

# Cantilever linear actuator ELCC-TB-KF-110-600-0H-P0-CR

Part number: 8082412

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                                   | Value                             |
|-----------------------------------------------------------|-----------------------------------|
| Drive pinion effective diameter                           | 68.755 mm                         |
| Working stroke                                            | 600 mm                            |
| Size                                                      | 110                               |
| Stroke reserve                                            | 0 mm                              |
| Toothed belt pitch                                        | 8 mm                              |
| Mounting position                                         | Any                               |
| Guide                                                     | Recirculating ball bearing guide  |
| Structural design                                         | Electromechanical cantilever axis |
| Symbol                                                    | 00991210                          |
| Max. acceleration                                         | 30 m/s <sup>2</sup>               |
| 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 I <sub>y</sub>                         | 6830570 mm <sup>4</sup>           |
| 2nd moment of area I <sub>z</sub>                         | 4925970 mm <sup>4</sup>           |
| Max. driving torque                                       | 90 Nm                             |
| Max. force F <sub>y</sub>                                 | 20596 N                           |
| Max. force F <sub>z</sub>                                 | 20022 N                           |
| Max. torque M <sub>x</sub>                                | 317 Nm                            |
| Max. torque M <sub>y</sub>                                | 2368 Nm                           |
| Max. torque M <sub>z</sub>                                | 2286 Nm                           |
| Max. feed force F <sub>x</sub>                            | 2500 N                            |
| Mass moment of inertia J <sub>H</sub> per meter of stroke | 174.9 kgcm <sup>2</sup>           |
| Mass moment of inertia J <sub>L</sub> per kg of payload   | 11.8 kgcm <sup>2</sup>            |
| Mass moment of inertia J <sub>O</sub>                     | 157.1 kgcm <sup>2</sup>           |
| Feed constant                                             | 216 mm/U                          |
| Reference service life                                    | 5000 km                           |
| Lubrication interval, distance dependent                  | 1000 km                           |
| Moving mass at 0 mm stroke                                | 10017 g                           |
| 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  |

| Feature                                  | Value                                             |
|------------------------------------------|---------------------------------------------------|
| 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                           | Cast aluminum, anodized                           |
| Toothed belt clamping component material | Wrought aluminum alloy, anodized                  |
| Toothed belt material                    | Polychloroprene with glass cord and nylon coating |