SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : **1PH8186-1DF30-2BC1**

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]
Y	**ALM 400V**	**125.0**	**682.0**	**225.0**	**385**	**59.2**	**1,750**	**1,230**	**400.0**	**5,000**	**682.0**	**225**	**0.942**	**0.880**	**80.0**
	BLM/SLM 400V	108.0	688.0	225.0	330	50.9	1,500	1,230	400.0	5,000	688.0	225	0.936	0.890	79.0
	ALM 480V	135.0	586.0	196.0	490	74.1	2,200	1,230	400.0	5,000	688.0	196	0.952	0.850	85.0
	BLM/SLM 480V	135.0	645.0	210.0	445	67.5	2,000	1,230	400.0	5,000	645.0	210	0.948	0.870	83.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling DE-> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP23
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	29 min
Moment of inertia	6,520 kgcm²
Weight (approx.)	422 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	right
Terminal box designation	1XB7422-P06

Cooling data and sound pressure level

Airflow, min.	0.21 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB [1]
Air discharge	axial
Pressure drop	450 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	1.1 ... 1.3 A

[1] at a rated frequency of 2 kHz and a speed range of up to 3000 rpm