



ELECTRIC DRIVES
FOR EVERY DEMAND



Electric motors made in Germany
for port and general crane applications.

VEM – your competent partner for drive solutions

Focus on special motors and machines with customer specific requirements



more than **30 Mio.** electric motors in operation worldwide



1,400 committed employees globally



Delivery to customers in over **90 countries**



about **200 Mio. Euro** annual sales



Motors 0.06 kW - 60 MW
Generators up to 90 MVA



range of electrical drive systems, special motors and special machines



Electric engineering tradition since **1886**

MADE IN GERMANY

- Flexibility due to a high level of vertical integration
- Internal design and development for tailor-made solutions
- Fast and reliable deliveries of premium quality motors
- Durable and robust under extreme conditions
- Environmentally friendly and highly energy efficient
- Low “life cycle costs”

VEM - qualified and certified worldwide

Quality, environmental energy management	Chemicals, oil & gas	Shipbuilding	Product-specific approvals and certifications for selected countries
<ul style="list-style-type: none"> • EN ISO 9001 • EN ISO 14001 • EN ISO 50001 • EN ISO/IEC 80079-34 			

Our VEM product portfolio for the most diverse crane applications

VEM motors are exceptionally versatile, specifically engineered to power a wide range of crane tasks, including main hoists, boom hoists, trolleys and gantries. Their modular design facilitates seamless integration of additional components such as encoders, brakes, and ventilation units tailoring them to meet the requirements of each application. Moreover, these motors are obtainable with various corrosion protection systems, extending up to CX level. Thus, ensures long durability in diverse environments, particularly in harsh harbor, steel and offshore settings.

General technical information of three-phase asynchronous motors with squirrel-cage rotor

suitable for mains and converter-fed operation

Frame size	63 to 450
Number of poles	2- to 8-pole higher pole numbers and pole-changeable on request
Output range	0.12 to 1.650 kW
Duty cycle	S1, S2, S3, S4, S9
Frequency & voltage	according to customer requirements
Insulation class	155(F) or 180(H)
Type of protection	from IP 23 up to IP 66
Cooling type	self-ventilated IC411 forced ventilated IC416 & IC06 non-ventilated IC410
Motor component	cast iron or steel welded
Treatment	C2 up to C5m even CX is available



IP23 electric motors for power-optimized drive systems

Key features of IP23 electric motors

- Available up to frame size 450
- Rated power up to 1.650 kW
- Very high torque density
- Low rotor moment of inertia
- Compact designs
- High overload capacity
- Different mounting types
- Different voltage supplies and winding designs
- Speed-independent cooling for peak performance, regardless of different speeds





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