

SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor



MLFB-Ordering data

1FE1084-6WU31-1BA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated power	23.1 kW
Rated speed	1700 rpm
Rated torque	130.0 Nm
Rated current	45 A
Static torque	130.00 Nm
Static current	45.00 A
Maximum speed	7000 rpm
Maximum torque	215.0 Nm
Maximum current	90 A
Rotor moment of inertia	0.02067 kgcm ²
VPM module *	Voltage limitation required (VPM or IVP)

Physical constants

Voltage constant at 20° C	195.0 V/1000*min ⁻¹
Winding resistance at 20° C	0.3300 Ω
Rotary field inductance	6.90 mH
Thermal time constant	2 min
Net weight of rotor	7.1 kg
Net weight of stator	22.0 kg
Total net weight	29.1 kg

Mechanical data

Motor length	295 mm
Outer diameter stator	190.0 mm
Inner diameter rotor	93.0 mm
Stator design	with cooling jacket
Rotor design	without rotor sleeve
Motor protection	Cast winding with full protection (2 temperature sensors + 3 PTCs)
Temperature monitoring	KTY84 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

Figure similar

* VPM: Voltage Protection Module