



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8224-1AF40-1BA2

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	165.0	900.0	285.0	395	59.2	1,750	1,550	490.0	4,500	900.0	285	0.946	0.890	84.0
	BLM/SLM 400V	142.0	904.0	290.0	340	50.8	1,500	1,550	490.0	4,500	904.0	290	0.942	0.890	84.0
	ALM/BLM/SLM 480V	178.0	850.0	265.0	460	67.4	2,000	1,550	490.0	4,500	850.0	265	0.952	0.880	88.0

### Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP23
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
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	Without encoder

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 2000 rpm

### Physical constants

Thermal time constant	21 min
Moment of inertia	14,800 kgcm <sup>2</sup>
Weight (approx.)	610 kg

### Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7700-P02

### Cooling data and sound pressure level

Airflow, min.	0.33 m <sup>3</sup> /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB <sup>1)</sup>
Air discharge	axial
Pressure drop	600 Pa

### External fan

#### Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	2.0 ... 2.3 A
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