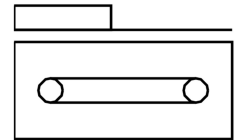
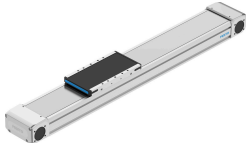


Toothed belt axis ELGD-TB-KF-WD-100-200-0H-L-PU2

Part number: 8192374

FESTO



Data sheet

| Feature | Value |
|--|---|
| Drive pinion effective diameter | 26.74 mm |
| Working stroke | 200 mm |
| Size | 100 |
| Stroke reserve | 0 mm |
| Toothed belt pitch | 3 mm |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Structural design | Electromechanical linear axis with toothed belt |
| Motor type | Stepper motor Servo motor |
| Measuring principle of linear potentiometer | Incremental |
| Position sensing | For inductive proximity sensors |
| Max. acceleration | 50 m/s ² |
| Max. speed | 3 m/s |
| Repetition accuracy | ±0.1 mm |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Degree of protection | IP30 |
| Ambient temperature | 0 °C...60 °C |
| Impact energy in the end positions | 0,75 mJ |
| Note on the impact energy in the end positions | At maximum speed of the reference run of 0.01 m/s |
| 2nd moment of area Iy | 347100 mm ⁴ |
| 2nd moment of area Iz | 2268000 mm ⁴ |
| Max. driving torque | 3.2 Nm |
| Max. force Fy | 4376 N |
| Max. force Fz | 4286 N |
| Max. force Fy total axis | 3236 N |
| Max. force Fz total axis | 2250 N |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 18415 N |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 18415 N |
| Max. no-load resistance to shifting | 29.9 N |

| Feature | Value |
|--|--------------------------------------|
| Max. torque Mx | 130 Nm |
| Max. torque My | 200 Nm |
| Max. torque Mz | 200 Nm |
| Max. moment Mx total axis | 168 Nm |
| Max. moment My total axis | 200 Nm |
| Max. moment Mz total axis | 200 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 645 Nm |
| My with theoretical service life of 100 km (from a guide perspective only) | 720 Nm |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 720 Nm |
| Distance between slide surface and guide center | 47 mm |
| Max. feed force Fx | 240 N |
| Torsion moment of inertia It | 108900 mm ⁴ |
| Mass moment of inertia JH per meter of stroke | 0.2252 kgcm ² |
| Mass moment of inertia JL per kg of payload | 1.7876 kgcm ² |
| Mass moment of inertia JO | 2.9542 kgcm ² |
| Feed constant | 84 mm/U |
| Reference service life | 5000 km |
| Maintenance interval | Life-time lubrication |
| Moving mass | 1360 g |
| Product weight | 3864 g |
| Basic weight with 0 mm stroke | 3864 g |
| Additional weight per 10 mm stroke | 55 g |
| Dynamic deflection (load moved) | 0.05% of axis length, maximum 0.5 mm |
| Static deflection (load at standstill) | 0.1 % of axis length |
| Interface code, actuator | L38 |
| Material of end caps | Aluminum gravity die-cast, painted |
| Profile material | Wrought aluminum alloy, anodized |
| Note on materials | RoHS-compliant |
| Cover strip material | High-alloy stainless steel |
| Drive cover material | Aluminum gravity die-cast, painted |
| Slide carriage material | Steel |
| Guide rail material | Steel |
| Belt pulley material | High-alloy stainless steel |
| Slide material | Wrought aluminum alloy |
| Toothed belt material | Polyurethane with steel cord |