

# SIEMENS

## SIMOTICS M-1FE1 synchronous built-in motor



Figure similar

MLFB-Ordering data

1FE1042-6WR30-1BA2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated power	11.5 kW	Motor length	157 mm
Rated speed	10000 rpm	Outer diameter stator	95.0 mm
Rated torque	11.0 Nm	Inner diameter rotor	44.0 mm
Rated current	19 A	Stator design	with cooling jacket
Static torque	11.00 Nm	Rotor design	without rotor sleeve
Static current	19.00 A	Motor protection	Cast winding with full protection (2 temperature sensors + 3 PTCs)
Maximum speed	15000 rpm	Temperature monitoring	KTY84 temperature sensor in the stator winding
Maximum torque	20.0 Nm	Cable outlet	Free cable ends 500 mm (cable outlet at the larger outside housing diameter)
Maximum current	38 A	Scope of delivery	Stator + Rotor
Rotor moment of inertia	0.00033 kgcm <sup>2</sup>		
VPM module *	no voltage limitation required		
Physical constants			
Voltage constant at 20° C	41.0 V/1000*min <sup>-1</sup>		
Winding resistance at 20° C	0.6800 Ω		
Rotary field inductance	2.20 mH		
Thermal time constant	1 min		
Net weight of rotor	0.6 kg		
Net weight of stator	4.0 kg		
Total net weight	4.6 kg		

\* VPM: Voltage Protection Module