SIEMENS

# Data sheet for SIMOTICS M-1PH8



Figure similar

**Article No. :** **1PH8226-1AF10-2EA1**

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** | **135.0** | **737.0** | **250.0** | **395** | **58.8** | **1,750** | **1,850** | **570.0** | **4,500** | **737.0** | **250** | **0.960** | **0.830** | **119.0** |
| | BLM/SLM 400V | 130.0 | 828.0 | 270.0 | 340 | 50.5 | 1,500 | 1,850 | 570.0 | 4,500 | 828.0 | 270 | 0.957 | 0.850 | 119.0 |
| | ALM 480V | 130.0 | 564.0 | 205.0 | 500 | 73.7 | 2,200 | 1,850 | 570.0 | 4,500 | 828.0 | 205 | 0.958 | 0.760 | 123.0 |
| | BLM/SLM 480V | 153.0 | 731.0 | 245.0 | 450 | 67.1 | 2,000 | 1,850 | 570.0 | 4,500 | 731.0 | 245 | 0.961 | 0.830 | 119.0 |

## Mechanical data

| | |
|---|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 225 |
| Cooling | Forced ventilation NDE -> DE |
| Vibration severity grade | A |
| Shaft and flange accuracy | N |
| Degree of protection | IP55 |
| Design acc. to Code I | IM B3 (IM B6, IM B7, IM B8, IM V6) |
| Temperature monitoring | KTY84 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Increased cantilever forces |
| Shaft end | Feather key with half key balancing |
| Encoder system | Without encoder |

## Physical constants

| | |
|---|---|
| Thermal time constant | 52 min |
| Moment of inertia | 19,300 kgcm² |
| Weight (approx.) | 740 kg |

## Connection

| | |
|---|---|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | right |
| Signal connection | DE |
| Terminal box designation | 1XB7422-P06 |

## 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