SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor

Article No. : **1FE1084-4WN11-6BA0**



Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated power	38.0 kW
Rated speed	4,300 rpm
Rated torque	84.0 Nm
Rated current	105 A
Static torque	84.00 Nm
Static current	105.00 A
Maximum speed	20,000 rpm
Maximum torque	140.0 Nm
Maximum current	210 A
Rotor moment of inertia	111.8 kgcm²
VPM module *	Voltage limitation required (VPM or IVP), if the motor is used above n_max_inv (maximum permissible speed without VPM)

Physical constants	
Voltage constant at 20° C	59.0 V/1000*min^{-1}
Winding resistance at 20° C	0.0600 Ω
Rotary field inductance	2.30 mH
Thermal time constant	3 min
Net weight of rotor	6.2 kg
Net weight of stator	25.0 kg
Total net weight	31.2 kg

Mechanical data	
Motor length	290 mm
Outer diameter stator	180.0 mm
Inner diameter rotor	68.0 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