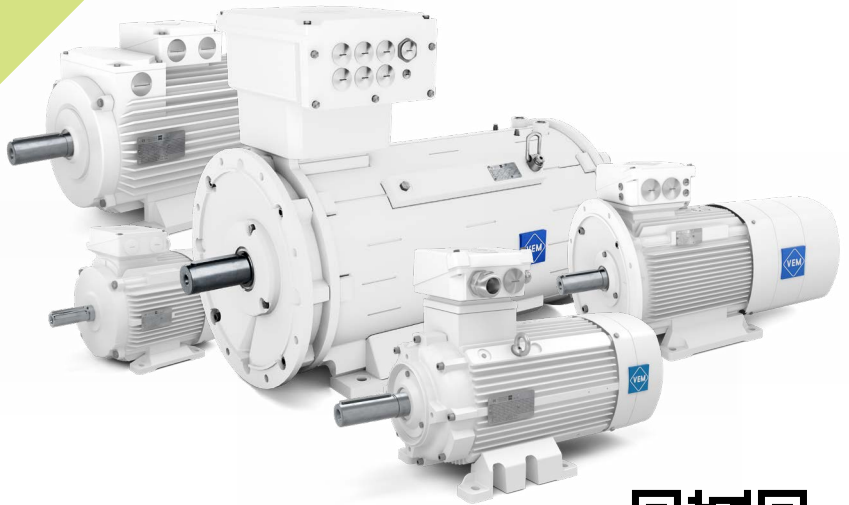




OUR PRODUCT RANGE FOR YOU



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YOUR partner for drive technology

Focus on special motors and machines tailored to **YOU** requirements



More than **30 million** electric motors in operation worldwide



Deliveries to costumers in over **90 countries**



1,400 dedicated employees worldwide



Around **200 €** annual turnover



Electrical engineering tradition since **1886**



Motors 0.06 kW - 60 MW
Generatoren bis zu 90 MVA

Product range of electric drive systems, special motors and special machines

MADE IN GERMANY



- Flexibility thanks to high vertical range of manufacture
- In-house design and development for tailor-made solutions
- Fast and reliable delivery of high-quality motors
- Durable and robust under extreme conditions
- Environmentally friendly and highly energy efficient
- Low operating costs

IEC standard motors with squirrel cage rotors

Efficiency class up to IE3

Power range	0.06 - 1,000 kW
Frame size	56 - 450
Speed	3,000/ 1,500/ 1,000/ 750/ 600/ 500 min ⁻¹ various pole combinations 2 to 12 poles

Efficiency class IE4

Power range	0.75 - 1,000 kW
Frame size	56 - 400
Speed	3,000/ 1,500/ 1,000/ 750 min ⁻¹

Pole-changing motors

Power range	0.12 - 500 kW
Frame size	56 - 400
Speed	various pole combinations 2 to 12 poles

Variable speed three-phase motors with squirrel cage rotor

Power range	0.75 - 1,000 kW
Frame size	56 - 450
Speed	3,000/ 1,500/ 1,000/ 750/ 600/ 500 min ⁻¹

in various IEC classifications
with constant and quadratic torque



Slip ring motors



ELECTRIC DRIVES
FOR EVERY DEMAND

Power range	2.2 - 250 kW
Frame size	132 - 315
Speed	1,500/ 1,000/ 750/ 600/ 500 min ⁻¹

Compact three-phase motors

Efficiency class up to IE5

Power range	0.37 - 22 kW
Frame size	71 - 180



Three-phase asynchronous generators

Efficiency class up to IE5

Power range	0.12 - 710 kW
Frame size	63 - 450
Speed	1,500/ 1,000/ 750/ 600/ 500 min ⁻¹

Build-in motors

Power range	0.06 - 355 kW
Frame size	56 - 355
Speed	3,000/ 1,500/ 1,000/ 750 min ⁻¹



Explosion-proof motors in accordance with 2014/34/EU (ATEX) in the following protection classes:

Efficiency class up to IE4

in the following zones/ areas

- | | |
|---|---------------|
| • increased safety „e“ („eb“) | 0.12 - 320 kW |
| • flameproof enclosure „d/de“ („db & db/eb“) Zone 2 | 0.12 - 250 kW |
| • „n“ non sparking (erhöhte Sicherheit) „ec“ Zone 2 | 0.12 - 710 kW |
| • Protection by enclosure „tb“ Zone 21 | 0.12 - 710 kW |
| • Protection through enclosure „tc“ Zone 22 | 0.12 - 710 kW |

