



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8133-2FL00-0GA1

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 | 35.2 | 120.0 | 54.0 | 415 | 93.3 | 2,800 | 310 | 162.0 | 4,500 | 131.0 | 59 | 0.952 | 0.000 | 0.0 |
| | BLM/SLM 400V | 31.7 | 121.0 | 55.0 | 371 | 83.3 | 2,500 | 310 | 162.0 | 4,500 | 131.0 | 59 | 0.948 | 0.000 | 0.0 |
| | ALM/BLM/SLM 480V | 37.4 | 119.0 | 54.0 | 449 | 100.0 | 3,000 | 310 | 162.0 | 4,500 | 131.0 | 59 | 0.952 | 0.000 | 0.0 |

Mechanical data

| | |
|---------------------------|--|
| Motor type | Permanent-magnet synchronous motor |
| Shaft height | 132 |
| Cooling | Forced ventilation DE -> NDE |
| Vibration severity grade | R/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 |
| Shaft end | Plain shaft |
| Encoder system | Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm |

External fan

Max. power consumption

| | |
|---------------------------|--------|
| 3 AC 400 V / 50 Hz (±10%) | 0.10 A |
| 3 AC 400 V / 60 Hz (±10%) | 0.12 A |
| 3 AC 480 V / 60 Hz (±10%) | 0.12 A |

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

Physical constants

| | |
|-----------------------|-----------------------|
| Thermal time constant | 10 min |
| Moment of inertia | 600 kgcm ² |
| Weight (approx.) | 103 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 |