SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor

Article No. : **1FE1052-4HD10-6BA0**



Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated power	31.4 kW
Rated speed	25,000 rpm
Rated torque	12.0 Nm
Rated current	57 A
Static torque	12.00 Nm
Static current	57.00 A
Maximum speed	40,000 rpm
Maximum torque	24.0 Nm
Maximum current	114 A
Rotor moment of inertia	8.7 kgcm²
VPM module *	no voltage limitation required

Physical constants	
Voltage constant at 20° C	14.0 V/1000*min^{-1}
Winding resistance at 20° C	0.0890 Ω
Rotary field inductance	0.38 mH
Thermal time constant	1 min
Net weight of rotor	1.1 kg
Net weight of stator	7.0 kg
Total net weight	8.2 kg

Mechanical data	
Motor length	180 mm
Outer diameter stator	120.0 mm
Inner diameter rotor	46.0 mm
Stator design	with cooling jacket
Rotor design	without rotor sleeve
Motor protection	Cast winding with standard protection (2 temperature sensors)
Temperature monitoring	Pt1000 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