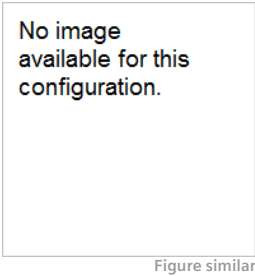


MLFB-Ordering data1FK7060-2AF74-1EG0



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             | 8                             | Motor type               | Compact                                                                                         |
| Rated torque (100 K)        | 4.7 Nm                        | Shaft height             | 63                                                                                              |
| Rated current               | 3.7 A                         | Cooling                  | Natural cooling                                                                                 |
| Static torque (60 K)        | 5.00 Nm                       | Radial runout tolerance  | 0.040 mm                                                                                        |
| Static torque (100 K)       | 6.0 Nm                        | Concentricity tolerance  | 0.10 mm                                                                                         |
| Stall current (60 K)        | 3.60 A                        | Axial runout tolerance   | 0.10 mm                                                                                         |
| Stall current (100 K)       | 4.45 A                        | Vibration severity grade | Grade A                                                                                         |
| Moment of inertia           | 7.700 kgcm²                   | Connector size           | 1                                                                                               |
| Efficiency                  | 90.0 %                        | Degree of protection     | IP64                                                                                            |
| Physical constants          |                               | Design acc. to Code I    | IM B5 (IM V1, IM V3)                                                                            |
| Torque constant             | 1.33 Nm/A                     | Temperature monitoring   | Pt1000 temperature sensor                                                                       |
| Voltage constant at 20° C   | 85.5 V/1000*min <sup>-1</sup> | Electrical connectors    | Connectors for signals and power rotatable                                                      |
| Winding resistance at 20° C | 1.35 Ω                        | Color of the housing     | Standard (Anthracite RAL 7016)                                                                  |
| Rotating field inductance   | 15.2 mH                       | Holding brake            | without holding brake                                                                           |
| Electrical time constant    | 11.30 ms                      | Shaft extension          | Plain shaft                                                                                     |
| Mechanical time constant    | 1.71 ms                       | Encoder system           | Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface |
| Thermal time constant       | 30 min                        |                          |                                                                                                 |
| Shaft torsional stiffness   | 40500 Nm/rad                  |                          |                                                                                                 |
| Net weight of the motor     | 7.1 kg                        |                          |                                                                                                 |

MLFB-Ordering data                    1FK7060-2AF74-1EG0

| Optimum operating point           |          | Recommended Motor Module |          |
|-----------------------------------|----------|--------------------------|----------|
| Optimum speed                     | 3000 rpm | Rated inverter current   | 5 A      |
| Optimum power                     | 1.5 kW   | Maximum inverter current | 15 A     |
| Limiting data                     |          | Maximum torque           | 18.00 Nm |
| Max. permissible speed (mech.)    | 7200 rpm |                          |          |
| Max. permissible speed (inverter) | 6700 rpm |                          |          |
| Maximum torque                    | 18.0 Nm  |                          |          |
| Maximum current                   | 15.0 A   |                          |          |