

For details of the connections please see also p. 11 and the instruction manual.

Product	Nominal torque	Self-holding torque	Nominal rated speed
PSE 301-14	1 Nm	0.5 Nm	210 rpm
PSE 302-14	2 Nm	1 Nm	100 rpm
PSE 305-14	5 Nm	2.5 Nm	40 rpm
PSE 322-14	2 Nm	1 Nm	150 rpm
PSE 325-14	5 Nm	2.5 Nm	68 rpm

Data interfaces
 CANopen, PROFIBUS DP, DeviceNet, Modbus RTU, Sercos, EtherCAT, PROFINET, EtherNet/IP, POWERLINK, IO-Link

Start-up duration	30 % (basis time 300s)
Mode of operation	S3
Supply voltage	24 VDC \pm 10 % galvanically separated between control and motor and bus
Nominal current	PSE 30_: 2.4 A, PSE 32_: 3.1 A
Power consumption (control unit)	0.1 A
Positioning accuracy absolute measurement of position taken directly at the output shaft	0.9°
Positioning range	250 rotations not subject to mechanical limits
Shock resistance in accordance with IEC/DIN EN 60068-2-27	50g 11ms
Vibration resistance in accordance with IEC/DIN EN 60068-2-6	10..55 Hz 1.5 mm/ 55..1 000 Hz 10 g/ 10..2 000 Hz 5 g
Output shaft	14 mm hollow shaft with adjustable collar
Maximum axial force	20 N
Maximum radial force	40 N
Ambient temperature	0..45°C
Storage temperature	-10..70°C
Protection class	IP54
Weight	1 200 g
Certificates	CE

The order key and accessories can be found on p. 20/21.

ORDER KEY PSE/PSS/PSW 3 SERIES

All the positioning systems in the PSE/PSS/PSW 3 series share the same order key.

To provide the best possible overview and to simplify customer documentation, the diverse range of options available for the PSE/PSS/PSW 3 series has been organised in a shared order key.





Order key	A	B	C	D	E	
PSE / PSS / PSW:						
	Pro-tection class	A Design	B Type	C Bus communication (see p. 10)	D Connections	E Brake (see p. 13)
Positioning System Efficient (see p. 22-27) ¹¹	IP54	PSE	30x-8/-14 (V) ²¹	CA CANopen DP PROFIBUS DP DN DeviceNet	0 = without jog keys T = with jog keys ³¹ Y = 1 connector, Y-encoded Z = 1 connector, Y-encoded, with jog keys ³¹	0 = without brake M ⁴¹ = with brake
Positioning System Stainless (see p. 30-33)	IP65	PSS	31x-8/-14 (V) ²¹ 32x-14 (V) ²¹ 33x-14 (V) ²¹	MB Modbus RTU SE Sercos EC EtherCAT PN PROFINET		
Positioning System Washable (see p. 34-37)	IP68	PSW		EI EtherNet/IP PL POWERLINK IO IO-Link		

¹¹ You can find the order key for the PSE 34_-14 on page 28. ²¹ (V) not for PSE ³¹ not for PSW or IO-Link, always via an extra connector ⁴¹ only with 14 mm output shafts

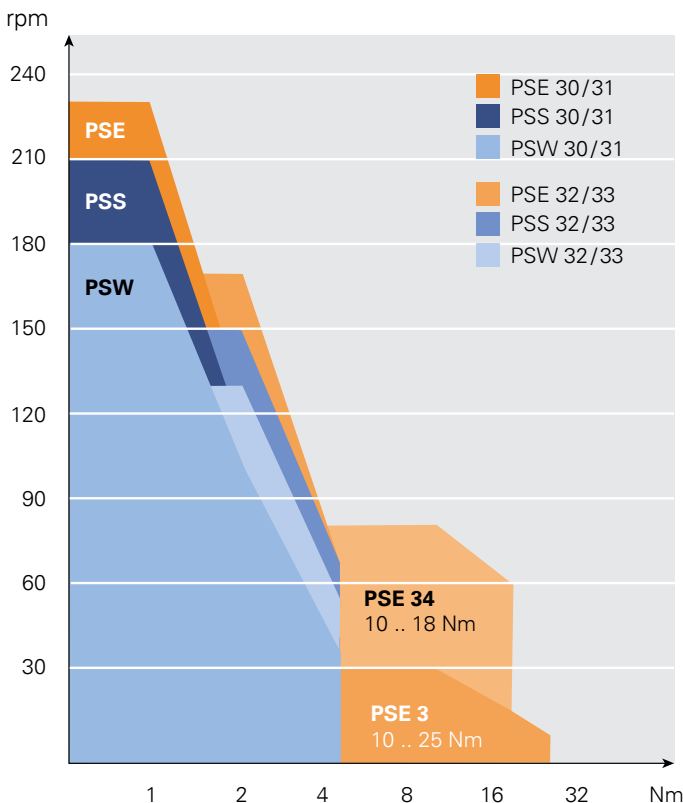
Standard equipment (Connections)

