SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : 1PH8107-1CS02-3MC2

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**	**11.0**	**53.0**	**26.7**	**368**	**68.5**	**2,000**	**135**	**66.0**	**18,000**	**63.0**	**30**	**0.894**	**0.760**	**14.2**
	BLM/SLM 400V	8.5	54.0	27.0	275	52.0	1,500	135	66.0	18,000	63.0	30	0.861	0.800	13.1
	ALM 480V	16.0	51.0	26.0	500	102.2	3,000	135	66.0	18,000	63.0	30	0.910	0.810	14.1
	BLM/SLM 480V	14.0	53.0	26.5	454	85.2	2,500	135	66.0	18,000	63.0	30	0.923	0.770	14.1
Δ	**ALM 400V**	**11.0**	**21.0**	**28.0**	**410**	**167.8**	**5,000**	**80**	**100.0**	**18,000**	**42.0**	**40**	**0.909**	**0.680**	**16.7**
	BLM/SLM 400V	8.5	20.0	28.0	323	134.4	4,000	80	100.0	18,000	42.0	40	0.898	0.680	16.4
	ALM 480V	15.0	20.0	28.0	500	234.8	7,000	80	100.0	18,000	42.0	40	0.920	0.750	15.5
	BLM/SLM 480V	12.8	20.0	28.0	460	201.3	6,000	80	100.0	18,000	42.0	40	0.931	0.730	15.5

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
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 B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	High Performance
Shaft end	Smooth hollow shaft
Encoder system	Incremental encoder sin/cos 1Vpp 256 S/R without ND-end at terminal box (encoder IN256S/R)

Physical constants

Thermal time constant	20 min
Moment of inertia	289 kgcm²
Weight (approx.)	73 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	NDE
Signal connection	left
Terminal box designation	gk826

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

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

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