

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8228-1DB40-0BA1-Z**
G14+K09+L00+L76



Figure similar

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 | 90.0 | 1,719.0 | 174.0 | 380 | 17.3 | 500 | 2,750 | 300.0 | 4,500 | 1,719.0 | 174 | 0.899 | 0.870 | 73.0 |
| | BLM/SLM 400V | 72.0 | 1,719.0 | 176.0 | 305 | 14.0 | 400 | 2,750 | 300.0 | 4,500 | 1,719.0 | 176 | 0.878 | 0.880 | 69.0 |
| | ALM/BLM/SLM 480V | 108.0 | 1,719.0 | 188.0 | 410 | 20.8 | 600 | 2,750 | 300.0 | 4,500 | 1,719.0 | 188 | 0.902 | 0.900 | 57.0 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 225 |
| Cooling | Open circuit cooling NDE-> DE |
| Vibration severity grade | R/A |
| Shaft and flange accuracy | R |
| Degree of protection | IP23 |
| 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 | Standard |
| Shaft extension | Plain shaft |
| Encoder system | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

Physical constants

| | |
|-----------------------|--------------------------|
| Thermal time constant | 25 min |
| Moment of inertia | 23,300 kgcm ² |
| Weight (approx.) | 870 kg |

Connection

| | |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE right |
| Power connection | DE |
| Signal connection | top |
| Terminal box designation | 1XB7422-P06 |

Cooling data and sound pressure level

| | |
|---|------------------------|
| Airflow, min. | 0.33 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 | 600 Pa |

Special design

| | |
|-----|---|
| G14 | with air filter |
| K09 | Terminal box NDE right |
| L00 | Terminal box replaced by the next larger terminal box |
| L76 | EC fan 400 V 3 AC 50/60 Hz |

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 2000 rpm