### PSW 31 - Shaft 8 mm hollow

- Positioning system with IP 68
- · Absolute measuring system, without battery
- Galvanically separated supply voltages between control and motor and bus
- Absolute encoder eliminates the need for reference runs during system setup and installation of replacements
- Easy address assignment directly on the device using integrated address switches (not for IO-Link)
- Manual disconnecting lever permits manual disconnection of the gearbox
- Regulation of the current torque prevents overloading and unnecessary run aborts
- Strong breakaway torque enables safe start-up even after an extended standstill
- Intelligent running behaviour. Recognises the difference between obstacles and dirt
- Spindle offset run: Excludes inconsistencies due to lash in the spindle
- Condition monitoring of supply voltage, drag error (permits optimum adjustment of current position), power consumption and torque
- Partial safety function for STO (Safe Torque Off)

#### Dimensions in mm.

Type: Vertical

Nominal Torque (Nm): 1; 2; 5 Nominal Speed (rpm): 35; 100; 180 Nominal Voltage (V DC): 24 (± 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: IP68 Motor: EC-motor

Supply Voltage: 24 V DC ± 10 % galvanically separated

between control and motor and bus

Measurement System: Absolute, optical-magnetic

Accuracy: ± 0.9°

Intermittence: 20% (basis time 600 s)

Manual Adjustment: No

Brake: No

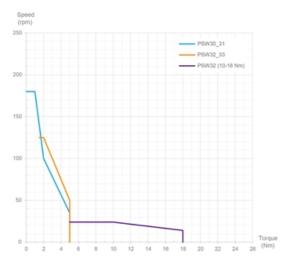
Material: All components in stainless steel. (Except for

feather key, if available.)

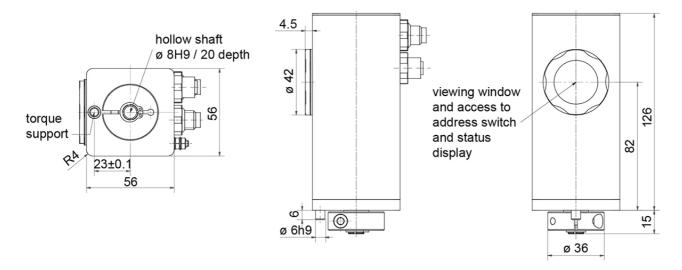


# PSW 31 - Shaft 8 mm hollow

### Performance Curve - Direct Drives PSW



## **General Data**



| Designation | Nominal Torque<br>(Nm) | Nominal Speed<br>(rpm) | Nominal Current (A) | Self-holding Torque<br>(Nm) | Positioning Range (rot.) |
|-------------|------------------------|------------------------|---------------------|-----------------------------|--------------------------|
| PSW 311-8H  | 1                      | 180                    | 2.2                 | 0.5                         | 250                      |
| PSW 312-8H  | 2                      | 100                    | 2.2                 | 1                           | 250                      |
| PSW 315-8H  | 5                      | 35                     | 2.2                 | 2.5                         | 250                      |