



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8133-1FD02-1DA1

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 | 13.5 | 112.0 | 29.0 | 361 | 40.0 | 1,150 | 250 | 65.0 | 8,000 | 128.0 | 32 | 0.884 | 0.870 | 10.7 |
| | BLM/SLM 400V | 12.0 | 115.0 | 30.0 | 319 | 35.0 | 1,000 | 250 | 65.0 | 8,000 | 128.0 | 32 | 0.871 | 0.880 | 10.1 |
| | ALM/BLM/SLM 480V | 15.0 | 106.0 | 28.0 | 417 | 46.5 | 1,350 | 250 | 65.0 | 8,000 | 128.0 | 32 | 0.904 | 0.860 | 10.7 |

Mechanical data

| | |
|---------------------------|--|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 132 |
| Cooling | Forced ventilation DE -> NDE |
| Vibration severity grade | SR/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 | 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 | 30 min |
| Moment of inertia | 760 kgcm ² |
| Weight (approx.) | 106 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 L _{pA} (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 70 dB ¹⁾ |
| Air discharge | axial |
| Pressure drop | 140 Pa |