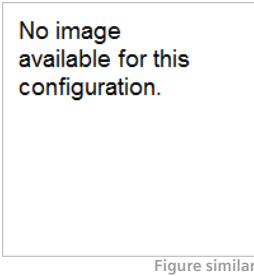


MLFB-Ordering data1FK7064-7AF71-1SA0



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

Item no. :  
Consignment no. :  
Project :

| Engineering data            |                               | Mechanical data          |                                                                                             |
|-----------------------------|-------------------------------|--------------------------|---------------------------------------------------------------------------------------------|
| Rated speed (100 K)         | 3000 rpm                      | Motor type               | Permanent-magnet synchronous motor                                                          |
| Number of poles             | 6                             | Motor type               | High Dynamic                                                                                |
| Rated torque (100 K)        | 8.0 Nm                        | Shaft height             | 63                                                                                          |
| Rated current               | 7.5 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)        | 8.50 A                        | Axial runout tolerance   | 0.10 mm                                                                                     |
| Stall current (100 K)       | 11.00 A                       | Vibration severity grade | Grade A                                                                                     |
| Moment of inertia           | 6.500 kgcm²                   | Connector size           | 1                                                                                           |
| Efficiency                  | 93.0 %                        | Degree of protection     | IP64                                                                                        |
| Physical constants          |                               | Design acc. to Code I    | IM B5 (IM V1, IM V3)                                                                        |
| Torque constant             | 1.03 Nm/A                     | Temperature monitoring   | KTY84 temperature sensor in the stator winding                                              |
| Voltage constant at 20° C   | 68.0 V/1000*min <sup>-1</sup> | Electrical connectors    | Connectors for signals and power rotatable                                                  |
| Winding resistance at 20° C | 0.35 Ω                        | Color of the housing     | without                                                                                     |
| Rotating field inductance   | 10.7 mH                       | Holding brake            | without holding brake                                                                       |
| Electrical time constant    | 30.50 ms                      | Shaft end                | Feather key                                                                                 |
| Mechanical time constant    | 0.64 ms                       | Encoder system           | Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor) |
| Thermal time constant       | 55 min                        |                          |                                                                                             |
| Shaft torsional stiffness   | 30000 Nm/rad                  |                          |                                                                                             |
| Net weight of the motor     | 15.5 kg                       |                          |                                                                                             |

MLFB-Ordering data                      1FK7064-7AF71-1SA0

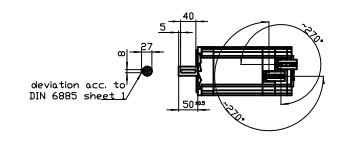
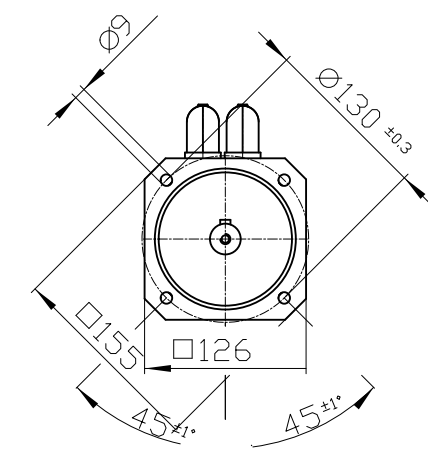
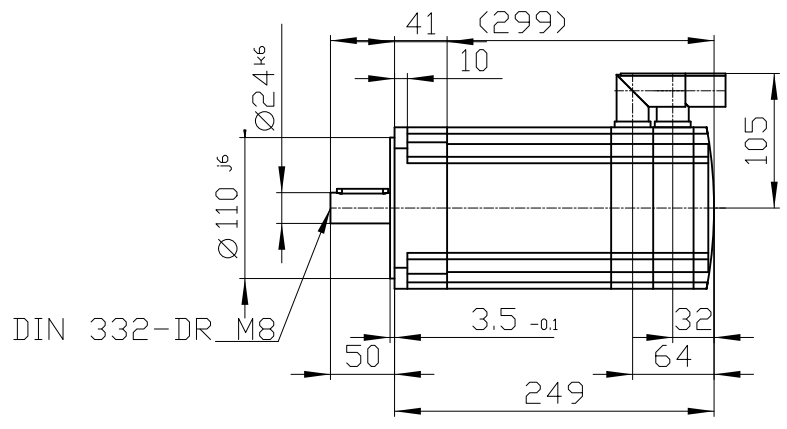
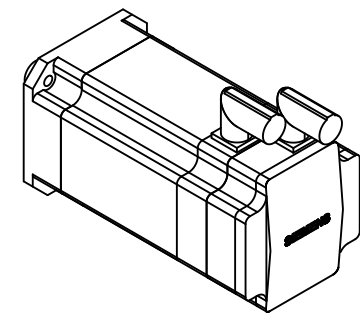
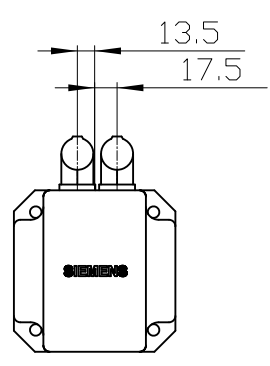
| Optimum operating point           |          | Recommended Motor Module |          |
|-----------------------------------|----------|--------------------------|----------|
| Optimum speed                     | 3000 rpm | Rated inverter current   | 18 A     |
| Optimum power                     | 2.5 kW   | Maximum inverter current | 36 A     |
| Limiting data                     |          | Maximum torque           | 32.00 Nm |
| Max. permissible speed (mech.)    | 6000 rpm |                          |          |
| Max. permissible speed (inverter) | 8500 rpm |                          |          |
| Maximum torque                    | 32.0 Nm  |                          |          |
| Maximum current                   | 31.0 A   |                          |          |

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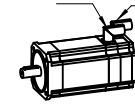
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Connector size 1 = M23;  
6-pole for power and brake

Connector size M23, 12-pole



|            |         |                    |  |
|------------|---------|--------------------|--|
|            |         |                    |  |
| Unit       | mm [in] | 1FK7064-7AF71-1SA0 |  |
| Date       | 2/15/23 |                    |  |
| SIEMENS AG |         |                    |  |
|            |         |                    |  |
|            |         | DT                 |  |