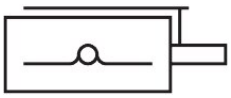
# Cantilever linear actuator
# ELCC-TB-KF-110-1000-0H-P0-CR

Part number: 8082414





## Data sheet

| Feature | Value |
|---|---|
| Drive pinion effective diameter | 68.755 mm |
| Working stroke | 1000 mm |
| Size | 110 |
| Stroke reserve | 0 mm |
| Toothed belt pitch | 8 mm |
| Mounting position | Any |
| Guide | Recirculating ball bearing |
| Structural design | Electromechanical cantilever axis |
| Max. acceleration | 30 m/s² |
| Max. speed | 5 m/s |
| Repetition accuracy | ±0.05 mm |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364 Zone III |
| Degree of protection | IP20 |
| Ambient temperature | -10 °C...60 °C |
| 2nd moment of area Iy | 6830570 mm⁴ |
| 2nd moment of area Iz | 4925970 mm⁴ |
| Max. driving torque | 90 Nm |
| Max. force Fy | 20596 N |
| Max. force Fz | 20022 N |
| Max. torque Mx | 317 Nm |
| Max. torque My | 2368 Nm |
| Max. torque Mz | 2286 Nm |
| Max. feed force Fx | 2500 N |
| Mass moment of inertia JH per meter of stroke | 174.9 kgcm² |
| Mass moment of inertia JL per kg of payload | 11.8 kgcm² |
| Mass moment of inertia JO | 157.1 kgcm² |
| Feed constant | 216 mm/U |
| Reference service life | 5000 km |
| Lubrication interval, distance dependent | 1000 km |
| Moving mass at 0 mm stroke | 10017 g |

| Feature | Value |
|---|---|
| Additional moving mass per 10 mm stroke | 148 g |
| Basic weight with 0 mm stroke | 27299 g |
| Additional weight per 10 mm stroke | 148 g |
| Material of end caps | Wrought aluminum alloy, anodized |
| Profile material | Wrought aluminum alloy, anodized |
| Note on materials | RoHS compliant |
| Drive head material | Wrought aluminum alloy, anodized |
| Guide rail material | Rolled steel, Corrotect coated |
| Housing material | high-alloy stainless steel |
| Slide material | Anodized cast aluminum |
| Toothed belt clamping component material | Wrought aluminum alloy, anodized |
| Toothed belt material | Polychloroprene with glass cord and nylon coating |