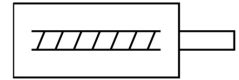
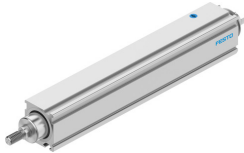


# Electric actuator EPCC-BS-25-25-6P-A

Part number: 5428813

FESTO



## Data sheet

| Feature                                      | Value                                      |
|----------------------------------------------|--------------------------------------------|
| Size                                         | 25                                         |
| Stroke                                       | 25 mm                                      |
| Stroke reserve                               | 0 mm                                       |
| Piston rod thread                            | M6                                         |
| Reversing backlash                           | 100 µm                                     |
| Screw diameter                               | 6 mm                                       |
| Spindle pitch                                | 6 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                                   | 0.4 m/s                                    |
| Repetition accuracy                          | ±0.02 mm                                   |
| Duty cycle                                   | 100%                                       |
| Corrosion resistance class (CRC)             | 0 - No corrosion stress                    |
| LABS conformity                              | VDMA24364 zone III                         |
| RSBP classification to CD-0033               | F1a                                        |
| Cleanroom class                              | ISO Class 9                                |
| 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           | 0.0012 J                                   |
| Max. torque Mx                               | 0 Nm                                       |
| Max. torque My                               | 0.6 Nm                                     |
| Max. torque Mz                               | 0.6 Nm                                     |
| Max. radial force on actuator shaft          | 30 N                                       |

| Feature                                       | Value                                     |
|-----------------------------------------------|-------------------------------------------|
| Max. feed force Fx                            | 75 N                                      |
| Guide value for payload, horizontal           | 12 kg                                     |
| Guide value for payload, vertical             | 6 kg                                      |
| Mass moment of inertia JH per meter of stroke | 0.0095 kgcm <sup>2</sup>                  |
| Mass moment of inertia JL per kg of payload   | 0.0091 kgcm <sup>2</sup>                  |
| Mass moment of inertia JO                     | 0.0014 kgcm <sup>2</sup>                  |
| Moving mass at 0 mm stroke                    | 53 g                                      |
| Additional weight per 10 mm stroke            | 13 g                                      |
| Basic weight with 0 mm stroke                 | 132 g                                     |
| Additional moving mass per 10 mm stroke       | 2.6 g                                     |
| Type of mounting                              | 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                      |