SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : **1PH8284-1DB10-0BU1**

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**	**80.0**	**1,529.0**	**154.0**	**395**	**17.0**	**500**	**4,250**	**435.0**	**3,300**	**1,529.0**	**154**	**0.935**	**0.810**	**81.0**
	BLM/SLM 400V	63.0	1,504.0	154.0	325	13.6	400	4,250	435.0	3,300	1,504.0	154	0.924	0.790	86.0
	ALM 480V	105.0	1,433.0	150.0	500	23.7	700	4,250	435.0	3,300	1,504.0	150	0.948	0.850	66.0
	BLM/SLM 480V	95.0	1,519.0	154.0	460	20.3	600	4,250	435.0	3,300	1,519.0	154	0.943	0.820	77.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
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	Standard
Shaft end	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 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 right
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