

# SIEMENS

## SIMOTICS M-1FE1 synchronous built-in motor



Figure similar

MLFB-Ordering data

1FE1085-4WQ31-1BA2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated power	33.0 kW	Motor length	340 mm
Rated speed	3000 rpm	Outer diameter stator	180.0 mm
Rated torque	105.0 Nm	Inner diameter rotor	68.0 mm
Rated current	85 A	Stator design	with cooling jacket
Static torque	105.00 Nm	Rotor design	without rotor sleeve
Static current	85.00 A	Motor protection	Cast winding with full protection (2 temperature sensors + 3 PTCs)
Maximum speed	16000 rpm	Temperature monitoring	KTY84 temperature sensor in the stator winding
Maximum torque	175.0 Nm	Cable outlet	Free cable ends 500 mm (cable outlet at the larger outside housing diameter)
Maximum current	170 A	Scope of delivery	Stator + Rotor
Rotor moment of inertia	0.01388 kgcm <sup>2</sup>		
VPM module *	Voltage limitation required (VPM or IVP)		
Physical constants			
Voltage constant at 20° C	88.0 V/1000*min <sup>-1</sup>		
Winding resistance at 20° C	0.1020 Ω		
Rotary field inductance	3.80 mH		
Thermal time constant	3 min		
Net weight of rotor	7.7 kg		
Net weight of stator	30.0 kg		
Total net weight	37.7 kg		

\* VPM: Voltage Protection Module