



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8083-1SV12-0NA1

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	4.5	3.6	15.2	300	401.4	12,000	20	68.0	24,000	3.6	15	0.939	0.620	10.5
	BLM/SLM 400V	4.5	3.6	15.2	300	401.4	12,000	20	68.0	24,000	3.6	15	0.939	0.620	10.5
	ALM/BLM/SLM 480V	4.8	3.6	15.2	325	435.4	13,000	20	68.0	24,000	3.5	15	0.910	0.630	10.5

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	80
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
Degree of protection	IP55
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Premium performance
Shaft end	Plain shaft
Encoder system	Incremental encoder 19 bit without commutation position (encoder IN19DQ)

External fan

Max. power consumption

1 AC 230 V / 50 Hz (±10%)	0.33 A
1 AC 230 V / 60 Hz (±10%)	0.25 A
1 AC 265 V / 60 Hz (±10%)	0.32 A

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

Physical constants

Thermal time constant	10 min
Moment of inertia	69 kgcm ²
Weight (approx.)	30 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 LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	95 Pa