



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8165-1DF00-1GC1-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	41.0	224.0	76.0	400	59.1	1,750	630	206.0	6,500	304.0	95	0.934	0.880	25.8
	BLM/SLM 400V	37.0	236.0	78.0	350	50.8	1,500	630	206.0	6,500	304.0	95	0.926	0.880	27.0
	ALM/BLM/SLM 480V	45.0	215.0	75.0	440	67.5	2,000	630	206.0	6,500	304.0	95	0.936	0.890	23.6

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B3 (IM V5, IM V6, IM B6, IM B7, IM B8)
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	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.26 A
3 AC 400 V / 60 Hz (±10%)	0.32 A
3 AC 480 V / 60 Hz (±10%)	0.33 A

Special design

K09 Terminal box NDE right

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

Physical constants

Thermal time constant	35 min
Moment of inertia	2,320 kgcm²
Weight (approx.)	230 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.16 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	73 dB ¹⁾
Air discharge	axial
Pressure drop	200 Pa