SIEMENS

# Data sheet for SIMOTICS M-1PH8



Figure similar

**Article No. :** 1PH8137-1AD12-1LA1

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** | **19.5** | **162.0** | **43.0** | **350** | **39.9** | **1,150** | **405** | **108.0** | **10,000** | **176.0** | **45** | **0.891** | **0.880** | **16.1** |
| | BLM/SLM 400V | 17.0 | 162.0 | 43.0 | 307 | 34.8 | 1,000 | 405 | 108.0 | 10,000 | 176.0 | 45 | 0.881 | 0.880 | 15.1 |
| | ALM 480V | 24.0 | 153.0 | 41.0 | 447 | 51.5 | 1,500 | 405 | 108.0 | 10,000 | 176.0 | 45 | 0.890 | 0.860 | 15.9 |
| | BLM/SLM 480V | 22.0 | 156.0 | 42.0 | 404 | 46.4 | 1,350 | 405 | 108.0 | 10,000 | 176.0 | 45 | 0.902 | 0.860 | 15.9 |

## Mechanical data

| | |
|---|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 132 |
| Cooling | Forced ventilation NDE -> DE |
| Vibration severity grade | SPECIAL/B |
| Shaft and flange accuracy | SPECIAL |
| 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 | Performance |
| Shaft end | Feather key with full key balancing |
| Encoder system | Without encoder |

## Physical constants

| | |
|---|---|
| Thermal time constant | 30 min |
| Moment of inertia | 1,090 kgcm² |
| Weight (approx.) | 141 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