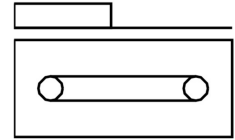
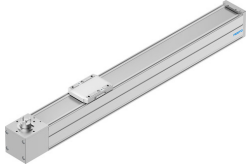


Belt driven linear actuator ELGC-TB-KF-80-500

Part number: 8062788

FESTO



Data sheet

| Feature | Value |
|---|---|
| Drive pinion effective diameter | 33.42 mm |
| Working stroke | 500 mm |
| Size | 80 |
| Stroke reserve | 0 mm |
| Toothed belt elongation | 0.2 % |
| Toothed belt pitch | 3 mm |
| Type code | ELGC |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Structural design | Electromechanical linear axis with toothed belt |
| Motor type | Stepper motor Servo motor |
| Symbol | 00991212 |
| Measuring principle of linear potentiometer | Incremental |
| Max. acceleration | 15 m/s ² |
| Max. speed | 1.5 m/s |
| Repetition accuracy | ±0.1 mm |
| Duty cycle | 100% |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C ... 50 °C |
| 2nd moment of area ly | 1370000 mm ⁴ |
| 2nd moment of area lz | 1660000 mm ⁴ |
| Max. driving torque | 4.178 Nm |
| Max. force Fy | 900 N |
| Max. force Fz | 2700 N |
| Max. no-load resistance to shifting | 24.7 N |
| Max. torque Mx | 59.8 Nm |
| Max. torque My | 56.2 Nm |
| Max. torque Mz | 56.2 Nm |
| Max. feed force Fx | 250 N |
| No-load driving torque | 0.413 Nm |
| Torsion moment of inertia It | 90500 mm ⁴ |
| Mass moment of inertia JH per meter of stroke | 0.1927 kgcm ² |
| Mass moment of inertia JL per kg of payload | 2.793 kgcm ² |
| Mass moment of inertia JO | 2.912 kgcm ² |

| Feature | Value |
|------------------------------------|--|
| Feed constant | 105 mm/U |
| Moving mass | 901 g |
| Moving mass at 0 mm stroke | 901 g |
| Slide weight | 272 g |
| Additional weight per 10 mm stroke | 73 g |
| Basic weight with 0 mm stroke | 3500 g |
| Product weight | 7142 g |
| Interface code, actuator | T46 |
| Material of end caps | Die cast aluminum, painted |
| Profile material | Wrought aluminum alloy, anodized |
| Note on materials | Contains paint-wetting impairment substances RoHS-compliant |
| Cover strip material | Stainless steel strip |
| Drive cover material | Die cast aluminum, painted |
| Slide carriage material | Tempered steel |
| Guide rail material | Tempered steel |
| Belt pulley material | High-alloy stainless steel |
| Slide material | Die-cast aluminum |
| Toothed belt material | Polychloroprene with glass fiber |