



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8137-1CS02-0LA2

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	29.0	138.0	56.0	398	68.0	2,000	320	130.0	10,000	185.0	68	0.931	0.850	22.7
	BLM/SLM 400V	22.0	140.0	56.0	308	51.3	1,500	320	130.0	10,000	185.0	68	0.902	0.840	24.2
	ALM/BLM/SLM 480V	36.0	138.0	50.0	460	84.9	2,500	320	130.0	10,000	185.0	68	0.951	0.890	17.4
Δ	ALM 400V	27.5	53.0	56.0	425	167.5	5,000	160	160.0	10,000	105.0	87	0.919	0.830	22.5
	BLM/SLM 400V	22.0	53.0	55.0	383	134.0	4,000	160	160.0	10,000	105.0	87	0.907	0.760	27.6
	ALM/BLM/SLM 480V	33.0	53.0	55.0	460	201.0	6,000	160	160.0	10,000	105.0	87	0.942	0.870	20.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Forced ventilation DE -> NDE
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	Performance
Shaft end	Plain shaft
Encoder system	Incremental encoder sin/cos 1Vpp 256 S/R without ND-end at terminal box (encoder IN256S/R)

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.21 A
3 AC 400 V / 60 Hz (±10%)	0.19 A
3 AC 480 V / 60 Hz (±10%)	0.23 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	1,090 kgcm ²
Weight (approx.)	141 kg

Connection

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