SIEMENS

# Data sheet for SIMOTICS M-1PH3

Figure similar

**Article No. :** 1PH3101-1DF00-2LA0

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

## Engineering data

| Winding version | Star connection |
|---|---|
| Rated power | 3.7 kW |
| Rated speed | 1,500 rpm |
| Rated torque | 24 Nm |
| Rated current | 12.0 A |
| Rated voltage | 275 V |
| Maximum speed | 12,000 rpm |
| Maximum current | 24.0 A |
| Power for duty type S6-40%, maximum | 4.8 kW |
| Standstill current for duty type S6-40%, maximum | 16.0 A |
| Power for duty type S6-25%, maximum | 5.6 kW |
| Standstill current for duty type S6-25%, maximum | 18.0 A |
| Power for duty type S6-15%, maximum | 7.4 kW |
| Standstill current for duty type S6-15%, maximum | 24.0 A |
| Field weakening speed, max. | 7,000 rpm |
| Line frequency | 52.5 Hz |

## Mechanical data

| | |
|---|---|
| Motor type | Induction motor |
| Shaft height | 100 |
| Cooling | Fan |
| Vibration severity grade | S |
| Shaft and flange accuracy | R |
| Radial runout tolerance | 0.03 mm |
| Concentricity tolerance | 0.05 mm |
| Axial runout tolerance | 0.05 mm |
| Type of the bearing | Performance |
| Bearing replacement interval (recommended) | 12,000 h |
| Design acc. to Code I | IM B3 / IM V5 |
| Degree of protection | IP55 |
| | Dust-tight and splash-proof during motor operation |
| Color | Anthracite 614 |
| Shaft end | Shaft with key (half-key balancing) |
| Sound pressure level (1m) | 73 dB |
| Thermal class | H |
| Mounting type | Foot mounting |
| Encoder system | Incremental encoder, 22-bit, with commutation position |

## Ambient conditions

| Ambient temperature | |
|---|---|
| Operation | -15 ... 40 °C |
| | (without power derating) |
| Storage | -20 ... 65 °C |
| **Relative humidity** | |
| Max. operation | 90 % |
| Bearing, max. | 95 % |

## Physical constants

| | |
|---|---|
| Moment of inertia | kgcm² |