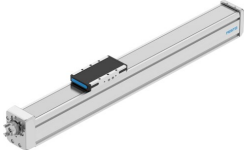


Ball screw axis ELGD-BS-KF-60-200-0H-10P

Part number: 8192261

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|---|
| Working stroke | 200 mm |
| Size | 60 |
| Stroke reserve | 0 mm |
| Ball screw reversing backlash | ±0.02 mm |
| Spindle diameter | 12 mm |
| Spindle pitch | 10 mm/U |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Design | Electromechanical linear axis With ball screw |
| Type of motor | Stepper motor Servo motor |
| Spindle type | Ball screw |
| Symbol | 00991211 |
| Functional principle of measuring system | Incremental |
| Position detection | For inductive sensors |
| Max. acceleration | 15 m/s ² |
| Max. rotational speed | 6667 rpm |
| Max. speed | 1.1 m/s |
| Repetition accuracy | ±0.01 mm |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364-C1-L |
| 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 4 according to ISO 14644-1 (with vacuum extraction) Class 7 according to ISO 14644-1 |
| Storage temperature | -20 °C ... 60 °C |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C ... 60 °C |
| Impact energy in end positions | 0.001 J |
| Note on the impact energy in the end positions | At maximum homing speed of 0.01 m/s |
| 2nd moment of area Iy | 508600 mm ⁴ |
| 2nd moment of area Iz | 685700 mm ⁴ |
| Idle torque at v _{max} | 0.14 Nm |
| Idle torque at v _{min} | 0.047 Nm |
| Max. force F _y | 2200 N |
| Max. force F _z | 2200 N |

| Feature | Value |
|---|---------------------------------------|
| Max. force Fy total axis | 930 N |
| Max. force Fz total axis | 1300 N |
| Fy at theoretical life value of 100 km (only guide consideration) | 9208 N |
| Fz at theoretical life value of 100 km (only guide consideration) | 9208 N |
| Max. moment Mx | 37 Nm |
| Max. moment My | 15 Nm |
| Max. moment Mz | 15 Nm |
| Max. moment Mx total axis | 31 Nm |
| Max. moment My total axis | 34 Nm |
| Max. moment Mz total axis | 26 Nm |
| Mx at theoretical life value of 100 km (only guide consideration) | 157 Nm |
| My at theoretical life value of 100 km (only guide consideration) | 60 Nm |
| Mz at theoretical life value of 100 km (only guide consideration) | 60 Nm |
| Distance between slide surface and guide centre | 60 mm |
| Max. radial force at drive shaft | 230 N |
| Max. feed force Fx | 1550 N |
| Torsional mass moment of inertia It | 52300 mm ⁴ |
| Mass moment of inertia JH per metre of stroke | 0.15716 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.02533 kgcm ² |
| Mass moment of inertia JO | 0.0635 kgcm ² |
| Feed constant | 10 mm/U |
| Reference service life | 5000 km |
| Maintenance interval | Lifetime lubrication |
| Moving mass | 535 g |
| Product weight | 2854 g |
| Basic weight for 0 mm stroke | 1774 g |
| Additional weight per 10 mm stroke | 54 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 |
| Interface code, actuator | T42 |
| Material end cap | Aluminium gravity die-cast, painted |
| Material profile | Anodised wrought aluminium alloy |
| Note on materials | RoHS compliant |
| Material cover tape | High-alloy stainless steel |
| Material drive cover | Aluminium gravity die-cast, painted |
| Material guide slide | Steel |
| Material guide rail | Steel |
| Material slide | Wrought aluminium alloy |
| Material ball screw nut | Steel |
| Material spindle | Steel |