SIEMENS

Data sheet for SIMOTICS M-1PH8

Figure similar

Article No. : 1PH8107-3JF02-2AB2-Z
U60

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	Iμ [A]
Y	**ALM 400V**	**10.0**	**55.0**	**22.0**	**380**	**60.4**	**1,750**	**135**	**54.0**	**5,000**	**63.0**	**25**	**0.878**	**0.800**	**10.9**
	BLM/SLM 400V	9.0	57.0	23.5	330	52.2	1,500	135	54.0	5,000	63.0	25	0.869	0.810	10.8
	ALM 480V	12.1	53.0	21.5	470	75.2	2,200	135	54.0	5,000	63.0	25	0.900	0.780	10.8
	BLM/SLM 480V	11.0	53.0	21.5	428	68.6	2,000	135	54.0	5,000	63.0	25	0.901	0.790	10.8

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard
Shaft end	Feather key with half key balancing
Encoder system	Incremental encoder HTL 2048 S/R, max. encoder speed = 4600 rpm

Physical constants

Thermal time constant	20 min
Moment of inertia with brake	337 kgcm²
Weight with brake (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	AC 230 V ± 10%
Coil current	1 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

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.10 A
3 AC 400 V / 60 Hz (±10%)	0.08 A
3 AC 480 V / 60 Hz (±10%)	0.11 A

Special design

U60 230 V AC holding brake

[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.