



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-3HD13-2AB1

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	7.2	60.0	17.5	348	40.6	1,150	135	40.0	5,000	63.0	25	0.852	0.82	8.2
	BLM/SLM 400V	6.3	60.0	17.5	307	35.5	1,000	135	40.0	5,000	63.0	25	0.834	0.82	8.2
	ALM/BLM/SLM 480V	8.0	57.0	17.0	400	47.1	1,350	135	40.0	5,000	63.0	25	0.867	0.80	8.2

Mechanical data	
Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation NDE -> DE
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	Feather key with half key balancing
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants	
Thermal time constant	20 min
Moment of inertia	337 kgcm²
Weight (approx.)	94 kg

Connection	
Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	gk813

Cooling data and sound pressure level	
Airflow, min.	0.04 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	110 Pa

Holding brake	
Holding torque	60 ... 150 Nm ²⁾
Moment of inertia	48 kgcm²
Power supply voltage	V ± 10%
Coil current	A
Permissible brake work	7 kJ
Speed (Emergency Stop)	4,500 rpm
Number of emergency stops	2,000
Number of emergency stops per hour	3
Opening time	500 ms
Closing time	60 ms

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.