SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor

Article No. : **1FE1083-6WP31-6BB0**



Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated power	35.5 kW
Rated speed	3,500 rpm
Rated torque	97.0 Nm
Rated current	66 A
Static torque	97.00 Nm
Static current	66.00 A
Maximum speed	9,000 rpm
Maximum torque	161.0 Nm
Maximum current	132 A
Rotor moment of inertia	253.5 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	102.0 V/1000*min^{-1}
Winding resistance at 20° C	0.1300 Ω
Rotary field inductance	2.50 mH
Thermal time constant	2 min
Net weight of rotor	10.6 kg
Net weight of stator	17.0 kg
Total net weight	27.6 kg

Mechanical data	
Motor length	245 mm
Outer diameter stator	190.0 mm
Inner diameter rotor	67.0 mm
Stator design	with cooling jacket
Rotor design	with standard rotor sleeve (compatible with 1PH2)
Motor protection	Cast winding with full protection (2 temperature sensors + 3 PTCs)
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