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MLFB-Ordering data1FK7105-5AF71-1PB2

Client order no. :  
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Consignment no. :  
Project :

| Engineering data            |                                | Mechanical data          |                                                                      |
|-----------------------------|--------------------------------|--------------------------|----------------------------------------------------------------------|
| Rated speed (100 K)         | 3000 rpm                       | Motor type               | Permanent-magnet synchronous motor                                   |
| Number of poles             | 8                              | Motor type               | Compact                                                              |
| Rated torque (100 K)        | 26.0 Nm                        | Shaft height             | 100                                                                  |
| Rated current               | 18.0 A                         | Cooling                  | Natural cooling                                                      |
| Static torque (60 K)        | 40.00 Nm                       | Radial runout tolerance  | 0.050 mm                                                             |
| Static torque (100 K)       | 48.00 Nm                       | Concentricity tolerance  | 0.10 mm                                                              |
| Stall current (60 K)        | 25.00 A                        | Axial runout tolerance   | 0.10 mm                                                              |
| Stall current (100 K)       | 31.00 A                        | Vibration severity grade | Grade A                                                              |
| Moment of inertia           | 169.000 kgcm²                  | Connector size           | 1.5                                                                  |
| Efficiency                  | 94.0 %                         | Degree of protection     | IP65 and DE flange IP67                                              |
| Physical constants          |                                | Design acc. to Code I    | IM B5 (IM V1, IM V3)                                                 |
| Torque constant             | 1.57 Nm/A                      | Temperature monitoring   | KTY84 temperature sensor in the stator winding                       |
| Voltage constant at 20° C   | 100.0 V/1000*min <sup>-1</sup> | Electrical connectors    | Connectors for signals and power rotatable                           |
| Winding resistance at 20° C | 0.07 Ω                         | Color of the housing     | without                                                              |
| Rotating field inductance   | 1.9 mH                         | Holding brake            | with holding brake                                                   |
| Electrical time constant    | 26.00 ms                       | Shaft end                | Feather key                                                          |
| Mechanical time constant    | 1.40 ms                        | Encoder system           | Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole) |
| Thermal time constant       | 70 min                         |                          |                                                                      |
| Shaft torsional stiffness   | 125000 Nm/rad                  |                          |                                                                      |
| Net weight of the motor     | 41.5 kg                        |                          |                                                                      |

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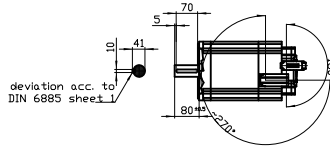
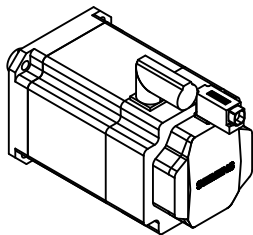
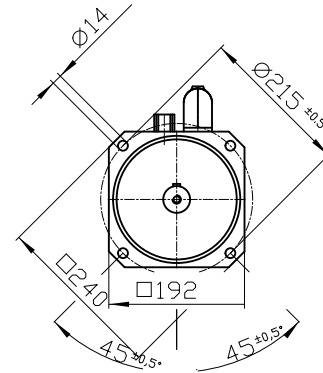
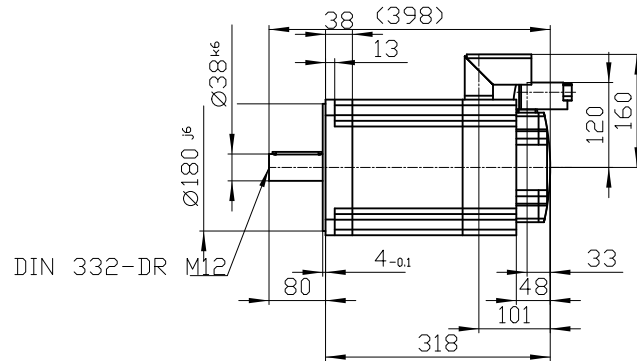
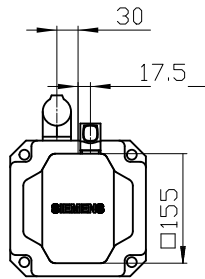
| Optimum operating point           |                        | Recommended Motor Module |          |
|-----------------------------------|------------------------|--------------------------|----------|
| Optimum speed                     | 3000 rpm               | Rated inverter current   | 30 A     |
| Optimum power                     | 8.2 kW                 | Maximum inverter current | 56 A     |
| Limiting data                     |                        | Maximum torque           | 87.00 Nm |
| Max. permissible speed (mech.)    | 5000 rpm               |                          |          |
| Max. permissible speed (inverter) | 5700 rpm               |                          |          |
| Maximum torque                    | 150.0 Nm               |                          |          |
| Maximum current                   | 109.0 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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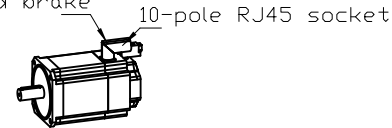
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Connector size 1.5 = M40;  
6-pole for power and brake



|            |         |                     |
|------------|---------|---------------------|
|            | -       |                     |
|            | -       |                     |
| Unit       | mm [in] | 1FK7105-5AF 71-1PB2 |
| Date       | 7/31/23 |                     |
| SIEMENS AG |         | -                   |
| -          |         | DT                  |