

# Electric actuator EPCC-BS-60-300-5P-A

Part number: 5428897

FESTO



## Data sheet

| Feature                                      | Value                                      |
|--|--|
| Size   | 60   |
| Stroke                                       | 300 mm                                     |
| Stroke reserve                               | 0 mm                                       |
| Piston rod thread                            | M12x1.25                                   |
| Reversing backlash                           | 100 µm                                     |
| Screw diameter                               | 12 mm                                      |
| Spindle pitch                                | 5 mm/U                                     |
| Max. angle of rotation of the piston rod +/- | 1 deg                                      |
| Type code                                    | EPCC                                       |
| Mounting position                            | Any  |
| Piston rod end                               | External thread                            |
| Motor type                                   | Stepper motor<br>Servo motor               |
| 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                            | 5 m/s <sup>2</sup>                         |
| Max. speed                                   | 0.25 m/s                                   |
| Repetition accuracy                          | ±0.02 mm                                   |
| Duty cycle                                   | 100%                                       |
| Corrosion resistance class (CRC)             | 0 - No corrosion stress                    |
| LABS conformity                              | VDMA24364 zone III                         |
| 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                                     |
| 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                                     |

| <b>Feature</b>                                | <b>Value</b>   |
|---|--|
| Guide value for payload, vertical             | 60 kg  |
| Mass moment of inertia JH per meter of stroke | 0.1195 kgcm <sup>2</sup>                                       |
| Mass moment of inertia JL per kg of payload   | 0.0063 kgcm <sup>2</sup>                                       |
| Mass moment of inertia JO                     | 0.0682 kgcm <sup>2</sup>                                       |
| Moving mass at 0 mm stroke                    | 305 g  |
| Additional weight per 10 mm stroke            | 69 g   |
| Basic weight with 0 mm stroke                 | 1114 g   |
| Additional moving mass per 10 mm stroke       | 6.5 g  |
| Type of mounting                              | With internal thread<br>With accessories                       |
| Note on materials                             | Contains paint-wetting impairment substances<br>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   |