



PSD 411-8H-1 (1 Nm, 8 mm hollow shaft without gearbox)



PSD 401-5V-S

IP 50

IP 65

40x

41x

PSD 40_/41_	Nominal torque	Self-holding torque ¹⁾ (currented)	Nominal rated speed ²⁾	Positioning range
1-5V	0.8 Nm	0.4 Nm	200 rpm	4026 rot.
1-8H	0.8 Nm	0.4 Nm	200 rpm	4026 rot.
1-14H	0.8 Nm	0.4 Nm	200 rpm	4026 rot.
3-8H	3 Nm	1.5 Nm	50 rpm	986 rot.
3-14H	3 Nm	1.5 Nm	50 rpm	986 rot.

¹⁾ at approx. 60 mA supply current and 0.5 A phase current, currentless 0 Nm

²⁾ at rated torque, speed limitation see characteristic curve

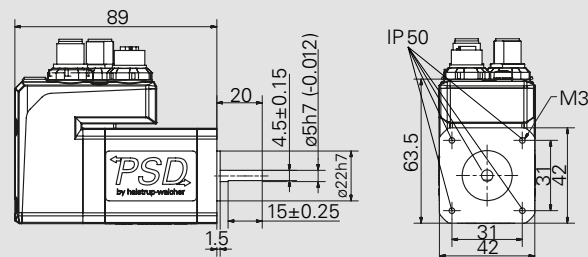
Bus communication

CANopen, IO-Link, PROFINET

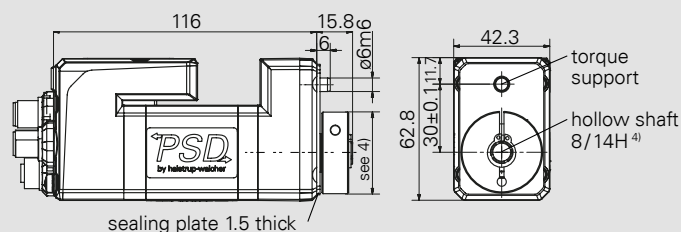
Start-up duration	up to 50% (depending on operating point)
Mode of operation	S3
Supply voltage	24 VDC $\pm 10\%$ galvanically separated between motor and control
Power consumption	max. 48 W
Nominal current	2.0 A
Power consumption (control unit)	0.1 A
Positioning accuracy	$\pm 1.8^\circ$
Absolute measurement system	magnetic, without reference run, without buffer battery
Shock resistance in accordance with IEC/DIN EN 60068-2-27	half sinus (3 axes) 50 g 11 ms ± 3 shocks/axle
Vibration resistance in accordance with IEC/DIN EN 60068-2-6	sliding sinus (1 octave/min, 3 axes) 10..2000 Hz 50 m/s ² (approx. 5 g) 10 frequency cycles
Output shaft	5 mm solid shaft with flattening or 8/14 mm hollow shaft ⁴⁾ with torque support
Maximum axial force	15 N, 20 N with attached housing
Maximum radial force	40 N
Ambient temperature	0..40 °C
Storage temperature	-10..70 °C
Protection class	IP50 or IP65 ³⁾
Weight	max. 1.1 kg (0.8 kg without gearbox)
Certificates	CE

³⁾ IP65 installed (motor shaft IP50)

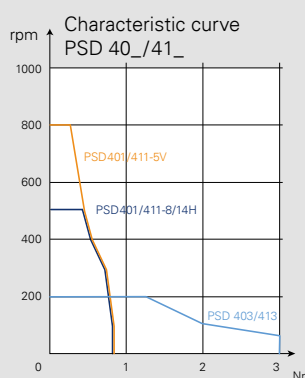
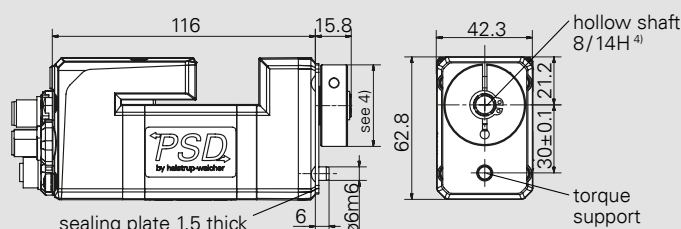
PSD 401-5V (solid shaft)



PSD 411-8/14H (hollow shaft, 1 Nm)



PSD 413-8/14H (hollow shaft, 3 Nm)



4) Hollow shaft	ø8	ø14
Tolerance	H9	H7
Plug depth	20	
ø Clamp ring	36	35
Cylinder screw	DIN 912 M4x16	

Dimensions in mm

ORDER KEY DIRECT DRIVES PSD

Order key	A	B	C	D	E	F	G
PSD							

A Type		B Torque / Output shaft	C Rotation shaft / Housing	D Bus communication	E Electrical connections ¹⁾	F Protection class	G Measurement system
	40: horizontal	1-5V 1-8H 1-14H 3-8H 3-14H	S: direct or 0° 1: 90° 2: 180° 3: 270°	CA: CANopen IO: IO-Link PN: PROFINET	0: standard	50: IP50 65: IP65 ²⁾	1: absolute
	41: vertical						
	42: horizontal	2-8V 2-8H 2-14H 6-14H 8-14H					
	43: vertical						

¹⁾ **Standard equipment**
3 plugs/sockets
with IO-Link: 1 plug

²⁾ IP65 installed
(motor shaft IP50)

B			C			
Key	Torque	Output shaft	Rotation shaft/Housing			
B1-B2	B1	B2	S	1	2	3
1-5V	1: 0.8 Nm	5V: 5 mm solid shaft		-	-	-
1-8H 1-14H	1: 0.8 Nm	8H: 8 mm hollow shaft 14H: 14 mm hollow shaft	 	 	 	 
3-8H 3-14H	3: 3 Nm	8H: 8 mm hollow shaft 14H: 14 mm hollow shaft	 	 	 	 
2-8V	2: 2 Nm	8V: 8 mm solid shaft		-	-	-
2-8H 2-14H	2: 2 Nm	8H: 8 mm hollow shaft 14H: 14 mm hollow shaft	 	 	 	
6-14H	6: 6 Nm	14H: 14 mm hollow shaft	 	 	 	
8-14H	8: 8 Nm					