mar 2021,

Gurcan Yilmaz



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. 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: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=blwytwqicc>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

1.1.1 - Specifications:

Degree of protection:	IP56
Frame:	Aluminium frame size 63M to 200L (type AA) Cast iron frame size 132S/M to 315S/M (type AB)
Number of poles:	2 - 4 - 6 - 8
Rated voltage:	4kW<230/400V Δ/Y, 4kW≥400/690 Δ/Y (50Hz) 4kW<264/460V Δ/Y, 4kW≥460/796 Δ/Y (60Hz)
Frequency:	50Hz or 60Hz
Synchronous speed:	750 Rpm to 3600 Rpm
Duty type:	S1 to S10
Insulation class:	F or H
Temperature rise:	B or F

1.1.2 - Rated power:

FRAME	Power (kW) at 50Hz			
	2 Poles	4 Poles	6 Poles	8 Poles
63M	0.18 - 0.25	0.12 - 0.25		
71M	0.37 - 0.55	0.25 - 0.55	0.18 - 0.25	
80M	0.75 - 1.1	0.55 - 1.1	0.37 - 0.55	0.18 - 0.25
90S/L	1.5 - 2.2	1.1 - 2.2	0.75 - 1.1	0.37 - 0.55
100L	3 - 4	2.2 - 3	1.5	0.75 - 1.1
112M	4 - 5.5	4 - 5.5	2.2	1.5
132S/M	5.5 - 13	5.5 - 11	3 - 5.5	2.2 - 3
160M/L	11 - 30	11 - 20	7.5 - 11	4 - 7.5
180M/L	22	18.5 - 22	15	11
200L	30 - 45	30 - 37	18.5 - 22	15
225S/M	45 - 55	37 - 55	30 - 37	22
250M	55 - 75	55 - 75	37	30
280S/M	75 - 90	75 - 90	45 - 55	
315S/M			75 - 90	

Up to 20% increase in power can be observed at motors designed as 60Hz.

2. DOCUMENTS AND DRAWINGS :

AEM ELEKTRIK MOTORLARI:

Catalog N° AEM-ENC-01, Rev. 0, dated 11 Nov 2019.

3. TEST REPORTS :

AEMOT:

Test reports N° RPR-M-42850 and RPR-M-42851, dated 27 Jul 2020.

Test report N° RPR-M-42853, dated 28 Jul 2020.

Test reports N° 395 and 396, dated 27 Jul 2020.

Test report N° 397, dated 28 Jul 2020.

TSE:

Test reports N° 588907 and 588909, dated 16 Feb 2021.

GCNTR ULUS.BELG.GOZ.EGT.VE DIS.TIC.LTD.STI.:

Test report N° GTL-ENV-T-491/20, dated 13 Nov 2020.

4. APPLICATION / LIMITATION :

BV Rules for the Classification of Offshore Units.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **AEM ELEKTRIK MOTORLARI** 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 - **AEM ELEKTRIK MOTORLARI** 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, **AEM ELEKTRIK MOTORLARI** has declared to Bureau Veritas the following production site:

AEM ELEKTRIK MOTORLARI
E-90 Karayolu Adana ist.18 km
68100
AKSARAY
TURKEY

6. MARKING OF PRODUCT :

- Name plate according to IEC 60034-1.
- Stamp @ on frame when BV Mode I Survey.
- Stamp \ on frame when individual inspection.

7. OTHERS :

It is **AEM ELEKTRIK MOTORLARI**'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 ***