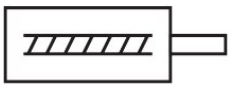
Electric cylinder
EPCC-BS-25-50-2P-A

Part number: 5428806



General operating condition

Data sheet

Feature	Value
Size	25
Stroke	50 mm
Stroke reserve	0 mm
Piston rod thread	M6
Reversing backlash	100 µm
Screw diameter	6 mm
Spindle pitch	2 mm/U
Max. angle of rotation of the piston rod +/-	1 deg
Mounting position	Any
Piston rod end	External thread
Motor type	Stepper motor Servo motor
Position sensing	Via proximity switch
Structural design	With ball screw
Spindle type	Ball screw
Symbol	00991941
Protection against torsion/guide	With plain bearing-guide
Max. acceleration	5 m/s²
Max. rotational speed	4000 rpm
Max. speed	0.133 m/s
Max. homing speed	0.01 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 9 according to ISO 14644-1
Storage temperature	-20 °C ... 60 °C
Relative air humidity	Non-condensating
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
Impact energy in the end positions	0.0012 J
Max. driving torque	0.05 Nm
Max. torque Mx	0 Nm
Max. torque My	0.6 Nm
Max. torque Mz	0.6 Nm

Feature	Value
Max. radial force on actuator shaft	30 N
Max. feed force Fx	75 N
No-load driving torque	0.02 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 kgcm²
Mass moment of inertia JL per kg of payload	0.001 kgcm²
Mass moment of inertia JO	9.0E-4 kgcm²
Maintenance interval	Lifetime 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	Smooth-anodized
Piston rod material	high-alloy stainless steel
Ball screw nut material	Steel
Spindle material	Bearing steel