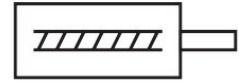


# Electric drive EPCC-BS-25-75-6P-A

Part number: 5428815

FESTO



 General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Size  | 25   |
| Stroke  | 75 mm  |
| Stroke reserve  | 0 mm   |
| Piston rod thread   | M6   |
| Reversing backlash theoretical                            | 100 µm   |
| Spindle diameter  | 6 mm   |
| Spindle pitch   | 6 mm/U   |
| Torsional backlash at piston rod +/-                      | 1 deg  |
| Mounting position   | Any  |
| Piston-rod end  | Male thread  |
| Type of motor   | Stepper motor<br>Servo motor                                       |
| Position detection  | Via proximity switch   |
| Design  | With ball screw  |
| Spindle type  | Ball screw   |
| Symbol  | 00991941   |
| Protection against torque/guide                           | With plain-bearing guide   |
| Max. acceleration   | 15 m/s <sup>2</sup>  |
| Max. rotational speed                                     | 4000 rpm   |
| Max. speed  | 0.4 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        | 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                                   |
| Storage temperature                                       | -20 °C ... 60 °C   |
| Relative air humidity                                     | Non-condensing   |
| Degree of protection                                      | IP40   |
| Ambient temperature                                       | 0 °C ... 60 °C   |
| Impact energy in end positions                            | 0.0012 J   |
| Max. drive torque   | 0.1 Nm   |
| Max. moment Mx  | 0 Nm   |
| Max. moment My  | 0.6 Nm   |
| Max. moment Mz  | 0.6 Nm   |

| Feature  | Value                      |
|--|----------------------------|
| Max. radial force at drive shaft                 | 30 N                       |
| Max. feed force Fx                               | 75 N                       |
| Frictional torque independent of load            | 0.055 Nm                   |
| Reference value effective load, horizontal       | 12 kg                      |
| Reference value effective load, vertical         | 6 kg                       |
| Mass moment of inertia JH per metre of stroke    | 0.0095 kgcm <sup>2</sup>   |
| Mass moment of inertia JL per kg of working load | 0.0091 kgcm <sup>2</sup>   |
| Mass moment of inertia JO                        | 0.0014 kgcm <sup>2</sup>   |
| Maintenance interval                             | Lifetime lubrication       |
| Moving mass for 0 mm stroke                      | 53 g                       |
| Additional moving mass per 10 mm stroke          | 2.6 g                      |
| Basic weight for 0 mm stroke                     | 132 g                      |
| Additional weight per 10 mm stroke               | 13 g                       |
| Type of mounting                                 | With accessories           |
| Note on materials                                | RoHS compliant             |
| Material housing                                 | Smooth-anodised            |
| Material piston rod                              | High-alloy stainless steel |
| Material ball screw nut                          | Steel                      |
| Material spindle                                 | Bearing steel              |