

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8163-1DF02-1CA1



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 | 34.0 | 186.0 | 70.0 | 366 | 59.2 | 1,750 | 600 | 217.0 | 6,500 | 252.0 | 87 | 0.926 | 0.870 | 24.6 |
| | BLM/SLM 400V | 30.0 | 191.0 | 71.0 | 319 | 50.8 | 1,500 | 600 | 217.0 | 6,500 | 252.0 | 87 | 0.923 | 0.870 | 25.6 |
| | ALM 480V | 40.7 | 177.0 | 68.0 | 456 | 74.2 | 2,200 | 600 | 217.0 | 6,500 | 252.0 | 87 | 0.940 | 0.880 | 24.6 |
| | BLM/SLM 480V | 37.0 | 177.0 | 68.0 | 416 | 67.4 | 2,000 | 600 | 217.0 | 6,500 | 252.0 | 87 | 0.932 | 0.860 | 24.6 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 160 |
| Cooling | Forced ventilation DE -> NDE |
| Vibration severity grade | S/A |
| Shaft and flange accuracy | R |
| Degree of protection | IP55 |
| Design acc. to Code I | IM B5 (IM V1, IM V3) |
| Temperature monitoring | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard with fixed bearing |
| Shaft end | Feather key with full key balancing |
| 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%) | 0.16 A |
| 3 AC 400 V / 60 Hz (±10%) | 0.21 A |
| 3 AC 480 V / 60 Hz (±10%) | 0.21 A |

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

Physical constants

| | |
|-----------------------|-------------------------|
| Thermal time constant | 35 min |
| Moment of inertia | 2,160 kgcm ² |
| Weight (approx.) | 196 kg |

Connection

| | |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | right |
| Signal connection | DE |
| Terminal box designation | gk863 |

Cooling data and sound pressure level

| | |
|---|------------------------|
| Airflow, min. | 0.16 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 | 200 Pa |