

# SIEMENS

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



Figure similar

MLFB-Ordering data

1FE1093-6WV11-1BB2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

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	67.0 mm
Rated current	43 A	Stator design	with cooling jacket
Static torque	100.00 Nm	Rotor design	with standard rotor sleeve (compatible with 1PH2)
Static current	43.00 A	Motor protection	Cast winding with standard protection (2 temperature sensors)
Maximum speed	7000 rpm	Temperature monitoring	KTY84 temperature sensor in the stator winding
Maximum torque	165.0 Nm	Cable outlet	Free cable ends 500 mm (cable outlet at the larger outside housing diameter)
Maximum current	86 A	Scope of delivery	Stator + Rotor
Rotor moment of inertia	0.03346 kgcm <sup>2</sup>		
VPM module *	Voltage limitation required (VPM or IVP)		
Physical constants			
Voltage constant at 20° C	168.0 V/1000*min <sup>-1</sup>		
Winding resistance at 20° C	0.2900 Ω		
Rotary field inductance	6.80 mH		
Thermal time constant	3 min		
Net weight of rotor	12.7 kg		
Net weight of stator	28.0 kg		
Total net weight	40.7 kg		

\* VPM: Voltage Protection Module