

# Guide axis ELFC-KF-32-100

Part number: 8062796

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                                                    | Value                                                              |
|----------------------------------------------------------------------------|--------------------------------------------------------------------|
| Working stroke                                                             | 100 mm                                                             |
| Size                                                                       | 32                                                                 |
| 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                                                      | 38000 mm <sup>4</sup>                                              |
| 2nd moment of area Iz                                                      | 45000 mm <sup>4</sup>                                              |
| Max. force Fy                                                              | 356 N                                                              |
| Max. force Fz                                                              | 356 N                                                              |
| Max. torque Mx                                                             | 1.3 Nm                                                             |
| Max. torque My                                                             | 1.1 Nm                                                             |
| Max. torque Mz                                                             | 1.1 Nm                                                             |
| Max. force Fy total axis                                                   | 150 N                                                              |
| Max. force Fz total axis                                                   | 300 N                                                              |
| Max. moment Mx total axis                                                  | 1.3 Nm                                                             |
| Max. moment My total axis                                                  | 1.1 Nm                                                             |
| Max. moment Mz total axis                                                  | 1.1 Nm                                                             |
| Torsion moment of inertia It                                               | 1770 mm <sup>4</sup>                                               |
| Displacement force                                                         | 2 N                                                                |
| Reference service life                                                     | 5000 km                                                            |
| Maintenance interval                                                       | Life-time lubrication                                              |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 1310 N                                                             |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 1310 N                                                             |

| <b>Feature</b>                                                             | <b>Value</b>                         |
|----------------------------------------------------------------------------|--------------------------------------|
| Mx with theoretical service life of 100 km (from a guide perspective only) | 5 Nm                                 |
| My with theoretical service life of 100 km (from a guide perspective only) | 4 Nm                                 |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 4 Nm                                 |
| Moving mass                                                                | 61 g                                 |
| Basic weight with 0 mm stroke                                              | 168 g                                |
| Additional weight per 10 mm stroke                                         | 11 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                    |