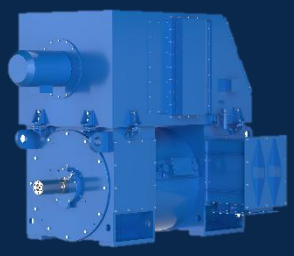
BEM

EN
2026



PORTFOLIO

ELECTRIC MOTORS

Delivering performance and durability in marine applications worldwide

BEM Electric Motors– EN 2026

QUICK REFERENCE

ML06 – ML12 | MH10 – MH60

EXPERTISE
Engineered by BEM

PROVED TECHNOLOGY
Marine class options

COST EFFECTIVE
Low total cost of ownership

Marine classification companies:

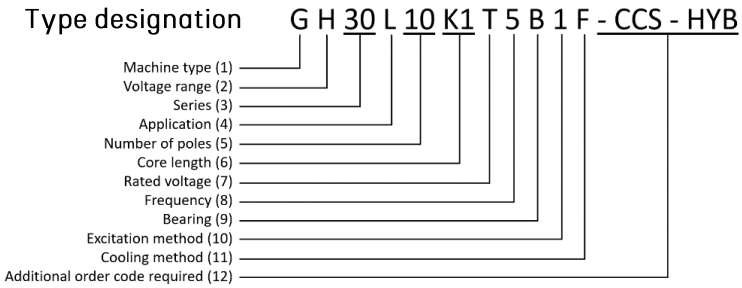
ABS / BV / CCS / DNV / LR / RINA

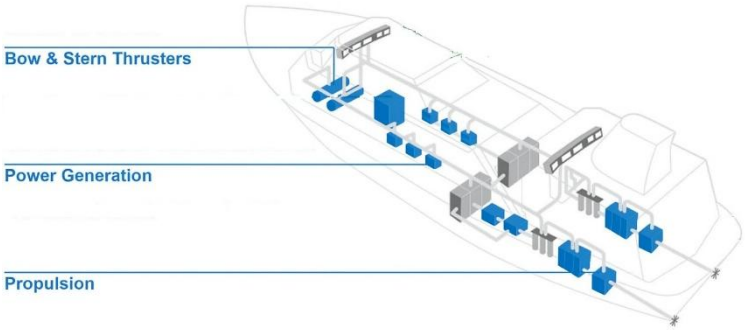
According to customer requirements

UL / CSA / NEMA

IEC / EN 60034, BS 5000, VDE 0530, ISO 8528-9

Alternators & Motors

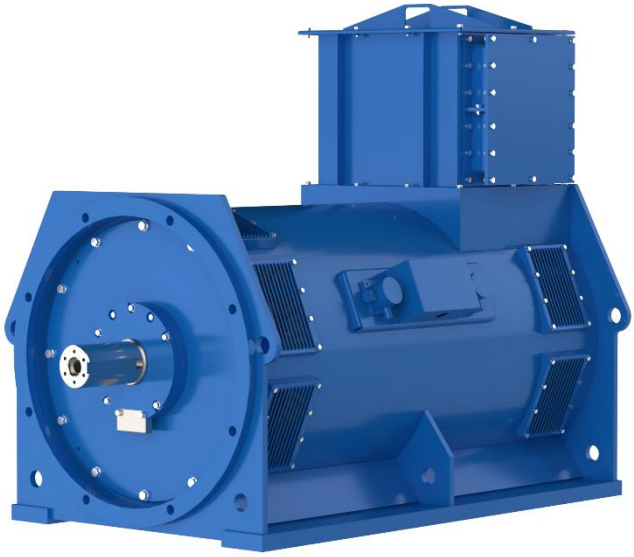




BEM Electric Motors Series ML & MH

Outstanding features are in compact dimensions optimized Class H of insulation system used along with frequency converters. The reinforced inter-turn insulation system is suitable for PWM-Converter operation (dv/dt <= 5 kV/ µs). These solutions can avoid the use of expensive and space-consuming sinus-filter systems. Both induction motors and permanent magnet motors are designed with the highest energy efficiency.

According to the requirements, electric motors can use permanent magnet rotors and squirrel cage rotors (copper bars). Permanent magnet rotor motors have more compact external dimensions and can be used in smaller installation spaces; The squirrel cage rotor motor can have more universal practicality.



