SIEMENS

# Data sheet for SIMOTICS M-1PH3 Pro

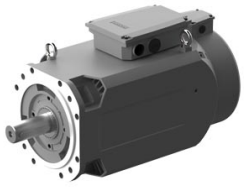

Figure similar

## Article No. : 1PH3131-1LF12-1KA1

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

Item no. :
Consignment no. :
Project :

### Engineering data

| Winding version | Star connection |
|---|---|
| Rated power | 11.0 kW |
| Rated speed | 1,500 rpm |
| Rated torque | 70 Nm |
| Rated current | 24.0 A |
| Rated voltage | 355 V |
| Maximum speed | 10,000 rpm |
| Maximum current | 48.0 A |
| Power for duty type S6-40%, maximum | 14.3 kW |
| Standstill current for duty type S6-40%, maximum | 31.0 A |
| Power for duty type S6-25%, maximum | 16.5 kW |
| Standstill current for duty type S6-25%, maximum | 36.0 A |
| Power for duty type S6-15%, maximum | 22.0 kW |
| Standstill current for duty type S6-15%, maximum | 48.0 A |
| Field weakening speed, max. | 4,500 rpm |
| Line frequency | 51.6 Hz |

### Mechanical data

| | |
|---|---|
| Motor type | Induction motor |
| Shaft height | 132 |
| Cooling | Fan Cooling NDE->DE |
| Vibration severity grade | SR |
| 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 B5 / IM V1 |
| Degree of protection | IP55 |
| | Dust-tight and splash-proof during motor operation |
| Color | Anthracite 614 |
| Shaft end | Shaft with key (full-key balancing) |
| Sound pressure level (1m) | 73 dB |
| Thermal class | H |
| Mounting type | Flange mounting |
| Encoder system | Incremental encoder, TTL, 2500ppr |

### 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 | 0.05 kgcm² |