



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8224-1HF00-0ED2

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 | $\cos \phi$ | I_{μ} [A] |
|---|------------------|---------------|---------------|--------------|--------------|---------------|----------------|-------------------|------------------|--------------------|---------------|--------------|--------|-------------|------------------|
| Y | ALM 400V | 110.0 | 600.0 | 198.0 | 395 | 58.9 | 1,750 | 1,550 | 485.0 | 4,500 | 600.0 | 198 | 0.956 | 0.850 | 87.0 |
| | BLM/SLM 400V | 95.0 | 605.0 | 200.0 | 340 | 50.5 | 1,500 | 1,550 | 485.0 | 4,500 | 605.0 | 200 | 0.953 | 0.850 | 87.0 |
| | ALM/BLM/SLM 480V | 124.0 | 592.0 | 196.0 | 460 | 67.2 | 2,000 | 1,550 | 485.0 | 4,500 | 592.0 | 196 | 0.957 | 0.830 | 90.0 |

Mechanical data

| | |
|---------------------------|--|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 225 |
| Cooling | Forced ventilation DE -> NDE |
| 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 | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Increased cantilever forces |
| Shaft end | Plain shaft |
| Encoder system | Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm |

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

Physical constants

| | |
|-----------------------|--------------------------|
| Thermal time constant | 49 min |
| Moment of inertia | 14,800 kgcm ² |
| Weight (approx.) | 610 kg |

Connection

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

External fan

Max. power consumption

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