

SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor



Figure similar

MLFB-Ordering data

1FE1061-6WH50-1BB0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated power	11.6 kW
Rated speed	8500 rpm
Rated torque	13.0 Nm
Rated current	21 A
Static torque	13.00 Nm
Static current	21.00 A
Maximum speed	12000 rpm
Maximum torque	24.0 Nm
Maximum current	42 A
Rotor moment of inertia	24.2 kgcm ²
VPM module *	no voltage limitation required

Physical constants

Voltage constant at 20° C	42.0 V/1000*min ⁻¹
Winding resistance at 20° C	0.4700 Ω
Rotary field inductance	1.96 mH
Thermal time constant	2 min
Net weight of rotor	2.1 kg
Net weight of stator	4.0 kg
Total net weight	6.1 kg

Mechanical data

Motor length	130 mm
Outer diameter stator	130.0 mm
Inner diameter rotor	48.0 mm
Stator design	with cooling jacket
Rotor design	with standard rotor sleeve (compatible with 1PH2)
Motor protection	Cast winding with universal protection (2 temperature sensors + 3 PTCs + NTC PT3-51F + NTC K227)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Cable outlet	free cable ends 1500 mm (cable outlet at the larger outside housing diameter)
Scope of delivery	Stator + Rotor

* VPM: Voltage Protection Module