Electric actuator EPCC-BS-25-175-6P-A

Part number: 5428819



<u> 7777777</u>

Data sheet

Stroke 175 mm Stroke reserve 0 mm Piston rod thread M6 Reversing backlash 100 µm Screw diameter 6 mm Spindle pitch 6 mm/U Max, angle of rotation of the piston rod +/- 1 deg Mounting position Any Piston rod end External thread Motor type Stepper motor Solition sensing For proximity sensor Structural design Electric actuator Spindle type Ball screw drive Spindle type Ball screw drive Spindle type Ball screw drive Max, acceleration 15 m/s ² Max, speed 0.251 m/s Max, homing speed 0.02 mm Duty cycle 100% Corrosion resistance class (CRC) 0 - No corrosion stress LAES (PWIS) conformity VDMA24364 zone III Suitability for the production of Li-ion batteries Product corresponds to Festo's internal product definition for use in incleal are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and colls	Feature	Value
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Repetition accuracy±0.02 mmDuty cycle100%Corrosion resistance class (CRC)0 - No corrosion stressLABS (PWIS) conformityVDMA24364 zone IIISuitability for the production of Li-ion batteriesProduct corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coilsCleanroom classClass 9 according to ISO 14644-1	Max. speed	0.251 m/s
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Storage temperature -20 °C60 °C	Cleanroom class	Class 9 according to ISO 14644-1
	Storage temperature	-20 °C60 °C

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Feature	Value
Relative air humidity	0 - 95 % Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C60 °C
Impact energy in the end positions	0.0012 J
Max. driving torque	0.1 Nm
Max. torque Mx	0 Nm
Max. torque My	0.6 Nm
Max. torque Mz	0.6 Nm
Max. radial force on actuator shaft	30 N
Max. feed force Fx	75 N
No-load driving torque	0.055 Nm
Guide value for payload, horizontal	12 kg
Guide value for payload, vertical	6 kg
Mass moment of inertia JH per meter of stroke	0.0095 kgcm ²
Mass moment of inertia JL per kg of payload	0.0091 kgcm ²
Mass moment of inertia JO	0.0014 kgcm ²
Maintenance interval	Life-time 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	Wrought aluminum alloy Smooth anodized
Piston rod material	High-alloy stainless steel
Spindle nut material	Steel
Spindle material	Roller bearing steel