SIEMENS



Figure similar

# Data sheet for SIMOTICS M-1PH8

**Article No. :** **1PH8107-1DF00-0LG1**

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** | **10.0** | **55.0** | **22.0** | **380** | **60.4** | **1,750** | **135** | **54.0** | **12,000** | **63.0** | **25** | **0.878** | **0.800** | **10.9** |
| | BLM/SLM 400V | 9.0 | 57.0 | 23.5 | 330 | 52.2 | 1,500 | 135 | 54.0 | 12,000 | 63.0 | 25 | 0.869 | 0.810 | 10.8 |
| | ALM 480V | 12.1 | 53.0 | 21.5 | 470 | 75.2 | 2,200 | 135 | 54.0 | 12,000 | 63.0 | 25 | 0.900 | 0.780 | 10.8 |
| | BLM/SLM 480V | 11.0 | 53.0 | 21.5 | 428 | 68.6 | 2,000 | 135 | 54.0 | 12,000 | 63.0 | 25 | 0.901 | 0.790 | 10.8 |

## 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 B3 (IM V5, IM V6) |
| 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 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

## Physical constants

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

## Connection

| | |
|---|---|
| Type of electrical connection | Power connector |
| Position of the connection | Power connector, top |
| Power connection | NDE |
| Signal connection | left |

## 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

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