## Electric cylinder EPCC-BS-25-Part number: 5428821



## **Data sheet**

Size 25 Stroke 25 mm200 mm Stroke reserve 0 mm Piston rod thread M6 Reversing backlash 100 µm Screw diameter 6 mm Spindle pitch 2 mm/U6 mm/ Max. angle of rotation of the piston rod +/- 1 deg Mounting position Any Piston rod end External thread Internal thread Inte	
Stroke reserve 0 mm  Piston rod thread M6  Reversing backlash 100 µm  Screw diameter 6 mm  Spindle pitch 2 mm/U6 mm/  Max. angle of rotation of the piston rod +/- 1 deg  Mounting position Any  Piston rod end External thread Internal th	
Piston rod thread  Reversing backlash  100 µm  Screw diameter  6 mm  Spindle pitch  2 mm/U6 mm/  Max. angle of rotation of the piston rod +/-  1 deg  Mounting position  Any  Piston rod end  External thread Internal thread  Motor type  Stepper motor Servo motor  Position sensing  For proximity sen  Structural design  Electric actuator with ball screw drive  Protection against torsion/guide  Max. acceleration  Max. acceleration  Max. speed  Max. speed  O.067 m/s0.4 m  Max. homing speed  Could make the service of the service of the make the service of the	
Reversing backlash  Screw diameter  6 mm  Spindle pitch  2 mm/U6 mm/  Max. angle of rotation of the piston rod +/-  1 deg  Mounting position  Any  Piston rod end  External thread Internal thread Internal thread Internal thread  Motor type  Stepper motor Servo motor  Position sensing  For proximity sen  Electric actuator with ball screw drive  Protection against torsion/guide  Max. acceleration  Max. rotational speed  Max. speed  O.067 m/s04 m  Max. homing speed  O.01 m/s  Repetition accuracy  ±0.02 mm  Duty cycle	
Screw diameter 6 mm  Spindle pitch 2 mm/U6 mm/  Max. angle of rotation of the piston rod +/- 1 deg  Mounting position Any  Piston rod end External thread Internal thread  Motor type Stepper motor Servo motor  Position sensing For proximity sen  Structural design Electric actuator with ball screw di  Spindle type Ball screw drive  Protection against torsion/guide With plain-bearin  Max. acceleration 5 m/s²15 m/s²  Max. rotational speed 4000 rpm  Max. speed 0.067 m/s0.4 r  Max. homing speed 0.01 m/s  Repetition accuracy ±0.02 mm  Duty cycle 100%	
Spindle pitch  Ax. angle of rotation of the piston rod +/-  Mounting position  Piston rod end  External thread Internal thread	
Max. angle of rotation of the piston rod +/-  Mounting position  Piston rod end  External thread Internal thread Internal thread  Motor type  Stepper motor Servo motor  Position sensing  For proximity sen  Structural design  Electric actuator with ball screw drive  Protection against torsion/guide  Max. acceleration  Max. rotational speed  Max. rotational speed  Max. speed  Max. homing speed  Duty cycle  100%	
Mounting position Piston rod end External thread Internal thread Motor type Stepper motor Servo motor Position sensing For proximity sen Structural design Electric actuator with ball screw di Spindle type Ball screw drive Protection against torsion/guide With plain-bearin Max. acceleration 5 m/s²15 m/s² Max. rotational speed 4000 rpm Max. speed 0.067 m/s0.4 r Max. homing speed 0.01 m/s Repetition accuracy ±0.02 mm Duty cycle	
Piston rod end  External thread Internal thread  Motor type  Stepper motor Servo motor  Position sensing  For proximity sen  Structural design  Electric actuator with ball screw drive  Spindle type  Ball screw drive  Protection against torsion/guide  Max. acceleration  Max. rotational speed  Max. rotational speed  Max. speed  Max. homing speed  O.01 m/s  Repetition accuracy  by the plain-bearing  4000 rpm  Max. speed  O.01 m/s  Repetition accuracy  ±0.02 mm  Duty cycle	
