SIEMENS



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : **1FW3201-1DE72-7AC0**

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	**4.7**	**300**	**13**	**150**	**555**	**28**	**380**	**315**	**13**
ALM 480V	5.3	300	13	170	555	28	380	315	13
SLM 400V	4.4	300	13	140	555	28	380	315	13
SLM 480V	5.0	300	13	160	555	28	380	315	13

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 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)]

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

Limiting data

Max. permissible speed (mech.)	1,000 rpm
Max. permissible speed (inverter)	380 rpm
Maximum torque	555 Nm
Maximum current	28 A

Physical constants

Thermal time constant	10 min
Moment of inertia	2,200 kgcm²
Weight (approx.)	127 kg

Connection

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

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