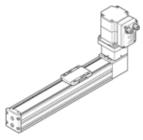
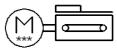
toothed belt axis unit ELGS-TB-KF-60-200-ST-M-H1-PLK-AA Part number: 8083570

FESTO



Data sheet

| Feature | Value |
|---|---|
| Effective diameter of drive pinion | 24.83 mm |
| Working stroke | 200 mm |
| Size | 60 |
| Stroke reserve | 0 mm |
| Toothed-belt stretch | 0.124 % |
| Toothed-belt pitch | 3 mm |
| Assembly position | Horizontal |
| Guide | Recirculating ball bearing guide |
| Design structure | Electromechanical linear axis |
| | With toothed belt |
| | with integrated drive |
| Motor type | Stepper motor |
| Position detection | Motor encoder |
| | For proximity sensor |
| Referencing | Fixed stop block positive |
| | Fixed stop block negative |
| Rotor position sensor | Absolute single turn encoder |
| Rotary position encoder measuring principle | Magnetic |
| Temperature monitoring | Shutdown at over-temperature |
| | Integrated precise CMOS temperature sensor with analogue output |
| Additional functions | User interface |
| | Integrated end-position sensing |
| Display | LED |
| Ready status display | LED |
| Max. acceleration | 6 m/s2 |
| Max. speed | 1.04 m/s |
| Repetition accuracy | ±0,1 mm |
| Digital logic output characteristics | configurable |
| | Not electrically isolated |
| Duty cycle | 100 % |
| Insulation protection class | В |
| Max. current, digital logic outputs | 100 mA |
| Max. current consumption | 5.3 A |
| Nominal voltage DC | 24 V |
| Nominal current | 5.3 A |
| Parameters configuring interface | IO-Link |
| | User interface |
| Rotor position encoder resolution | 16 Bit |
| Permissible voltage fluctuation | +/- 15 % |
| Power supply, type of connection | Plug |
| Power supply, connection technology | M12x1, T-coded as per EN 61076-2-111 |
| Power supply, number of pins/wires | 4 |
| Authorization | RCM Mark |
| KC mark | KC-EMV |
| CE symbol (see declaration of conformity) | according to EU-EMV guideline |
| | in accordance with EU RoHS directive |



FESTO

| Feature | Value |
|--|--|
| UKCA marking (see declaration of conformity) | To UK instructions for EMC |
| | To UK RoHS instructions |
| Vibration resistance | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27 |
| PWIS conformity | VDMA24364 zone III |
| Storage temperature | -20 60 °C |
| Relative air humidity | 0 - 90 % |
| Protection class | IP40 |
| Safety class | |
| Ambient temperature | 0 50 °C |
| Note on ambient temperature | Above an ambient temperature of 30 $^{\circ}\text{C}$, the power must be reduced by 2% per K. |
| Area moment of inertia 2nd degree ly | 441E+03 mm4 |
| Area moment of inertia 2nd degree Iz | 542E+03 mm4 |
| Max. force Fy | 600 N |
| Max. force Fz | 1,800 N |
| Max. torque Mx | 29.1 Nm |
| Max. torque My Max. torque Mz | 31.8 Nm 31.8 Nm |
| Max. torque Mz Max. feed force Fx | 65 N |
| Reference value for working load, horizontal | 4 kg |
| Torsional mass moment of inertia It | 29.8E+03 mm4 |
| Feed constant | 78 mm/U |
| Moving mass | 482 g |
| Moving mass with 0 mm stroke | 482 g |
| Slide weight | 139 g |
| Product weight | 3,815 g |
| Number of 24 V DC digital logic outputs | 2 |
| Number of digital logic inputs | 2 |
| Specification, logic input | Based on IEC 61131-2, type 1 |
| Logic input working range | 24 V |
| IO-Link, SIO mode support | Yes |
| Logic input characteristics | configurable |
| | Not electrically isolated |
| IO-Link, protocol IO-Link, communication mode | Device V 1.1 |
| IO-Link, communication mode | COM3 (230.4 kbd) |
| IO-Link, number of ports | 1 |
| IO-Link, process data width OUT | 2 Byte |
| IO-Link, process data wheth OOT | 1 bit (Move in) |
| | 1 bit (Move out) |
| | 1 bit (Quit Error) |
| IO-Link, process data width IN | 2 Byte |
| IO-Link, process data content IN | 1 bit (State Device) |
| | 1 bit (State Move) |
| | 1 bit (State in) |
| | 1 bit (State out) |
| IO-Link, Service data contents IN | 32 bit Force |
| | 32 bit Position |
| | 32 bit Speed |
| IO-Link, minimum cycle time | 1 ms |
| IO-Link, data memory required | 0.5 Kilobyte |
| Max. line length | 15 m outputs |
| | 15 m inputs |
| Switching logic outputs | 20 m with IO-Link operation |
| Switching logic, outputs Input circuit logic | PNP (positive-switching) PNP (positive-switching) |
| IO-Link, connection technology | Plug |
| Logic interface, connection type | Plug |
| | 11.005 |

FESTO

| Feature | Value |
|--|--|
| Logic interface, connection technology | M12x1, A-coded in accordance with EN 61076-2-101 |
| Logic interface, number of poles/wires | 8 |
| Logic interface, connection pattern | 00992264 |
| Material of end caps | Die-cast aluminium, painted |
| Material of profile | Anodised wrought aluminium alloy |
| Materials note | Conforms to RoHS |
| Material cover tape | Stainless steel strip |
| Material drive cover | Die-cast aluminium, painted |
| Material guide slide | Heat-treatment steel |
| Material guide rail | Heat-treatment steel |
| Material pulleys | High alloy steel, non-corrosive |
| Material slide | Aluminum die cast |
| Material toothed belt | Polychloroprene with glass fibers |