

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8137-1DF10-OCA1



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 | 25.0 | 136.0 | 56.0 | 353 | 59.6 | 1,750 | 380 | 151.0 | 8,000 | 172.0 | 68 | 0.907 | 0.840 | 23.1 |
| | BLM/SLM 400V | 22.0 | 140.0 | 56.0 | 308 | 51.3 | 1,500 | 380 | 151.0 | 8,000 | 172.0 | 68 | 0.904 | 0.840 | 24.2 |
| | ALM/BLM/SLM 480V | 28.0 | 134.0 | 55.0 | 401 | 67.9 | 2,000 | 380 | 151.0 | 8,000 | 172.0 | 68 | 0.931 | 0.840 | 23.1 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 132 |
| Cooling | Forced ventilation NDE -> DE |
| Vibration severity grade | S/A |
| Shaft and flange accuracy | R |
| Degree of protection | IP55 |
| Design acc. to Code I | IM B3 (IM V5, IM V6, IM B6, IM B7, IM B8) |
| Temperature monitoring | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard with fixed bearing |
| Shaft end | Plain shaft |
| Encoder system | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

External fan

Max. power consumption

| | |
|---------------------------|--------|
| 3 AC 400 V / 50 Hz (±10%) | 0.13 A |
| 3 AC 400 V / 60 Hz (±10%) | 0.16 A |
| 3 AC 480 V / 60 Hz (±10%) | 0.17 A |

¹⁾ at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

Physical constants

| | |
|-----------------------|-------------------------|
| Thermal time constant | 30 min |
| Moment of inertia | 1,090 kgcm ² |
| Weight (approx.) | 141 kg |

Connection

| | |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | right |
| Signal connection | DE |
| Terminal box designation | gk833 |

Cooling data and sound pressure level

| | |
|---|------------------------|
| Airflow, min. | 0.09 m ³ /s |
| Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 70 dB ¹⁾ |
| Air discharge | axial |
| Pressure drop | 140 Pa |