

Data sheet for SIMOTICS T-1FW3



Figure similar

Article No. : 1FW3156-1DL72-8AA0

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	26.0	500	53	500	1,000	126	950	525	55
ALM 480V	31.5	500	53	600	1,000	126	950	525	55
SLM 400V	23.5	500	53	450	1,000	126	950	525	55
SLM 480V	29.0	500	53	550	1,000	126	950	525	55

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	150
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 B14
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Anthracite grey RAL 7016 (Standard)
Type of the bearing	Normal (Standard)
Shaft extension	Hollow shaft
Encoder system	Incremental encoder 22 bit (resolution 4194304, internal 2048 S/R) + commutating position 11 bit (encoder IC22DQ)
Encoder mounting system	Belt-mounted
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	73 dB ¹⁾

Limiting data

Max. permissible speed (mech.)	1,700 rpm
Max. permissible speed (inverter)	950 rpm
Maximum torque	1,000 Nm
Maximum current	126 A

Physical constants

Thermal time constant	5 min
Moment of inertia	0.28 kgm ²
Weight (approx.)	171 kg

Connection

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

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