

Electric actuator EPCO-40-100-5P-ST-E

Part number: 1472503

FESTO



Data sheet

Feature	Value
Size	40
Stroke	100 mm
Stroke reserve	0 mm
Piston rod thread	M10x1.25
Reversing backlash	0,1 mm
Step angle with full step	1.8 deg
Step angle tolerance	±5%
Screw diameter	12 mm
Spindle pitch	5 mm/U
Max. angle of rotation of the piston rod +/-	1 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	0.18 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
Insulation protection class	B
Nominal operating voltage DC	24 V
Motor nominal current	4.2 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	0.0004 J
Max. torque Mx	0 Nm
Max. torque My	3.3 Nm
Max. torque Mz	3.3 Nm
Max. feed force Fx	650 N
Guide value for payload, horizontal	120 kg
Guide value for payload, vertical	60 kg
Mass moment of inertia JH per meter of stroke	0.1166 kgcm ²
Mass moment of inertia JL per kg of payload	0.0064 kgcm ²
Mass moment of inertia JO	0.3325 kgcm ²
Moving mass at 0 mm stroke	415 g
Additional moving mass per 10 mm stroke	4.9 g
Basic weight with 0 mm stroke	2585 g
Additional weight per 10 mm stroke	55 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