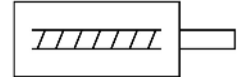


# Electric actuator EPCC-BS-60-500-12P-A

Part number: 5428913

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Size   | 60   |
| Stroke   | 500 mm   |
| Stroke reserve                                     | 0 mm   |
| Piston rod thread                                  | M12x1.25   |
| Reversing backlash                                 | 100 µm   |
| Screw diameter                                     | 12 mm  |
| Spindle pitch                                      | 12 mm/U  |
| Max. angle of rotation of the piston rod +/-       | 1 deg  |
| Mounting position                                  | Any  |
| Piston rod end                                     | External thread  |
| Motor type   | Stepper motor<br>Servo motor   |
| Position sensing                                   | For proximity sensor   |
| Structural design                                  | Electric actuator<br>with ball screw drive   |
| Spindle type                                       | Ball screw drive   |
| Symbol   | 00991941   |
| Protection against torsion/guide                   | With plain-bearing guide   |
| Max. acceleration                                  | 15 m/s <sup>2</sup>  |
| Max. speed   | 0.6 m/s  |
| Repetition accuracy                                | ±0.02 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   |
| Storage temperature                                | -20 °C ... 60 °C   |
| Relative air humidity                              | 0 - 95 %<br>Non-condensing   |
| Degree of protection                               | IP40   |
| Ambient temperature                                | 0 °C ... 60 °C   |
| Impact energy in the end positions                 | 0.024 J  |
| Max. torque Mx                                     | 0 Nm   |
| Max. torque My                                     | 6.4 Nm   |

| Feature                                       | Value                                     |
|---|---|
| Max. torque Mz                                | 6.4 Nm                                    |
| Max. radial force on actuator shaft           | 230 N                                     |
| Max. feed force Fx                            | 1000 N                                    |
| Guide value for payload, horizontal           | 120 kg                                    |
| Guide value for payload, vertical             | 60 kg                                     |
| Mass moment of inertia JH per meter of stroke | 0.1519 kgcm <sup>2</sup>                  |
| Mass moment of inertia JL per kg of payload   | 0.0365 kgcm <sup>2</sup>                  |
| Mass moment of inertia JO                     | 0.0779 kgcm <sup>2</sup>                  |
| Moving mass at 0 mm stroke                    | 305 g                                     |
| Additional moving mass per 10 mm stroke       | 6.5 g                                     |
| Basic weight with 0 mm stroke                 | 1114 g                                    |
| Additional weight per 10 mm stroke            | 69 g                                      |
| Type of mounting                              | With internal thread<br>With accessories  |
| Note on materials                             | RoHS-compliant                            |
| Housing material                              | Wrought aluminum alloy<br>Smooth anodized |
| Piston rod material                           | High-alloy stainless steel                |
| Spindle nut material                          | Steel                                     |
| Spindle material                              | Roller bearing steel                      |