## Parallel gripper HGPT-80-A-B-G1 Part number: 560235







## **Data sheet**

General operating condition

| Feature                                       | Value  |
|---|--|
| Size  | 80   |
| Stroke per gripper jaw                        | 25 mm  |
| Max. interchangeability                       | ≤0.2 mm  |
| Max. gripper jaw angular play ax, ay          | ≤0.1 deg   |
| Max. gripper jaw backlash Sz                  | ≤0.02 mm   |
| Rotational symmetry                           | ≤0.2 mm  |
| Pneumatic gripper repetition accuracy         | ≤0.05 mm   |
| Number of gripper jaws                        | 2  |
| Actuator system                               | Pneumatic  |
| Mounting position                             | Any  |
| Mode of operation                             | Double-acting Double-acting  |
| Gripper function                              | Parallel   |
| Gripping force backup                         | On opening   |
| Structural design                             | Inclined plane<br>Positively driven motion sequence                |
| Position sensing                              | For proximity sensor   |
| Symbol  | 00995947   |
| Operating pressure                            | 4 bar 8 bar  |
| Operating pressure for sealing air            | 0 bar 0.5 bar  |
| Max. operating frequency of pneumatic gripper | ≤2 Hz  |
| Min. opening time at 6 bar                    | 182 ms   |
| Min. closing time at 6 bar                    | 353 ms   |
| Max. mass per external gripper finger         | 1830 g   |
| Operating medium                              | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media      | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)              | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                        | VDMA24364-B1/B2-L  |
| Degree of protection                          | IP40   |
| Ambient temperature                           | 5 °C 60 °C   |
| Mass moment of inertia                        | 238.336 kgcm²  |
| Maximum force on gripper jaw Fz, static       | 7000 N   |
| Maximum torque on gripper jaw, Mx static      | 180 Nm   |
| Maximum torque on gripper jaw, My static      | 220 Nm   |
| Maximum torque on gripper jaw, Mz static      | 170 Nm   |
| Relubrication interval for guidance elements  | 5 MioCyc   |

| Feature                          | Value  |
|----------------------------------|--|
| Product weight                   | 6287 g   |
| Type of mounting                 | Optionally: With internal thread and centering sleeve Via through-hole and centering sleeve With through-hole and dowel pin With internal thread and dowel pin |
| Sealing air pneumatic connection | M5   |
| Pneumatic connection             | G1/4   |
| Note on materials                | RoHS-compliant   |
| Cover cap material               | High-alloy stainless steel   |
| Housing material                 | Aluminum, anodized   |
| Gripper jaw material             | Hardened steel   |