

# SIEMENS

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



Figure similar

MLFB-Ordering data

1FE1093-6WN10-6BA2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Engineering data

Rated power	36.6 kW
Rated speed	3500 rpm
Rated torque	100.0 Nm
Rated current	83 A
Static torque	100.00 Nm
Static current	83.00 A
Maximum speed	7000 rpm
Maximum torque	165.0 Nm
Maximum current	166 A
Rotor moment of inertia	231.7 kgcm <sup>2</sup>
VPM module *	no voltage limitation required

### Physical constants

Voltage constant at 20° C	84.0 V/1000*min <sup>-1</sup>
Winding resistance at 20° C	0.0770 Ω
Rotary field inductance	1.70 mH
Thermal time constant	3 min
Net weight of rotor	7.4 kg
Net weight of stator	28.0 kg
Total net weight	35.4 kg

### Mechanical data

Motor length	250 mm
Outer diameter stator	205.0 mm
Inner diameter rotor	92.0 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 500 mm (cable outlet at the larger outside housing diameter)
Scope of delivery	Stator + Rotor

\* VPM: Voltage Protection Module