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MLFB-Ordering data 1FK7103-5AC71-1DH2

Client order no. :  
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Project :

| Engineering data            |                                | Mechanical data          |                                                                                                                            |
|-----------------------------|--------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Rated speed (100 K)         | 2000 rpm                       | Motor type               | Permanent-magnet synchronous motor                                                                                         |
| Number of poles             | 8                              | Motor type               | Compact                                                                                                                    |
| Rated torque (100 K)        | 25.0 Nm                        | Shaft height             | 100                                                                                                                        |
| Rated current               | 11.5 A                         | Cooling                  | Natural cooling                                                                                                            |
| Static torque (60 K)        | 30.00 Nm                       | Radial runout tolerance  | 0.050 mm                                                                                                                   |
| Static torque (100 K)       | 36.00 Nm                       | Concentricity tolerance  | 0.10 mm                                                                                                                    |
| Stall current (60 K)        | 12.00 A                        | Axial runout tolerance   | 0.10 mm                                                                                                                    |
| Stall current (100 K)       | 14.70 A                        | Vibration severity grade | Grade A                                                                                                                    |
| Moment of inertia           | 118.000 kgcm <sup>2</sup>      | Connector size           | 1.5                                                                                                                        |
| Efficiency                  | 93.0 %                         | Degree of protection     | IP65 and DE flange IP67                                                                                                    |
| Physical constants          |                                | Design acc. to Code I    | IM B5 (IM V1, IM V3)                                                                                                       |
| Torque constant             | 2.45 Nm/A                      | Temperature monitoring   | KTY84 temperature sensor in the stator winding                                                                             |
| Voltage constant at 20° C   | 156.0 V/1000*min <sup>-1</sup> | Electrical connectors    | Connectors for signals and power rotatable                                                                                 |
| Winding resistance at 20° C | 0.28 Ω                         | Color of the housing     | without                                                                                                                    |
| Rotating field inductance   | 6.5 mH                         | Holding brake            | with holding brake                                                                                                         |
| Electrical time constant    | 23.00 ms                       | Shaft end                | Plain shaft                                                                                                                |
| Mechanical time constant    | 1.50 ms                        | Encoder system           | Encoder IC22DQ: incremental encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + commutation position 11 bits |
| Thermal time constant       | 65 min                         |                          |                                                                                                                            |
| Shaft torsional stiffness   | 149000 Nm/rad                  |                          |                                                                                                                            |
| Net weight of the motor     | 32.0 kg                        |                          |                                                                                                                            |

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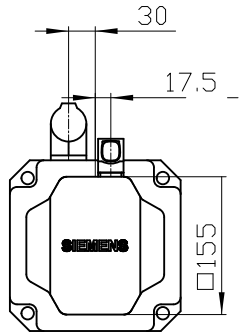
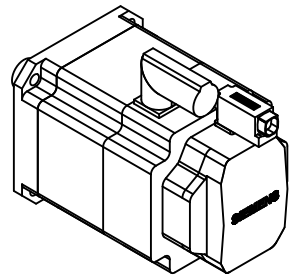
| Optimum operating point           |                        | Recommended Motor Module |          |
|-----------------------------------|------------------------|--------------------------|----------|
| Optimum speed                     | 2000 rpm               | Rated inverter current   | 18 A     |
| Optimum power                     | 5.2 kW                 | Maximum inverter current | 36 A     |
| Limiting data                     |                        | Maximum torque           | 86.00 Nm |
| Max. permissible speed (mech.)    | 5000 rpm               |                          |          |
| Max. permissible speed (inverter) | 3700 rpm               |                          |          |
| Maximum torque                    | 108.0 Nm               |                          |          |
| Maximum current                   | 46.0 A                 |                          |          |
| Holding brake                     |                        |                          |          |
| Holding brake version             | Permanent-magnet brake |                          |          |
| Holding torque                    | 43.0 Nm                |                          |          |
| Power supply voltage              | DC 24 V ± 10 %         |                          |          |
| Coil current                      | 1.0 A                  |                          |          |
| Opening time                      | 300 ms                 |                          |          |
| Closing time                      | 70 ms                  |                          |          |
| Highest braking work              | 3380 J                 |                          |          |

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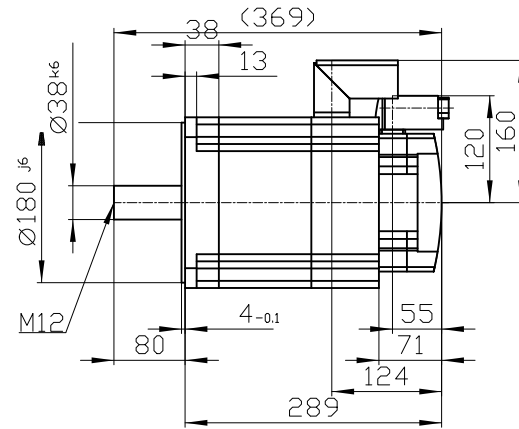
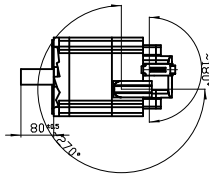
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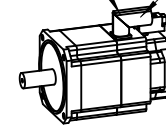
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DIN 332-DR



Connector size 1.5 = M40;  
6-pole for power and brake



10-pole RJ45 socket

