

# Cantilever axis ELCC-TB-KF-90-800-0H-P0-CR

Part number: 8082403

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value                             |
|--|-----------------------------------|
| Effective diameter of drive pinion                   | 50.93 mm                          |
| Working stroke                                       | 800 mm                            |
| Size   | 90                                |
| Stroke reserve                                       | 0 mm                              |
| Toothed-belt pitch                                   | 5 mm                              |
| Mounting position                                    | Any                               |
| Guide  | Recirculating ball bearing guide  |
| 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 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                            |
| 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  |

| <b>Feature</b>                       | <b>Value</b>  |
|--------------------------------------|---|
| 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 cast aluminium                               |
| Material toothed belt clamping piece | Anodised wrought aluminium alloy                      |
| Material toothed belt                | Polychloroprene with glass filament and nylon coating |