SIEMENS

Data sheet for SIMOTICS M-1PH8

Figure similar

Article No. : 1PH8186-3JF00-2AA2-Z
U63

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]
	ALM 400V	**85.0**	**464.0**	**164.0**	**385**	**58.9**	**1,750**	**1,230**	**400.0**	**3,500**	**464.0**	**164**	**0.949**	**0.82**	**83.0**
Y	BLM/SLM 400V	74.0	471.0	166.0	330	50.6	1,500	1,230	400.0	3,500	471.0	166	0.945	0.83	82.0
	ALM/BLM/SLM 480V	94.0	449.0	160.0	445	67.2	2,000	1,230	400.0	3,500	449.0	160	0.952	0.80	86.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP55
Design acc. to Code I	IM B3 (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 extension	Feather key with half key balancing
Encoder system	Incremental encoder HTL 2048 S/R, max. encoder speed = 4600 rpm

Physical constants

Thermal time constant	25 min
Moment of inertia with brake	6,740 kgcm²
Weight with brake (approx.)	485 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

Airflow, min.	0.17 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	550 Pa

Holding brake

Holding torque	1,000 Nm
Moment of inertia	220 kgcm²
Power supply voltage	AC 230 V ± 10%
Coil current	2.2 A
Permissible brake work	98 kJ
Speed (Emergency Stop)	3,000 rpm
Number of emergency stops	2,000
Number of emergency stops per hour	3
Opening time	300 ms
Closing time	80 ms

Special design

U63 Holding brake 230V with microswitch and manual relieve lever

[1] at a rated frequency of 2 kHz and a speed range of up to 5000 rpm