

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1MS03-0LA1



Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

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	$\cos \varphi$	I_μ [A]
Y	ALM 400V	11.0	53.0	26.7	368	68.6	2,000	135	66.0	12,000.0	63.0	30	0.864	0.76	14.2
	BLM/SLM 400V	8.5	54.0	27.0	275	52.0	1,500	135	66.0	12,000.0	63.0	30	0.861	0.80	13.1
	ALM/BLM/SLM 480V	14.0	53.0	26.5	454	85.2	2,500	135	66.0	12,000.0	63.0	30	0.923	0.77	14.1
Δ	ALM 400V	11.0	21.0	28.0	410	167.8	5,000	80	100.0	12,000.0	42.0	40	0.909	0.68	16.7
	BLM/SLM 400V	8.5	20.0	28.0	323	134.4	4,000	80	100.0	12,000.0	42.0	40	0.898	0.68	16.4
	ALM/BLM/SLM 480V	14.0	22.0	27.0	460	201.3	6,000	80	100.0	12,000.0	42.0	40	0.931	0.73	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 B35 (IM V15, IM V35)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Performance
Shaft extension	Plain shaft
Encoder system	Incremental encoder sin/cos 1Vpp 2048 S/R with C- and D-Spur, max. encoder speed = 12000 rpm

Physical constants

Thermal time constant	20 min
Moment of inertia	0.0289 kgm ²
Weight (approx.)	73 kg

Connection

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

Cooling data and sound pressure level

Airflow, min.	0.04 m ³ /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

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