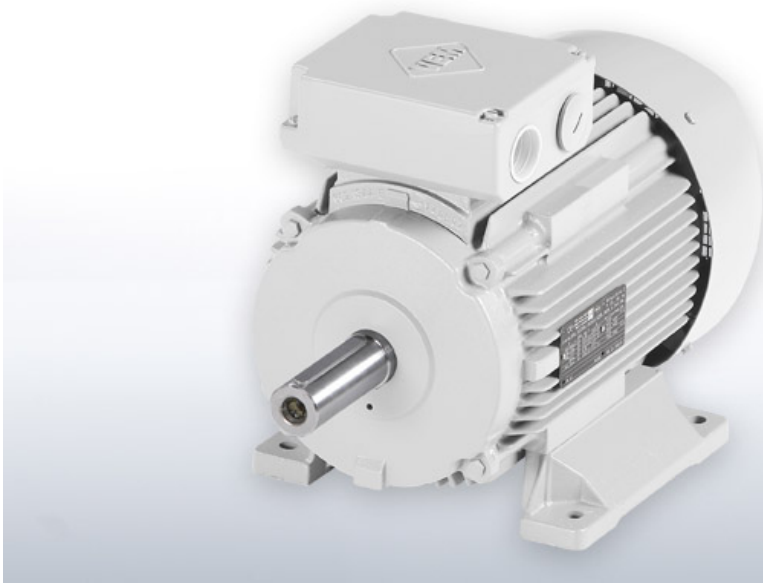


# Low-voltage Marine propulsion motors



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VEM motors and drives designed and intended for use in auxiliary power units on board of oceangoing vessels live up to those specific requirements encountered in such environments. These are, among others, high atmospheric humidity and salt content in the air, marine splash water and major temperature fluctuations. These motors conform to the requirements of national and international classification societies. They are designed according to and available with various types of protection and type series and for operation on deck or under deck respectively.

## Technical details

Frame sizes	56 – 400
Power output range	0.06 – 710 kW
Classification society	These motors are designed, tested, and available according to the regulations of the classification societies of Germanischer Lloyd, Det Norske Veritas, Lloyd's Register of Shipping, Russian Register, American Bureau of Shipping, Bureau Veritas and China Classification Society.
Efficiency classes according to IEC 60034-30	With due regard to VO(EG) 640/2009, these motors are available in the following design configurations: <ul style="list-style-type: none"><li>• without efficiency classification,</li><li>• Standard Efficiency IE1,</li><li>• High Efficiency IE2, and</li><li>• Premium Efficiency IE3</li></ul>
Speeds	3,000; 1,500; 1,000; 750 r.p.m., pole-changeable designs are available upon request
Types of protection	IP 55, optionally IP 56, IP 65 according to EN 60034-5 (IEC 60034-5)
Design type	IM B3, IM B35, IM B5, IM B14, IM B34 and derived designs according to EN 60034-7
Types of cooling	According to EN 60034-6 (IEC 60034-6) <ul style="list-style-type: none"><li>• self-ventilated, IC 411</li><li>• forced-ventilated, IC 416</li><li>• unventilated, IC 410</li></ul>
Coolant temperature / altitude of site	As a standard feature, -20°C through +40°C, optionally -40°C through +60°C, altitude of site 1,000 m above sea level
Transponder	Optional, RFID System iID@2000 (13.56 MHz based on ISO 15693)

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