

Guide axis ELFC-KF-80-1200

Part number: 8062832

FESTO



Data sheet

| Feature | Value |
|--|--|
| Working stroke | 1200 mm |
| Size | 80 |
| Mounting position | optional |
| Guide | Recirculating ball bearing guide |
| Design | Guidance |
| Position detection | Via proximity switch Via inductive sensors |
| Max. acceleration | 15 m/s ² |
| 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 | Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | Class 7 according to ISO 14644-1 |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C...50 °C |
| 2nd moment of area I _y | 1370000 mm ⁴ |
| 2nd moment of area I _z | 1660000 mm ⁴ |
| Max. force F _y | 5543 N |
| Max. force F _z | 5543 N |
| Max. moment M _x | 59.8 Nm |
| Max. moment M _y | 56.2 Nm |
| Max. moment M _z | 56.2 Nm |
| Max. force F _y total axis | 900 N |
| Max. force F _z total axis | 2700 N |
| Max. moment M _x total axis | 59.8 Nm |
| Max. moment M _y total axis | 56.2 Nm |
| Max. moment M _z total axis | 56.2 Nm |
| Torsional mass moment of inertia I _t | 90500 mm ⁴ |

| Feature | Value |
|---|---------------------------------------|
| 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 |
| 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 |