SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : 1PH8131-1AD12-1BA1

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**	**9.0**	**75.0**	**20.0**	**360**	**39.8**	**1,150**	**170**	**44.0**	**8,000**	**84.0**	**21**	**0.880**	**0.850**	**8.1**
	BLM/SLM 400V	7.9	75.0	20.0	316	34.8	1,000	170	44.0	8,000	84.0	21	0.870	0.860	8.0
	ALM 480V	11.7	74.0	20.0	460	51.5	1,500	170	44.0	8,000	84.0	21	0.910	0.850	8.0
	BLM/SLM 480V	10.6	75.0	20.0	416	46.5	1,350	170	44.0	8,000	84.0	21	0.900	0.860	7.9

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	132
Cooling	Forced ventilation NDE -> DE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft end	Feather key with full key balancing
Encoder system	Without encoder

Physical constants

Thermal time constant	30 min
Moment of inertia	590 kgcm²
Weight (approx.)	89 kg

Connection

Type of electrical connection	Terminal box
Position of the connection	NDE top
Power connection	right
Signal connection	DE
Terminal box designation	gk833

Cooling data and sound pressure level

Airflow, min.	0.09 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	140 Pa

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.11 A
3 AC 400 V / 60 Hz (±10%)	0.13 A
3 AC 480 V / 60 Hz (±10%)	0.13 A

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