

# 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 jaw	5 mm
Step angle full step, rotation	1.8 deg
Stepping angle tolerance, rotation	±5%
Number of gripper jaws	2
Mounting position	Any
Structural design	Electric rotary actuator Pneumatic gripper
Mode of operation	Electric parallel gripper
Mode of operation, rotation	Hybrid stepper motor
Gear ratio	1:1
Position sensing	Turning: Motor encoder Gripping: slot for proximity sensor
Gripper function	Parallel
Motor type	Stepper motor
Homing	Turning: Encoder index
Rotor position sensor	Incremental encoder
Rotor position sensor interface	RS422 TTL A/B channels + zero index
Rotor position sensor measuring principle	Optical
Operating pressure	1.5 bar ... 8 bar
Max. 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
DC nominal voltage	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
Certification	RCM compliance mark
KC characters	KC-EMV
CE marking (see declaration of conformity)	As per EU EMC directive As per 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 as per FN 942017-4 and EN 60068-2-6
LABS (PWIS) conformity	VDMA24364 Zone III
Storage temperature	-20 °C ... 70 °C
Relative air humidity	Non-condensating
Degree of protection	IP20
Ambient temperature	0 °C ... 40 °C
Gripping force per gripper jaw at 6 bar, closing	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 <sup>2</sup>
Max. output torque	0.3 Nm
Maximum force on gripper jaw Fz, static	30 N
Maximum torque on gripper jaw, Mx static	0.7 Nm
Maximum torque on gripper jaw, My static	1.5 Nm
Maximum torque on gripper jaw, Mz static	0.7 Nm
Maximum rated 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	Plug
Electrical connection 1, connection technology	Connection pattern F1
Electrical connection 1, number of pins/wires	31
Electrical connection for input 1, connection pattern	00995929
Type of mounting	With dovetail slot
Pneumatic connection	QS-4
Note on materials	RoHS compliant
Cover material	PA
Housing material	Wrought aluminum alloy, anodized