DNV·GL

Certificate No:
TAE000033J

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Motor

with type designation(s)
DM IP23 160 to DM IP23 355 450

Issued to
Rotor B.V.
EIBERGEN, Netherlands

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Degree of protection	**IP 55**
Insulation class	**F**
Temp. class (°C)	**155**
Voltage (V)	**220-690V**
Power (kW)	**250 kW up to 1035 kW**
Frequency (Hz)	**50, 60**
Speed (RPM)	**750 to 3600**

This Certificate is valid until **2021-12-20**.

Issued at **Høvik** on
DNV GL local station: **Rotterdam** for **DNV GL**

Approval Engineer: **Nicolay Horn**

Marta Alonso Pontes
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-029435-1**
Certificate No: **TAE000033J**

Manufactured by
Regal Beloit (Wuxi) CO., Ltd
No.6 Xiangge Rd, Hudai Town
Binhu District, Wuxi, Jiangsu,
China 214161

Product description
3-phase induction motors with ratings as specified in page 1 of this type approval certificate.

Voltage [V]	220 - 690
Power [kW]	11 - 852
Number of Poles:	2, 4, 6 and 8
Shaft heights [mm]:	160, 180, 200, 225, 250, 280, 315, 355
Frame material:	Cast iron
Duty type :	S1, S2-10min, S2-30min, S3, S4, S6
Ambient temperature :	45 °C
Ex rating :	NA
Cooling :	IC411, IC416, IC410

Application/Limitation
For use as propulsion motor documentation according to DNV GL Rules must be submitted for approval for each project.
Product certification shall be carried out for motors of 300kW and above, as required by DNVGL rules Pt.4 Ch.8 Sec.1 Table 3.

Type Approval documentation

Tests carried out
IEC 60034-1:2010-02, IEC 92-301-3rd ed. 1980
GL Test requirements for Electrical Machinery (VI-7-6), edition 1999

Marking of product
Rotor B.V.– type designation – technical data including rated voltage, RPM, rated power, ambient temperature, rated current, rated frequency, insulation class, IP class.

Periodical assessment
The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:
- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE