



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8224-1DC10-0BA1

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 φ | I _μ [A] |
|---|------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|-----------------------|-------|-------|-----------------------|
| Y | ALM 400V | 57.0 | 681.0 | 126.0 | 350 | 27.1 | 800 | 1,760 | 285.0 | 4,500 | 681.0 | 126 | 0.934 | 0.800 | 67.0 |
| | BLM/SLM 400V | 55.0 | 750.0 | 136.0 | 310 | 23.8 | 700 | 1,760 | 285.0 | 4,500 | 750.0 | 136 | 0.925 | 0.820 | 67.0 |
| | ALM/BLM/SLM 480V | 71.0 | 678.0 | 126.0 | 425 | 33.8 | 1,000 | 1,760 | 185.0 | 4,500 | 678.0 | 126 | 0.943 | 0.810 | 64.0 |

Mechanical data

| | |
|---------------------------|---------------------------------------------------------------------------------------------|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 225 |
| 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 B6, IM B7, IM B8, IM V6) |
| 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 | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

External fan

Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10% 2.0 ... 2.3 A

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3500 rpm

Physical constants

| | |
|-----------------------|--------------------------|
| Thermal time constant | 49 min |
| Moment of inertia | 14,800 kgcm ² |
| Weight (approx.) | 610 kg |

Connection

| | |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE top |
| Power connection | right |
| Signal connection | DE |
| Terminal box designation | 1XB7322-P05 |

Cooling data and sound pressure level

| | |
|-----------------------------------------------------------------------------------------------|------------------------|
| Airflow, min. | 0.31 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 | 650 Pa |