

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8226-1AF00-2AA1-Z**
A12+K40+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 | 135.0 | 737.0 | 250.0 | 395 | 58.8 | 1,750 | 1,850 | 570.0 | 4,500 | 737.0 | 250 | 0.960 | 0.830 | 119.0 |
| | BLM/SLM 400V | 130.0 | 828.0 | 270.0 | 340 | 50.5 | 1,500 | 1,850 | 570.0 | 4,500 | 828.0 | 270 | 0.957 | 0.850 | 119.0 |
| | ALM/BLM/SLM 480V | 135.0 | 731.0 | 245.0 | 450 | 67.1 | 2,000 | 1,850 | 570.0 | 4,500 | 731.0 | 245 | 0.961 | 0.830 | 119.0 |

Mechanical data

| | |
|---------------------------|--|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 225 |
| Cooling | Forced ventilation DE -> NDE |
| Vibration severity grade | A |
| Shaft and flange accuracy | N |
| 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 | Standard |
| Shaft extension | Feather key with half key balancing |
| Encoder system | Without encoder |

Physical constants

| | |
|-----------------------|--------------------------|
| Thermal time constant | 52 min |
| Moment of inertia | 19,300 kgcm ² |
| Weight (approx.) | 740 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 LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 73 dB ¹⁾ |
| Air discharge | axial |
| Pressure drop | 650 Pa |

External fan

Max. power consumption

| | |
|--|-----------------|
| 3 AC 380 ... 480 V (-5% / +10%) 50/60 Hz ±10% | 0.75 ... 0.90 A |
|--|-----------------|

Special design

| | |
|-----|--|
| A12 | Additional PTC thermistor chain for alarm and tripping |
| K40 | Regreasing system |
| 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 3500 rpm