



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8284-1HF10-2BU2-Z**
G14

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] |
|---|------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|-----------------------|-------|-------|-----------------------|
| Δ | ALM 400V | 225.0 | 1,228.0 | 390.0 | 400 | 58.7 | 1,750 | 3,650 | 1,100.0 | 3,300 | 1,228.0 | 390 | 0.964 | 0.860 | 162.0 |
| | BLM/SLM 400V | 196.0 | 1,248.0 | 390.0 | 345 | 50.4 | 1,500 | 3,650 | 1,100.0 | 3,300 | 1,248.0 | 390 | 0.963 | 0.870 | 162.0 |
| | ALM/BLM/SLM 480V | 255.0 | 1,218.0 | 390.0 | 455 | 67.0 | 2,000 | 3,650 | 1,100.0 | 3,300 | 1,218.0 | 390 | 0.965 | 0.860 | 162.0 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 280 |
| 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 V6) |
| Temperature monitoring | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard |
| Shaft end | Feather key with half key balancing |
| Encoder system | Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm |

Physical constants

| | |
|-----------------------|--------------------------|
| Thermal time constant | 47 min |
| Moment of inertia | 42,000 kgcm ² |
| Weight (approx.) | 1,200 kg |

Connection

| | |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection | NDE right |
| Power connection | below |
| Signal connection | DE |
| Terminal box designation | 1XB7700-P02 |

Cooling data and sound pressure level

| | |
|---|------------------------|
| Airflow, min. | 0.42 m ³ /s |
| Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 74 dB ¹⁾ |
| Air discharge | radial |
| Pressure drop | 600 Pa |

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%)
50/60 Hz ±10% 0.75 ... 0.90 A

Special design

G14 with air filter

¹⁾ at a rated frequency of 2 kHz and a speed range of up to 3300 rpm