

Belt driven linear actuator ELGR-TB-35-100-0H

Part number: 8083770

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|---|--|
| Drive pinion effective diameter | 18.46 mm |
| Working stroke | 100 mm |
| Size | 35 |
| Toothed belt elongation | 0.094 % |
| Toothed belt pitch | 2 mm |
| Mounting position | Any |
| Guide | Recirculating ball bearing |
| Structural design | Electromechanical linear axis With toothed belt |
| Motor type | Stepper motor Servo motor |
| Symbol | 00991212 |
| Max. acceleration | 50 m/s ² |
| Max. speed | 0.9 m/s ... 3 m/s |
| Repetition accuracy | ±0.1 mm |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364 Zone III |
| Degree of protection | IP20 |
| Ambient temperature | -10 °C ... 50 °C |
| 2nd moment of area Iy | 3770 mm ⁴ |
| 2nd moment of area Iz | 4190 mm ⁴ |
| Max. driving torque | 0.46 Nm |
| Max. force Fy | 50 N |
| Max. force Fz | 50 N |
| Max. no-load resistance to shifting | 10.8 N |
| Max. feed force Fx | 50 N |
| No-load driving torque | 0.1 Nm |
| Mass moment of inertia JH per meter of stroke | 0.026 kgcm ² |
| Mass moment of inertia JL per kg of payload | 0.85 kgcm ² |
| Feed constant | 58 mm/U |
| Reference service life | 5000 km |
| Additional moving mass per 10 mm stroke | 0.31 g |
| Product weight | 1720 g |
| Additional weight per 10 mm stroke | 25 g |
| Profile material | Wrought aluminum alloy Anodized |

| Feature | Value |
|--|---|
| Note on materials | RoHS compliant |
| Drive cover material | Wrought aluminum alloy Anodized |
| Belt pulley material | high-alloy stainless steel |
| Slide material | Wrought aluminum alloy Anodized |
| Toothed belt clamping component material | Beryllium copper |
| Toothed belt material | Polychloroprene with glass cord and nylon coating |