SIEMENS



Figure similar

# Data sheet for SIMOTICS M-1PH8

**Article No. :** **1PH8133-2FG20-1GH1**

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 | Iμ [A] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Y | **ALM 400V** | **34.9** | **145.0** | **57.0** | **415** | **76.7** | **2,300** | **310** | **140.0** | **4,500** | **155.0** | **61** | **0.951** | **0.000** | **0.0** |
| | BLM/SLM 400V | 30.6 | 146.0 | 57.0 | 383 | 66.7 | 2,000 | 310 | 140.0 | 4,500 | 155.0 | 61 | 0.950 | 0.000 | 0.0 |
| | ALM/BLM/SLM 480V | 39.1 | 141.0 | 57.0 | 449 | 88.3 | 2,650 | 310 | 140.0 | 4,500 | 155.0 | 61 | 0.952 | 0.000 | 0.0 |

## Mechanical data

| | |
|---|---|
| Motor type | Permanent-magnet synchronous motor |
| Shaft height | 132 |
| Cooling | Water cooling |
| Vibration severity grade | R/A |
| Shaft and flange accuracy | R |
| Degree of protection | IP65 |
| 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 end | Feather key with full key balancing |
| Encoder system | Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm |

## Physical constants

| | |
|---|---|
| Thermal time constant | 5 min |
| Moment of inertia | 600 kgcm² |
| Weight (approx.) | 120 kg |

## Connection

| | |
|---|---|
| Type of electrical connection | Power connector |
| Position of the connection | Power connector, top |
| Power connection | DE |
| Signal connection | left |

## Cooling data and sound pressure level

| | |
|---|---|
| Flow rate, min. | 12 l/min |
| Sound pressure level LpA(1m) motor rated load, tolerance + 3dB | 68 dB [1)] |
| Pressure drop | 0.9 bar |
| NDE thread connection | 0.375 Inches |

## Cooling water specification

| | |
|---|---|
| pH value | 6 ... 9 |
| Total hardness | 1.7 mmol/l |
| Electrical conductivity | 500 µS/cm |
| Chloride ions | 40 mg/l |
| Sulfate ions | 50 mg/l |
| Nitrate ions | 50 mg/l |
| Dissolved substances | 340 mg/l |
| Maximum particle size | 100 µm |
| Antifreeze/corrosion protection | 20 ... 30 % |

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

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