



MLFB-Ordering data1FK7064-7AH71-1PA5

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

Item no. :  
Consignment no. :  
Project :

| Engineering data            |                               | Mechanical data          |                                                                      |
|-----------------------------|-------------------------------|--------------------------|----------------------------------------------------------------------|
| Rated speed (100 K)         | 4500 rpm                      | Motor type               | Permanent-magnet synchronous motor                                   |
| Number of poles             | 6                             | Motor type               | High Dynamic                                                         |
| Rated torque (100 K)        | 5.0 Nm                        | Shaft height             | 63                                                                   |
| Rated current               | 7.0 A                         | Cooling                  | Natural cooling                                                      |
| Static torque (60 K)        | 9.00 Nm                       | Radial runout tolerance  | 0.040 mm                                                             |
| Static torque (100 K)       | 12.00 Nm                      | Concentricity tolerance  | 0.10 mm                                                              |
| Stall current (60 K)        | 12.00 A                       | Axial runout tolerance   | 0.10 mm                                                              |
| Stall current (100 K)       | 15.00 A                       | Vibration severity grade | Grade A                                                              |
| Moment of inertia           | 6.500 kgcm²                   | Connector size           | 1                                                                    |
| 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             | 0.77 Nm/A                     | Temperature monitoring   | KTY84 temperature sensor in the stator winding                       |
| Voltage constant at 20° C   | 51.0 V/1000*min <sup>-1</sup> | Electrical connectors    | Connectors for signals and power rotatable                           |
| Winding resistance at 20° C | 0.18 Ω                        | Color of the housing     | Standard (Anthracite RAL 7016)                                       |
| Rotating field inductance   | 5.6 mH                        | Holding brake            | without holding brake                                                |
| Electrical time constant    | 31.10 ms                      | Shaft end                | Feather key                                                          |
| Mechanical time constant    | 0.59 ms                       | Encoder system           | Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole) |
| Thermal time constant       | 55 min                        |                          |                                                                      |
| Shaft torsional stiffness   | 30000 Nm/rad                  |                          |                                                                      |
| Net weight of the motor     | 15.5 kg                       |                          |                                                                      |

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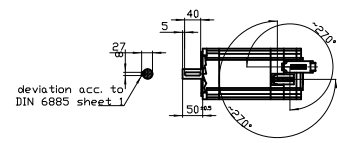
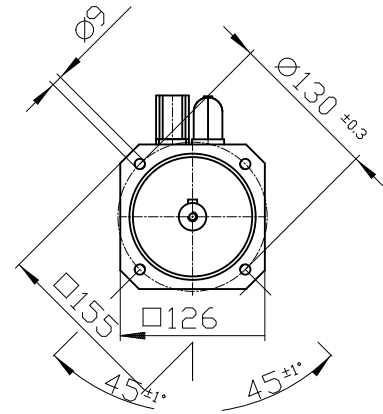
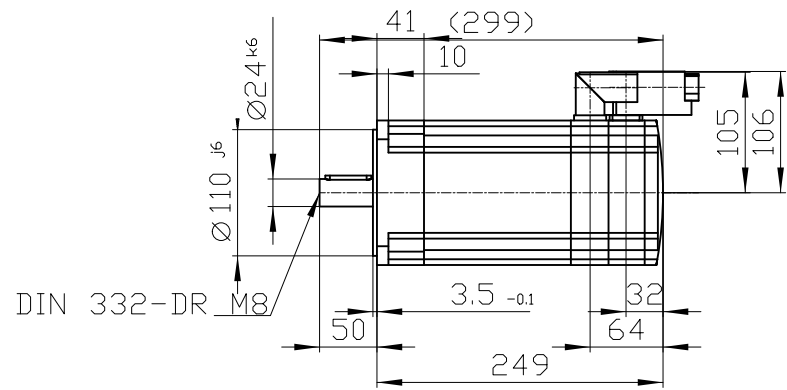
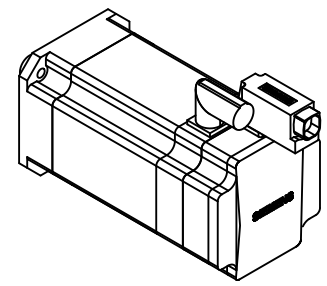
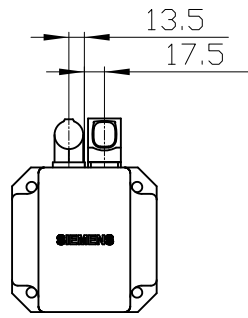
| Optimum operating point           |           | Recommended Motor Module |          |
|-----------------------------------|-----------|--------------------------|----------|
| Optimum speed                     | 3500 rpm  | Rated inverter current   | 18 A     |
| Optimum power                     | 2.8 kW    | Maximum inverter current | 36 A     |
| Limiting data                     |           | Maximum torque           | 28.20 Nm |
| Max. permissible speed (mech.)    | 6000 rpm  |                          |          |
| Max. permissible speed (inverter) | 11300 rpm |                          |          |
| Maximum torque                    | 32.0 Nm   |                          |          |
| Maximum current                   | 42.0 A    |                          |          |

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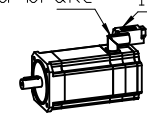
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Connector size 1 = M23;  
6-pole for power and brake 10-pole RJ45 socket



|            |         |                    |
|------------|---------|--------------------|
|            |         | -                  |
|            |         | -                  |
| Unit       | mm [in] | 1FK7064-7AH71-1PA5 |
| Date       | 6/19/23 |                    |
| SIEMENS AG |         | -                  |
| -          |         | DT                 |