electric cylinder ESBF-BS-80-400-32P Part number: 574114

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

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Feature	Value		
Size	80		
Stroke	400 mm		
Piston rod thread	M20x1,5		
Reversing backlash	40 μm		
Spindle diameter	32 mm		
Spindle pitch	32 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	25 m/s2		
Max. speed	1.33 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	56.6 Nm		
Max. radial force at drive shaft	1,100 N		
Max. feed force Fx	10,003 N		
No-load driving torque	0.65 Nm	,	
Reference value for working load, horizontal	1,000 kg	1,000 kg	
Reference value for working load, vertical	1,000 kg		
Mass moment of inertia JH per metre of stroke	8.277 kgcm2		
Mass moment of inertia JL per kg of working load	0.25938 kgcm2		
Mass moment of inertia, JO	2.1197 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	D80		
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