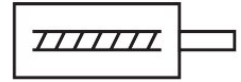


Electric cylinder EPRF-BS-86-300-15P-F-M1

Part number: 8211897

FESTO



Data sheet

Feature	Value
Size	86
Stroke	300 mm
Stroke reserve	0 mm
Piston rod thread	M12
Reversing backlash	100 µm
Screw diameter	32 mm
Spindle pitch	15 mm/U
Max. angle of rotation of the piston rod +/-	0.5 deg
Mounting position	Any
Piston rod end	Internal thread
Motor type	Servo motor
Position sensing	None
Structural design	Electric cylinder with ball screw
Spindle type	Ball screw
Protection against torsion/guide	With plain bearing-guide
Max. actuator speed	2000 rpm
Max. acceleration	15 m/s ²
Max. speed	500 m/s
Max. homing speed	0.01 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	4 - Particularly high corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Storage temperature	-20 °C...60 °C
For use in the food industry	See declaration of conformity
Relative air humidity	0 - 95% Non-condensating
Degree of protection	IP69K
Ambient temperature	-10 °C...60 °C

Feature	Value
Impact energy in the end positions	250 mJ
Max. driving torque	32.28 Nm
Max. torque Mx	0 Nm
Max. torque My	79.2 Nm
Max. torque Mz	79.2 Nm
Max. radial force on actuator shaft	900 N
Max. feed force Fx	12500 N
No-load driving torque	1.087 Nm
Guide value for payload, horizontal	1000 kg
Guide value for payload, vertical	500 kg
Mass moment of inertia JH per meter of stroke	6.6645 kgcm ²
Mass moment of inertia JL per kg of payload	0.057 kgcm ²
Mass moment of inertia JO	1.4303 kgcm ²
Reference service life	5000 km
Maintenance interval	Lifetime lubrication
Moving mass at 0 mm stroke	2408 g
Additional moving mass per 10 mm stroke	23.6 g
Basic weight with 0 mm stroke	7141 g
Additional weight per 10 mm stroke	104.3 g
Type of mounting	With internal thread
Note on materials	RoHS compliant
Cover cap material	high-alloy stainless steel
Cover material	high-alloy stainless steel
Seals material	TPE-U(PU)
Material of dynamic seals	TPE-U(PU)
Housing material	high-alloy stainless steel
Piston rod material	high-alloy stainless steel
Ball screw nut material	Steel
Spindle material	Bearing steel
Material of cylinder barrel	high-alloy stainless steel