SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : 1PH8165-1SD03-0LB1

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**	**31.0**	**257.0**	**69.0**	**333**	**39.2**	**1,150**	**740**	**192.0**	**9,000**	**302.0**	**77**	**0.921**	**0.880**	**20.9**
	BLM/SLM 400V	28.0	267.0	71.0	292	34.2	1,000	740	192.0	9,000	302.0	77	0.914	0.890	22.2
	ALM 480V	37.7	240.0	65.0	430	50.8	1,500	740	192.0	9,000	302.0	77	0.930	0.880	22.5
	BLM/SLM 480V	34.0	241.0	66.0	387	45.8	1,350	740	192.0	9,000	302.0	77	0.928	0.860	22.5

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	160
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	SPECIAL/B
Shaft and flange accuracy	SPECIAL
Degree of protection	IP55
Design acc. to Code I	IM B35 (IM V15, IM V35)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Performance
Shaft end	Plain shaft
Encoder system	Incremental encoder 19 bit without commutation position (encoder IN19DQ)

Physical constants

Thermal time constant	35 min
Moment of inertia	2,320 kgcm²
Weight (approx.)	230 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	left
Signal connection	DE
Terminal box designation	gk863

Cooling data and sound pressure level

Airflow, min.	0.16 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	200 Pa

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.16 A
3 AC 400 V / 60 Hz (±10%)	0.21 A
3 AC 480 V / 60 Hz (±10%)	0.21 A

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