

SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor



Figure similar

MLFB-Ordering data

1FE1051-6WN10-1BA2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated power	6.3 kW
Rated speed	6000 rpm
Rated torque	10.0 Nm
Rated current	15 A
Static torque	7.50 Nm
Static current	11.00 A
Maximum speed	12300 rpm
Maximum torque	17.0 Nm
Maximum current	30 A
Rotor moment of inertia	10.6 kgcm ²
VPM module *	no voltage limitation required

Physical constants

Voltage constant at 20° C	47.0 V/1000*min ⁻¹
Winding resistance at 20° C	1.1300 Ω
Rotary field inductance	5.20 mH
Thermal time constant	2 min
Net weight of rotor	1.2 kg
Net weight of stator	4.0 kg
Total net weight	5.2 kg

Mechanical data

Motor length	170 mm
Outer diameter stator	115.0 mm
Inner diameter rotor	42.0 mm
Stator design	with cooling jacket
Rotor design	without rotor sleeve
Motor protection	Cast winding with standard protection (2 temperature sensors)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Cable outlet	Free cable ends 500 mm (cable outlet at the larger outside housing diameter)
Scope of delivery	Stator + Rotor

* VPM: Voltage Protection Module