

# Electric actuator EPCC-BS-45-300-3P-A

Part number: 5428867

FESTO



## Data sheet

Feature	Value
Size	45
Stroke	300 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Reversing backlash	100 µm
Screw diameter	10 mm
Spindle pitch	3 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 Servo motor
Structural design	Electric actuator 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	0.18 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 % Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
Impact energy in the end positions	0.012 J
Max. torque Mx	0 Nm
Max. torque My	2.9 Nm
Max. torque Mz	2.9 Nm
Max. radial force on actuator shaft	180 N
Max. feed force Fx	450 N
Guide value for payload, horizontal	60 kg

<b>Feature</b>	<b>Value</b>
Guide value for payload, vertical	30 kg
Mass moment of inertia JH per meter of stroke	0.0503 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of payload	0.0023 kgcm <sup>2</sup>
Mass moment of inertia JO	0.0109 kgcm <sup>2</sup>
Moving mass at 0 mm stroke	179 g
Additional weight per 10 mm stroke	41 g
Basic weight with 0 mm stroke	555 g
Additional moving mass per 10 mm stroke	4.9 g
Type of mounting	With internal thread With accessories
Note on materials	Contains paint-wetting impairment substances 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