



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3150-1EP72-5AA0

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	7.9	100	18	750	200	41	1,470	105	17.5
ALM 480V	8.9	95	18	890	200	41	1,470	105	17.5
SLM 400V	7.0	100	18	670	200	41	1,470	105	17.5
SLM 480V	8.4	100	18	800	200	41	1,470	105	17.5

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	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	Absolute encoder 2048 S/R, 4096 revolutions, multi-turn (encoder AM2048S/R)
Encoder mounting system	Belt-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)	1,470 rpm
Maximum torque	200 Nm
Maximum current	41 A

Physical constants

Thermal time constant	4 min
Moment of inertia	1,200 kgcm ²
Weight (approx.)	87 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