

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8135-1MS12-1BC1



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	24.5	117.0	51.0	372	68.0	2,000	300	132.0	8,000	157.0	62	0.917	0.850	20.9
	BLM/SLM 400V	18.5	118.0	51.0	283	51.3	1,500	300	132.0	8,000	157.0	62	0.901	0.850	21.1
	ALM/BLM/SLM 480V	30.5	117.0	50.0	460	84.6	2,500	300	132.0	8,000	157.0	62	0.949	0.850	20.8
Δ	ALM 400V	24.5	47.0	52.0	425	167.5	5,000	131	145.0	8,000	94.0	78	0.939	0.810	22.8
	BLM/SLM 400V	18.5	44.0	51.0	364	134.0	4,000	131	145.0	8,000	94.0	78	0.912	0.760	23.3
	ALM/BLM/SLM 480V	30.5	49.0	50.0	460	201.0	6,000	131	145.0	8,000	94.0	78	0.941	0.860	20.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
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	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft end	Feather key with full key balancing
Encoder system	Incremental encoder sin/cos 1Vpp 2048 S/R with C- and D-Spur, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.11 A
3 AC 400 V / 60 Hz (±10%)	0.13 A
3 AC 480 V / 60 Hz (±10%)	0.13 A

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

Physical constants

Thermal time constant	30 min
Moment of inertia	940 kgcm ²
Weight (approx.)	125 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	left
Terminal box designation	gk846

Cooling data and sound pressure level

Airflow, min.	0.09 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	140 Pa