



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1DD03-1AA1

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 | I _μ [A] |
|---|------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|-----------------------|-------|-------|-----------------------|
| Y | ALM 400V | 58.0 | 482.0 | 112.0 | 390 | 38.9 | 1,150 | 1,230 | 265.0 | 5,000 | 482.0 | 112 | 0.933 | 0.820 | 57.0 |
| | BLM/SLM 400V | 51.0 | 487.0 | 112.0 | 340 | 34.0 | 1,000 | 1,230 | 265.0 | 5,000 | 487.0 | 112 | 0.926 | 0.830 | 56.0 |
| | ALM/BLM/SLM 480V | 67.0 | 474.0 | 112.0 | 450 | 45.6 | 1,350 | 1,230 | 265.0 | 5,000 | 474.0 | 112 | 0.939 | 0.820 | 55.0 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 180 |
| Cooling | Forced ventilation DE -> NDE |
| Vibration severity grade | A |
| Shaft and flange accuracy | N |
| Degree of protection | IP55 |
| Design acc. to Code I | IM B35 with A450 flange (IM V35) |
| 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 | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10% 1.1 ... 1.3 A

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 5000 rpm

Physical constants

| | |
|-----------------------|-------------------------|
| Thermal time constant | 25 min |
| Moment of inertia | 6,520 kgcm ² |
| Weight (approx.) | 422 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. | 0.17 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 | 550 Pa |