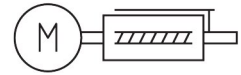
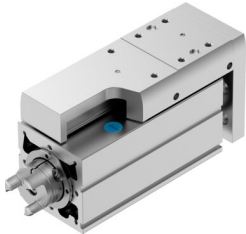


# Mini slide EGSC-BS-KF-60-50-5P

Part number: 8162086

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                            | Value                                                                       |
|----------------------------------------------------|-----------------------------------------------------------------------------|
| Working stroke                                     | 50 mm                                                                       |
| Size                                               | 60                                                                          |
| Stroke reserve                                     | 0 mm                                                                        |
| Reversing backlash                                 | 150 µm                                                                      |
| Screw diameter                                     | 12 mm                                                                       |
| Spindle pitch                                      | 5 mm/U                                                                      |
| Mounting position                                  | Any                                                                         |
| Guide                                              | Recirculating ball bearing guide                                            |
| Structural design                                  | with ball screw drive                                                       |
| Motor type                                         | Stepper motor<br>Servo motor                                                |
| Homing                                             | Fixed stop block positive<br>Fixed stop block, negative<br>Reference switch |
| Spindle type                                       | Ball screw drive                                                            |
| Symbol                                             | 00992069                                                                    |
| Position sensing                                   | For proximity sensor                                                        |
| Max. acceleration                                  | 5 m/s <sup>2</sup>                                                          |
| Max. rotational speed                              | 3000 rpm                                                                    |
| 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 | Suitable for battery production with reduced Cu/Zn/Ni values (F1a)          |
| Cleanroom class                                    | Class 9 according to ISO 14644-1                                            |
| Noise level                                        | 55 dB(A)                                                                    |
| Degree of protection                               | IP40                                                                        |
| Ambient temperature                                | 0 °C ... 50 °C                                                              |
| Impact energy in the end positions                 | 4.0E-5 J                                                                    |
| Note on the impact energy in the end positions     | At maximum speed of the reference run of 0.01 m/s                           |
| Fixed bearing dynamic basic load rating            | 13321 N                                                                     |
| Linear guide dynamic basic load rating             | 13400 N                                                                     |
| Dynamic basic load rating, ball screw drive        | 5900 N                                                                      |
| No-load torque at maximum travel speed             | 0.125 Nm                                                                    |
| No-load torque at minimum travel speed             | 0.032 Nm                                                                    |

| Feature                                                                    | Value                                                                                     |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Max. force Fy                                                              | 4937 N                                                                                    |
| Max. force Fz                                                              | 4937 N                                                                                    |
| Fy with theoretical service life of 100 km (from a guide perspective only) | 13400 N                                                                                   |
| Fz with theoretical service life of 100 km (from a guide perspective only) | 13400 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 on actuator shaft                                        | 230 N                                                                                     |
| Max. feed force Fx                                                         | 250 N                                                                                     |
| Guide value for payload, horizontal                                        | 25 kg                                                                                     |
| Guide value for payload, vertical                                          | 25 kg                                                                                     |
| Ball screw drive statistical basic load rating                             | 10600 N                                                                                   |
| Linear guide statistical basic load rating                                 | 26900 N                                                                                   |
| Mass moment of inertia JH per meter of stroke                              | 0.11539 kgcm <sup>2</sup>                                                                 |
| Mass moment of inertia JL per kg of payload                                | 0.00633 kgcm <sup>2</sup>                                                                 |
| Mass moment of inertia JO                                                  | 0.06624 kgcm <sup>2</sup>                                                                 |
| Feed constant                                                              | 5 mm/U                                                                                    |
| Statistical fixed bearing load rating                                      | 7000 N                                                                                    |
| Reference service life                                                     | 5000 km                                                                                   |
| Maintenance interval                                                       | Life-time lubrication                                                                     |
| Moving mass at 0 mm stroke                                                 | 675 g                                                                                     |
| Additional moving mass per 10 mm stroke                                    | 40 g                                                                                      |
| Product weight                                                             | 2030 g                                                                                    |
| Basic weight with 0 mm stroke                                              | 1555 g                                                                                    |
| Additional weight per 10 mm stroke                                         | 95 g                                                                                      |
| Type of mounting                                                           | With internal thread<br>With centering sleeve<br>With accessories<br>With cylindrical pin |
| Interface code, actuator                                                   | T42                                                                                       |
| Note on materials                                                          | RoHS-compliant                                                                            |
| Slide carriage material                                                    | Roller bearing steel                                                                      |
| Guide rail material                                                        | Roller bearing steel                                                                      |
| Housing material                                                           | Wrought aluminum alloy, anodized                                                          |
| Material of yoke plate                                                     | Wrought aluminum alloy, anodized                                                          |
| Piston rod material                                                        | High-alloy stainless steel                                                                |
| Slide material                                                             | Wrought aluminum alloy, anodized                                                          |
| Spindle nut material                                                       | Roller bearing steel                                                                      |
| Spindle material                                                           | Roller bearing steel                                                                      |