

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8083-1DN00-2CA1



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	5.3	10.0	17.0	335	168.9	5,000	40	41.0	10,000	19.0	23	0.870	0.69	9.7
	BLM/SLM 400V	4.8	10.0	17.0	300	152.3	4,500	40	41.0	10,000	19.0	23	0.860	0.70	9.5
	ALM/BLM/SLM 480V	5.5	10.0	16.5	350	185.7	5,500	40	41.0	10,000	19.0	23	0.870	0.71	9.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	80
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	S/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM V5, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft extension	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	10 min
Moment of inertia	64 kgcm ²
Weight (approx.)	32 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk803

Cooling data and sound pressure level

Airflow, min.	0.02 m ³ /s
Sound pressure level L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	95 Pa

¹⁾ at a rated frequency of 4 kHz and a speed range of up to 5000 rpm