



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8165-2DF00-0GA1

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 | 69.0 | 375.0 | 115.0 | 395 | 117.0 | 1,750 | 1,135 | 367.0 | 4,000 | 440.0 | 126 | 0.943 | 0.000 | 0.0 |
| | BLM/SLM 400V | 61.0 | 390.0 | 119.0 | 340 | 100.0 | 1,500 | 1,135 | 367.0 | 4,000 | 440.0 | 126 | 0.940 | 0.000 | 0.0 |
| | ALM/BLM/SLM 480V | 74.0 | 355.0 | 110.0 | 445 | 133.0 | 2,000 | 1,135 | 367.0 | 4,000 | 440.0 | 126 | 0.946 | 0.000 | 0.0 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Permanent-magnet synchronous motor |
| Shaft height | 160 |
| 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 extension | Plain shaft |
| Encoder system | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

Physical constants

| | |
|-----------------------|-------------------------|
| Thermal time constant | 10 min |
| Moment of inertia | 2,160 kgcm ² |
| Weight (approx.) | 218 kg |

Connection

| | |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | right |
| Signal connection | DE |
| Terminal box designation | gk874 |

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 |

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