SIEMENS

# Data sheet for SIMOTICS M-1PH8



Figure similar

**Article No. :** 1PH8224-1DB13-2DB1

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** | **38.0** | **726.0** | **85.0** | **335** | **17.2** | **500** | **1,760** | **225.0** | **4,500** | **726.0** | **85** | **0.896** | **0.860** | **36.0** |
| | BLM/SLM 400V | 30.4 | 726.0 | 86.0 | 268 | 13.9 | 400 | 1,760 | 225.0 | 4,500 | 726.0 | 86 | 0.872 | 0.870 | 34.0 |
| | ALM 480V | 52.0 | 709.0 | 82.0 | 470 | 23.9 | 700 | 1,760 | 225.0 | 4,500 | 726.0 | 82 | 0.923 | 0.840 | 37.0 |
| | BLM/SLM 480V | 45.0 | 716.0 | 83.0 | 405 | 20.5 | 600 | 1,760 | 225.0 | 4,500 | 716.0 | 83 | 0.912 | 0.850 | 37.0 |

## Mechanical data

| | |
|---|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 225 |
| Cooling | Forced ventilation NDE -> DE |
| Vibration severity grade | SR/A |
| Shaft and flange accuracy | R |
| Degree of protection | IP55 |
| Design acc. to Code I | IM B35 with A550 flange (IM V35) |
| Temperature monitoring | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard |
| Shaft end | Feather key with half key balancing |
| Encoder system | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

## Physical constants

| | |
|---|---|
| Thermal time constant | 49 min |
| Moment of inertia | 14,800 kgcm² |
| Weight (approx.) | 610 kg |

## Connection

| | |
|---|---|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | left |
| Signal connection | DE |
| Terminal box designation | 1XB7322-P05 |

## Cooling data and sound pressure level

| | |
|---|---|
| Airflow, min. | 0.31 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 | 650 Pa |

## External fan

**Max. power consumption**

| | |
|---|---|
| 1 AC 200 ... 277 V (±10%) 50/60 Hz ±10% | 2.0 ... 2.3 A |

[1] at a rated frequency of 2 kHz and a speed range of up to 3500 rpm