



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3206-1AL72-8DA0

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	73.0	1,400	169	500	2,775	400	1,090	1,575	189
ALM 480V	79.0	1,260	152	600	2,775	400	1,090	1,575	189
SLM 400V	66.0	1,400	169	450	2,775	400	1,090	1,575	189
SLM 480V	75.0	1,300	157	550	2,775	400	1,090	1,575	189

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	Pt1000 temperature sensor in the stator winding
Color	Anthracite grey RAL 7016 (Standard)
Type of the bearing	Normal (Standard)
Shaft end	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)	1,090 rpm
Maximum torque	2,775 Nm
Maximum current	400 A

Physical constants

Thermal time constant	16 min
Moment of inertia	9,700 kgcm ²
Weight (approx.)	280 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