SIEMENS



Figure similar

# Data sheet for SIMOTICS M-1PH8

**Article No. :** **1PH8133-1DD03-1LC1**

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** | **13.5** | **112.0** | **29.0** | **361** | **40.1** | **1,150** | **250** | **65.0** | **10,000** | **126.0** | **32** | **0.884** | **0.880** | **10.7** |
| | BLM/SLM 400V | 12.0 | 115.0 | 30.0 | 319 | 35.0 | 1,000 | 250 | 65.0 | 10,000 | 126.0 | 32 | 0.871 | 0.880 | 10.1 |
| | ALM 480V | 16.6 | 106.0 | 28.0 | 459 | 51.5 | 1,500 | 250 | 65.0 | 10,000 | 126.0 | 32 | 0.900 | 0.860 | 10.7 |
| | BLM/SLM 480V | 15.0 | 106.0 | 28.0 | 417 | 46.5 | 1,350 | 250 | 65.0 | 10,000 | 126.0 | 32 | 0.904 | 0.860 | 10.7 |

## Mechanical data

| | |
|---|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 132 |
| 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 | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Performance |
| Shaft end | Feather key with full key balancing |
| Encoder system | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

## Physical constants

| | |
|---|---|
| Thermal time constant | 30 min |
| Moment of inertia | 760 kgcm² |
| Weight (approx.) | 106 kg |

## Connection

| | |
|---|---|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | NDE |
| Signal connection | left |
| 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%) | 0.10 A |
| 3 AC 400 V / 60 Hz (±10%) | 0.12 A |
| 3 AC 480 V / 60 Hz (±10%) | 0.12 A |

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

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