

Electric drive ESBF-LS-40-100-3P

Part number: 8022586

FESTO



Data sheet

Feature	Value
Working stroke	100 mm
Size	40
Stroke	100 mm
Piston rod thread	M12x1.25
Reversing backlash theoretical	100 µm
Spindle diameter	16 mm
Spindle pitch	3 mm/U
Torsional backlash at piston rod +/-	0.2 deg
Based on standard	ISO 15552
Mounting position	optional
Piston-rod end	Male thread
Type of motor	Stepper motor Servo motor
Position detection	Via proximity switch
Design	Electric cylinder with lead screw spindle
Spindle type	Lead screw
Protection against torque/guide	With plain-bearing guide
Max. acceleration	2.5 m/s ²
Max. rotational speed	1000 rpm
Max. speed	0.15 m/s
Repetition accuracy	±0.05 mm
Duty cycle	100%
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °C...60 °C
Suitable for use with food	See supplementary material information
Relative air humidity	0 - 95%
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
Max. drive torque	2.4 Nm
Max. radial force at drive shaft	130 N
Max. feed force Fx	1000 N

Feature	Value
Frictional torque independent of load	0.2 Nm
Reference value effective load, horizontal	100 kg
Reference value effective load, vertical	100 kg
Mass moment of inertia JH per metre of stroke	1.0187 kgcm ²
Mass moment of inertia JL per kg of working load	0.0063 kgcm ²
Mass moment of inertia JO	0.0449 kgcm ²
Moving mass for 0 mm stroke	317 g
Additional moving mass per 10 mm stroke	11 g
Basic weight for 0 mm stroke	1079 g
Additional weight per 10 mm stroke	48 g
Type of mounting	Via female thread Or accessories
Interface code, actuator	D40
Note on materials	RoHS-compliant
Material cover	Wrought aluminium alloy, smooth anodised
Material piston rod	High-alloy stainless steel
Material screws	Galvanised steel
Material spindle nut	Rolled steel
Material spindle	Rolled steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy