

# Guide axis ELFC-KF-80-800

Part number: 8062830

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Working stroke   | 800 mm   |
| Size   | 80   |
| Mounting position  | Any  |
| Guide  | Recirculating ball bearing guide                                   |
| Structural design  | Guide  |
| Symbol   | 00992984   |
| Position sensing   | For proximity sensor<br>For inductive proximity sensors            |
| Max. acceleration  | 15 m/s <sup>2</sup>  |
| Max. speed   | 1.5 m/s  |
| Duty cycle   | 100%   |
| Corrosion resistance class (CRC)   | 0 - No corrosion stress  |
| LABS (PWIS) conformity   | VDMA24364 zone III   |
| Suitability for the production of Li-ion batteries                         | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14                  | Class 7 according to ISO 14644-1                                   |
| Degree of protection   | IP40   |
| Ambient temperature  | 0 °C ... 50 °C   |
| 2nd moment of area Iy  | 1370000 mm <sup>4</sup>  |
| 2nd moment of area Iz  | 1660000 mm <sup>4</sup>  |
| Max. force Fy  | 5543 N   |
| Max. force Fz  | 5543 N   |
| Max. torque Mx   | 59.8 Nm  |
| Max. torque My   | 56.2 Nm  |
| Max. torque Mz   | 56.2 Nm  |
| Max. force Fy total axis   | 900 N  |
| Max. force Fz total axis   | 2700 N   |
| Max. moment Mx total axis  | 59.8 Nm  |
| Max. moment My total axis  | 56.2 Nm  |
| Max. moment Mz total axis  | 56.2 Nm  |
| Torsion moment of inertia It   | 90500 mm <sup>4</sup>  |
| Displacement force   | 15 N   |
| Reference service life   | 5000 km  |
| Maintenance interval   | Life-time lubrication  |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 20400 N  |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 20400 N  |

| <b>Feature</b>   | <b>Value</b>                         |
|--|--------------------------------------|
| Mx with theoretical service life of 100 km (from a guide perspective only) | 220 Nm                               |
| My with theoretical service life of 100 km (from a guide perspective only) | 207 Nm                               |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 207 Nm                               |
| Moving mass  | 815 g                                |
| Basic weight with 0 mm stroke  | 1905 g                               |
| Additional weight per 10 mm stroke   | 73 g                                 |
| Dynamic deflection (load moved)  | 0.05% of axis length, maximum 0.5 mm |
| Static deflection (load at standstill)                                     | 0.1 % of axis length                 |
| Material of end caps   | Die cast aluminum, painted           |
| Profile material   | Wrought aluminum alloy, anodized     |
| Note on materials  | RoHS-compliant                       |
| Cover strip material   | High-alloy stainless steel           |
| Slide carriage material  | Steel                                |
| Guide rail material  | Steel                                |
| Slide material   | Die-cast aluminum                    |