



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8107-1DG02-0BA1

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 | $\cos \phi$ | $I\mu$ [A] |
|---|------------------|---------------|---------------|--------------|--------------|---------------|----------------|-------------------|------------------|--------------------|---------------|--------------|--------|-------------|---------------|
| Y | ALM 400V | 12.0 | 50.0 | 26.0 | 406 | 78.6 | 2,300 | 120 | 60.0 | 9,000 | 63.0 | 29 | 0.909 | 0.78 | 13.0 |
| | BLM/SLM 400V | 10.5 | 50.0 | 26.0 | 355 | 68.6 | 2,000 | 120 | 60.0 | 9,000 | 63.0 | 29 | 0.897 | 0.78 | 12.9 |
| | ALM/BLM/SLM 480V | 13.0 | 47.0 | 24.0 | 460 | 90.0 | 2,650 | 120 | 60.0 | 9,000 | 63.0 | 29 | 0.932 | 0.77 | 12.8 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 100 |
| 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 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 extension | Plain shaft |
| Encoder system | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

Physical constants

| | |
|-----------------------|-----------------------|
| Thermal time constant | 20 min |
| Moment of inertia | 289 kgcm ² |
| Weight (approx.) | 73 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