Motor typeStepper motor Servo motorPosition sensingFor proximity senStructural designElectric actuator with ball screw driveSpindle typeBall screw driveProtection against torsion/guideWith plain-bearinMax. acceleration5 m/s²15 m/s²Max. rotational speed4000 rpmMax. speed0.067 m/s0.4 rMax. homing speed0.01 m/sRepetition accuracy±0.02 mmDuty cycle100%	
Servo motor  Position sensing For proximity sen  Structural design Electric actuator with ball screw drive  Spindle type Ball screw drive  Protection against torsion/guide With plain-bearin  Max. acceleration 5 m/s²15 m/s²  Max. rotational speed 4000 rpm  Max. speed 0.067 m/s0.4 r  Max. homing speed 0.01 m/s  Repetition accuracy ±0.02 mm  Duty cycle 100%	
Structural design  Electric actuator with ball screw di  Spindle type  Protection against torsion/guide  Max. acceleration  Max. rotational speed  Max. rotational speed  Max. speed  Max. homing speed  Cool m/s  Repetition accuracy  Duty cycle  Electric actuator with ball screw di  With plain-bearin  5 m/s²15 m/s²  4000 rpm  0.067 m/s0.4 r  ±0.02 mm  100%	
with ball screw drive  Spindle type  Ball screw drive  Protection against torsion/guide  Max. acceleration  Max. rotational speed  Max. rotational speed  Max. speed  Max. homing speed  Co.01 m/s  Repetition accuracy  Duty cycle  with ball screw drive  With plain-bearin  5 m/s²15 m/s²  4000 rpm  0.067 m/s0.4 r  4000 rpm  100%	or
Protection against torsion/guide  Max. acceleration  Max. rotational speed  Max. speed  Max. speed  Max. homing speed  Repetition accuracy  Duty cycle  With plain-bearin  5 m/s²15 m/s²  4000 rpm  0.067 m/s0.4 r  4000 rpm  4000 rpm  4000 rpm  4000 rpm  4000 rpm  1000 m/s  4000 mm	ve
Max. acceleration       5 m/s²15 m/s²         Max. rotational speed       4000 rpm         Max. speed       0.067 m/s0.4 r         Max. homing speed       0.01 m/s         Repetition accuracy       ±0.02 mm         Duty cycle       100%	
Max. rotational speed       4000 rpm         Max. speed       0.067 m/s0.4 r         Max. homing speed       0.01 m/s         Repetition accuracy       ±0.02 mm         Duty cycle       100%	guide
Max. speed       0.067 m/s0.4 r         Max. homing speed       0.01 m/s         Repetition accuracy       ±0.02 mm         Duty cycle       100%	
Max. homing speed 0.01 m/s  Repetition accuracy ±0.02 mm  Duty cycle 100%	
Repetition accuracy ±0.02 mm  Duty cycle 100%	/s
Duty cycle 100%	
, ,	
Corrosion resistance class (CRC) 0 - No corrosion s	ress
LABS (PWIS) conformity VDMA24364 zon	III
battery production or nickel are exclusions.	ds to Festo's internal product definition for use in :Metals with more than 1% by mass of copper, zinc
Cleanroom class Class 9 according	ded from use.The exceptions are nickel in steel, plated surfaces, circuit boards, cables, electrical plug
Storage temperature -20 °C60 °C	ded from use.The exceptions are nickel in steel, olated surfaces, circuit boards, cables, electrical plug lls

Feature	Value
Relative air humidity	0 - 95 % Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C60 °C
Impact energy in the end positions	0.0012 J
Max. driving torque	0.05 Nm0.1 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 Nm0.055 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 kgcm²0.0095 kgcm²
Mass moment of inertia JL per kg of payload	0.001 kgcm²0.0091 kgcm²
Mass moment of inertia JO	0.0009 kgcm²0.0014 kgcm²
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 Smooth anodized
Piston rod material	High-alloy stainless steel
Spindle nut material	Steel
Spindle material	Roller bearing steel