



PSD 48x/49x	Nominal torque / Nominal rated speed ¹⁾	Self-holding torque (energized)	Max. speed	Positioning range ²⁾
0-5V	0.25 Nm/200 min ⁻¹	0.125 Nm	800 min ⁻¹	4026 rot.
0-8H	0.25 Nm/200 min ⁻¹	0.125 Nm	500 min ⁻¹	4026 rot.
0-14H	0.25 Nm/200 min ⁻¹	0.125 Nm	500 min ⁻¹	4026 rot.
1-8H	1 Nm/50 min ⁻¹	0.5 Nm	250 min ⁻¹	986 rot.
1-14H	1 Nm/50 min ⁻¹	0.5 Nm	250 min ⁻¹	986 rot.

¹⁾ at nominal supply voltage

²⁾ not subject to mechanical limits

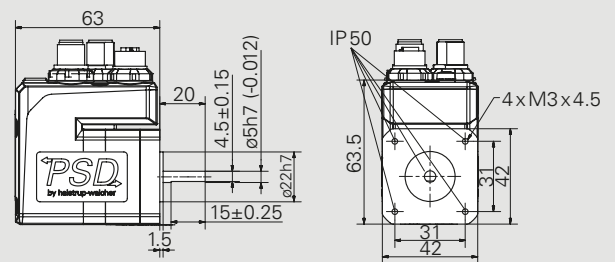
Mode of operation	S1 ³⁾ , S3
Supply voltage	24 VDC $\pm$ 10 % galvanically separated between motor and control
Rated current	2.0 A
Power consumption (control unit)	0.1 A
Positioning accuracy	$\pm 0.7^\circ$ for 1 Nm $\pm 1.8^\circ$ for 0.25 Nm
Absolute measurement system	magnetic, without reference run, without buffer battery
Shock resistance in accordance with IEC/DIN EN 60068-2-27	50 g 11 ms ± 3 shocks pos./neg. per axis
Vibration resistance in accordance with IEC/DIN EN 60068-2-6	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
Max. axial force	15 N, 20 N with attached housing
Max. radial force	40 N
Ambient temperature	0..40 °C
Storage temperature	-10..70 °C
Protection class	IP 50 or IP 65 ⁵⁾
Housing	Aluminum, Silicon steel, Zinc
Weight	max. 850 g (550 g without gearbox)
Certificates	CE/UKCA, optional: NRTL

³⁾ Use in continuous operation S1 must be checked depending on the application. Please contact our sales department for more information.

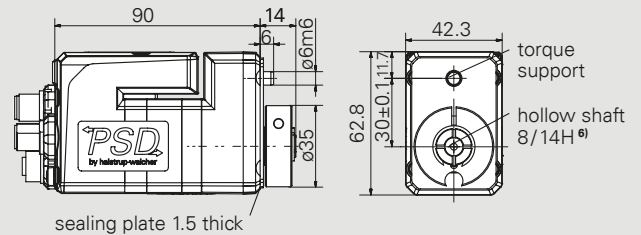
⁴⁾ see table next to the characteristic curve

⁵⁾ Shaft feed-through (solid shaft) IP50, for further information see instruction manual

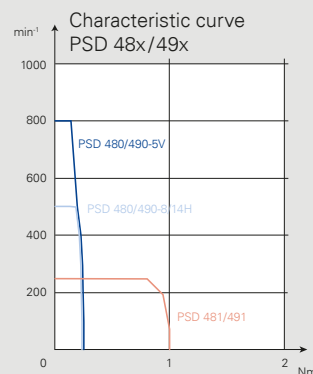
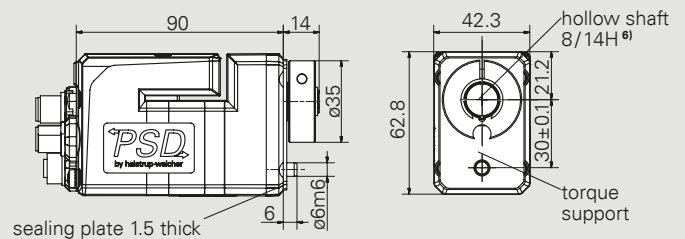
PSD 480-5V (solid shaft)