Best choice for bow thrusters and main propulsion

Water Jacket Cooling IC71W

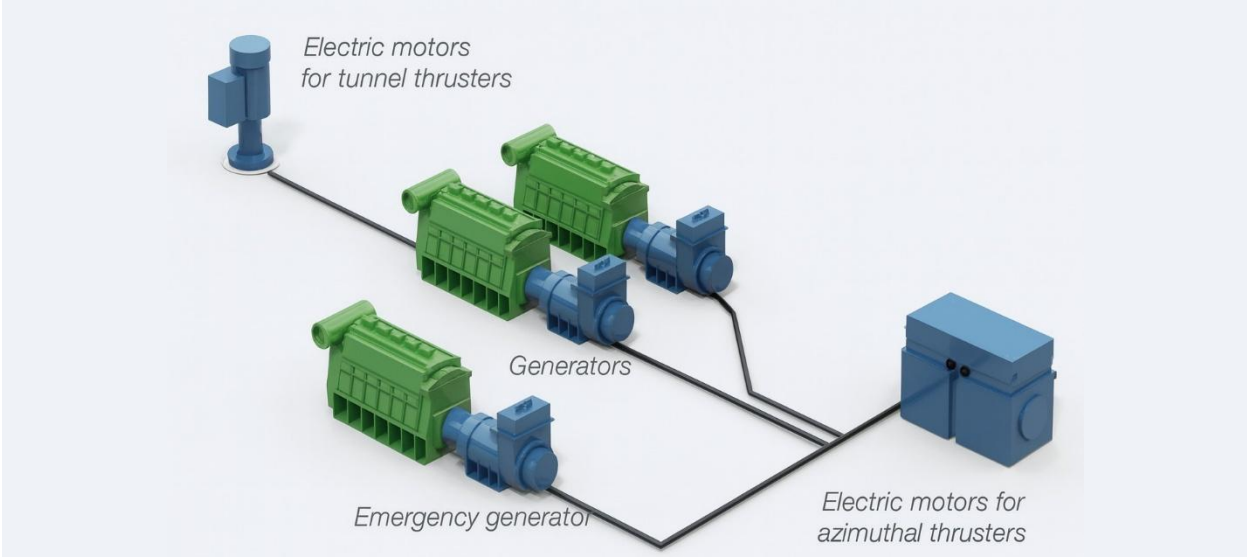
Air/Water Cooling IC86W

ML Specifications

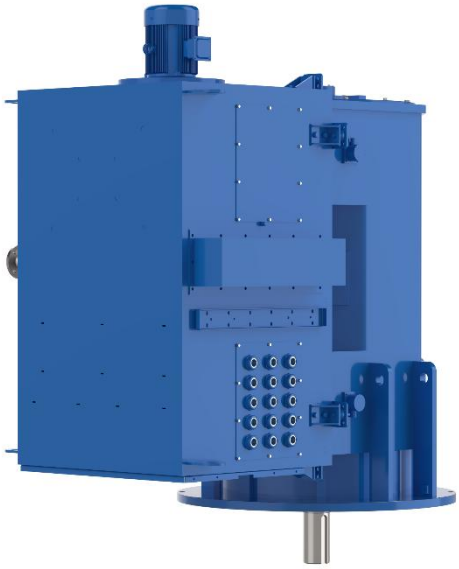
IM V1, IM 3011

LOW VOLTAGE INDUCTION OR PM MOTOR	
Frame size	ML06 - ML12
Power [kW]	355 – 4.000 *
Voltage Range [V]	380, 400, 460, 660, 690, 960 *
Poles	4, 6, 8, 10, 12 *
Speed	200 rpm – 1.800 rpm *

* other on request



Water Jacket Cooling IC71W



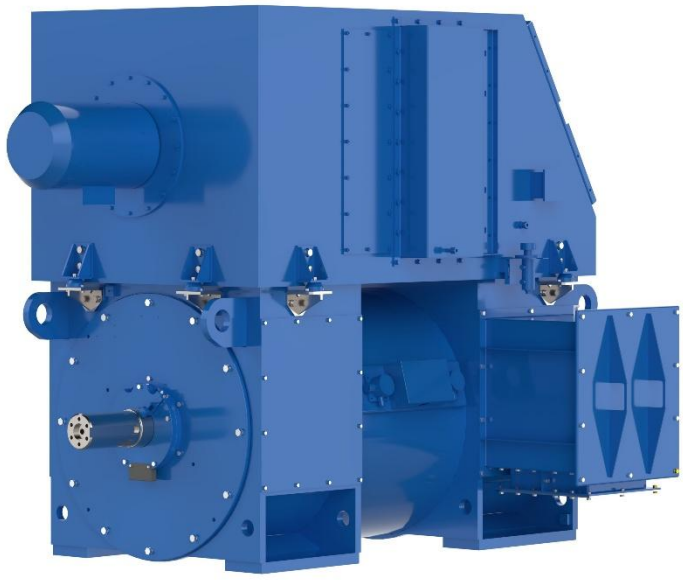
Air/Water Cooling IC86W

ML Specifications

IM V1, IM 3011

BOW THRUSTER- AND POD-MOTORS	
Frame size	ML07 - ML12 induction motor
Power [kW]	200 – 4.000 *
Voltage [V]	380 – 960 *
Poles	4, 6, 8 *
Mountig arrangement	IM V1 vertical mounting shaft downward
Cooling method	IC71W, IC86W enclosure rate IP55
Bearing type	Antifriction bearing *
Classification societies	DNV LR ABS BV CCS RINA *

