



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3285-3CM65-7AP0

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	275.0	4,400	470	600	8,150	940	960	5,000	530
ALM 480V	315.0	4,150	450	730	8,150	940	960	5,000	530
SLM 400V	250.0	4,550	485	520	8,150	940	960	5,000	530
SLM 480V	295.0	4,300	455	650	8,150	940	960	5,000	530

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)	960 rpm
Maximum torque	8,150 Nm
Maximum current	940 A

Physical constants

Thermal time constant	14 min
Moment of inertia	58,600 kgcm ²
Weight (approx.)	920 kg

Connection

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

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