

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8184-1FL03-2BA1



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]
Y	ALM 400V	81.0	267.0	152.0	395	97.3	2,900	730	380.0	5,000	267.0	152	0.952	0.820	76.0
	BLM/SLM 400V	78.0	298.0	166.0	340	84.0	2,500	730	380.0	5,000	298.0	166	0.952	0.840	75.0
	ALM/BLM/SLM 480V	65.0	183.0	120.0	460	113.7	3,400	730	380.0	5,000	183.0	120	0.944	0.720	77.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B35 with A450 flange (IM V35)
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	Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz 1.1 ... 1.3 A ±10%

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 5000 rpm

Physical constants

Thermal time constant	22 min
Moment of inertia	4,890 kgcm ²
Weight (approx.)	350 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

Airflow, min.	0.17 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	550 Pa