



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8101-1HF10-1BA1

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 | 4.3 | 23.0 | 12.5 | 304 | 60.8 | 1,750 | 60 | 32.0 | 9,000 | 29.0 | 14 | 0.852 | 0.80 | 6.0 |
| | BLM/SLM 400V | 3.7 | 24.0 | 12.5 | 265 | 52.4 | 1,500 | 60 | 32.0 | 9,000 | 29.0 | 14 | 0.835 | 0.80 | 6.0 |
| | ALM/BLM/SLM 480V | 4.7 | 22.0 | 12.5 | 343 | 69.0 | 2,000 | 60 | 32.0 | 9,000 | 29.0 | 14 | 0.871 | 0.79 | 6.0 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 100 |
| Cooling | Forced ventilation NDE -> DE |
| 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) |
| Temperature monitoring | KTY84 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard with fixed bearing |
| Shaft extension | Feather key with full key balancing |
| Encoder system | Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm |

Physical constants

| | |
|-----------------------|-----------------------|
| Thermal time constant | 20 min |
| Moment of inertia | 138 kgcm ² |
| Weight (approx.) | 42 kg |

Connection

| | |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | right |
| Signal connection | DE |
| Terminal box designation | gk813 |

Cooling data and sound pressure level

| | |
|---|------------------------|
| Airflow, min. | 0.04 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 | 110 Pa |

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