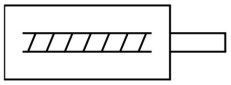
Electric actuator
ESBF-BS-100-400-40P

Part number: 574125





Data sheet

Feature	Value
Size	100
Stroke	400 mm
Piston rod thread	M20x1.5
Reversing backlash	40 µm
Screw diameter	40 mm
Spindle pitch	40 mm/U
Max. angle of rotation of the piston rod +/-	0.5 deg
Type code	ESBF
Based on norm	ISO 15552
Mounting position	Any
Piston rod end	External thread
Motor type	Servo motor
Position sensing	For proximity sensor
Design	Electric actuator with ball screw
Spindle type	Ball screw
Symbol	00991941
Protection against torsion/guide	With plain-bearing guide
Max. acceleration	25 m/s²
Max. speed	1.34 m/s
Repetition accuracy	±0.01 mm
Duty cycle	100%
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Storage temperature	-20 °C ... 60 °C
For use in the food industry	See supplementary material information
Relative air humidity	0 - 95 %
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
Max. driving torque	102.6 Nm
Max. radial force on actuator shaft	1100 N
Max. feed force Fx	14500 N
No-load driving torque	1 Nm
Guide value for payload, horizontal	1400 kg
Guide value for payload, vertical	1400 kg
Mass moment of inertia JH per meter of stroke	20.372 kgcm²
Mass moment of inertia JL per kg of payload	0.40528 kgcm²
Mass moment of inertia JO	6.1704 kgcm²

Feature	Value
Moving mass at 0 mm stroke	8786 g
Additional weight per 10 mm stroke	193 g
Basic weight with 0 mm stroke	11123 g
Additional moving mass per 10 mm stroke	132 g
Type of mounting	With internal thread or accessory
Interface code, actuator	D100
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Cover material	Cast aluminum Coated
Piston rod material	High-alloy stainless steel
Material of screws	Steel Galvanized
Spindle nut material	Roller bearing steel
Spindle material	Roller bearing steel
Material of cylinder barrel	Wrought aluminum alloy Smooth anodized