SIEMENS



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : **1FW3206-1EH62-5DM0**

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	**47.0**	**1,500**	**118**	**300**	**2,775**	**255**	**700**	**1,575**	**121**
ALM 480V	57.0	1,500	118	360	2,775	255	700	1,575	121
SLM 400V	42.5	1,500	118	270	2,775	255	700	1,575	121
SLM 480V	52.0	1,500	118	330	2,775	255	700	1,575	121

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	IP55
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	Solid shaft
Encoder system	Absolute encoder 2048 S/R, 4096 revolutions, multi-turn (encoder AM2048S/R)
Encoder mounting system	Coaxial 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)	700 rpm
Maximum torque	2,775 Nm
Maximum current	255 A

Physical constants

Thermal time constant	16 min
Moment of inertia	8,400 kgcm²
Weight (approx.)	345 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

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