

Parallel gripper HEPP-28-30-EC-B

Part number: 8146667

FESTO



Data sheet

| Feature | Value |
|---|--|
| Size | 28 |
| Complete stroke | 30 mm |
| Stroke per gripper jaw | 15 mm |
| Max. gripper jaw backlash Sz | 0.35 mm |
| Pneumatic gripper repetition accuracy | 0.02 mm |
| Number of gripper jaws | 2 |
| Actuator system | Electrical |
| Mounting position | Any |
| Controller operating mode | Interpolating mode via fieldbus |
| Gripper function | Parallel |
| Structural design | Toothed belt Electric gripper with brake with ball screw |
| Guide | Roller guide |
| Position sensing | Motor encoder |
| Configuration support | ESI file |
| Variants | Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Ready status indication | LED |
| Positioning speed per gripper finger | 40 mm/s |
| Positioning acceleration per gripper finger | 1 m/s ² |
| Gripping speed per gripper finger | 3 mm/s |
| No. of MAC addresses | 4 |
| Max. current consumption | 3000 mA |
| Max. load current consumption | 2 A |
| Logic max. current consumption | 1 A |
| Nominal operating voltage DC | 24 V |
| Nominal voltage, logic supply DC | 24 V |
| Nominal voltage, load supply DC | 24 V |
| Motor nominal current | 0.9 A |
| Load supply permissible range | ± 10 % |

| Feature | Value |
|--|--|
| Permissible range of logic voltage | ± 10 % |
| KC characters | KC EMC |
| 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 |
| Shock resistance | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Suitability for the production of Li-ion batteries | Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | Class 6 according to ISO 14644-1 |
| Vibration resistance | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Relative air humidity | 0 - 95 % Non-condensing |
| Noise level | 60 dB(A) |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C...50 °C |
| Total gripping force | 320 N |
| Gripping force per gripper jaw | 160 N |
| Mass moment of inertia | 30 kgcm ² |
| Maximum force on gripper jaw Fz, static | 680 N |
| Maximum torque on gripper jaw, Mx static | 6.5 Nm |
| Maximum torque on gripper jaw, My static | 14.5 Nm |
| Maximum torque on gripper jaw, Mz static | 6.5 Nm |
| Nominal torque | 0.115 Nm |
| Relubrication interval for guidance elements | 1 MioCyc |
| Product weight | 1400 g |
| Communication profile | CiA402 EoE (Ethernet over EtherCAT) FoE (File over EtherCAT) |
| Fieldbus interface, connection type | Socket |
| Fieldbus interface, connection technology | M12x1, D-coded as per EN 61076-2-101 |
| Fieldbus interface, number of poles/wires | 4 |
| Fieldbus interface, protocol | EtherCAT |
| Electrical connection | 2x M12 |
| Fieldbus coupling | EtherCAT |
| Type of mounting | With internal thread and centering sleeve |
| Note on materials | RoHS-compliant |
| Housing material | Aluminum, anodized |
| Gripper jaw material | Steel |