

Data sheet for SIMOTICS T-1FW3



Figure similar

Article No. : **1FW3281-3CM65-5AP0-Z**
L03

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Engineering data

	P_N [kW]	M_N [Nm]	I_N [A]	n_N [rpm]	M_{max} [Nm]	I_{max} [A]	$n_{max, inv}$ [rpm]	M_0 [Nm]	I_0 [A]
ALM 400V	138.0	2,200	255	600	4,050	510	1,050	2,500	290
ALM 480V	157.0	2,050	245	730	4,050	510	1,050	2,500	290
SLM 400V	123.0	2,250	260	520	4,050	510	1,050	2,500	290
SLM 480V	146.0	2,150	250	650	4,050	510	1,050	2,500	290

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	280
Cooling	Water cooling
Vibration severity grade	Grade A
Shaft and flange accuracy	Tolerance N (at normal running temperature)
Degree of protection	IP54
Design acc. to Code I	IM B5
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Anthracite grey RAL 7016 (Standard)
Type of the bearing	Normal (Standard)
Shaft extension	Plug-on shaft
Encoder system	Absolute encoder 24 bit + 12 bit multiturm (AM24DQI)
Encoder mounting system	Coaxial mounted
Sound pressure level $L_{pA}(1m)$ motor rated load, tolerance + 3dB	73 dB ¹⁾

¹⁾ at 4 kHz rated pulse frequency at the rated operating point

Connection

Type of electrical connection	Terminal box for power cable, connector for encoder signals and temperature sensor
Terminal box position	Transverse right
Power connection	Terminal box top

Special design

L03 Version for increased vibration stress

Limiting data

Max. permissible speed (mech.)	1,000 rpm
Max. permissible speed (inverter)	1,050 rpm
Maximum torque	4,050 Nm
Maximum current	510 A

Physical constants

Thermal time constant	10 min
Moment of inertia	3.61 kgm ²
Weight (approx.)	660 kg