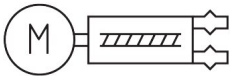
# Parallel gripper
# HEPP-28-30-EC-B

Part number: 8146667






## Data sheet

| Feature | Value |
|---|---|
| Size | 28 |
| Total stroke | 30 mm |
| Stroke per gripper jaws | 15 mm |
| Max. gripper jaw clearance Sy | 0.35 mm |
| Repetition accuracy in ± mm | 0.04 mm |
| Number of gripper jaws | 2 |
| Drive system | Electrical |
| Mounting position | Any |
| Controller operating mode | Interpolated mode via fieldbus |
| Gripper function | Parallel |
| Design | Toothed belt<br>Electric gripper<br>With brake<br>With ball screw |
| Guide | Roller bearing guide |
| Position detection | Motor encoder |
| Configuration support | ESI file |
| Variants | Metals with copper, zinc or nickel by mass 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. |
| Rotor position sensor | Absolute encoder, single turn |
| Rotor position sensor, encoder measuring principle | magnetic |
| Ready status indication | LED |
| Positioning speed per gripper finger | 40 mm/s |
| Positioning acceleration per gripper finger | 1 m/s² |
| Gripping speed per gripper finger | 3 mm/s |
| Number of MAC addresses | 4 |
| Max. current consumption | 3000 mA |
| Max. current consumption, load | 2 A |
| Max. current consumption, logic | 1 A |
| Nominal operating voltage DC | 24 V |
| Nominal voltage for logic power supply DC | 24 V |

| Feature | Value |
|---|---|
| Nominal voltage load voltage DC | 24 V |
| Nominal motor current | 0.9 A |
| Permissible range for load power supply | ±10% |
| Permissible range for logic voltage | ±10% |
| KC mark | KC-EMV |
| CE mark (see declaration of conformity) | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions |
| Shock resistance | Shock test with severity level 2 to 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 | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1 |
| Vibration resistance | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 |
| Relative air humidity | 0 - 95%<br>Non-condensing |
| Sound pressure 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 kgcm² |
| Max. force on gripper jaw Fz static | 680 N |
| Max. torque at gripper Mx static | 6.5 Nm |
| Max. torque at gripper My static | 14.5 Nm |
| Max. torque at gripper Mz static | 6.5 Nm |
| Rated load | 1 kg |
| Nominal torque | 0.115 Nm |
| Lubrication interval for guide components | 1 MioCyc |
| Product weight | 1400 g |
| Communication profile | CiA402<br>EoE (Ethernet over EtherCAT)<br>FoE (File over EtherCAT) |
| Field bus, connection type | Socket |
| Field bus, connection system | M12x1, D-coded to EN 61076-2-101 |
| Field bus, connection pattern | 4 |
| Field bus, protocol | EtherCAT® |
| Electrical connection | 2x M12 |
| Fieldbus link | EtherCAT® |
| Type of mounting | Via female thread and centring sleeve |
| Note on materials | RoHS compliant |
| Material housing | Anodised aluminium |
| Material gripper jaws | Steel |