



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8166-1HG22-2BA1-Z
K09**

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	72.0	299.0	124.0	420	77.8	2,300	600	241.0	6,500	353.0	147	0.946	0.89	35.5
	BLM/SLM 400V	64.0	306.0	125.0	376	67.8	2,000	600	241.0	6,500	353.0	147	0.937	0.88	39.3
	ALM/BLM/SLM 480V	83.0	299.0	125.0	460	89.6	2,650	600	241.0	6,500	353.0	147	0.948	0.90	35.7

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
Cooling	Water cooling
Vibration severity grade	R/A
Shaft and flange accuracy	R
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	Standard with fixed bearing
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	14 min
Moment of inertia	2,320 kgcm ²
Weight (approx.)	269 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE right
Power connection	below
Signal connection	DE
Terminal box designation	gk873

Cooling data and sound pressure level

Flow rate, min.	15 l/min
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	69 dB ¹⁾
Pressure drop	0.2 bar
NDE thread connection	0.5 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 %

Special design

K09 Terminal box NDE right

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