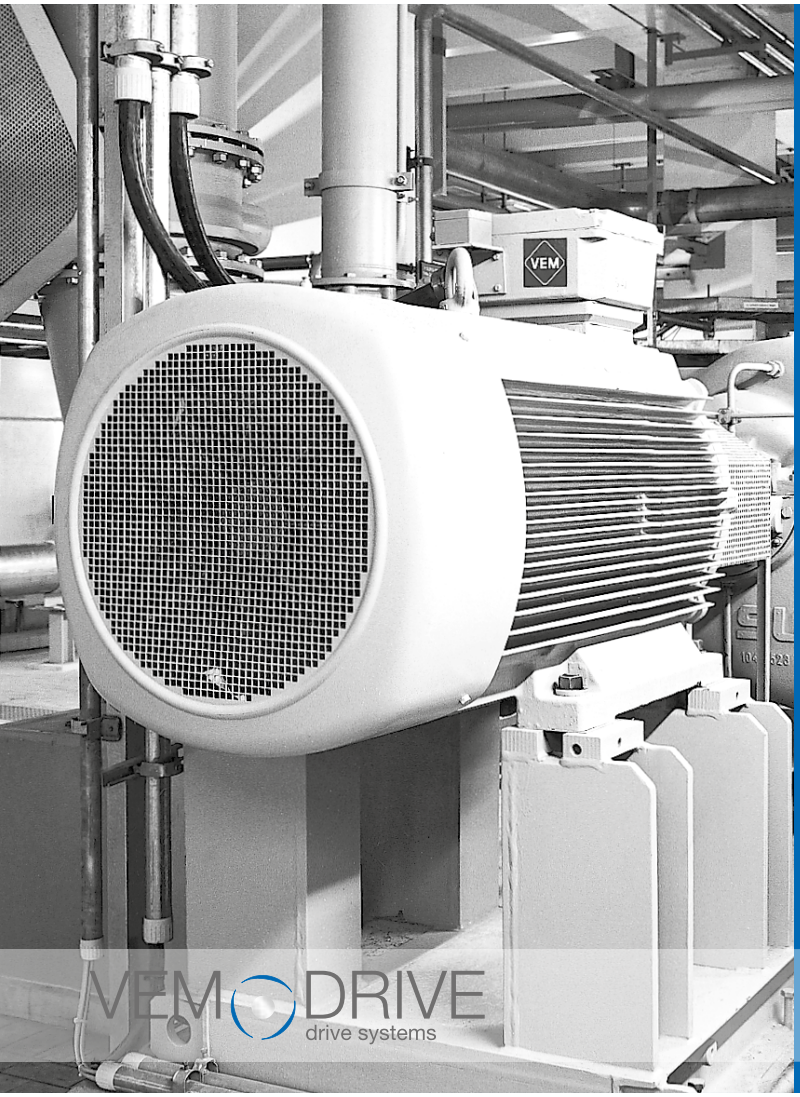
ELECTRIC DRIVES
FOR EVERY DEMAND



Drive Solutions up to 28 MW

VEM DRIVE drive systems

www.vem-group.com

VEMoDRIVE Product Information

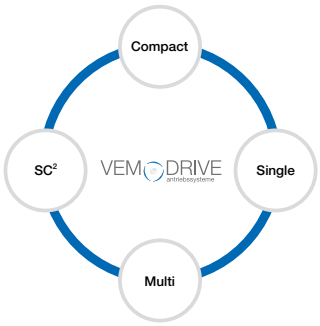
VEMoDRIVE Drive Solutions

VEMoDRIVE is the brand name under which VEM manufactures and supplies controlled drive systems comprising motors, frequency inverter/DC converters and transformers for an output range from 0.55 to 28 MW – for both low and medium voltages. The VEMoDRIVE concept marries robust VEM motors with drive components from other leading manufacturers and guarantees maximum flexibility when addressing drive and automation tasks, whether for new plant or for modernisation projects. VEMoDRIVE covers applications from compact single drives to complex multiple-motor drive systems, including all necessary project design services:

VEMoDRIVE Compact	–	Compact drives
VEMoDRIVE Single	–	Single drives
VEMoDRIVE Multi	–	Multi-motor drives
VEMoDRIVE SC²	–	Subsynchronous converter cascades

As a leading supplier of electric machines and as a specialist for automation and drive equipment, VEM possesses decades of experience in the planning, manufacturing, delivery, installation and commissioning of controlled three-phase drives and complete drive solutions. That is also the foundation for guaranteed high quality, reliability and customer satisfaction.

