

# Guide axis ELFC-KF-45-400

Part number: 8062805

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Working stroke   | 400 mm   |
| Size   | 45   |
| Mounting position  | Any  |
| Guide  | Recirculating ball bearing   |
| Structural design  | Guide  |
| Symbol   | 00992984   |
| Position sensing   | Via proximity switch<br>For inductive 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  | 140000 mm <sup>4</sup>   |
| 2nd moment of area Iz  | 170000 mm <sup>4</sup>   |
| Max. force Fy  | 880 N  |
| Max. force Fz  | 880 N  |
| Max. torque Mx   | 5.5 Nm   |
| Max. torque My   | 4.7 Nm   |
| Max. torque Mz   | 4.7 Nm   |
| Max. force Fy total axis   | 300 N  |
| Max. force Fz total axis   | 600 N  |
| Max. moment Mx total axis  | 5.5 Nm   |
| Max. moment My total axis  | 4.7 Nm   |
| Max. moment Mz total axis  | 4.7 Nm   |
| Torsion moment of inertia It   | 8500 mm <sup>4</sup>   |
| Displacement force   | 4.5 N  |
| Reference service life   | 5000 km  |
| Maintenance interval   | Lifetime lubrication   |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 3240 N   |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 3240 N   |

| <b>Feature</b>   | <b>Value</b>                         |
|--|--------------------------------------|
| Mx with theoretical service life of 100 km (from a guide perspective only) | 20 Nm                                |
| My with theoretical service life of 100 km (from a guide perspective only) | 17 Nm                                |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 17 Nm                                |
| Moving mass  | 144 g                                |
| Basic weight with 0 mm stroke  | 384 g                                |
| Additional weight per 10 mm stroke   | 23 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                    |