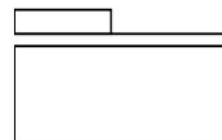


# Guide axis ELFC-KF-60-400

Part number: 8062815

FESTO



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Working stroke                                            | 400 mm                                                             |
| Size                                                      | 60                                                                 |
| Mounting position                                         | optional                                                           |
| Guide                                                     | Recirculating ball bearing guide                                   |
| Design                                                    | Guidance                                                           |
| 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                                     | 441000 mm <sup>4</sup>                                             |
| 2nd moment of area Iz                                     | 542000 mm <sup>4</sup>                                             |
| Max. force Fy                                             | 3641 N                                                             |
| Max. force Fz                                             | 3641 N                                                             |
| Max. moment Mx                                            | 29.1 Nm                                                            |
| Max. moment My                                            | 31.8 Nm                                                            |
| Max. moment Mz                                            | 31.8 Nm                                                            |
| Max. force Fy total axis                                  | 600 N                                                              |
| Max. force Fz total axis                                  | 1800 N                                                             |
| Max. moment Mx total axis                                 | 29.1 Nm                                                            |
| Max. moment My total axis                                 | 31.8 Nm                                                            |
| Max. moment Mz total axis                                 | 31.8 Nm                                                            |
| Torsional mass moment of inertia It                       | 29800 mm <sup>4</sup>                                              |
| Displacement force                                        | 6.75 N                                                             |
| Reference service life                                    | 5000 km                                                            |
| Maintenance interval                                      | Life-time lubrication                                              |

| Feature                                                           | Value                                 |
|-------------------------------------------------------------------|---------------------------------------|
| Fy at theoretical life value of 100 km (only guide consideration) | 13400 N                               |
| Fz at theoretical life value of 100 km (only guide consideration) | 13400 N                               |
| Mx at theoretical life value of 100 km (only guide consideration) | 107 Nm                                |
| My at theoretical life value of 100 km (only guide consideration) | 117 Nm                                |
| Mz at theoretical life value of 100 km (only guide consideration) | 117 Nm                                |
| Moving mass                                                       | 407 g                                 |
| Basic weight for 0 mm stroke                                      | 1029 g                                |
| Additional weight per 10 mm stroke                                | 43 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                    |