



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1HS12-1GB2

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	11.0	53.0	26.7	368	68.5	2,000	135	66.0	9,000	63.0	30	0.894	0.760	14.2
	BLM/SLM 400V	8.5	54.0	27.0	275	52.0	1,500	135	66.0	9,000	63.0	30	0.861	0.800	13.1
	ALM 480V	16.0	51.0	26.0	500	102.2	3,000	135	66.0	9,000	63.0	30	0.910	0.810	14.1
	BLM/SLM 480V	14.0	53.0	26.5	454	85.2	2,500	135	66.0	9,000	63.0	30	0.923	0.770	14.1
Δ	ALM 400V	11.0	21.0	28.0	410	167.8	5,000	80	100.0	9,000	42.0	40	0.909	0.680	16.7
	BLM/SLM 400V	8.5	20.0	28.0	323	134.4	4,000	80	100.0	9,000	42.0	40	0.898	0.680	16.4
	ALM 480V	15.0	20.0	28.0	500	234.8	7,000	80	100.0	9,000	42.0	40	0.920	0.750	15.5
	BLM/SLM 480V	12.8	20.0	28.0	460	201.3	6,000	80	100.0	9,000	42.0	40	0.931	0.730	15.5

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
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 B5 (IM V1, IM V3)
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

Physical constants

Thermal time constant	20 min
Moment of inertia	289 kgcm ²
Weight (approx.)	73 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	gk826

Cooling data and sound pressure level

Airflow, min.	0.04 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	110 Pa

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.08 A
3 AC 400 V / 60 Hz (±10%)	0.07 A
3 AC 480 V / 60 Hz (±10%)	0.11 A

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