## electric cylinder ESBF-BS-100-100-5P Part number: 574115

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

## **Data sheet**

Feature	Value	
Size	100	
Stroke	100 mm	
Piston rod thread	M20x1,5	
Reversing backlash	30 µm	
Spindle diameter	40 mm	
Spindle pitch	5 mm/U	
Max. angular deflection of piston rod +/-	0.5 deg	
Based on the standard	ISO 15552	
Assembly position	Any	
Piston-rod end	Male thread	
Motor type	Servomotor	
Position detection	For proximity sensor	
Design structure	Electro-cylinder with ball screw	
Spindle type	Ball screw spindle	
Protection against torque/guide	with plain-bearing guide	
Max. acceleration	5 m/s2	
Max. speed	0.17 m/s	
Repetition accuracy	±0,01 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 60 °C	
Max. drive torque	16.9 Nm	
Max. radial force at drive shaft	1,100 N	
Max. feed force Fx	17,000 N	
No-load driving torque	0.7 Nm	
Reference value for working load, horizontal	1,700 kg	
Reference value for working load, vertical	1,700 kg	
Mass moment of inertia JH per metre of stroke	18.978 kgcm2	
Mass moment of inertia JL per kg of working load	0.00633 kgcm2	
Mass moment of inertia, JO	4.6963 kgcm2	
Moving mass with 0 mm stroke	5,300 g	
Additional mass factor per 10 mm of stroke	103 g	
Basic weight for 0 mm stroke	7,393 g	
Additional weight per 10 mm stroke	155 g	
Mounting type	with internal (female) thread	
	or accessories	
Interface code, actuator	D100	
Materials note	Conforms to RoHS	

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Feature	Value
Material cover	Die-cast aluminium, coated
Material piston rod	High alloy steel, non-corrosive
Material screws	Galvanised steel
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy