



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3281-2CE63-6AP0

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	39.5	2,500	82	150	4,050	145	290	2,550	84
ALM 480V	44.5	2,500	83	170	4,050	145	290	2,550	84
SLM 400V	36.5	2,500	82	140	4,050	145	290	2,550	84
SLM 480V	42.0	2,500	82	160	4,050	145	290	2,550	84

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 B35
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.)	1,000 rpm
Max. permissible speed (inverter)	290 rpm
Maximum torque	4,050 Nm
Maximum current	145 A

Physical constants

Thermal time constant	10 min
Moment of inertia	36,100 kgcm ²
Weight (approx.)	660 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