SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : **1PH8284-1HF10-1EV2**

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]
Δ	**ALM 400V**	**225.0**	**1,228.0**	**390.0**	**400**	**58.7**	**1,750**	**3,650**	**1,100.0**	**3,300**	**1,228.0**	**390**	**0.964**	**0.860**	**162.0**
	BLM/SLM 400V	196.0	1,248.0	390.0	345	50.4	1,500	3,650	1,100.0	3,300	1,248.0	390	0.963	0.870	162.0
	ALM 480V	230.0	998.0	330.0	500	73.6	2,200	3,650	1,100.0	3,300	1,248.0	330	0.963	0.830	163.0
	BLM/SLM 480V	255.0	1,218.0	390.0	455	67.0	2,000	3,650	1,100.0	3,300	1,218.0	390	0.965	0.860	162.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	47 min
Moment of inertia	42,000 kgcm²
Weight (approx.)	1,200 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE left
Power connection	below
Signal connection	DE
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

Airflow, min.	0.42 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB [1]
Air discharge	radial
Pressure drop	600 Pa

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%) 50/60 Hz ±10%	0.75 ... 0.90 A

[1] at a rated frequency of 2 kHz and a speed range of up to 3300 rpm