

Electric drive ESBF-BS-80-300-15P

Part number: 574109

FESTO



Data sheet

Feature	Value
Working stroke	300 mm
Size	80
Stroke	300 mm
Piston rod thread	M20x1.5
Reversing backlash theoretical	30 µm
Spindle diameter	32 mm
Spindle pitch	15 mm/U
Torsional backlash at piston rod +/-	0.5 deg
Based on standard	ISO 15552
Mounting position	optional
Piston-rod end	Male thread
Type of 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	15 m/s ²
Max. rotational speed	2515 rpm
Max. speed	0.7 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	33.7 Nm
Max. radial force at drive shaft	1100 N
Max. feed force Fx	12000 N

Feature	Value
Frictional torque independent of load	0.6 Nm
Reference value effective load, horizontal	1200 kg
Reference value effective load, vertical	1200 kg
Mass moment of inertia JH per metre of stroke	7.8147 kgcm ²
Mass moment of inertia JL per kg of working load	0.05699 kgcm ²
Mass moment of inertia JO	1.6478 kgcm ²
Maintenance interval	Life-time lubrication
Moving mass for 0 mm stroke	5300 g
Additional moving mass per 10 mm stroke	103 g
Basic weight for 0 mm stroke	7393 g
Additional weight per 10 mm stroke	155 g
Type of mounting	Via female thread Or accessories
Interface code, actuator	D80
Note on materials	RoHS-compliant
Material cover	Cast aluminium, coated
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