

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

Part number: 8082400

**FESTO**



## Data sheet

| Feature                                              | Value                             |
|------------------------------------------------------|-----------------------------------|
| Effective diameter of drive pinion                   | 50.93 mm                          |
| Working stroke                                       | 300 mm                            |
| Size                                                 | 90                                |
| Stroke reserve                                       | 0 mm                              |
| Toothed-belt pitch                                   | 5 mm                              |
| Mounting position                                    | optional                          |
| Guide                                                | Recirculating ball bearing guide  |
| 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. drive torque                                    | 33 Nm                             |
| Max. force Fy                                        | 13957 N                           |
| Max. force Fz                                        | 13523 N                           |
| Max. moment Mx                                       | 167 Nm                            |
| Max. moment My                                       | 1300 Nm                           |
| Max. moment Mz                                       | 1233 Nm                           |
| Max. feed force Fx                                   | 1200 N                            |
| Mass moment of inertia JH per metre of stroke        | 62.9 kgcm <sup>2</sup>            |
| Mass moment of inertia JL per kg of working load     | 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 dependent on operating distance | 1000 km                           |
| Moving mass for 0 mm stroke                          | 5487 g                            |

| Feature                                 | Value                                                 |
|-----------------------------------------|-------------------------------------------------------|
| Additional moving mass per 10 mm stroke | 97 g                                                  |
| Basic weight for 0 mm stroke            | 14787 g                                               |
| Additional weight per 10 mm stroke      | 97 g                                                  |
| Material end cap                        | Anodised wrought aluminium alloy                      |
| Material profile                        | Anodised wrought aluminium alloy                      |
| Note on materials                       | RoHS-compliant                                        |
| Material drive head                     | Anodised wrought aluminium alloy                      |
| Material guide rail                     | Rolled steel, Corrotect coated                        |
| Material housing                        | High-alloy stainless steel                            |
| Material slide                          | Anodised die-cast aluminium                           |
| Material toothed belt clamping piece    | Anodised wrought aluminium alloy                      |
| Material toothed belt                   | Polychloroprene with glass filament and nylon coating |