

Rotary gripper module EHMD-40-RE-GP

Part number: 4790698

FESTO



 General operating condition

Data sheet

Feature	Value
Size	40
Rotation angle	Infinite
Stroke per gripper jaws	5 mm
Step angle full step, rotation	1.8 deg
Step angle tolerance, rotation	±5%
Number of gripper jaws	2
Mounting position	optional
Design	Electric rotary drive Pneumatic gripper
Mode of operation	Electric parallel gripper
Operating mode, rotation	Hybrid stepper motor
Gear unit ratio	1:1
Position detection	Rotation: motor encoder Gripping: slot for proximity switch
Gripper function	Parallel
Type of motor	Stepper motor
Referencing	Rotation: encoder index
Rotor position sensor	Incremental encoder
Rotor position encoder interface	RS422 TTL AB channels + zero index
Rotor position sensor, encoder measuring principle	Optical
Operating pressure	1.5 bar ... 8 bar
Max. drive output speed	240 rpm
Duty cycle	100%
Insulation protection class	B
Max. current consumption, rotation	<60 mA
Nominal operating voltage DC	24 V
Nominal operating voltage DC, rotation	5 V
Nominal voltage DC	24 V
Winding inductance phase, rotation	11 mH
Winding resistance phase, rotation	5.8 Ohm
Pulses per revolution, rotation	500
Nominal current per phase, rotation	0.9 A
Approval	RCM trademark
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive

Feature	Value
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °C ... 70 °C
Relative air humidity	Non-condensing
Degree of protection	IP20
Ambient temperature	0 °C ... 40 °C
Gripper force per gripper jaw, closing, 0.6 MPa (6 bar, 87 psi)	25 N
Gripping force per gripper jaw	5 N ... 35 N
Holding torque motor, rotation	0.3 Nm
Mass moment of inertia, rotation	0.125 kgcm ²
Max. output torque	0.3 Nm
Max. force on gripper jaw Fz static	30 N
Max. torque at gripper Mx static	0.7 Nm
Max. torque at gripper My static	1.5 Nm
Max. torque at gripper Mz static	0.7 Nm
Max. nominal load	0.25 kg
Feed constant	1.48 mm/U
Product weight	577 g
Electrical connection 1, function	2x encoder 2x motor
Electrical connection 1, connection type	Plugs
Electrical connection 1, connector system	Connection pattern F1
Electrical connection 1, number of connections/cores	31
Electrical connection 1, connection pattern	00995929
Type of mounting	Via dovetail slot
Pneumatic connection	QS-4
Note on materials	RoHS-compliant
Material cover	PA
Material housing	Anodised wrought aluminium alloy