

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8284-1HD10-1BV2

Figure similar

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	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	Feather key with full key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

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	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