



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8284-1HD40-2BW2-Z**
G00

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	280.0	2,325.0	475.0	400	38.9	1,150	4,150	870.0	3,300	2,325.0	475	0.953	0.890	150.0
	BLM/SLM 400V	243.0	2,321.0	490.0	335	33.9	1,000	4,150	870.0	3,300	2,321.0	490	0.947	0.900	137.0
	ALM/BLM/SLM 480V	325.0	2,299.0	475.0	460	45.5	1,350	4,150	870.0	3,300	2,299.0	475	0.957	0.900	146.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP23
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 HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	18 min
Moment of inertia	42,000 kgcm ²
Weight (approx.)	1,200 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.52 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

External fan

Max. power consumption

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

Special design

G00 Separately-driven fan NDE left, air intake NDE

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 2800 rpm