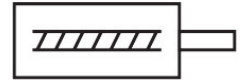


# Electric actuator EPCC-BS-25-175-2P-A

Part number: 5428811

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Size   | 25  |
| Stroke   | 175 mm  |
| Stroke reserve                                     | 0 mm  |
| Piston rod thread                                  | M6  |
| Reversing backlash                                 | 100 µm  |
| Screw diameter                                     | 6 mm  |
| Spindle pitch                                      | 2 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  |
| Protection against torsion/guide                   | With plain-bearing guide  |
| Max. acceleration                                  | 5 m/s <sup>2</sup>  |
| Max. rotational speed                              | 4000 rpm  |
| Max. speed   | 0.083 m/s   |
| Max. homing speed                                  | 0.01 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 | Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                    | Class 9 according to ISO 14644-1  |
| Storage temperature                                | -20 °C...60 °C  |

| Feature                                       | Value                                     |
|---|---|
| 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. driving torque                           | 0.05 Nm                                   |
| 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                                      |
| Max. feed force Fx                            | 75 N                                      |
| No-load driving torque                        | 0.02 Nm                                   |
| Guide value for payload, horizontal           | 12 kg                                     |
| Guide value for payload, vertical             | 6 kg                                      |
| Mass moment of inertia JH per meter of stroke | 0.0056 kgcm <sup>2</sup>                  |
| Mass moment of inertia JL per kg of payload   | 0.001 kgcm <sup>2</sup>                   |
| Mass moment of inertia JO                     | 0.0009 kgcm <sup>2</sup>                  |
| Maintenance interval                          | Life-time lubrication                     |
| Moving mass at 0 mm stroke                    | 53 g                                      |
| Additional moving mass per 10 mm stroke       | 2.6 g                                     |
| Basic weight with 0 mm stroke                 | 132 g                                     |
| Additional weight per 10 mm stroke            | 13 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                      |