SIEMENS SIMOTICS M-1FE1 synchronous built-in motor

MLFB-Ordering data

1FE1093-6WV31-1BC2



Figure simila

Client order no. :	Item no. :
Order no. :	Consignment no. :
Offer no. :	Project :
Remarks :	

Engineering data		Mechanical data	
Rated power	16.8 kW	Motor length	250 mm
Rated speed	1600 rpm	Outer diameter stator	205.0 mm
Rated torque	100.0 Nm	Inner diameter rotor	80.0 mm
Rated current	43 A	Stator design	with cooling jacket
Static torque	100.00 Nm	Rotor design	with rotor sleeve (large bore diameter)
Static current	43.00 A		
Maximum speed	7000 rpm	Motor protection	Cast winding with full protection (2 temperature sensors + 3 PTCs)
Maximum torque	165.0 Nm		
Maximum current	86 A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Rotor moment of inertia	301.7 kgcm²		
VPM module *	Voltage limitation required (VPM or IVP)	Cable outlet	Free cable ends 500 mm (cable outlet at the larger outside housing diameter)
Physical constants		Scope of delivery	Stator + Rotor
Voltage constant at 20° C	168.0 V/1000*min ⁻¹		
Winding resistance at 20° C	0.2900 Ω		
Rotary field inductance	6.80 mH		
Thermal time constant	3 min		
Net weight of rotor	10.5 kg		
Net weight of stator	28.0 kg		
Total net weight	38.5 kg		

^{*} VPM: Voltage Protection Module