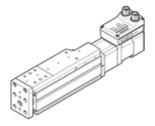
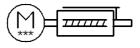
mini slide unit EGSS-BS-KF-60-150-12P-ST-M-H1-PLK-AA Part number: 8083720

FESTO





Data sheet

| Feature | Value | |
|---|----------------------------------|--|
| Working stroke | 150 mm | |
| Size | 60 | |
| Stroke reserve | 0 mm | |
| Reversing backlash | 150 μm | |
| Spindle diameter | 12 mm | |
| Spindle pitch | 12 mm/U | |
| Assembly position | Any | |
| Guide | Recirculating ball bearing guide | |
| Design structure | Electric mini slide | |
| | With ball screw | |
| | With integrated drive | |
| Motor type | Stepper motor | |
| Referencing | Fixed stop block positive | |
| | Fixed stop block negative | |
| Spindle type | Ball screw | |
| Position detection | Motor encoder | |
| | For proximity sensor | |
| Rotor position sensor | Absolute single turn encoder | |
| Rotary position encoder measuring principle | Magnetic | |
| Protective function | Temperature monitoring | |
| Additional functions | User interface | |
| | Integrated end-position sensing | |
| Display | LED | |
| Ready status display | LED | |
| Max. acceleration | 5 m/s2 | |
| Max. speed | 0.24 m/s | |
| Speed "Speed press" | 0.01 m/s | |
| Repetition accuracy | ±0,015 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 | |
| Max. current consumption, logic | 300 mA | |
| 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 to EN 61076-2-111 | |
| Power supply, number of pins/wires | 4 | |
| Authorisation | RCM Mark | |
| KC mark | KC-EMV | |

FESTO

| Feature | Value |
|--|--|
| CE mark (see declaration of conformity) | to EU directive for EMC |
| | in accordance with EU RoHS directive |
| 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 |
| Corrosion resistance classification CRC | 0 - No corrosion stress |
| PWIS conformity | VDMA24364 zone III |
| Cleanroom class | ISO class 9 |
| 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 °C, the power must be reduced by 2% per K. |
| Fixed bearing dynamic basic load rating | 13,321 N |
| Linear guide dynamic basic load rating | 13,400 N |
| Ball screw drive dynamic basic load rating | 4,600 N |
| Max. force Fy | 4,937 N |
| Max. force Fz | 4,937 N |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 13,400 N |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 13,400 N |
| Max. torque Mx | 20 Nm |
| Max. torque My | 30 Nm |
| Max. torque Mz | 30 Nm |
| Mx with theoretical service life of 100 km (from a guide perspective only | 107 Nm |
| My with theoretical service life of 100 km (from a guide perspective only) | 117 Nm |
| Mz with theoretical service life of 100 km (from a guide perspective only) | 117 Nm |
| Max. radial force at drive shaft | 420 N |
| Max. feed force Fx | 250 N |
| Reference value for working load, horizontal | 10 kg |
| Reference value for working load, vertical | 10 kg |
| Ball screw drive statistical basic load rating | 8,500 N |
| Linear guide statistical basic load rating | 26,900 N |
| Feed constant | 12 mm/U |
| Fixed bearing statistical basic load rating | 7,000 N |
| Reference value, running performance | 5,000 km |
| Maintenance interval | Life-time lubrication |
| Moving mass with 0 mm stroke | 675 g |
| Additional mass factor per 10 mm of stroke | 40 g |
| Product weight | 4,160 g |
| Basic weight for 0 mm stroke | 2,735 g |
| Additional weight per 10 mm stroke | 95 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 | Device V 1.1 |
| IO-Link, communication mode | COM3 (230.4 kbd) |
| IO-Link, port type | A |
| IO-Link, number of ports | 1 |
| IO-Link, process data width OUT | 2 Byte |
| IO-Link, process data content OUT | 1 bit (Move in) |
| | 1 bit (Move out) |
| | 1 bit (Quit Error) |

FESTO

| Feature | Value |
|--|--|
| | 1 bit (Move Intermediate) |
| IO-Link, process data width IN | 2 Byte |
| IO-Link, process data content IN | 1 bit (State Device) |
| | 1 bit (State Intermediate) |
| | 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 |
| | 20 m with IO-Link operation |
| Switching logic, outputs | PNP (positive-switching) |
| Input circuit logic | PNP (positive-switching) |
| IO-Link, connection technology | Plug |
| Logic interface, connection type | Plug |
| 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 |
| Mounting type | with internal (female) thread |
| | with centring sleeve |
| | with accessories |
| | With cylindrical dowel pin |
| Materials note | Conforms to RoHS |
| Material guide slide | Roller bearing steel |
| Material guide rail | Roller bearing steel |
| Material housing | Anodised wrought aluminium alloy |
| Material yoke plate | Anodised wrought aluminium alloy |
| Material piston rod | High alloy steel, non-corrosive |
| Material slide | Anodised wrought aluminium alloy |
| Material spindle nut | Roller bearing steel |
| Material spindle | Roller bearing steel |