SIEMENS

Data sheet for SIMOTICS M-1PH8

Figure similar

Article No. : **1PH8184-1HD00-0EB2-Z**
K40+L00+L76

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	**44.0**	**365.0**	**86.0**	**390**	**39.0**	**1,150**	**925**	**205.0**	**5,000**	**365.0**	**86**	**0.928**	**0.82**	**42.0**
Y	BLM/SLM 400V	39.0	372.0	87.0	340	34.0	1,000	925	205.0	5,000	372.0	87	0.920	0.83	42.0
	ALM/BLM/SLM 480V	50.0	354.0	84.0	450	45.7	1,350	925	205.0	5,000	354.0	84	0.936	0.82	41.0

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, IM V6)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Increased cantilever forces
Shaft extension	Plain shaft
Encoder system	Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm

Physical constants

Thermal time constant	22 min
Moment of inertia	4,890 kgcm²
Weight (approx.)	350 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	1XB7422-P06

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

Special design

K40	Regreasing system
L00	Terminal box replaced by the next larger terminal box
L76	EC fan 400 V 3 AC 50/60 Hz

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