



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1CM22-3LC1

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### Engineering data

		P <sub>N</sub> [kW]	M <sub>N</sub> [Nm]	I <sub>N</sub> [A]	U <sub>N</sub> [V]	f <sub>N</sub> [Hz]	n <sub>N</sub> [rpm]	M <sub>max</sub> [Nm]	I <sub>max</sub> [A]	n <sub>max</sub> [rpm]	M <sub>0</sub> [Nm]	I <sub>0</sub> [A]	η	cos φ	I <sub>μ</sub> [A]
Y	ALM 400V	20.0	58.0	60.0	290	112.2	3,300	175	178.0	12,000	82.0	73	0.900	0.80	26.1
	BLM/SLM 400V	18.0	57.0	60.0	264	102.2	3,000	175	178.0	12,000	82.0	73	0.900	0.80	26.0
	ALM/BLM/SLM 480V	21.0	56.0	59.0	315	122.1	3,600	175	178.0	12,000	82.0	73	0.910	0.79	26.1

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Water cooling
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
Degree of protection	IP65
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	Performance
Shaft extension	Smooth hollow shaft
Encoder system	Incremental encoder sin/cos 1Vpp 256 S/R without ND-end at terminal box (encoder IN256S/R)

### Physical constants

Thermal time constant	10 min
Moment of inertia	289 kgcm <sup>2</sup>
Weight (approx.)	83 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	left
Terminal box designation	gk823

### Cooling data and sound pressure level

Flow rate, min.	8 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	68 dB <sup>1)</sup>
Pressure drop	0.4 bar
NDE thread connection	0.25 Inches

### Cooling water specification

pH value	6 ... 9
Total hardness	1.7 mmol/l
Electrical conductivity	500 μS/cm
Chloride ions	40 mg/l
Sulfate ions	50 mg/l
Nitrate ions	50 mg/l
Dissolved substances	340 mg/l
Maximum particle size	100 μm
Antifreeze/corrosion protection	20 ... 30 %

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