

Toothed belt axis EGC-80-1200-TB-KF-0H-GK

Part number: 3013359

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|---|--|
| Effective diameter of drive pinion | 28.65 mm |
| Working stroke | 1200 mm |
| Size | 80 |
| Stroke reserve | 0 mm |
| Toothed-belt pitch | 3 mm |
| Mounting position | optional |
| Guide | Recirculating ball bearing guide |
| Design | Electromechanical linear axis With toothed belt |
| Type of motor | 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 Iy | 844000 mm ⁴ |
| 2nd moment of area Iz | 1160000 mm ⁴ |
| 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 at theoretical life value of 100 km (only guide consideration) | 11236 N |
| Fz at theoretical life value of 100 km (only guide consideration) | 11236 N |
| Max. idle running transfer resistance | 28 N |
| Max. moment Mx | 36 Nm |
| Max. moment My | 97 Nm |
| Max. moment 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 at theoretical life value of 100 km (only guide consideration) | 133 Nm |
| My at theoretical life value of 100 km (only guide consideration) | 357 Nm |

| Feature | Value |
|---|---|
| Mz at theoretical life value of 100 km (only guide consideration) | 357 Nm |
| Max. feed force Fx | 350 N |
| Torsional mass moment of inertia It | 551000 mm ⁴ |
| Mass moment of inertia JH per metre of stroke | 0.19 kgcm ² |
| Mass moment of inertia JL per kg of working load | 2.05 kgcm ² |
| Feed constant | 90 mm/U |
| Reference service life | 5000 km |
| Material end cap | Wrought aluminium alloy Anodised |
| Material profile | Wrought aluminium alloy Anodised |
| Note on materials | RoHS-compliant |
| Material drive cover | Wrought aluminium alloy Anodised |
| Material guide slide | Steel |
| Material guide rail | Steel |
| Material pulleys | High-alloy stainless steel |
| Material slide | Wrought aluminium alloy Anodised |
| Material toothed belt clamping piece | Stainless steel casting |
| Material toothed belt | Polychloroprene or nitrile rubber (NBR) with glass cord and nylon coating |