* other on request

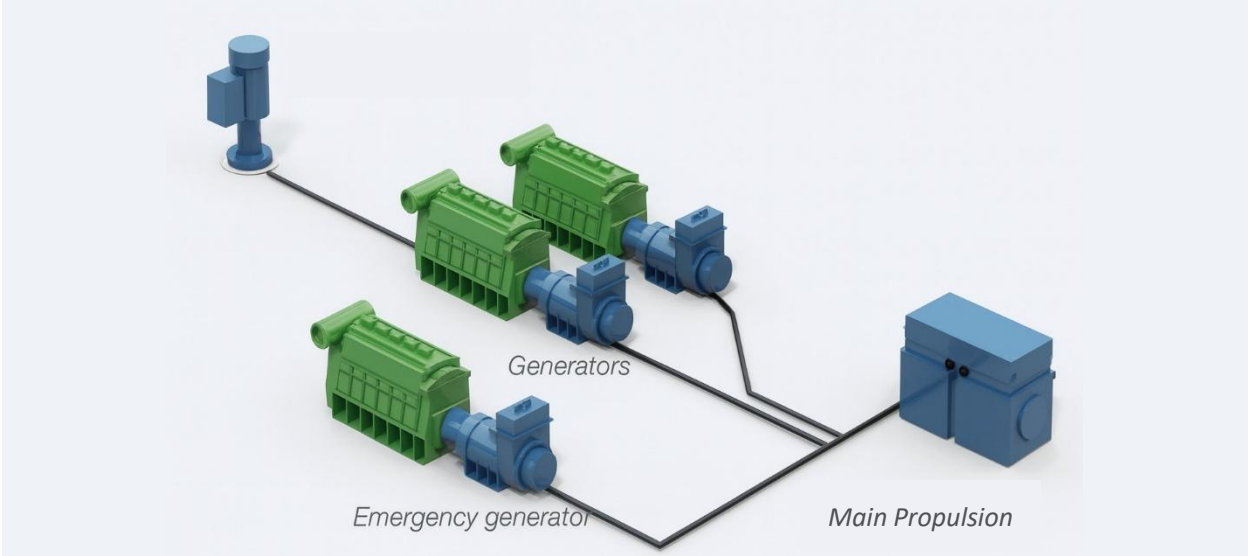


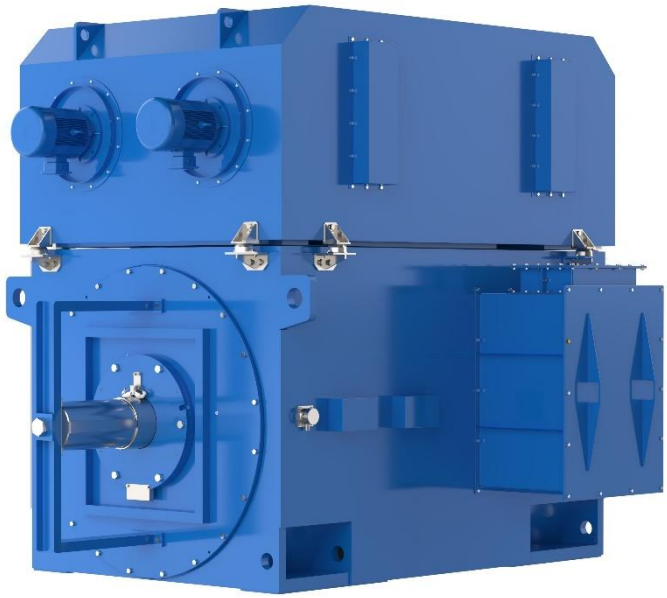
Best choice for main propulsion

MH Specifications

HIGH VOLTAGE INDUCTION MOTOR	
Frame size	MH10 – MH60
Power [kW]	200 – 4.000 *
Voltage Range [V]	3.300, 6.000, 6.600 *
Poles	4, 6, 8, 10, 12 *
Speed	200 rpm – 1800 rpm *

