

PSD 43 - Shaft 14 mm hollow

- Software features: spindle compensation drive, increased breakaway performance, synchronized run
- Software modules for IO-Link: changeover of parameter set, target speed in process data and modulo function
- Protection of internal electronics against manual operation
- Space-saving, compact design
- Galvanically separated supply voltages between control and motor and bus
- Precise position feedback thanks to an absolute measurement system without battery
- Optional gearbox for more torque
- Address may be set using the bus or an address switch (not for IO-Link)
- Status LEDs visible from the outside



Self-holding torque below at approx. 100 mA supply current and 1,2 A phase current, currentless 0 Nm.

Dimensions in mm.

See link Manual(s) for documentation and software.

Type: Vertical

Nominal Voltage (V DC): 24 (± 10 %)

Nominal Current (A): 4.0

Output Shaft (mm): 14

Output Shaft Type: Hollow

Rotation Shaft / Housing: Direct or 0°; 90°; 180°; 270°

BUS Communication: Can Open (CA); IO-Link (IO); ProfiNet (PN); EtherCat (EC); Ethernet IP (EI)

Electrical connection: 0: Standard

Protection Class: IP50; IP65

Motor: Stepper motor

Supply Voltage: 24 V DC ± 10 % galvanically separated between motor and control

Measurement System: Absolute without battery

Accuracy: "±0.7 ° for versions with gearbox; ± 1.8 ° for versions without gearbox"

Intermittence: Start-up duration up to 30%

Manual Adjustment: No

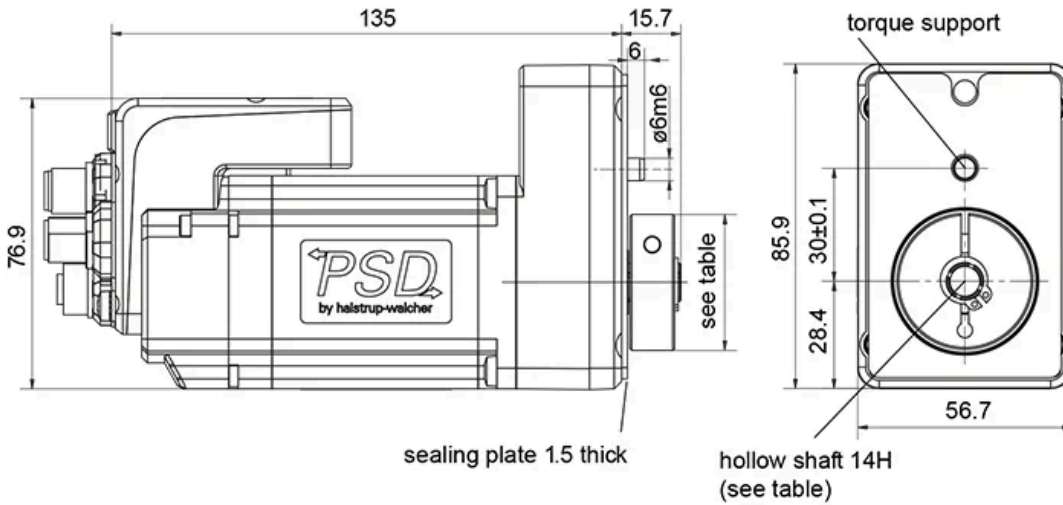
Brake: No

Performance Curve - Direct Drives PSD



General Data

PSD 432-14H (hollow shaft, 2 Nm)



| Hollow shaft | Tolerance | Plug depth | ø Clamp ring | Cylinder screw |
|--------------|-----------|------------|--------------|-----------------|
| ø14 | H7 | 20 | 35 | DIN 912 M4 x 16 |

| Designation | Nominal Torque (Nm) | Nominal Speed (rpm) | Nominal Current (A) | Self-holding Torque (Nm) | Max. Speed (rpm) |
|-------------|---------------------|---------------------|---------------------|--------------------------|------------------|
| PSD 432-14H | 2 | 200 | 4.0 | 1 | 500 |
| PSD 436-14H | 6 | 63 | 4.0 | 3 | 300 |
| PSD 438-14H | 8 | 50 | 4.0 | 4 | 250 |

| Designation | Positioning Range (rot.) |
|-------------|--------------------------|
| PSD 432-14H | 4026 |
| PSD 436-14H | 1274 |

| Designation | Positioning Range (rot.) |
|-------------|--------------------------|
| PSD 438-14H | 977 |