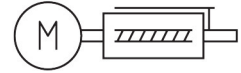


# Mini slide EGSC-BS-KF-45-150-3P

Part number: 8162078

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                            | Value                                                                                                                                                    |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Working stroke                                     | 150 mm                                                                                                                                                   |
| Size                                               | 45                                                                                                                                                       |
| Stroke reserve                                     | 0 mm                                                                                                                                                     |
| Reversing backlash theoretical                     | 150 µm                                                                                                                                                   |
| Spindle diameter                                   | 10 mm                                                                                                                                                    |
| Spindle pitch                                      | 3 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                                                                                                                                         |
| Symbol                                             | 00992069                                                                                                                                                 |
| Position detection                                 | Via proximity switch                                                                                                                                     |
| Max. acceleration                                  | 5 m/s <sup>2</sup>                                                                                                                                       |
| Max. rotational speed                              | 3600 rpm                                                                                                                                                 |
| Max. speed                                         | 0.18 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 | Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| 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                                                                                                                                           |
| Impact energy in end positions                     | 1.0E-5 J                                                                                                                                                 |
| Note on the impact energy in the end positions     | At maximum homing speed of 0.01 m/s                                                                                                                      |
| Dynamic basic load rating fixed bearing            | 7413 N                                                                                                                                                   |
| Dynamic basic load rating linear guide             | 3240 N                                                                                                                                                   |
| Dynamic basic load rating ball screw               | 3500 N                                                                                                                                                   |

| Feature                                                           | Value                                                                               |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Idle torque at vmax                                               | 0.059 Nm                                                                            |
| Idle torque at vmin                                               | 0.015 Nm                                                                            |
| Max. force Fy                                                     | 1314 N                                                                              |
| Max. force Fz                                                     | 1314 N                                                                              |
| Fy at theoretical life value of 100 km (only guide consideration) | 3240 N                                                                              |
| Fz at theoretical life value of 100 km (only guide consideration) | 3240 N                                                                              |
| Max. moment Mx                                                    | 8.1 Nm                                                                              |
| Max. moment My                                                    | 7 Nm                                                                                |
| Max. moment Mz                                                    | 7 Nm                                                                                |
| Mx at theoretical life value of 100 km (only guide consideration) | 20 Nm                                                                               |
| My at theoretical life value of 100 km (only guide consideration) | 17 Nm                                                                               |
| Mz at theoretical life value of 100 km (only guide consideration) | 17 Nm                                                                               |
| Max. radial force at drive shaft                                  | 180 N                                                                               |
| Max. feed force Fx                                                | 120 N                                                                               |
| Reference value effective load, horizontal                        | 12 kg                                                                               |
| Reference value effective load, vertical                          | 12 kg                                                                               |
| Static basic load rating ball screw                               | 6300 N                                                                              |
| Static basic load rating linear guide                             | 5630 N                                                                              |
| Mass moment of inertia JH per metre of stroke                     | 0.04918 kgcm <sup>2</sup>                                                           |
| Mass moment of inertia JL per kg of working load                  | 0.0028 kgcm <sup>2</sup>                                                            |
| Mass moment of inertia JO                                         | 0.01045 kgcm <sup>2</sup>                                                           |
| Feed constant                                                     | 3 mm/U                                                                              |
| Static basic load rating fixed bearing                            | 3966 N                                                                              |
| Reference service life                                            | 5000 km                                                                             |
| Maintenance interval                                              | Life-time lubrication                                                               |
| Moving mass for 0 mm stroke                                       | 212 g                                                                               |
| Additional moving mass per 10 mm stroke                           | 30 g                                                                                |
| Product weight                                                    | 1551 g                                                                              |
| Basic weight for 0 mm stroke                                      | 608 g                                                                               |
| Additional weight per 10 mm stroke                                | 63 g                                                                                |
| Type of mounting                                                  | Via female thread<br>Via centring sleeve<br>With accessories<br>Via cylindrical pin |
| Interface code, actuator                                          | V32                                                                                 |
| 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                                                                        |