



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3287-3CM65-6AP0

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

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	380.0	6,050	700	600	11,400	1,420	1,030	6,850	790
ALM 480V	435.0	5,700	660	730	11,400	1,420	1,030	6,850	790
SLM 400V	340.0	6,200	710	520	11,400	1,420	1,030	6,850	790
SLM 480V	400.0	5,900	680	650	11,400	1,420	1,030	6,850	790

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 end	Plug-on shaft
Encoder system	Absolute encoder 24 bit + 12 bit multiturn (AM24DQi)
Encoder mounting system	Coaxial mounted
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	73 dB ¹⁾

Limiting data

Max. permissible speed (mech.)	1,380 rpm
Max. permissible speed (inverter)	1,030 rpm
Maximum torque	11,400 Nm
Maximum current	1,420 A

Physical constants

Thermal time constant	16 min
Moment of inertia	76,600 kgcm ²
Weight (approx.)	1.120 kg

Connection

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

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