



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8224-1HD40-2EA1-Z**
K09+K40+K80+K85

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	120.0	997.0	220.0	385	39.1	1,150	1,760	385.0	4,500	997.0	220	0.934	0.880	74.0
	BLM/SLM 400V	105.0	1,003.0	220.0	335	34.1	1,000	1,760	385.0	4,500	1,003.0	2,200	0.926	0.880	73.0
	ALM/BLM/SLM 480V	137.0	969.0	215.0	450	45.7	1,350	1,760	385.0	4,500	969.0	215	0.941	0.870	75.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	225
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP23
Design acc. to Code I	IM B3 (IM B6, IM B7, IM B8, IM V6)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
Shaft extension	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

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

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE right
Power connection	NDE
Signal connection	below
Terminal box designation	1XB7422-P06

Cooling data and sound pressure level

Airflow, min.	0.33 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
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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Special design

K09	Terminal box NDE right
K40	Regreasing system
K80	Pipe connection NDE
K85	Terminal box rotated through +180 degrees

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