

Datasheet VM622-18W0300 + VP-Inverter

Art. Nr. VM622-18W0300-RH3030-0810



The illustration may contain optional equipment.

Description

DirectDrive VECTOMOTOR with 3000 Nm peak torque for mobile applications, optimized for direct connection to the cardan shaft, without additional gearbox; winding in star connection.

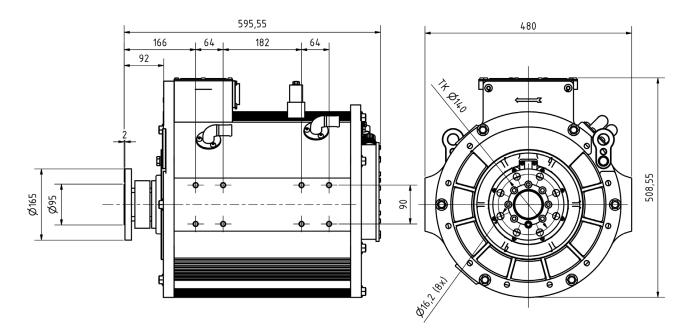
Application areas

- · Direct cardan drives for example for trucks
- Off-highway drivetrains with and without gearbox
- High-power PTO applications

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Motor drawing



Motor general data

Motor overview		
Article no.	VM622-18W0300-RH3030-0810	
Motor topology	PM reluctance	
Size		
Weight	257 kg	
Diameter shaft	65 mm + special flange	
Length shaft	91 mm	
Length	504 mm	
Total length including shaft	596 mm	
External diameter	480 mm	

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Technical data		
IP	IP68	
Nominal torque	1400 Nm	
Peak torque 10 sec	3000 Nm	
Peak torque 60 sec	2033 Nm	
Overload torque 600 sec	1750 Nm	
Max speed	3000 rpm	
Rated speed	1230 rpm	
Rated current	320 Arms	
Rated power	180 kW	
Peak current 10 sec	750 Arms	
Torque constant	4,37 Nm / Arms	
Typical battery voltage	670 VDC	
Max. efficiency	95,9%	
Temperature sensor	Pt1000	
Number of polepairs	6	
Resolver	Shanghai Yingshuang	
Wiring	star connection	
Inertia of rotor	0,69 kg*m*m	

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Cooling	
Liquid cooling	yes
Cooling medium	water / glycol (50:50)
Cooling water connection (screw thread)	Ø25 mm
Min. coolant throughput	20 I / min, pressure drop: 220 mbar
Max. inlet coolant temperature	60 °C
Max. pressure	1400 mbar

Signal connector data

Plug type		Amphenol RT001619PN03
Pin no.	I/O	Туре
А	R1	Female
В	R2	Female
Ρ	R1/R2 shielded	Female
С	S1	Female
D	S3	Female
R	S1/S3 shielded	Female
E	S2	Female
F	S4	Female
S	S2/S4 shielded	Female
G	ТН	Female
н	TL	Female
т	TH/TL shielded	Female



Motor-inverter combinations

1230 rpm
1192 Nm
153 kW
1750 Nm
2470 Nm
2700 Nm