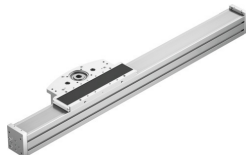


# Cantilever linear actuator ELCC-TB-KF-90-300-0H-P0-CR

Part number: 8082400

**FESTO**



## Data sheet

| Feature                                       | Value                             |
|-----------------------------------------------|-----------------------------------|
| Drive pinion effective diameter               | 50.93 mm                          |
| Working stroke                                | 300 mm                            |
| Size                                          | 90                                |
| Stroke reserve                                | 0 mm                              |
| Toothed belt pitch                            | 5 mm                              |
| Mounting position                             | Any                               |
| Guide                                         | Recirculating ball bearing guide  |
| Structural design                             | Electromechanical cantilever axis |
| 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 Iy                         | 2667900 mm <sup>4</sup>           |
| 2nd moment of area Iz                         | 2049490 mm <sup>4</sup>           |
| Max. driving torque                           | 33 Nm                             |
| Max. force Fy                                 | 13957 N                           |
| Max. force Fz                                 | 13523 N                           |
| Max. torque Mx                                | 167 Nm                            |
| Max. torque My                                | 1300 Nm                           |
| Max. torque Mz                                | 1233 Nm                           |
| Max. feed force Fx                            | 1200 N                            |
| Mass moment of inertia JH per meter of stroke | 62.9 kgcm <sup>2</sup>            |
| Mass moment of inertia JL per kg of payload   | 6.5 kgcm <sup>2</sup>             |
| Mass moment of inertia JO                     | 55.2 kgcm <sup>2</sup>            |
| Feed constant                                 | 160 mm/U                          |
| Reference service life                        | 5000 km                           |
| Lubrication interval, distance dependent      | 1000 km                           |
| Moving mass at 0 mm stroke                    | 5487 g                            |

| Feature                                  | Value                                             |
|------------------------------------------|---------------------------------------------------|
| Additional moving mass per 10 mm stroke  | 97 g                                              |
| Basic weight with 0 mm stroke            | 14787 g                                           |
| Additional weight per 10 mm stroke       | 97 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                           | Cast aluminum, anodized                           |
| Toothed belt clamping component material | Wrought aluminum alloy, anodized                  |
| Toothed belt material                    | Polychloroprene with glass cord and nylon coating |