



Marine & Offshore

Certificate number: 21902/C0 BV

File number: ACE 4/858/1

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

ATB NORDENHAM GmbH

Nordenham - GERMANY

for the type of product

ASYNCHRONOUS MACHINES (Power below 100kW)

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 Hoefner



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:	180, 200, 225, 250 & 280
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 180M	22	/	26	/
CD or BD 180M-X	30	/	35	/
CD or BD 180L	/	22	/	26
CD or BD 180L-X	/	27	/	31
CD or BD 200L	/	30	/	34,5
CD or BD 200L-X	/	37	/	43
CD or BD 200L1	30	/	36	/
CD or BD 200L1-X	37	/	43	/
CD or BD 200L2	37	/	43	/
CD or BD 200L2-X	45	/	52	/
CD or BD 225S	/	37	/	43
CD or BD 225S-X	/	45	/	52
CD or BD 225M	45	45	52	52
CD or BD 225M-X	55	55	64	64
CD or BD 250M	55	55	64	64
CD or BD 250M-X	70	70	81	81
CD or BD 280S	75	75	87	87
CD or BD 280S-X	90	90	/	/
CD or BD 280M	90	90	/	/

2. DOCUMENTS AND DRAWINGS:

- Catalogue: EXMOT 05 EN
 - Outline drawings: 15514 47 Z007; 15514 57 Z007; 15514 40 Z007; 15514 27 Z007; 15514 35 Z007;
 - Shaft drawing: 15525 19-20 E307; 15525 35-36 E307; 15525 05-06 E307; 15525 07-08 E307; 15438 74 E207; 15438 75 E207; 15438 94 E207; 15438 93 E207;
 - Terminal box: 15514 41 Z007; 15426 96 Z107; 15514 41 Z007; 15426 96 Z107; 15514 41 Z007; 15426 19 Z207; 15514 37 Z007; 15426 19 Z207; 15514 37 Z007; 15426 19 Z207;
 - Circuit Diagram: 15062 26 E407; 15551 17 E407; 15062 26 E407; 15551 17 E407
 - Physikalisch – Technische Bundesanstalt: PTB 08 ATEX 1056 X; PTB 08 ATEX 1081 X; PTB 08 ATEX 1087 X; PTB 09 ATEX 1012 X; PTB 09 ATEX 1013 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: 3577; 5374B; 5473; 5474; 5486; 5486a; 5486b

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 products are to be supplied by **ATB NORDENHAM GmbH** 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 - **ATB NORDENHAM GmbH** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

ATB NORDENHAM GmbH
Helgoländer Damm 75
26954 Nordenham
GERMANY

6. MARKING OF PRODUCT:

- According to IEC 60034 specification.

- Ex 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° 21902/B0 BV issued on 15 Mar 2015 by the Society.

*** END OF CERTIFICATE ***