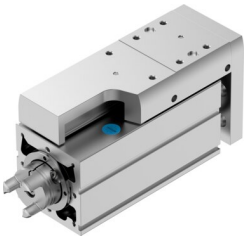
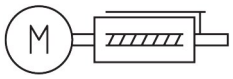
# Mini slide
# EGSC-BS-KF-60-50-5P

Part number: 8162086






## 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 |
| Structural design | Electrical mini-slide<br>With ball screw |
| Motor type | Stepper motor<br>Servo motor |
| Homing | Fixed stop block positive<br>Fixed stop block negative<br>Reference switch |
| Spindle type | Ball screw |
| Position sensing | Via proximity switch |
| Max. acceleration | 5 m/s² |
| 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 suitability, measured according to ISO 14644-14 | 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 | 0.044 mJ |
| 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 |

| Feature | Value |
|---|---|
| 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 |
| 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 kgcm² |
| Mass moment of inertia JL per kg of payload | 0.00633 kgcm² |
| Mass moment of inertia JO | 0.06624 kgcm² |
| Feed constant | 5 mm/U |
| Statistical fixed bearing load rating | 7000 N |
| Reference service life | 5000 km |
| Maintenance interval | Lifetime 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 | Bearing steel |
| Guide rail material | 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 |
| Ball screw nut material | Bearing steel |
| Spindle material | Bearing steel |