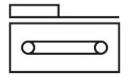
Belt driven linear actuator EGC-80-400-TB-KF-0H-GK

FESTO

Part number: 575832





General operating condition

Data sheet

| Feature | Value |
|--|----------------------------------|
| Drive pinion effective diameter | 28.65 mm |
| Working stroke | 400 mm |
| Size | 80 |
| Stroke reserve | 0 mm |
| Toothed belt pitch | 3 mm |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Structural design | with toothed belt |
| Motor type | Stepper motor Servo motor |
| Symbol | 00991212 |
| Max. acceleration | 50 m/s ² |
| Max. speed | 5 m/s |
| Repetition accuracy | ±0.08 mm |
| Duty cycle | 100% |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Degree of protection | IP40 |
| Ambient temperature | -10 °C 60 °C |
| 2nd moment of area ly | 844000 mm⁴ |
| 2nd moment of area lz | 1160000 mm⁴ |
| Max. force Fy | 3050 N |
| Max. force Fz | 3050 N |
| Max. force Fy total axis | 3050 N |
| Max. force Fz total axis | 3050 N |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 11236 N |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 11236 N |
| Max. no-load resistance to shifting | 28 N |
| Max. torque Mx | 36 Nm |
| Max. torque My | 97 Nm |
| Max. torque Mz | 97 Nm |
| Max. moment Mx total axis | 36 Nm |
| Max. moment My total axis | 97 Nm |
| Max. moment Mz total axis | 97 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only) | 133 Nm |

| Feature | Value |
|--|---|
| My with theoretical service life of 100 km (from a guide perspective only) | 357 Nm |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 357 Nm |
| Max. feed force Fx | 350 N |
| Torsion moment of inertia It | 551000 mm⁴ |
| Mass moment of inertia JH per meter of stroke | 0.19 kgcm² |
| Mass moment of inertia JL per kg of payload | 2.05 kgcm ² |
| Feed constant | 90 mm/U |
| Reference service life | 5000 km |
| Material of end caps | Wrought aluminum alloy Anodized |
| Profile material | Wrought aluminum alloy Anodized |
| Note on materials | RoHS-compliant |
| Drive cover material | Wrought aluminum alloy Anodized |
| Slide carriage material | Steel |
| Guide rail material | Steel |
| Belt pulley material | High-alloy stainless steel |
| Slide material | Wrought aluminum alloy Anodized |
| Toothed belt clamping component material | Cast stainless steel |
| Toothed belt material | Polychloroprene or nitrile rubber (NBR) with glass cord and nylon coating |