From development through to aftersales service, VEM is focussed on meeting user-specific demands. By cooperating closely with the customer during the design phase, we can optimize our drive system and make it economical in terms of investment and operating costs. If you wish, we can also train your service personnel in maintenance and operation of the system.



System
Output range
Voltage range
Motor
Type
Cooling
Converter
Type
Mains connection
Output frequency
Operating mode
Cooling
Transformer
Design
Type
Engineering/ automation
Benefits
Fields of application

VEMoDRIVE Compact	VEMoDRIVE Single			VEMoDRIVE Multi		VEMoDRIVE SC²
Compact drive systems for general applications	Drive systems for general applications			Drive systems for special applications		Retrofit solutions
0.55 kW–22 kW	0.06 kW–5.6 MW	250 kW–22 MW	2 MW–28 MW	1.1 kW–2.9 MW	3 MW–28 MW	500 kW–12 MW
380 V–480 V 440 V–525 V	230 V–690 V	2.3 kV–11 kV	2.1 kV–10 kV	230 V–690 V	3 kV–3.3 kV	to 10 kV
LV	LV	MV	MV	LV	MV	MV
IE2, IE3 and IE4 motors with mounted frequency converter	Energy-efficient motors and special motors for converter-fed operation	Asynchronous, synchronous or permanent-magnet motors for converter-fed operation	Synchronous motors	Asynchronous, synchronous or permanent-magnet motors for converter-fed operation		Slip-ring motors
Air	Air-air/air-water	Air-air/air-water	Air-air/air-water	Air-air/air-water	Air-air/air-water	Air-air/air-water
VSI	VSI	VSI	LCI	VSI	VSI	Converter cascade
6-pulse	6/12-pulse	12/24/36-pulse	6/12/24-pulse	6/12-pulse	12/24-pulse	6-pulse
60/100 Hz	0 – 400 Hz	66/75 Hz	60 Hz	120 (300) Hz	75 Hz	0.5 to fn
2Q	2Q/4Q	2Q/4Q	4Q	2Q/4Q	2Q/4Q	2Q
Air	Air/water	Air/water	Air/water	Air/water	Air/water	Air/water
-	Dry/oil	Dry/oil	Dry/oil	Dry/oil	Dry/oil	Dry
-	Project-dependent	Project-dependent	Project-dependent	Project-dependent	Project-dependent	Project-dependent
The VEMoDRIVE drive concept can be tailored to an individual application and comprises the following elements, as appropriate for the drive output and application circumstances: Technical advice - Component selection - Project design - Cable project - Manufacture - Delivery - Installation - Commissioning - After-sales service						
- Compact, ready-assembled drive system - Can be used with unshielded mains cable - High vibration strength and protection category - No du/dt filter necessary - Ready for immediate use	- For wall mounting (up to 200 kW) or as ready-assembled cabinet system - Long service life - Numerous options - Robust design	- Small cable cross-sections - Direct-to-line connection, depending on type - Numerous options - depending on the application with transformer	- Soft starting - Customer-specific design	Multi-motor drives on the DC busbar - Robust design - Long service life	- Minimal mains pollution - High reliability	- Cost-effective retrofit solution by use of existing motors, cables, transformers - Minimum downtime during retrofit - Integration into automation/control system
Driven machines with predominantly quadratic torque characteristic, e.g. pumps and fans	Industrial applications, such as pumps, fans, centrifuges, conveyors, grinding mills, compressors, test stands, extruders		Pumps, fans, compressors	Industrial applications, such as pumps, fans, conveyors, test stands, rolling mill drives, etc.		Pumps, fans, briquetting presses, grinding mills, mixers, kneaders, worm extruders

© 2015 KOMMUNIKATION SCHNELL GmbH
VMUK_VM01-002-EN-11/15 Printed in Germany. Subject to change.

VEM Holding GmbH

Pirnaer Landstraße 176
D-01257 Dresden

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

VEM Sales

Low voltage department

Phone: +49 3943 68-0
E-Mail: low-voltage@vem-group.com

High voltage department

Phone: +49 351 208-0
E-Mail: high-voltage@vem-group.com

Drive systems department

Phone: +49 30 9861-2104
E-Mail: drive-systems@vem-group.com

For detailed information
please visit our website.

www.vem-group.com