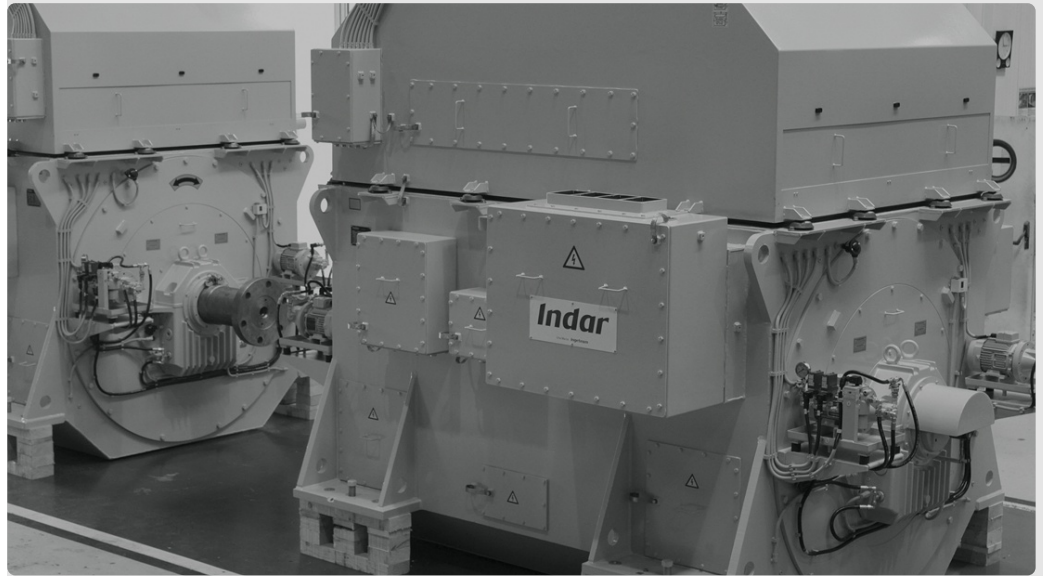


# INDAR

# IM

# Induction Motors



Indar offers customised machines based on the requirements of our clients. The **IM** series of induction motors is a clear example of our versatility and adaptability to the client's specific requirements based on standard criteria. This flexibility allows us to cover markets as varied and demanding such as silent propulsion for oceanographic vessels in compliance with the ICES 209 standard or the cement industry, amongst others. All of the motors in the **IM** series can be fed both directly from the electrical grid and from frequency converters.

The technical data in this catalogue is subject to change without prior notice. FY07INME01\_A0712 NJC

## Applications:

### The IMm series for marine applications:

- Marine: Propulsion, On-deck machinery

### The IMi series for standard industrial applications:

- Metal Industry: Rolling mills, Tube mills, Auxiliary systems (pumps, fan...)
- Mining: Lifting, Conveyor belts, Grinding mills
- Water treatment
- Cement Industry
- Power plants
- Test benches

Test	Procedure
Direct-current windings resistance measurement at cold condition	IEC 60034-4
Phase sequence check	IEC 60034-8
Temperature rise test	IEC 60034-1 IEC 60034-29
No-load saturation test (open circuit saturation curve)	IEC 60034-4
Iron losses measurement at no-load	IEC 60034-2-1
Friction and windage losses measurement (mechanical losses)	IEC 60034-2-1
Sustained three-phase short-circuit test (short-circuit curve)	IEC 60034-4
Additional load losses measurement (stray losses)	IEC 60034-2-1
Determination of efficiency	IEC 60034-2-1
Vibration level measurement	IEC 60034-14
Overspeed test	IEC 60034-1
Withstand voltage test (High voltage dielectric test)	IEC 60034-1
Insulation resistance and polarization index measurement	IEEE Std 43

Main features	IM
Rotor type Power Speed Voltage Temp. Increase Class Thermal Insul. Class Power Supply	Squirrel cage or wound rotor From 400 kW to 11,000 kW Up to 2,000 rpm / $2p \geq 4$ poles From 400 V to 15,000 V F (155 °C) / B (130 °C) Up to class H (180°C) PWM or sinusoidal
Construction Protection level (IEC 60034-5) Cooling (IEC 60034-6) Supports Types of atmosphere	Horizontal and vertical $IP \leq 67$ IC01, IC11, IC21, IC31, IC06, IC16, IC26, IC36, IC17, IC27, IC37, IC81W, IC86W, IC611, IC616, IC661 and IC666 With antifriction bearings or sleeve bearings Only safe atmospheres
Main options	Lubrication groups, hydrostatic groups, special sensors (vibrations, temperature, speed, etc.), transformers.

Our machines are designed, manufactured and tested according to the criteria and standards of the International Electrotechnical Commission. Indar's IMm series motors adapt to the requirements established by the various classifying bodies for marine application:



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