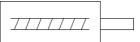
Electro-cylinder ESBF-LS-40-100-3P Part number: 8022586

FESTO

With lead screw, electrically actuated spindle that converts the rotary motion of the motor into linear motion of the piston rod.





Data sheet

Feature	Value	
Size	40	
Stroke	100 mm	
Piston rod thread	M12x1.25	
Reversing backlash	100 μm	
Spindle diameter	16 mm	
Spindle pitch	3 mm/U	
Max. angular deflection of piston rod +/-	0.2 deg	
Based on the standard	ISO 15552	
Assembly position	Any	
Piston-rod end	Male thread	
Motor type	Stepper motor	
motor type	Servomotor	
Position detection	For proximity sensor	
Design structure	Electro-cylinder with lead screw	
Spindle type	Plain thread	
Protection against torque/guide	with plain-bearing guide	
Max. acceleration	2.5 m/s2	
Max. speed	0.15 m/s	
Repetition accuracy	±0,05 mm	
Duty cycle	100 %	
Corrosion resistance classification CRC	2 - Moderate corrosion stress	
PWIS conformity	VDMA24364 zone III	
Storage temperature	-20 60 °C	
Food-safe	See Supplementary material information	
Relative air humidity	0 - 95 %	
Protection class	IP40	
Ambient temperature	0 50 °C	
Max. drive torque	2.4 Nm	
Max. radial force at drive shaft	130 N	
Max. feed force Fx	1,000 N	
No-load driving torque	0.2 Nm	
Reference value for working load, horizontal	100 kg	
Reference value for working load, vertical	100 kg	
Mass moment of inertia JH per meter of stroke	1.0187 kgcm2	
Mass moment of inertia JL per kg of working load	0.0063 kgcm2	
Mass moment of inertia JD per kg of working toau	0.1453 kgcm2	
Moving mass with 0 mm stroke	317 g	
Additional mass factor per 10 mm of stroke	11 g	
Basic weight for 0 mm stroke	1,079 g	
Additional weight per 10 mm stroke	48 g	
Mounting type	with internal (female) thread	
	or accessories	
Interface code, actuator	D40	



Feature	Value
Materials note	Conforms to RoHS
Material cover	Smooth anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material screws	Galvanized steel
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy