



Marine & Offshore

Certificate number: 21903/C0 BV

File number: ACE 4/858/2

Product code: 2584I

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

ATB NORDENHAM GmbH

Nordenham - GERMANY

for the type of product

ASYNCHRONOUS MACHINES (Power 100kW and over)

BD.. and CD.. series with Ex marking

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

IEC 60034-1:2017

IEC 60092-301:1995

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: 31 Aug 2025

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 31 Aug 2020,

Dirk Hoepfner



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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **BD...** and **CD...** series are asynchronous explosion proof marine motors for use in hazardous areas.

1.1 - Main characteristics:

Type: BD for explosion group IIB
CD for explosion group IIC

Frame material: Gray cast iron

Number of poles: 2 - 4

Height of frame: 280 & 315

Power supply: 380 to 690 V, 50 Hz and 60 Hz

Enclosure: IP 56

Ambient temperature: up to 45°C

Duty type: S1, S2 and inverter drive

Insulation class: F

Temperature rise: B,F

1.2 - Technical data:

Rated power at S1 - Temperature class T4

Motor type	kW		kW	
	2 poles / 50Hz	4 poles / 50Hz	2 poles / 60Hz	4 poles / 60Hz
CD or BD 280SX	/	/	105	105
CD or BD 280M	/	/	105	105
CD or BD 280M-X	110	110	121	121
CD or BD 315S	110	110	121	121
CD or BD 315S-X	132	132	145	145
CD or BD 315M	132	132	145	145
CD or BD 315M-X	160	160	176	176
CD or BD 315L1	160	160	176	176
CD or BD 315L1-X	200	200	220	220
CD or BD 315L2	200	200	220	220
CD or BD 315L3	250	250	275	275

2. DOCUMENTS AND DRAWINGS:

- Catalogue: EXMOT 05 EN

- Outline drawing: 15514 35 Z007; 15514 10 Z007;

- Shaft drawing: 15438 94 E207; 15438 93 E207; 15456 42 E207; 15456 55 E207; 15456 44 E207; 15456 57 E207; 15456 46 E207; 15456 54 E207;

- Terminal box: 15426 19 Z207; 15514 37 Z007; 15426 72 Z207; 15514 37 Z007;

- Circuit Diagram: 15062 26 E407; 15551 17 E407; 15062 26 E407; 15551 17 E407

- Physikalisch – Technische Bundesanstalt: PTB 08 ATEX 1087 X; PTB 09 ATEX 1011 X; PTB 98 ATEX 1062 U; PTB 98 ATEX 1079 U

For C0 version:

- Gap analysis dated 22.07.2020

3. TEST REPORTS :

- ATB: 5272; 5328; 5360; 5473; 5487

4. APPLICATION / LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.

4.2 - Ex-certification is not covered by this certificate. Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.



5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned motors are to be supplied by **ATB NORDENHAM GmbH** 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 - Bureau Veritas product certificate is required.

6. MARKING OF PRODUCT:

- According to IEC 60034 specification.
- Ex marking, as relevant.
-  or  conformity marking, as relevant.

7. OTHERS:

7.1 - It is the responsibility of **ATB NORDENHAM GmbH** 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° 21903/B0 BV issued on 06 Mar 2015 by the Society.

*** END OF CERTIFICATE ***