

SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor

No image  
available for this  
configuration.

MLFB-Ordering data1FE1072-4WN31-1BA2

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

Item no. :  
Consignment no. :  
Project :

| Engineering data            |                                          | Mechanical data        |                                                                              |
|-----------------------------|------------------------------------------|------------------------|------------------------------------------------------------------------------|
| Rated power                 | 16.0 kW                                  | Motor length           | 185 mm                                                                       |
| Rated speed                 | 5500 rpm                                 | Outer diameter stator  | 155.0 mm                                                                     |
| Rated torque                | 28.0 Nm                                  | Inner diameter rotor   | 58.0 mm                                                                      |
| Rated current               | 36 A                                     | Stator design          | with cooling jacket                                                          |
| Static torque               | 28.00 Nm                                 | Rotor design           | without rotor sleeve                                                         |
| Static current              | 36.00 A                                  | Motor protection       | Cast winding with full protection (2 temperature sensors + 3 PTCs)           |
| Maximum speed               | 24000 rpm                                | Temperature monitoring | KTY84 temperature sensor in the stator winding                               |
| Maximum torque              | 53.0 Nm                                  | Cable outlet           | Free cable ends 500 mm (cable outlet at the larger outside housing diameter) |
| Maximum current             | 72 A                                     | Scope of delivery      | Stator + Rotor                                                               |
| Rotor moment of inertia     | 28.7 kgcm²                               |                        |                                                                              |
| VPM module *                | Voltage limitation required (VPM or IVP) |                        |                                                                              |
| Physical constants          |                                          |                        |                                                                              |
| Voltage constant at 20° C   | 58.0 V/1000*min <sup>-1</sup>            |                        |                                                                              |
| Winding resistance at 20° C | 0.3100 Ω                                 |                        |                                                                              |
| Rotary field inductance     | 5.50 mH                                  |                        |                                                                              |
| Thermal time constant       | 2 min                                    |                        |                                                                              |
| Net weight of rotor         | 2.2 kg                                   |                        |                                                                              |
| Net weight of stator        | 12.5 kg                                  |                        |                                                                              |
| Total net weight            | 14.7 kg                                  |                        |                                                                              |

\* VPM: Voltage Protection Module