

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8226-1DD00-0BA1



Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

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 | $\cos \phi$ | μ [A] | |
|---|------------------|---------------|--------------|--------------|---------------|----------------|-------------------|------------------|--------------------|---------------|--------------|--------|-------------|--------------|------|
| Y | ALM 400V | 105.0 | 872.0 | 192.0 | 390 | 38.8 | 1,150 | 2,300 | 485.0 | 4,500.0 | 872.0 | 192 | 0.949 | 0.85 | 86.0 |
| | BLM/SLM 400V | 92.0 | 879.0 | 194.0 | 340 | 33.8 | 1,000 | 2,300 | 485.0 | 4,500.0 | 879.0 | 194 | 0.944 | 0.85 | 86.0 |
| | ALM/BLM/SLM 480V | 120.0 | 849.0 | 188.0 | 460 | 45.5 | 1,350 | 2,300 | 485.0 | 4,500.0 | 849.0 | 188 | 0.954 | 0.84 | 88.0 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 225 |
| 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 B6, IM B7, IM B8, IM V6) |
| Temperature monitoring | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard |
| Shaft extension | Plain shaft |
| Encoder system | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

Physical constants

| | |
|-----------------------|-----------------------|
| Thermal time constant | 52 min |
| Moment of inertia | 1.93 kgm ² |
| 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 | 1XB7322-P05 |

Cooling data and sound pressure level

| | |
|---|------------------------|
| Airflow, min. | 0.31 m ³ /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 |

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