

**THREE PHASE SQUIRREL CAGE
INDUCTION MOTORS**

**IEC LOW VOLTAGE
ASYNCHRONOUS**

3M SERIES



INDUSTRY
ENERGY
MARINE
MINING

APPLICATIONS

3M SERIES MOTORS

VILMA MOTORS is a leading motors manufacturer in Europe which supplies AC electric motors for more than 90 years ushering in a new industrial era in Greece and abroad.

VILMA MOTORS **3M Low Voltage Series** can be applied for industrial, power plants, marine, ship-yards, pumps & fan applications.

Thoroughly designed, using modern techniques and enriched with knowledge gained over many years of expertise.

APPLICATIONS



INDUSTRY



ENERGY



MARINE



MINING

With proper maintenance 3M series is designed for long life operation. 3M series complies with EN IEC standards.

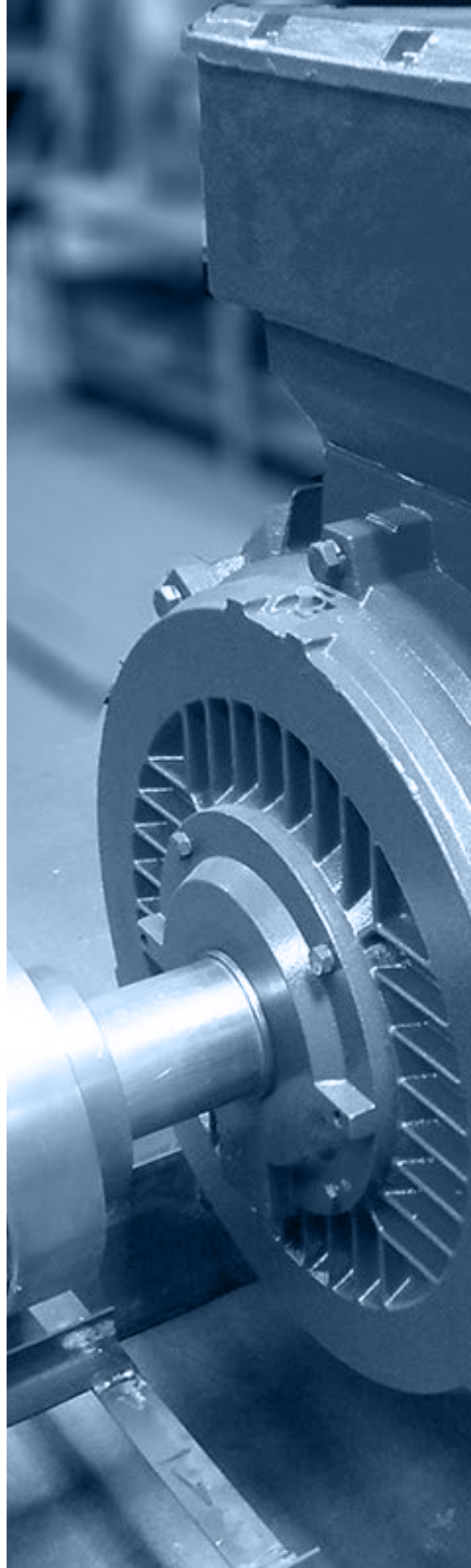
☑ CE Certified

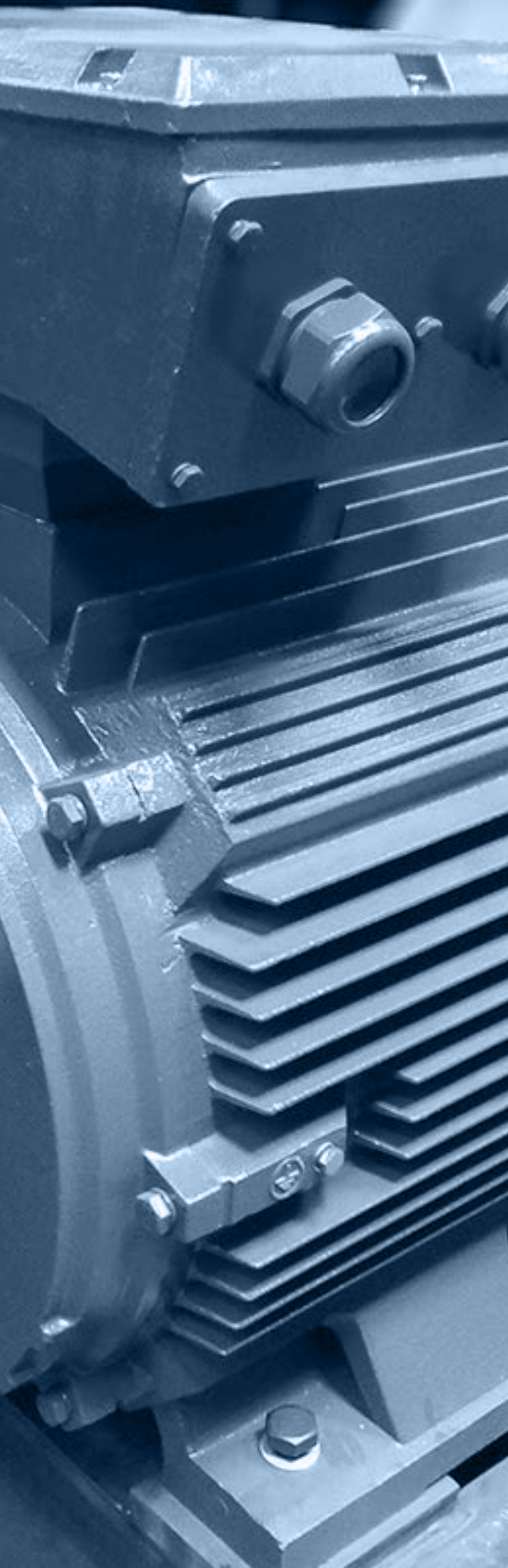
3M series are certified with CE marking according to the updated norms for:

- ✓ Low Voltage Directive
- ✓ Electromagnetic Compatibility Directive
- ✓ Machine Directive

☑ ISO Certified

3M series are manufactured according to the quality standard ISO 9001:2015.





FEATURES & GENERAL SPECS

Protection Enclosure

3M series are IP 55 standard IP 56, IP65, IP66 can be provided upon request

Insulation Class F

Insulation class F temperature rise B.

Insulation Class H can be provided upon request

Cooling Method

3M series are IC 411 Standard. IC 416, IC 418 can be provided upon request

Operation Duty

Duty S1 is for continuous operation at a constant load for time in order motor to reach its thermal equilibrium

Vibration Grade

3M series are N grade R & S grade can be provided upon request

Nominal Voltage & Frequency

380V, 400 V, 415 V at 50 Hz

440V, 460V at 60 Hz

Protection

PTC thermistors or Pt 100 in the windings

Pt 100 on bearings (optional)

Anticondensation heaters (optional)

Terminal Box

Terminal box rotation at 180 degrees

Energy Class

IE3 or IE4 acc. EN IEC 60034-30 - 1 : 2014



HEAD OFFICE

45 MICHALAKOPOULOU St
ATHENS, 11528, GREECE

Tel.: (+30) 210 4828 525

Fax: (+30) 210 4814 311

info@vilmamotors.com

www.vilmamotors.com