SIEMENS



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : **1FW3281-3BM64-6AM0**

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	**138.0**	**2,200**	**255**	**600**	**4,050**	**510**	**1,050**	**2,500**	**290**
ALM 480V	157.0	2,050	245	730	4,050	510	1,050	2,500	290
SLM 400V	123.0	2,250	260	520	4,050	510	1,050	2,500	290
SLM 480V	146.0	2,150	250	650	4,050	510	1,050	2,500	290

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	280
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 B34
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 singleturn 24 bit (AS24DQI)
Encoder mounting system	Coaxial mounted
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	73 dB [1)]

Limiting data

Max. permissible speed (mech.)	1,380 rpm
Max. permissible speed (inverter)	1,050 rpm
Maximum torque	4,050 Nm
Maximum current	510 A

Physical constants

Thermal time constant	10 min
Moment of inertia	31,900 kgcm²
Weight (approx.)	750 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

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