SIEMENS

# Data sheet for SIMOTICS M-1PH8



Figure similar

**Article No. :** 1PH8284-1FC40-1AU1

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] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Δ | **ALM 400V** | **195.0** | **2,328.0** | **335.0** | **400** | **27.2** | **800** | **4,250** | **660.0** | **3,300** | **2,328.0** | **335** | **0.942** | **0.890** | **117.0** |
| | BLM/SLM 400V | 171.0 | 2,333.0 | 355.0 | 330 | 23.9 | 700 | 4,250 | 660.0 | 3,300 | 2,333.0 | 355 | 0.930 | 0.910 | 101.0 |
| | ALM 480V | 250.0 | 2,170.0 | 335.0 | 500 | 37.2 | 1,100 | 4,250 | 660.0 | 3,300 | 2,333.0 | 335 | 0.951 | 0.900 | 98.0 |
| | BLM/SLM 480V | 235.0 | 2,244.0 | 345.0 | 455 | 33.9 | 1,000 | 4,250 | 660.0 | 3,300 | 2,244.0 | 345 | 0.946 | 0.910 | 97.0 |

## Mechanical data

| | |
|---|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 280 |
| Cooling | Open circuit cooling NDE-> DE |
| Vibration severity grade | A |
| Shaft and flange accuracy | N |
| Degree of protection | IP23 |
| Design acc. to Code I | IM B3 (IM V6) |
| Temperature monitoring | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard |
| Shaft end | Feather key with full key balancing |
| Encoder system | Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm |

## Physical constants

| | |
|---|---|
| Thermal time constant | 18 min |
| Moment of inertia | 42,000 kgcm² |
| Weight (approx.) | 1,200 kg |

## Connection

| | |
|---|---|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE right |
| Power connection | below |
| Signal connection | DE |
| Terminal box designation | 1XB7700-P02 |

## Cooling data and sound pressure level

| | |
|---|---|
| Airflow, min. | 0.52 m³/s |
| Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 74 dB [1] |
| Air discharge | radial |
| Pressure drop | 600 Pa |

## External fan

**Max. power consumption**

| | |
|---|---|
| 3 AC 380 ... 480 V (-5% / +10%) 50/60 Hz ±10% | 0.75 ... 0.90 A |

[1] at a rated frequency of 2 kHz and a speed range of up to 2800 rpm