

Electric cylinder EPCC-BS-60-400-12P-A

Part number: 5428912

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|--|
| Size | 60 |
| Stroke | 400 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M12x1.25 |
| Reversing backlash theoretical | 100 µm |
| Spindle diameter | 12 mm |
| Spindle pitch | 12 mm/U |
| Torsional backlash at piston rod +/- | 1 deg |
| Mounting position | Any |
| Piston-rod end | Male thread |
| Type of motor | Stepper motor Servo motor |
| Position detection | Via proximity switch |
| Design | With ball screw |
| Spindle type | Ball screw |
| Symbol | 00991941 |
| Protection against torque/guide | With plain-bearing guide |
| Max. acceleration | 15 m/s ² |
| Max. rotational speed | 3000 rpm |
| Max. speed | 0.6 m/s |
| Max. homing speed | 0.01 m/s |
| Repetition accuracy | ±0.02 mm |
| Duty cycle | 100% |
| Corrosion resistance class CRC | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 9 according to ISO 14644-1 |
| Storage temperature | -20 °C ... 60 °C |
| Relative air humidity | Non-condensing |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C ... 60 °C |
| Impact energy in end positions | 0.024 J |
| Max. drive torque | 2.4 Nm |
| Max. moment Mx | 0 Nm |
| Max. moment My | 6.4 Nm |
| Max. moment Mz | 6.4 Nm |

| Feature | Value |
|--|--|
| Max. radial force at drive shaft | 230 N |
| Max. feed force Fx | 1000 N |
| Frictional torque independent of load | 0.325 Nm |
| Reference value effective load, horizontal | 120 kg |
| Reference value effective load, vertical | 60 kg |
| Mass moment of inertia JH per metre of stroke | 0.1519 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.0365 kgcm ² |
| Mass moment of inertia JO | 0.0779 kgcm ² |
| Maintenance interval | Lifetime lubrication |
| Moving mass for 0 mm stroke | 305 g |
| Additional moving mass per 10 mm stroke | 6.5 g |
| Basic weight for 0 mm stroke | 1114 g |
| Additional weight per 10 mm stroke | 69 g |
| Type of mounting | With female thread With accessories |
| Note on materials | RoHS compliant |
| Material housing | Smooth-anodised |
| Material piston rod | High-alloy stainless steel |
| Material ball screw nut | Steel |
| Material spindle | Bearing steel |