

SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor



Figure similar

MLFB-Ordering data

1FE1147-8WN31-1BC2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated power	103.0 kW	Motor length	490 mm
Rated speed	1200 rpm	Outer diameter stator	310.0 mm
Rated torque	820.0 Nm	Inner diameter rotor	150.3 mm
Rated current	200 A	Stator design	with cooling jacket
Static torque	820.00 Nm	Rotor design	with rotor sleeve (large bore diameter)
Static current	200.00 A	Motor protection	Cast winding with full protection (2 temperature sensors + 3 PTCs)
Maximum speed	5500 rpm	Temperature monitoring	KTY84 temperature sensor in the stator winding
Maximum torque	1300.0 Nm	Cable outlet	Free cable ends 500 mm (cable outlet at the larger outside housing diameter)
Maximum current	400 A	Scope of delivery	Stator + Rotor
Rotor moment of inertia	2823.0 kgcm ²		
VPM module *	Voltage limitation required (VPM or IVP)		
Physical constants			
Voltage constant at 20° C	262.0 V/1000*min ⁻¹		
Winding resistance at 20° C	0.0480 Ω		
Rotary field inductance	1.90 mH		
Thermal time constant	4 min		
Net weight of rotor	37.7 kg		
Net weight of stator	124.0 kg		
Total net weight	161.7 kg		

* VPM: Voltage Protection Module