



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8184-1AF30-2AA1

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] |
|------------------|---------------|---------------|--------------|--------------|---------------|----------------|-------------------|------------------|--------------------|---------------|--------------|--------|-------------|------------------|
| ALM 400V | 89.0 | 486.0 | 162.0 | 390 | 59.3 | 1,750 | 925 | 300.0 | 5,000 | 486.0 | 162 | 0.937 | 0.870 | 61.0 |
| Y BLM/SLM 400V | 76.0 | 484.0 | 162.0 | 335 | 50.9 | 1,500 | 925 | 300.0 | 5,000 | 484.0 | 162 | 0.931 | 0.870 | 61.0 |
| ALM/BLM/SLM 480V | 98.0 | 468.0 | 156.0 | 450 | 67.5 | 2,000 | 925 | 300.0 | 5,000 | 468.0 | 156 | 0.943 | 0.850 | 63.0 |

Mechanical data

| | |
|---------------------------|--|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 180 |
| Cooling | Open circuit cooling DE-> NDE |
| Vibration severity grade | A |
| Shaft and flange accuracy | N |
| Degree of protection | IP23 |
| 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 | Standard |
| Shaft extension | Feather key with half key balancing |
| Encoder system | Without encoder |

Physical constants

| | |
|-----------------------|-------------------------|
| Thermal time constant | 26 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. | 0.21 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 | 450 Pa |

External fan

Max. power consumption

| | |
|---|---------------|
| 1 AC 200 ... 277 V ($\pm 10\%$) 50/60 Hz $\pm 10\%$ | 1.1 ... 1.3 A |
|---|---------------|

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3000 rpm