

## PSE 31 - Shaft 8 mm hollow

- Absolute measuring system
- Position control for direct connection to a control module
- Space-saving, compact design
- Galvanically separated supply voltages between control and motor and bus
- Durable EC-motor
- Extremely accurate positioning due to measurement of the position at the output side
- Bus interfaces simplify start-up and wiring complexity
- Address may be set using the bus or an address switch (not for IO-Link)
- Baud rate set via switch
- Status messages retrievable via bus
- Partial safety function for STO (Safe Torque Off)



Dimensions in mm.

**Type:** Vertical

**Nominal Torque (Nm):** 1; 2; 5

**Nominal Speed (rpm):** 40; 115; 210

**Nominal Voltage (V DC):** 24 ( $\pm 10\%$ )

**Nominal Current (A):** 2.2

**Output Shaft (mm):** 8

**Output Shaft Type:** Hollow

**BUS Communication:** Can Open (CA); Profi Bus (DP); Device Net (DN); Modbus (MB); IO-Link (IO); ProfiNet (PN); Sercos (SE); EtherCat (EC); Ethernet IP (EI); PowerLink (PL)

**Electrical connection:** "Standard; with jog keys; 1 connector Y-encoded or 1 connector Y-encoded with jog keys"

**Protection Class:** IP54; IP65

**Motor:** EC-motor

**Supply Voltage:** 24 V DC  $\pm 10\%$  galvanically separated between control and motor and bus

**Measurement System:** Absolute, optical-magnetic

**Accuracy:**  $\pm 0.9^\circ$

**Intermittence:** 30% (basis time 300 s)

**Manual Adjustment:** No

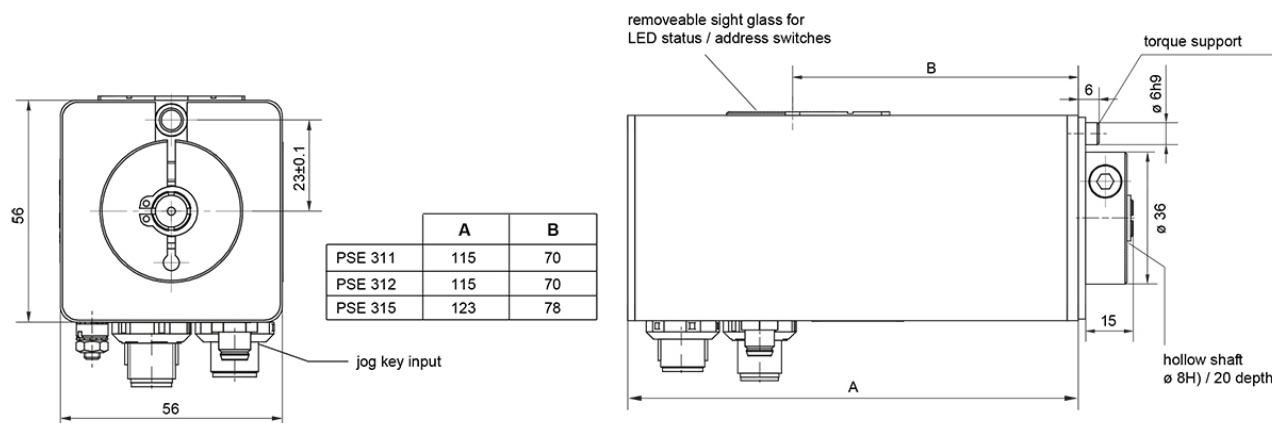
**Brake:** No

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Performance Curve - Direct Drives PSE



## General Data



| Designation | Nominal Torque (Nm) | Nominal Speed (rpm) | Nominal Current (A) | Self-holding Torque (Nm) | Positioning Range (rot.) |
|-------------|---------------------|---------------------|---------------------|--------------------------|--------------------------|
| PSE 311-8   | 1                   | 210                 | 2.2                 | 0.5                      | 250                      |
| PSE 312-8   | 2                   | 115                 | 2.2                 | 1                        | 250                      |
| PSE 315-8   | 5                   | 40                  | 2.2                 | 2.5                      | 250                      |