



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8284-1HK10-2AX2-Z
G50+K23+K45+X12+Y84

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 690V	115.0	1,373.0	120.0	690	27.0	800	4,100	340.0	3,300	1,373.0	120	0.950	0.850	53.0
	BLM 690V	100.0	1,364.0	118.0	605	23.7	700	4,100	340.0	3,300	1,364.0	118	0.945	0.850	53.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	280
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Gentian blue RAL 5010
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Special design

G50	Measuring nipple for SPM, with M8 adapter
K23	Special paint finish worldwide
K45	Anti-condensation heater 230 V
X12	Paint finish: Gentian blue RAL 5010
Y84	Customer specifications on rating plate:

¹⁾at a rated frequency of 2 kHz and a speed range of up to 3300 rpm

Physical constants

Thermal time constant	47 min
Moment of inertia	42,000 kgcm ²
Weight (approx.)	1,200 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.42 m ³ /s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	74 dB ¹⁾
Air discharge	radial
Pressure drop	600 Pa

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%) 50/60 Hz ±10%	0.75 ... 0.90 A
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