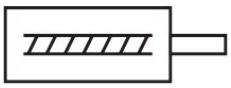
# Electric cylinder
# EPCC-BS-25-125-6P-A

Part number: 5428817





## Data sheet

| Feature | Value |
|---|---|
| Size | 25 |
| Stroke | 125 mm |
| Stroke reserve | 0 mm |
| Piston rod thread | M6 |
| Reversing backlash theoretical | 100 µm |
| Spindle diameter | 6 mm |
| Spindle pitch | 6 mm/U |
| Torsional backlash at piston rod +/- | 1 deg |
| Mounting position | optional |
| Piston-rod end | Male thread |
| Type of motor | Stepper motor<br>Servo motor |
| Position detection | Via proximity switch |
| Design | Electric cylinder<br>With ball screw drive |
| Spindle type | Ball screw drive |
| Protection against torque/guide | With plain-bearing guide |
| Max. acceleration | 15 m/s² |
| Max. rotational speed | 4000 rpm |
| Max. speed | 0.4 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 | 0 - 95%<br>Non-condensing |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C...60 °C |

| Feature | Value |
|---|---|
| Impact energy in end positions | 0.0012 J |
| Max. drive torque | 0.1 Nm |
| Max. moment Mx | 0 Nm |
| Max. moment My | 0.6 Nm |
| Max. moment Mz | 0.6 Nm |
| Max. radial force at drive shaft | 30 N |
| Max. feed force Fx | 75 N |
| Frictional torque independent of load | 0.055 Nm |
| Reference value effective load, horizontal | 12 kg |
| Reference value effective load, vertical | 6 kg |
| Mass moment of inertia JH per metre of stroke | 0.0095 kgcm² |
| Mass moment of inertia JL per kg of working load | 0.0091 kgcm² |
| Mass moment of inertia JO | 0.0014 kgcm² |
| Maintenance interval | Life-time lubrication |
| Moving mass for 0 mm stroke | 53 g |
| Additional moving mass per 10 mm stroke | 2.6 g |
| Basic weight for 0 mm stroke | 132 g |
| Additional weight per 10 mm stroke | 13 g |
| Type of mounting | With accessories |
| Note on materials | RoHS-compliant |
| Material housing | Wrought aluminium alloy<br>Smooth anodised |
| Material piston rod | High-alloy stainless steel |
| Material ball screw nut | Steel |
| Material spindle | Rolled steel |