Rotary actuator
ERMO-25-ST-E

Part number: 3008527



Data sheet

Feature	Value
Size	25
Structural design	Electromechanical rotary actuator With integrated gearbox
Mounting position	Any
Type of mounting	With internal thread
Rotation angle	Infinite
Gear ratio	9:1
Nominal torque	2.5 Nm
Nominal rotary speed	66 rpm
Max. speed at 90°	150 rpm
Impact energy in the end positions	0.00016 J
Torsional backlash	0.2 deg
Repetition accuracy	±0.05°
Max. axial force	350 N
Max. radial force	450 N
Permissible mass moment of inertia	0.0065 kgm²
Product weight	1350 g
Step angle with full step	1.8 deg
Step angle tolerance	±5%
Mass moment of inertia JO	0.114 kgcm²
Duty cycle	100%
Nominal operating voltage DC	24 V
Brake DC operating voltage	24 V
Brake power consumption	8 W
Brake holding torque	2.5 Nm
Brake mass moment of inertia	0.013 kgcm²
Motor nominal current	3 A
Insulation protection class	B
Motor type	Stepper motor
Rotor position sensor	Incremental encoder
Rotor position sensor interface	RS422 TTL A/B channels + zero index
Rotor position sensor measuring principle	Optical

Feature	Value
Electrical connection technology	Plug
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Interface code, base	E8-55
Degree of protection	IP40
Storage temperature	-20 °C...60 °C
Ambient temperature	0 °C...50 °C
Relative air humidity	0 - 85% Non-condensating
LABS (PWIS) conformity	VDMA24364 Zone III
Note on materials	RoHS compliant
Material of flange	Wrought aluminum alloy Anodized
Housing material	Wrought aluminum alloy Anodized