

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8163-3HG03-0AD1-Z**
L74+U66



Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

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	38.0	158.0	78.0	370	77.4	2,300	570	272.0	4,000.0	254.0	111	0.935	0.87	28.2
	BLM/SLM 400V	36.0	172.0	83.0	324	67.5	2,000	570	272.0	4,000.0	254.0	111	0.929	0.88	28.1
	ALM/BLM/SLM 480V	40.0	144.0	76.0	390	89.2	2,650	570	272.0	4,000.0	254.0	111	0.936	0.89	23.1

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B35 (IM V15, IM V35)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft extension	Plain shaft
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	35 min
Moment of inertia with brake	0.2426 kgm ²
Weight with brake (approx.)	262 kg

Connection

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

Cooling data and sound pressure level

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

Holding brake

Holding torque	280 ... 500 Nm ²⁾
Moment of inertia	0.0266 kgm ²
Power supply voltage	DC 24 V ± 10%
Coil current	6.7 A
Permissible brake work	24 kJ
Speed (Emergency Stop)	3,100 rpm
Number of emergency stops	2,000
Number of emergency stops per hour	3
Opening time	750 ms
Closing time	150 ms

Special design

L74	Fan design in IP65 degree of protection
U66	24 V DC holding brake with microswitch

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

²⁾ Holding torque [Nm]: On motors with shaft height 100 ... 160, the holding torque can be gradually set using an adjusting ring within the value range specified (factory setting 100 % of the possible holding torque). The dynamic braking torque is approx. 70 % of the set holding torque.