

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 | Any |
| 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 | Turning: Motor encoder Gripping: slot for proximity switch |
| Gripper function | Parallel |
| Type of motor | Stepper motor |
| Referencing | Turning: 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 |
| 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 | Plug |
| 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 | Process automation |
| Material housing | Anodised wrought aluminium alloy |