



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3208-1AL72-6AA0

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	97.0	1,850	225	500	3,700	530	1,100	2,100	255
ALM 480V	106.0	1,680	205	600	3,700	530	1,100	2,100	255
SLM 400V	87.0	1,850	225	450	3,700	530	1,100	2,100	255
SLM 480V	101.0	1,750	215	550	3,700	530	1,100	2,100	255

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 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)	1,100 rpm
Maximum torque	3,700 Nm
Maximum current	530 A

Physical constants

Thermal time constant	20 min
Moment of inertia	13,100 kgcm ²
Weight (approx.)	350 kg

Connection

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

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