SIEMENS

# Data sheet for SIMOTICS M-1PH8



Figure similar

**Article No. :** **1PH8165-1AB00-2BA2**

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** | **16.0** | **306.0** | **36.0** | **365** | **17.5** | **500** | **610** | **75.0** | **6,500** | **329.0** | **37** | **0.830** | **0.850** | **14.8** |
| | BLM/SLM 400V | 13.0 | 310.0 | 36.0 | 300 | 14.1 | 400 | 610 | 75.0 | 6,500 | 329.0 | 37 | 0.826 | 0.860 | 14.9 |
| | ALM 480V | 22.0 | 300.0 | 35.0 | 475 | 24.3 | 700 | 610 | 75.0 | 6,500 | 329.0 | 37 | 0.900 | 0.880 | 12.0 |
| | BLM/SLM 480V | 19.0 | 302.0 | 35.0 | 420 | 20.8 | 600 | 610 | 75.0 | 6,500 | 329.0 | 37 | 0.850 | 0.880 | 12.0 |

## 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 | Without encoder |

## 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 | right |
| 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