

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3156-1CP62-5AM0



Figure similar

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	39.5	500	76	750	1,000	183	1,380	525	80
ALM 480V	45.5	490	74	890	1,000	183	1,380	525	80
SLM 400V	35.0	500	76	670	1,000	183	1,380	525	80
SLM 480V	42.0	500	76	800	1,000	183	1,380	525	80

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	IP55
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	Solid shaft
Encoder system	Absolute encoder 24 bit + 12 bit multiturn (AM24DQi)
Encoder mounting system	Coaxial mounted
Sound pressure level $L_{pA}(1m)$ motor rated load, tolerance + 3dB	73 dB ¹⁾

Limiting data

Max. permissible speed (mech.)	1,700 rpm
Max. permissible speed (inverter)	1,380 rpm
Maximum torque	1,000 Nm
Maximum current	183 A

Physical constants

Thermal time constant	5 min
Moment of inertia	0.2 kgm ²
Weight (approx.)	187 kg

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

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