

## Data sheet for SIMOTICS M-1PH3 Pro

Article No. : 1PH3101-1DF02-1KA1

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

Item no. :  
Consignment no. :  
Project :

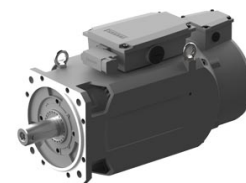


Figure similar

| 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                                    | 10,000 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.                      | 8,000 rpm       |
| Line frequency                                   | 52.5 Hz         |

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

| Physical constants |                        |
|--------------------|------------------------|
| Moment of inertia  | 0.01 kgcm <sup>2</sup> |

| Mechanical data                            |                                                                |
|--------------------------------------------|----------------------------------------------------------------|
| Motor type                                 | Induction motor                                                |
| Shaft height                               | 100                                                            |
| Cooling                                    | Fan Cooling DE->NDE                                            |
| 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<br><br>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, 22-bit, with commutation position         |