SIEMENS

## Data sheet for SIMOTICS M-1PH8



Figure similar

**Article No. :** 1PH8165-1HD00-2BB2

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** | **31.0** | **257.0** | **69.0** | **333** | **39.2** | **1,150** | **740** | **192.0** | **6,500** | **302.0** | **77** | **0.921** | **0.880** | **20.9** |
| | BLM/SLM 400V | 28.0 | 267.0 | 71.0 | 292 | 34.2 | 1,000 | 740 | 192.0 | 6,500 | 302.0 | 77 | 0.914 | 0.890 | 22.2 |
| | ALM 480V | 37.7 | 240.0 | 65.0 | 430 | 50.8 | 1,500 | 740 | 192.0 | 6,500 | 302.0 | 77 | 0.930 | 0.880 | 22.5 |
| | BLM/SLM 480V | 34.0 | 241.0 | 66.0 | 387 | 45.8 | 1,350 | 740 | 192.0 | 6,500 | 302.0 | 77 | 0.928 | 0.860 | 22.5 |

### Mechanical data

| | |
|---|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 160 |
| Cooling | Forced ventilation DE -> NDE |
| Vibration severity grade | R/A |
| Shaft and flange accuracy | R |
| Degree of protection | IP55 |
| Design acc. to Code I | IM B3 (IM V5, IM V6, IM B6, IM B7, IM B8) |
| Temperature monitoring | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard with fixed bearing |
| Shaft end | Feather key with half key balancing |
| Encoder system | Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm |

### Physical constants

| | |
|---|---|
| Thermal time constant | 35 min |
| Moment of inertia | 2,320 kgcm² |
| Weight (approx.) | 230 kg |

### Connection

| | |
|---|---|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | left |
| Signal connection | DE |
| Terminal box designation | gk863 |

### Cooling data and sound pressure level

| | |
|---|---|
| Airflow, min. | 0.16 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 | 200 Pa |

### External fan

**Max. power consumption**

| | |
|---|---|
| 3 AC 400 V / 50 Hz (±10%) | 0.16 A |
| 3 AC 400 V / 60 Hz (±10%) | 0.21 A |
| 3 AC 480 V / 60 Hz (±10%) | 0.21 A |

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

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