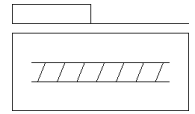
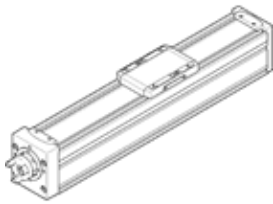


spindle axis ELGC-BS-KF-60-800-12P

Part number: 8061497

FESTO



Data sheet

| Feature | Value |
|--|--|
| Working stroke | 800 mm |
| Size | 60 |
| Stroke reserve | 0 mm |
| Reversing backlash | 0.15 mm |
| Spindle diameter | 12 mm |
| Spindle pitch | 12 mm/U |
| Assembly position | Any |
| Guide | Recirculating ball bearing guide |
| Design structure | Electromechanical linear axis with recirculating ball bearing spindle |
| Motor type | Stepper motor Servomotor |
| Spindle type | Ball screw |
| Position detection | For proximity sensor For inductive sensors |
| Max. acceleration | 15 m/s ² |
| Max. speed | 4,000 1/min 0.8 m/s |
| Repetition accuracy | ±0,01 mm |
| Duty cycle | 100 % |
| PWIS conformity | VDMA24364 zone III |
| RSBP classification to CD-0033 | F1a |
| Cleanroom class | ISO class 7 |
| Protection class | IP40 |
| Ambient temperature | 0 ... 50 °C |
| Impact energy in end positions | 1 mJ |
| Note on the impact energy in the end positions | At maximum homing speed of 0.01 m/s |
| Area moment of inertia 2nd degree Iy | 441E+03 mm ⁴ |
| Area moment of inertia 2nd degree Iz | 542E+03 mm ⁴ |
| No-load torque at maximum travel speed | 0.246 Nm |
| No-load torque at minimum travel speed | 0.042 Nm |
| Max. force Fy | 600 N |
| Max. force Fz | 1,800 N |
| Fy for the guide calculation for a service life of 5000 km or 5 million cycles | 3,641 N |
| Fz for the guide calculation for a service life of 5000 km or 5 million cycles | 3,641 N |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 13,400 N |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 13,400 N |
| Max. torque Mx | 29.1 Nm |
| Max. torque My | 31.8 Nm |
| Max. torque Mz | 31.8 Nm |
| Mx for the guide calculation for a service life of 5000 km or 5 million cycles | 29.1 Nm |
| My for the guide calculation for a service life of 5000 km or 5 million cycles | 31.8 Nm |
| Mz for the guide calculation for a service life of 5000 km or 5 million cycles | 31.8 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 107 Nm |
| My with theoretical service life of 100 km (from a guide perspective only) | 117 Nm |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 117 Nm |

| Feature | Value |
|--|---------------------------------------|
| Distance between the slide surface and the centre of the guide | 54.6 mm |
| Max. radial force at drive shaft | 230 N |
| Max. feed force Fx | 200 N |
| Torsional mass moment of inertia It | 29.8E+03 mm ⁴ |
| Mass moment of inertia JH per metre of stroke | 0.10779 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.036476 kgcm ² |
| Mass moment of inertia, JO | 0.02235 kgcm ² |
| Feed constant | 12 mm/U |
| Maintenance interval | Life-time lubrication |
| Moving mass | 525 g |
| Additional weight per 10 mm stroke | 51 g |
| Dynamic deflection (load moved) | 0.05% of the axis length, max. 0.5 mm |
| Static deflection (load at standstill) | 0.1% of the axis length |
| Interface code, actuator | T42 |
| Material of end caps | Die-cast aluminium, painted |
| Material of profile | Anodised wrought aluminium alloy |
| Materials note | Conforms to RoHS |
| Material cover tape | High alloy steel, non-corrosive |
| Material drive cover | Die-cast aluminium, painted |
| Material guide slide | Steel |
| Material guide rail | Steel |
| Material slide | Aluminium die cast |
| Material spindle nut | Steel |
| Material spindle | Steel |