

Electric actuator EPCO-16-50-3P-ST-E

Part number: 1476415

FESTO



Data sheet

Feature	Value
Size	16
Stroke	50 mm
Stroke reserve	0 mm
Piston rod thread	M6
Reversing backlash	0,1 mm
Step angle with full step	1.8 deg
Step angle tolerance	±5%
Screw diameter	8 mm
Spindle pitch	3 mm/U
Max. angle of rotation of the piston rod +/-	2 deg
Mounting position	Any
Piston rod end	External thread
Motor type	Stepper motor
Structural design	Electric actuator with ball screw drive
Spindle type	Ball screw drive
Protection against torsion/guide	With plain-bearing guide
Rotor position sensor	Incremental encoder
Rotor position sensor interface	RS422 TTL A/B channels + zero index
Rotor position sensor measuring principle	Optical
Max. acceleration	10 m/s ²
Max. speed	0.125 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
Insulation protection class	B
Nominal operating voltage DC	24 V
Motor nominal current	1.4 A
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive

Feature	Value
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °C...60 °C
Relative air humidity	0 - 85 % Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
Impact energy in the end positions	0.0001 J
Max. torque M _x	0 Nm
Max. torque M _y	0.6 Nm
Max. torque M _z	0.6 Nm
Max. feed force F _x	125 N
Guide value for payload, horizontal	24 kg
Guide value for payload, vertical	12 kg
Mass moment of inertia J _H per meter of stroke	0.0253 kgcm ²
Mass moment of inertia J _L per kg of payload	0.0023 kgcm ²
Mass moment of inertia J _O	0.0228 kgcm ²
Bending radius, fixed cable installation	60 mm
Moving mass at 0 mm stroke	70 g
Additional moving mass per 10 mm stroke	2 g
Basic weight with 0 mm stroke	615 g
Additional weight per 10 mm stroke	17 g
Electrical connection technology	Plug
Type of mounting	With internal thread With accessories
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy Smooth anodized
Housing material	Wrought aluminum alloy Smooth anodized
Piston rod material	High-alloy stainless steel
Spindle nut material	Steel
Spindle material	Roller bearing steel
Material of cylinder barrel	Wrought aluminum alloy Smooth anodized