* other on request



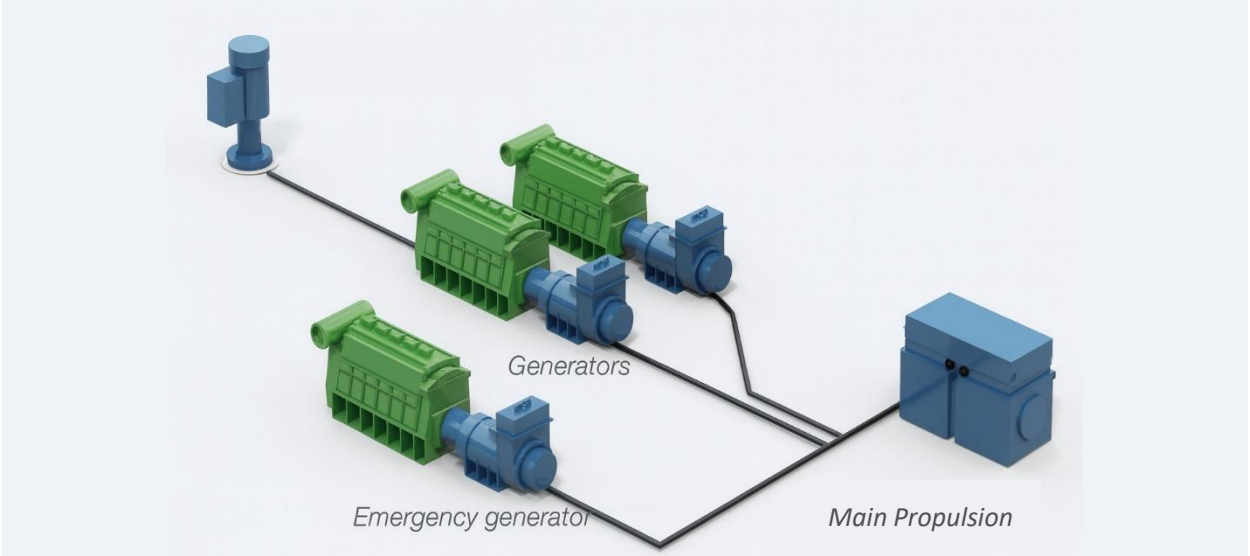


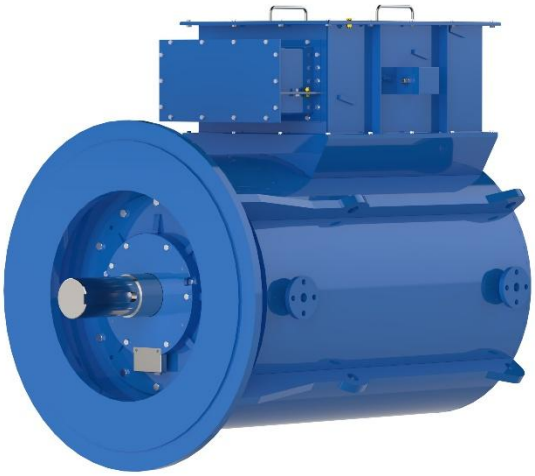
Best choice for main propulsion

MH Specifications

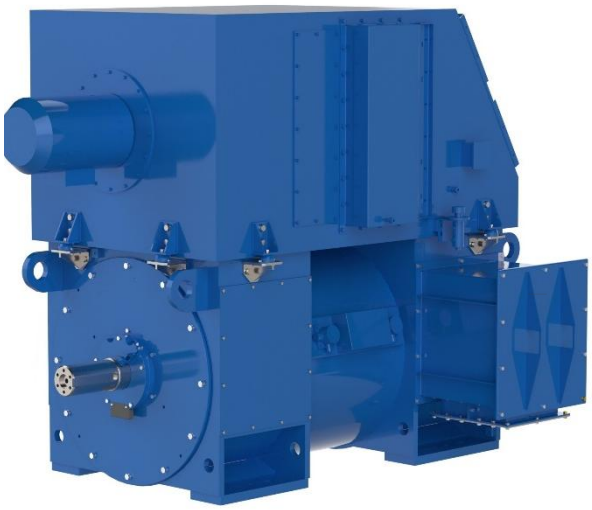
HIGH VOLTAGE INDUCTION MOTOR	
Frame size	MH10 – MH60
Power [kW]	220 – 4.000 *
Voltage Range [V]	10.000, 10.500*
Poles	4, 6, 8, 10, 12 *
Speed	200 rpm – 1.800 rpm *

* other on request





Water Jacket Cooling IC71W



Air/Water Cooling IC86W

ML Specifications

IM B3, IM1001

BOW THRUSTER- AND POD-MOTORS	
Frame size	ML07-ML12 & MH10-MH60 induction or PM-Motor
Power [kW]	200 – 4.000 *
Voltage [V]	380 – 960 & 3.300 – 11.500 *
Poles	4, 6, 8, 10, 12 *
Mountig arrangement	IM B3 horizontal mounting shaft at the base
Cooling method	IC71W IC86W enclosure rate IP55
Bearing type	Antifriction bearing & Sleeve bearing
Classification societies	DNV LR ABS BV CCS RINA *

* other on request