



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8284-1DD10-2AX1

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	I _μ [A]
Δ	ALM 400V	170.0	1,414.0	310.0	400	38.6	1,150	4,150	870.0	3,300	1,414.0	310	0.960	0.820	157.0
	BLM/SLM 400V	150.0	1,433.0	315.0	335	33.7	1,000	4,150	870.0	3,300	1,433.0	315	0.958	0.850	143.0
	ALM/BLM/SLM 480V	200.0	1,416.0	315.0	460	45.3	1,350	4,150	870.0	3,300	1,416.0	315	0.962	0.830	151.0

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	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

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

Physical constants

Thermal time constant	47 min
Moment of inertia	42,000 kgcm ²
Weight (approx.)	1,200 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.42 m ³ /s
Sound pressure level L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB ¹⁾
Air discharge	radial
Pressure drop	600 Pa