



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8184-1JF10-1FA1

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 | 60.0 | 327.0 | 120.0 | 390 | 58.9 | 1,750 | 925 | 300.0 | 5,000 | 327.0 | 120 | 0.944 | 0.790 | 64.0 |
| | BLM/SLM 400V | 51.0 | 325.0 | 116.0 | 335 | 50.6 | 1,500 | 925 | 300.0 | 5,000 | 325.0 | 116 | 0.940 | 0.800 | 63.0 |
| | ALM/BLM/SLM 480V | 68.0 | 325.0 | 118.0 | 450 | 67.2 | 2,000 | 925 | 300.0 | 5,000 | 325.0 | 118 | 0.947 | 0.780 | 65.0 |

Mechanical data

| | |
|---------------------------|--|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 180 |
| 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 end | Feather key with full key balancing |
| Encoder system | Incremental encoder HTL 2048 S/R, max. encoder speed = 4600 rpm |

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

Physical constants

| | |
|-----------------------|-------------------------|
| Thermal time constant | 22 min |
| Moment of inertia | 4,890 kgcm ² |
| Weight (approx.) | 350 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 LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 73 dB ¹⁾ |
| Air discharge | axial |
| Pressure drop | 550 Pa |

External fan

Max. power consumption

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