

Data sheet for SIMOTICS T-1FW3



Figure similar

Article No. : **1FW3202-1AH72-5AA0**

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]	M₀ [Nm]	I₀ [A]
ALM 400V	15.7	500	37	300	925	81	670	525	39
ALM 480V	18.8	500	37	360	925	81	670	525	39
SLM 400V	14.1	500	37	270	925	81	670	525	39
SLM 480V	17.3	500	37	330	925	81	670	525	39

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	200
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	KTY84 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 sin/cos 1 Vpp 2048 S/R with C and D tracks (encoder IC2048S/R)
Encoder mounting system	Belt-mounted
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	73 dB ¹⁾

Limiting data

Max. permissible speed (mech.)	1,000 rpm
Max. permissible speed (inverter)	670 rpm
Maximum torque	925 Nm
Maximum current	81 A

Physical constants

Thermal time constant	10 min
Moment of inertia	0.36 kgm ²
Weight (approx.)	156 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