



**ELECTRIC DRIVES**  
FOR EVERY DEMAND



## Motors für use aboard ships

Designed for IE1, IE2 and IE3

[www.vem-group.com](http://www.vem-group.com)





# Motors for use aboard ships

Drives for fans, pumps, capstans, turning and hoisting gear

## Fit for service on all oceans

High levels of humidity and the salt content in the air, splashing seawater and great temperature differences in the course of a trans-ocean passage place especially exacting demands on the machines installed on ships. When it comes to drives for auxiliary equipment on board maritime vessels, VEM motors in seawater-protected versions are an ideal choice, because they

- › are designed to withstand the special climatic and mechanical conditions of such fields of application
- › comply with all regulations of the national and international classification societies
- › have been proven over decades of use on passenger and container ships, cargo and fishing vessels, tankers and dredgers on all the world's oceans.

## Installation above and below deck

The most important criterion when selecting machines for maritime use is the installation location of the individual motor: Motors for on-deck use are designed for protection to IP 56 without external fans. As the motors have no external fans, whereby cooling is solely by way of radiation to the ambient air, the outputs

are reduced to approx. 30 – 40% for continuous duty compared to the basic series.

Motors for use below deck are designed appropriately to their intended applications, either with protection to IP 55 for general use, e.g. in the engine room, or with protection to IP 56 for rooms subject to spraying or splashing water.

## Certified and tested worldwide

The motors are manufactured, tested and can be supplied in accordance with the regulations of the classification societies DNV GL, Lloyd's Register of Shipping, Russian Register, American Bureau of Shipping, Bureau Veritas and China Classification Society.

Our customers include, among others: Nordic Yards Warnemünde (Kvaerner Warnow Werft), Fassmer-Werft, Peene-Werft, Mützelfeldtwerft, Nobiskrug-Werft, Meyer Werft, Flensburger Schiffbau-Gesellschaft, Howaldtswerke-Deutsche Werft (Germany), Nichols Bros. Boat Builders (USA), Hudong-Zhonghua Shipbuilding (China), Mitsubishi Heavy Industries (Japan), Hyundai Heavy Industries (South Korea).



VEM presents a wide range of motors for installation above and below deck on maritime vessels of all kinds.

<b>Series</b>	<b>KPER/K11R, WE.R, W2.R and W4.R, mounting dimensions and output correlation acc. to DIN EN 50347</b> <b>KPR/K10R, Transnorm version</b>
Sizes	56 to 400
Output range	0.09 – 710 kW
Efficiency class	IE1, IE2 and IE3 acc. to IEC/EN 60034-30-1 in the power range 0.75 ... 710 kW, 2-, 4-, 6- and 8-pole
Degree of protection	IP 55 acc. to IEC/EN 60034-5, higher degrees of protection as an option
Types of construction	IM B3, IM B35, IM B5 and derived types of construction acc. to IEC/EN 60034-7
Ambient temperatures	acc. to regulations of classification societies
Cooling method	IC 410, IC 411 acc. to IEC/EN 60034-6

Please refer to our catalogues for technical details. The catalogues are available in printed or in digital version on DVD. They are also available in the internet.



### **VEM Holding GmbH**

Pirnaer Landstraße 176  
D-01257 Dresden

Phone: +49 351 208-0  
Fax: +49 351 208-1028

### **VEM Sales**

#### **Low voltage**

Phone: +49 3943 68-0  
E-Mail: [motors@vem-group.com](mailto:motors@vem-group.com)

#### **High voltage**

Phone: +49 351 208-0  
E-Mail: [sachsenwerk@vem-group.com](mailto:sachsenwerk@vem-group.com)

#### **Drive systems**

Phone: +49 30 9861-2104  
E-Mail: [transresch@vem-group.com](mailto:transresch@vem-group.com)



For detailed information  
please visit our website.

[www.vem-group.com](http://www.vem-group.com)