- second databus connection always provided (not for IO-Link or Y-encoded connector)
- address switches always provided (also IE-buses, not for IO-Link)

For further information on connections and address settings see also "Overview: bus communication" on p. 11.

Form/Type	Torque	Output shaft
horizontal  30	x = 1 Nm x = 2 Nm	8 = 8 mm hollow shaft 14 = 14 mm hollow shaft
longitudinal  31	x = 5 Nm	8V = 8 mm solid shaft ⁶¹ 14V = 14 mm solid shaft ⁶¹
horizontal  32	x = 10 Nm ⁵¹	
longitudinal  33	x = 18 Nm ⁵¹ x = 25 Nm ⁵¹	

⁵¹ only for PSE
18 Nm: horiz.
25 Nm: long. ⁶¹ only for PSS/PSW



TORQUES AND SPEEDS

Example 1

You require the protection class IP54 and a maximum torque of 2 Nm. The speed (rpm) should be greater than 100 rpm. An 8 mm hollow shaft and longitudinal construction meet the requirements of your application. You wish to use EtherNet/IP as the bus and connect the PSE to the control unit using a hybrid connector and hub. You do not require an additional holding brake in your application.

→ PSE 312-8-EI-Y-0








Example 2

IP68, max. 3 Nm, > 100 rpm, horizontal construction, 14 mm solid circular shaft, IO-Link via a connector, with brake.

→ PSW 325-14-IO-0-M

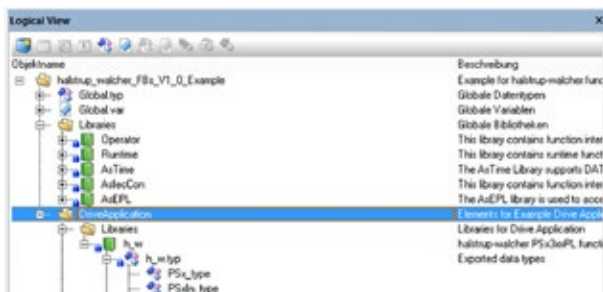
ACCESSORIES PSE/PSS/PSW 3 SERIES

The connectors shown here can be used for all three types of device (PSE/PSS/PSW). This ensures that the PSE (IP54) and PSS (IP 65) comply with the IP protection classes. We will also be pleased to help you find a suitable mating connector for the PSW (IP68) if necessary – just ask us!

Bus communication	Power supply + databus connector (2x) (for option 0) ¹⁾	Power supply + databus (2x) + jog key connector ²⁾ (for option T) ¹⁾	Cable and connectors for 1-connector solution ³⁾ (for option Y or IO) ¹⁾			
CANopen						
PROFIBUS DP				Connector set: Order no. 9601.0060	Connector set: Order no. 9601.0062	5 m: Order no. 9601.0245 10 m: Order no. 9601.0233 20 m: Order no. 9601.0234
Modbus RTU				Connector set: Order no. 9601.0088	Connector set: Order no. 9601.0090	
DeviceNet						
Sercos				Connector set: Order no. 9601.0112	Jog key box: Order no. 9601.0241	5 m: Order no. 9601.0240 10 m: Order no. 9601.0244
EtherCAT						Hub on request
PROFINET						
EtherNet/IP						
POWERLINK						
IO-Link ³⁾	-	-				
			Connector: Order no. 9601.0107			

¹⁾ see under "D" in the order key ²⁾ not for PSW ³⁾ power supply and bus via one cable, without second databus connector

MODULES AND DESCRIPTION FILES



Modules and description files for the various buses are available to download from our website:

www.halstrup-walcher.com

- ▶ Navigation: "Download"
- ▶ Software

PSS/PSW: OPTIMUM HYGIENIC DESIGN



Our stainless steel PSx follows the **hygienic design** recommendations (construction design, selection and treatment of materials) of the Chair of Apparatus and Plant Design at the Technical University of Munich, Weihenstephan Science Centre.



Screw cap to cover the second bus connection (for PSS/PSW)

Order no. 9601.0176