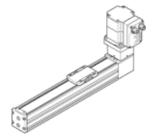
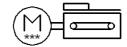
## toothed belt axis unit ELGS-TB-KF-60-500-ST-M-H1-PLK-AA Part number: 8083572







## **Data sheet**

| Feature   | Value   |
|---|---|
| Effective diameter of drive pinion                                      | 24.83 mm  |
| Working stroke  | 500 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                                    |
| Temperature monitoring  | 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  | 1.3 m/s   |
| Repetition accuracy   | ±0,1 mm   |
| Digital logic output characteristics                                    | configurable  |
| Digital logic output characteristics                                    | 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   |
| arameters comigaring interface  | 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 to EN 61076-2-111                                |
| Power supply, connection technology  Power supply, number of pins/wires |   |
| Authorisation   | 4 RCM Mark  |
|   | KC-EMV  |
| KC mark CE mark (see declaration of conformity)                         | to EU directive for EMC   |
|   |   |
|   | in accordance with EU RoHS directive                            |



| To UK instructions for EMC   |
|--|
|  |
| To UK RoHS instructions  |
| Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27    |
| VDMA24364 zone III   |
| -20 60 °C  |
| 0 - 90 %   |
| IP40   |
| III  |
| 0 50 °C  |
| Above an ambient temperature of 30 °C, the power must be reduced by 2% per K.        |
| 441E+03 mm4  |
| 542E+03 mm4  |
| 600 N  |
| 1,800 N  |
| 29.1 Nm  |
| 31.8 Nm  |
| 31.8 Nm  |
| 65 N   |
| 4 kg   |
| 29.8E+03 mm4   |
| 78 mm/U  |
| 482 g  |
| 482 g  |
| 139 g  |
| 5,105 g  |
| 2  |
| 2  |
| Based on IEC 61131-2, type 1   |
| 24 V   |
| Yes  |
| configurable   |
| Not electrically isolated  |
| Device V 1.1   |
| COM3 (230.4 kbd)   |
| A  |
| 1  |
| 2 Byte   |
| 1 bit (Move in)  |
| 1 bit (Move out)   |
| 1 bit (Quit Error)   |
| 2 Byte   |
| 1 bit (State Device)   |
| 1 bit (State Move)   |
| 1 bit (State in)   |
| 1 bit (State out)  |
| 32 bit Force   |
| 32 bit Position  |
| 32 bit Speed   |
| 1 ms   |
| 0.5 Kilobyte   |
| 15 m outputs   |
| 15 m inputs  |
| 1 ap in inpute   |
|  |
| 20 m with IO-Link operation  |
| 20 m with IO-Link operation PNP (positive-switching)                                 |
| 20 m with IO-Link operation  |
|  |



| 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                         | Aluminium die cast                               |
| Material toothed belt                  | Polychloroprene with glass fibres                |