PSD 490-8H / -14H (hollow shaft, 0.25 Nm)



PSD 491-8H / -14H (hollow shaft, 1 Nm)



⁶⁾ Hollow shaft

	ø8	ø14
Tolerance	H7	
Plug depth	20	
Cylinder screw	DIN 912 M4x16	

Dimensions in mm



Order code PSD 4 series

Order code	A	B	C	D	E	F	G	H
PSD								

A	B	C	D	E	F	G	H
Type	Torque/ Output shaft	Rotation shaft/ Housing	Bus communication ¹⁾	Electrical connections	Protection class	Software modules	Certificates
 40: horizontal	1-5V 1-8H 1-14H	S: direct or 0° 1: 90° 2: 180° 3: 270°	CA: CANopen IO: IO-Link PN: PROFINET EC: EtherCAT EI: EtherNet/ IP	0: standard ²⁾	50: IP 50 65: IP 65 ³⁾	1: standard M: with modulo function ⁴⁾ S: with changeover of parameter set ⁴⁾ P: with target speed in process data ⁴⁾ Z: with modulo function and changeover of pa- rameter set and target speed in process data ⁴⁾	0: CE / UKCA N: NRTL + CE / UKCA
 41: vertical	with gearbox: 3-8H 3-14H						
 42: horizontal	2-8V 2-8H 2-14H						
 43: vertical	with gearbox: 4-14H 6-14H 8-14H						
 48: horizontal	0-5V 0-8H 0-14H						
 49: vertical	with gearbox: 1-8H 1-14H						

B			C
Key	Torque	Output shaft	Rotation shaft/Housing
B1-B2	B1	B2	S 1 2 3
direct	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	   
with gearbox	3-8H 3-14H	3: 3 Nm 8H: 8 mm hollow shaft 14H: 14 mm hollow shaft	   
direct	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	   
with gearbox	4-14H 6-14H 8-14H	4: 4 Nm 6: 6 Nm 8: 8 Nm 14H: 14 mm hollow shaft	   
direct	0-5V	0: 0.25 Nm 5V: 5 mm solid shaft	
	0-8H 0-14H	0: 0.25 Nm 8H: 8 mm hollow shaft 14H: 14 mm hollow shaft	   
with gearbox	1-8H 1-14H	1: 1 Nm 8H: 8 mm hollow shaft 14H: 14 mm hollow shaft	   

¹⁾ others on request²⁾ standard equipment: 3 plugs / sockets
with IO-Link: 1 plug³⁾ Shaft feed-through (solid shaft) IP50,
for further information see instruction manual⁴⁾ only for IO-Link devices

To place your order, please call us at

+49 7661 3963-0 or email us at**info@halstrup-walcher.com.**

For additional contacts, please visit

www.halstrup-walcher.de/en/contact



Accessories for our direct drives

The connectors shown here can be used for all direct drives of the PSD 4xx series. We are happy to help you find the right accessories, please contact us directly.

Buscommunication	Power supply (+ databus connector) (for option 0) ¹⁾	Cable
CANopen	 Connector set: Order no. 9601.0060	on request  
EtherCAT	 Connector set: Order no. 9601.0112	
PROFINET		
EtherNet / IP		
IO-Link	 Connector: Order no. 9601.0107	

¹⁾ see in order code under E

On request, we offer suitable adapter sleeves for adaptation to different spindle diameters.

Software

Use our function blocks, description files or commissioning tools for the various industrial protocols. You can download the files under www.halstrup-walcher.de/en/software. To do this, enter your specific product in the drop-down menu that appears and select the Software tab in the tab view. After that, the software components are available to you.

