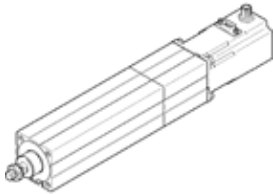


Electro-cylinder EPCO-40-50-5P-ST-E

Part number: 1472501
Product to be discontinued

FESTO

Mechanical linear drive with piston rod and fixed stepper motor.
Type to be discontinued. Available until 2025. See Support Portal for alternative products.



Data sheet

Feature	Value
Size	40
Stroke	50 mm
Stroke reserve	0 mm
Piston rod thread	M10x1,25
Reversing backlash	0.1 mm
Stepper angle at full step	1.8 deg
Stepper angle tolerance	±5 %
Spindle diameter	12 mm
Spindle pitch	5 mm/U
Max. angular deflection of piston rod +/-	1 deg
Assembly position	Any
Piston-rod end	Male thread
Motor type	Stepper motor
Design structure	Electric cylinder With ball screw
Spindle type	Ball screw
Protection against torque/guide	with plain-bearing guide
Rotor position sensor	Incremental encoder
Rotary position encoder interface	RS422 TTL AB-channel + zero index
Rotary position encoder 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
Nominal motor current	4.2 A
Authorization	RCM Mark c UL us - Recognized (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364 zone III
Storage temperature	-20 ... 60 °C
Relative air humidity	0 - 85 % non-condensing
Protection class	IP40
Ambient temperature	0 ... 50 °C
Impact energy in end positions	0.0004 J
Max. torque Mx	0 Nm

Feature	Value
Max. torque My	3.3 Nm
Max. torque Mz	3.3 Nm
Max. feed force Fx	650 N
Reference value for working load, horizontal	120 kg
Reference value for working load, vertical	60 kg
Mass moment of inertia JH per meter of stroke	0.1166 kgcm ²
Mass moment of inertia JL per kg of working load	0.0064 kgcm ²
Mass moment of inertia, JO	0.3325 kgcm ²
Moving mass with 0 mm stroke	415 g
Additional mass factor per 10 mm of stroke	4.9 g
Basic weight for 0 mm stroke	2,585 g
Additional weight per 10 mm stroke	55 g
Electrical connector system	Plug
Mounting type	with internal (female) thread with accessories
Materials note	Conforms to RoHS
Material cover	Wrought Aluminum alloy Smooth anodized
Material housing	Wrought Aluminum alloy Smooth anodized
Material piston rod	High alloy steel, non-corrosive
Material spindle nut	Steel
Material spindle	Roller bearing steel
Material cylinder barrel	Wrought Aluminum alloy Smooth anodized