SIEMENS

Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8133-2FG20-1GH1**

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data

		P_N [kW]	M_N [Nm]	I_N [A]	U_N [V]	f_N [Hz]	n_N [rpm]	M_{max} [Nm]	I_{max} [A]	n_{max} [rpm]	M_0 [Nm]	I_0 [A]	η	cos φ	Iμ [A]
	ALM 400V	**34.9**	**145.0**	**57.0**	**415**	**76.7**	**2,300**	**310**	**140.0**	**4,500**	**155.0**	**61**	**0.951**	**0.000**	**0.0**
Y	BLM/SLM 400V	30.6	146.0	57.0	383	66.7	2,000	310	140.0	4,500	155.0	61	0.950	0.000	0.0
	ALM/BLM/SLM 480V	39.1	141.0	57.0	449	88.3	2,650	310	140.0	4,500	155.0	61	0.952	0.000	0.0

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	132
Cooling	Water cooling
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP65
Design acc. to Code I	IM B3 (IM V5, IM V6, IM B6, IM B7, IM B8)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with full key balancing
Encoder system	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	5 min
Moment of inertia	600 kgcm²
Weight (approx.)	120 kg

Connection

Type of electrical connection	Power connector
Position of the connection	Power connector, top
Power connection	DE
Signal connection	left

Cooling data and sound pressure level

Flow rate, min.	12 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	68 dB [1)]
Pressure drop	0.9 bar
NDE thread connection	0.375 Inches

Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	500 µS/cm
Chloride ions	40 mg/l
Sulfate ions	50 mg/l
Nitrate ions	50 mg/l
Dissolved substances	340 mg/l
Maximum particle size	100 µm
Antifreeze/corrosion protection	20 ... 30 %

[1)] at a rated frequency of 4 kHz and a speed range of up to 5000 rpm