

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8228-1HL10-2FA1



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 | $\cos \phi$ | I_{μ} [A] | |
|---|------------------|---------------|--------------|--------------|---------------|----------------|-------------------|------------------|--------------------|---------------|--------------|--------|-------------|------------------|-------|
| Y | ALM 400V | 215.0 | 708.0 | 390.0 | 395 | 97.1 | 2,900 | 1,750 | 880.0 | 4,500.0 | 880.0 | 390 | 0.961 | 0.84 | 183.0 |
| | BLM/SLM 400V | 205.0 | 783.0 | 420.0 | 340 | 83.8 | 2,500 | 1,750 | 880.0 | 4,500.0 | 783.0 | 420 | 0.963 | 0.86 | 181.0 |
| | ALM/BLM/SLM 480V | 95.0 | 267.0 | 225.0 | 460 | 113.5 | 3,400 | 1,750 | 880.0 | 4,500.0 | 267.0 | 225 | 0.922 | 0.57 | 183.0 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 225 |
| Cooling | Forced ventilation NDE -> DE |
| 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 | KTY84 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Increased cantilever forces |
| Shaft extension | Feather key with half key balancing |
| Encoder system | Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm |

Physical constants

| | |
|-----------------------|-----------------------|
| Thermal time constant | 55 min |
| Moment of inertia | 2.33 kgm ² |
| Weight (approx.) | 870 kg |

Connection

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

Cooling data and sound pressure level

| | |
|--|------------------------|
| Airflow, min. | 0.31 m ³ /s |
| Sound pressure level L _{pA} (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