

SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor



Figure similar

MLFB-Ordering data1FE1072-4WL31-6BA2

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data		Mechanical data	
Rated power	20.0 kW	Motor length	185 mm
Rated speed	6800 rpm	Outer diameter stator	155.0 mm
Rated torque	28.0 Nm	Inner diameter rotor	58.0 mm
Rated current	45 A	Stator design	with cooling jacket
Static torque	28.00 Nm	Rotor design	without rotor sleeve
Static current	45.00 A		
Maximum speed	24000 rpm	Motor protection	Cast winding with full protection (2 temperature sensors + 3 PTCs)
Maximum torque	53.0 Nm		
Maximum current	90 A	Temperature monitoring	Pt1000 temperature sensor in the stator winding
Rotor moment of inertia	28.7 kgcm²		
VPM module *	Voltage limitation required (VPM or IVP), if the motor is used above n_max_inv (maximum permissible speed without VPM)	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	46.0 V/1000*min ⁻¹		
Winding resistance at 20° C	0.2000 Ω		
Rotary field inductance	3.20 mH		
Thermal time constant	2 min		
Net weight of rotor	2.2 kg		
Net weight of stator	12.5 kg		
Total net weight	14.7 kg		

* VPM: Voltage Protection Module