

# Mini slide EGSC-BS-KF-60-125-5P

Part number: 8162083

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Working stroke                                     | 125 mm   |
| Size   | 60   |
| Stroke reserve                                     | 0 mm   |
| Reversing backlash theoretical                     | 150 µm   |
| Spindle diameter                                   | 12 mm  |
| Spindle pitch                                      | 5 mm/U   |
| Mounting position                                  | optional   |
| Guide  | Recirculating ball bearing guide   |
| Design   | Electric mini slide<br>With ball screw drive   |
| Type of motor                                      | Stepper motor<br>Servo motor   |
| Referencing  | Positive fixed stop block<br>Negative fixed stop block<br>Reference switch   |
| Spindle type                                       | Ball screw drive   |
| Position detection                                 | Via proximity switch   |
| Max. acceleration                                  | 5 m/s <sup>2</sup>   |
| Max. speed   | 0.25 m/s   |
| Repetition accuracy                                | ±0.015 mm  |
| Duty cycle   | 100%   |
| Corrosion resistance class CRC                     | 0 - No corrosion stress  |
| LABS (PWIS) conformity                             | VDMA24364 zone III   |
| Suitability for the production of Li-ion batteries | Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                    | Class 9 according to ISO 14644-1   |
| Sound pressure level                               | 55 dB(A)   |
| Degree of protection                               | IP40   |
| Ambient temperature                                | 0 °C...50 °C   |
| Dynamic basic load rating fixed bearing            | 13321 N  |
| Dynamic basic load rating linear guide             | 13400 N  |

| Feature  | Value   |
|--|---|
| Dynamic basic load rating ball screw             | 5900 N  |
| Max. moment Mx                                   | 20 Nm   |
| Max. moment My                                   | 30 Nm   |
| Max. moment Mz                                   | 30 Nm   |
| Max. radial force at drive shaft                 | 230 N   |
| Max. feed force Fx                               | 250 N   |
| Reference value effective load, horizontal       | 25 kg   |
| Reference value effective load, vertical         | 25 kg   |
| Static basic load rating ball screw              | 10600 N   |
| Static basic load rating linear guide            | 26900 N   |
| Mass moment of inertia JH per metre of stroke    | 0.11539 kgcm <sup>2</sup>   |
| Mass moment of inertia JL per kg of working load | 0.00633 kgcm <sup>2</sup>   |
| Mass moment of inertia JO                        | 0.06624 kgcm <sup>2</sup>   |
| Feed constant                                    | 5 mm/U  |
| Static basic load rating fixed bearing           | 7000 N  |
| Reference service life                           | 5000 km   |
| Maintenance interval                             | Life-time lubrication   |
| Moving mass for 0 mm stroke                      | 675 g   |
| Additional moving mass per 10 mm stroke          | 40 g  |
| Product weight                                   | 2742 g  |
| Basic weight for 0 mm stroke                     | 1555 g  |
| Additional weight per 10 mm stroke               | 95 g  |
| Type of mounting                                 | Via female thread<br>Via centring sleeve<br>With accessories<br>Via cylindrical pin |
| Interface code, actuator                         | T42   |
| Note on materials                                | RoHS-compliant  |
| Material guide slide                             | Rolled steel  |
| Material guide rail                              | Rolled steel  |
| Material housing                                 | Anodised wrought aluminium alloy  |
| Material yoke plate                              | Anodised wrought aluminium alloy  |
| Material piston rod                              | High-alloy stainless steel  |
| Material slide                                   | Anodised wrought aluminium alloy  |
| Material spindle nut                             | Rolled steel  |
| Material spindle                                 | Rolled steel  |