SIEMENS

Data sheet for SIMOTICS T-1FW3

Article No. : **1FW3150-1DH72-5AA0**



Figure similar

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	**3.1**	**100**	**8**	**300**	**200**	**17**	**630**	**105**	**7.3**
ALM 480V	3.8	100	8	360	200	17	630	105	7.3
SLM 400V	2.8	100	8	270	200	17	630	105	7.3
SLM 480V	3.5	100	8	330	200	17	630	105	7.3

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	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 22 bit (resolution 4194304, internal 2048 S/R) + commutating position 11 bit (encoder IC22DQ)
Encoder mounting system	Belt-mounted
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	73 dB [1)]

Limiting data

Max. permissible speed (mech.)	1,700 rpm
Max. permissible speed (inverter)	630 rpm
Maximum torque	200 Nm
Maximum current	17 A

Physical constants

Thermal time constant	4 min
Moment of inertia	1,200 kgcm²
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

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