

# Guide axis ELFC-KF-80-400

Part number: 8062827

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Working stroke  | 400 mm   |
| Size  | 80   |
| Mounting position   | optional   |
| Guide   | Recirculating ball bearing guide                                   |
| Design  | Guidance   |
| Symbol  | 00992984   |
| Position detection  | Via proximity switch<br>Via 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   | 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. moment Mx  | 59.8 Nm  |
| Max. moment My  | 56.2 Nm  |
| Max. moment 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  |
| Torsional mass moment of inertia It                               | 90500 mm <sup>4</sup>  |
| Displacement force  | 15 N   |
| Reference service life  | 5000 km  |
| Maintenance interval  | Life-time lubrication  |
| Fy at theoretical life value of 100 km (only guide consideration) | 20400 N  |
| Fz at theoretical life value of 100 km (only guide consideration) | 20400 N  |

| <b>Feature</b>  | <b>Value</b>                          |
|---|---------------------------------------|
| Mx at theoretical life value of 100 km (only guide consideration) | 220 Nm                                |
| My at theoretical life value of 100 km (only guide consideration) | 207 Nm                                |
| Mz at theoretical life value of 100 km (only guide consideration) | 207 Nm                                |
| Moving mass   | 815 g                                 |
| Basic weight for 0 mm stroke                                      | 1905 g                                |
| Additional weight per 10 mm stroke                                | 73 g                                  |
| Dynamic deflection (moving load)                                  | 0.05% of the axis length, max. 0.5 mm |
| Static deflection (load in standstill)                            | 0.1% of the axis length               |
| Material end cap  | Painted die cast aluminium            |
| Material profile  | Anodised wrought aluminium alloy      |
| Note on materials   | RoHS-compliant                        |
| Material cover tape   | High-alloy stainless steel            |
| Material guide slide  | Steel                                 |
| Material guide rail   | Steel                                 |
| Material slide  | Die-cast aluminium                    |