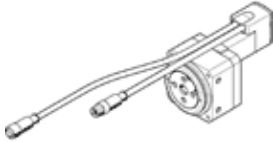


# Rotary drive ERMO-16-ST-E

Part number: 3008526

FESTO

With stepper motor, integrated gear unit and measuring unit encoder.



## Data sheet

Feature	Value
Size	16
Design structure	Electromechanical rotary drive With integrated gearing
Assembly position	Any
Mounting type	with internal (female) thread
Rotation angle	Endless
Gear unit ratio	9:1
Nominal torque	0.8 Nm
Nominal rotary speed	100 1/min
Max. speed at 90°	200 1/min
Impact energy in end positions	0.00007 J
Torsional backlash	0.2 deg
Repetition accuracy	±0,05 °
Max. axial force	290 N
Max. radial force	300 N
Permissible mass moment of inertia	0.0013 kgm <sup>2</sup>
Product weight	900 g
Stepper angle at full step	1.8 deg
Stepper angle tolerance	±5 %
Mass moment of inertia, JO	0.0383 kgcm <sup>2</sup>
Duty cycle	100 %
Nominal operating voltage DC	24 V
Operating voltage DC for brake	24 V
Power consumption, brake	8 W
Brake holding torque	1 Nm
Mass moment of inertia of brake	0.0069 kgcm <sup>2</sup>
Nominal motor current	1.4 A
Insulation protection class	B
Motor type	Stepper motor
Rotor position sensor	Incremental encoder
Rotary position encoder interface	RS422 TTL AB-channel + zero index
Rotary position encoder measuring principle	Optical
Electrical connector system	Plug
Authorisation	RCM Mark
CE mark (see declaration of conformity)	to EU directive for EMC in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Bending radius, fixed cable installation	≥ 60 mm
Interface code, base	E8-45
Protection class	IP40
Storage temperature	-20 ... 60 °C
Ambient temperature	0 ... 50 °C
Relative air humidity	0 - 85 %

Feature	Value
	non-condensing
PWIS conformity	VDMA24364 zone III
Materials note	Conforms to RoHS
Material flange	Wrought Aluminium alloy Anodised
Material housing	Wrought Aluminium alloy Anodised