Three-phase motors for use in mechanical smoke and heat extraction devices (DIN EN 12101-3:2015)

Efficiency class up to IE4

Power range

3 - 710 kW

For operating temperatures of:

200°C, 300°C, 400°C
and others on request

Single-phase motors

Efficiency class up to IE2

Power range

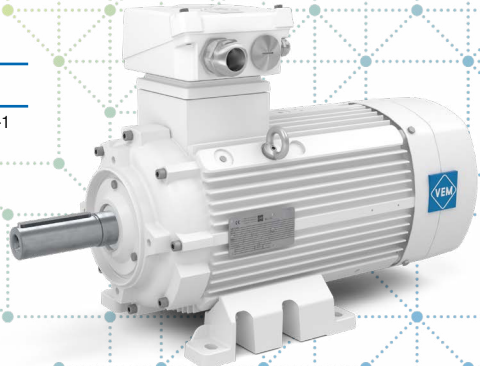
0.06 - 2.2 kW

Frame size

63 - 100

Speed

3,000/ 1,500 min⁻¹



Motors for marine applications



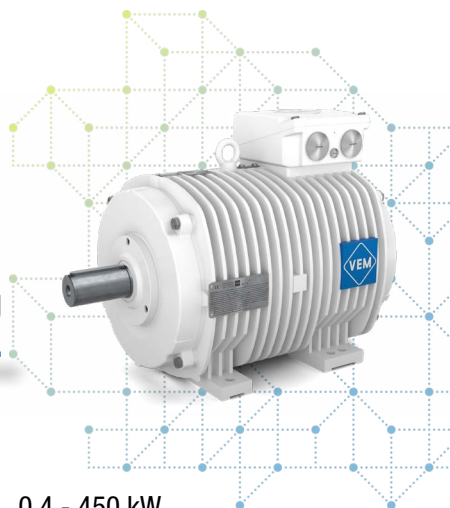
ELECTRIC DRIVES
FOR EVERY DEMAND

Efficiency class up to IE5

Power range	0.06 - 1,000 kW
Frame size	56 - 450
Speed	3,000/ 1,500/ 1,000, 750 min ⁻¹

Seawater protection according to various classification societies, including:

- DNV GL SE (DNV.GL)
- Bureau Veritas (BV)
- Lloyds Register of Shipping (LRS)
- American Bureau of Shipping (ABS)
- Registro Italiano Navale (RINA)
- Chinese Classification Society (CCS)
- and many more



Drive solutions for the steel and rolling mill industry

Efficiency class up to IE4

Three-phase roller table motors	0.4 - 450 kW
Three-phase gear motor rollers	0.4 - 450 kW
Three-phase motors for cranes in steelworks	2.2 - 250 kW

Drive solutions for cranes and winches

Efficiency class up to IE4

Three-phase asynchronous motors with squirrel cage rotor	0,12 kW - 1 MW
Frame size	63 - 450
IP23 electric motors	bis 1,650 kW
Frame size	bis 450

Permanent-magnet synchronous motors and asynchronous reluctance motors for drive operation

Efficiency class up to IE5

Ultra-premium-efficiency-motors

0.12 kW - 55 kW

High-power-motors

bis 1.3 MW

Modificationen

- Foot and flange designs
- Attached brakes from various manufactures
- Attached star-delta switch
- With thermal winding protection
- With forced ventilation
- Pole switching
- Voltage switching
- Memory version (RFID transponder)
- With incremental encoder (IGR) or tachogenerator
- Degree of protection up to IP68

Possible cooling types

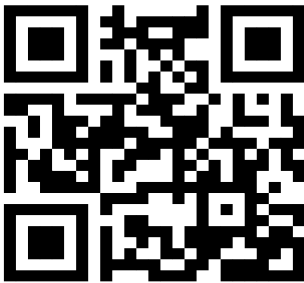
- Self-ventilated, IC 411
- Forced ventilation, IC 416
- Externally cooled, IC 418
- Unventilated, IC 410
- Water-cooled, IC 71W (IC 31W)





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