



Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8284-1DF40-2AU1-Z
G14

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	370.0	2,019.0	610.0	400	58.9	1,750	3,650	1,100.0	3,300	2,019.0	610	0.960	0.910	158.0
	BLM/SLM 400V	319.0	2,031.0	620.0	345	50.6	1,500	3,650	1,100.0	3,300	2,031.0	620	0.957	0.910	157.0
	ALM/BLM/SLM 480V	415.0	1,981.0	600.0	455	67.3	2,000	3,650	1,100.0	3,300	1,981.0	600	0.962	0.910	157.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	A
Shaft and flange accuracy	N
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 22 bit with commutation position 11 bit, max. encoder speed = 12000 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 right
Power connection	below
Signal connection	DE
Terminal box designation	1XB7700-P02

Cooling data and sound pressure level

Airflow, min.	0.52 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

Special design

G14 with air filter

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