

# Cantilever axis

## ELCC-TB-KF-110-1700-0H-P0-CR

Part number: 8082417

FESTO



## Data sheet

| Feature                                              | Value                             |
|------------------------------------------------------|-----------------------------------|
| Effective diameter of drive pinion                   | 68.755 mm                         |
| Working stroke                                       | 1700 mm                           |
| Size                                                 | 110                               |
| Stroke reserve                                       | 0 mm                              |
| Toothed-belt pitch                                   | 8 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                                | 6830570 mm <sup>4</sup>           |
| 2nd moment of area Iz                                | 4925970 mm <sup>4</sup>           |
| Max. drive torque                                    | 90 Nm                             |
| Max. force Fy                                        | 20596 N                           |
| Max. force Fz                                        | 20022 N                           |
| Max. moment Mx                                       | 317 Nm                            |
| Max. moment My                                       | 2368 Nm                           |
| Max. moment Mz                                       | 2286 Nm                           |
| Max. feed force Fx                                   | 2500 N                            |
| Mass moment of inertia JH per metre of stroke        | 174.9 kgcm <sup>2</sup>           |
| Mass moment of inertia JL per kg of working load     | 11.8 kgcm <sup>2</sup>            |
| Mass moment of inertia JO                            | 157.1 kgcm <sup>2</sup>           |
| Feed constant                                        | 216 mm/U                          |
| Reference service life                               | 5000 km                           |
| Lubrication interval dependent on operating distance | 1000 km                           |
| Moving mass for 0 mm stroke                          | 10017 g                           |

| Feature                                 | Value                                                 |
|-----------------------------------------|-------------------------------------------------------|
| Additional moving mass per 10 mm stroke | 148 g                                                 |
| Basic weight for 0 mm stroke            | 27299 g                                               |
| Additional weight per 10 mm stroke      | 148 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 |