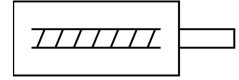


# Electric drive ESBF-BS-40-300-5P

Part number: 8022575

FESTO



## Data sheet

Feature	Value
Size	40
Stroke	300 mm
Piston rod thread	M12x1.25
Reversing backlash theoretical	30 µm
Spindle diameter	16 mm
Spindle pitch	5 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 ball screw
Spindle type	Ball screw
Protection against torque/guide	With plain-bearing guide
Max. acceleration	5 m/s <sup>2</sup>
Max. speed	0.42 m/s
Repetition accuracy	±0.01 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...60 °C
Max. drive torque	3 Nm
Max. radial force at drive shaft	130 N
Max. feed force Fx	3000 N
Frictional torque independent of load	0.2 Nm
Reference value effective load, horizontal	300 kg

<b>Feature</b>	<b>Value</b>
Reference value effective load, vertical	300 kg
Mass moment of inertia JH per metre of stroke	0.4601 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	0.0063 kgcm <sup>2</sup>
Mass moment of inertia JO	0.0504 kgcm <sup>2</sup>
Moving mass for 0 mm stroke	467 g
Additional moving mass per 10 mm stroke	26 g
Basic weight for 0 mm stroke	1237 g
Additional weight per 10 mm stroke	47 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