SIEMENS

Data sheet for SIMOTICS M-1PH8



Figure similar

Article No. : **1PH8184-1AF40-1EA2**

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**	**89.0**	**486.0**	**162.0**	**390**	**59.3**	**1,750**	**925**	**300.0**	**5,000**	**486.0**	**162**	**0.937**	**0.870**	**61.0**
	BLM/SLM 400V	76.0	484.0	162.0	335	50.9	1,500	925	300.0	5,000	484.0	162	0.931	0.870	61.0
	ALM 480V	98.0	425.0	144.0	500	74.1	2,200	925	300.0	5,000	484.0	144	0.947	0.830	66.0
	BLM/SLM 480V	98.0	468.0	156.0	450	67.5	2,000	925	300.0	5,000	468.0	156	0.943	0.850	63.0

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	180
Cooling	Open circuit cooling NDE-> DE
Vibration severity grade	A
Shaft and flange accuracy	N
Degree of protection	IP23
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 end	Feather key with full key balancing
Encoder system	Without encoder

Physical constants

Thermal time constant	26 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	right
Signal connection	DE
Terminal box designation	1XB7322-P05

Cooling data and sound pressure level

Airflow, min.	0.21 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	450 Pa

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%	1.1 ... 1.3 A

[1] at a rated frequency of 2 kHz and a speed range of up to 3000 rpm