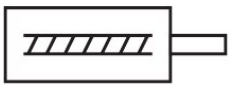
Electric drive
EPCC-BS-25-25-6P-A

Part number: 5428813



General operating condition

Data sheet

Feature	Value
Size	25
Stroke	25 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	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/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	Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
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

Feature	Value
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	Lifetime 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	Smooth-anodised
Material piston rod	High-alloy stainless steel
Material ball screw nut	Steel
Material spindle	Bearing steel