

SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor



Figure similar

MLFB-Ordering data1FE1075-4WQ51-1BA3

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

Item no. :  
Consignment no. :  
Project :

Engineering data		Mechanical data	
Rated power	23.6 kW	Motor length	335 mm
Rated speed	3000 rpm	Outer diameter stator	155.0 mm
Rated torque	75.0 Nm	Inner diameter rotor	58.0 mm
Rated current	51 A	Stator design	with cooling jacket
Static torque	75.00 Nm	Rotor design	without rotor sleeve
Static current	51.00 A	Motor protection	Cast winding with universal protection (2 temperature sensors + 3 PTCs + NTC PT3-51F + NTC K227)
Maximum speed	14000 rpm	Temperature monitoring	KTY84 temperature sensor in the stator winding
Maximum torque	135.0 Nm	Cable outlet	free cable ends 500 mm (cable outlet at the smaller outside housing diameter)
Maximum current	105 A	Scope of delivery	Stator + Rotor
Rotor moment of inertia	74.1 kgcm²		
VPM module *	Voltage limitation required (VPM or IVP), if the motor is used above n_max_inv (maximum permissible speed without VPM)		
Physical constants			
Voltage constant at 20° C	100.0 V/1000*min <sup>-1</sup>		
Winding resistance at 20° C	0.2400 Ω		
Rotary field inductance	5.80 mH		
Thermal time constant	2 min		
Net weight of rotor	5.5 kg		
Net weight of stator	23.0 kg		
Total net weight	28.5 kg		

\* VPM: Voltage Protection Module