Certificate No: LR2003691TA
Issue Date: 22/06/2020
Expiry Date: 27/10/2024

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**ATB Nordenham GmbH**
Address	Helgolaender Damm 75, Nordenham, 26954, Germany
Place of Production	ATB Nordenham GmbH Helgolaender Damm 75, Nordenham, 26954, Germany
Type	Electric Motors
Description	Induction motors BD... , dBD... CD... , dCD...
Trade Name	BD…, dBD…, CD…, dCD…
Application	Marine and industrial applications (not environmental tested)
Specified Standard	EN 60079-0: 2018 (CD63/71, CD 80-160, CD 225-315) EN 60079-0: 2012(BD…/CD…/CD…_2) EN 60079-0: 2006 (dBD) EN 60079-1: 2014 / -7: 2015 / -31: 2014 EN 60034-1: 2011 / -5: 2007 / -6: 1993 / -7: 2001 / -8: 2014 /-9: 2007 EN60034-12: 2017 / -14: 2018

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Ratings

Size: 63 up to 500
Rated voltage: 200 V up to 690 V
Rated power: S1, 0.1 kW up to 750 kW
Speed: 50 1/min up to 5220 1/min
Rated frequency: 50 Hz, 60 Hz, 5 Hz up to 87 Hz (conv. operation)
Ambient temperature: 45 °C
Duty type: S1 up to S10, acc. to EN60034-1
Insulation class: F
Type of enclosure: IP56, IP6X
No. of poles: 2, 4, 6, 8, 10, 12, 4/2, 6/4, 8/4

Ex-marking BD…	II 2G Ex db IIB T3…T6 Gb resp. Ex db eb IIBT3…T6 Gb II 2D Ex tb IIIC T200°C -T85°C Db
Ex-marking dBD 500	II 2G Ex d IIB T3…T6 resp. Ex de IIBT3…T6 II 2D Ex tD A21 IP6x T200°C – T85°C
Ex-marking CD…	II 2G Ex db IIC T3…T6 Gb resp. Ex db eb II CT3…T6 Gb II 2D Ex tb IIIC T200°C – T85°C Db

Other Conditions

Specific Conditions of Use as stated in applicable Ex-certificates and the conditions of the LR Ship Rules & Regulations of Classification of Ships Part 6, Chapter 2 shall be observed when installed in hazardous areas. The Ex-certification does not form part of this certificate.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. HTS/ETS 39984-20/MK/JK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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