

Dimensions in mm.
For details of the connections please see also p. 55 and the instruction manual.

Product	Nominal torque	Self-holding torque	Nominal rated speed
PSE 311-14	1 Nm	0.5 Nm	210 rpm
PSE 312-14	2 Nm	1 Nm	115 rpm
PSE 332-14	2 Nm	1 Nm	150 rpm
PSE 335-14	5 Nm	2.5 Nm	68 rpm

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

Duty cycle	30 % (basis time 300 s)
Mode of operation	S3
Supply voltage	24 VDC ± 10 % galvanically separated between control and motor and bus
Nominal current	PSE 31x: 2.4 A, PSE 33x: 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 11 ms
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
Snap-on brake	optional (holding torque = nominal torque)
Maximum axial force	20 N
Maximum radial force	40 N
Ambient temperature	0..45 °C
Storage temperature	-10..70 °C
Protection class	IP54 (IP65 on request)
Weight	700 g
Certificates	CE + UKCA, optional: NRTL, opt: STO with/without test pulses ¹⁾

¹⁾ STO: only for EtherCAT, PROFINET, EtherNet/IP, without galvanic isolation of the power supply voltage

The order key and accessories can be found on p. 18 / 19.

ORDER KEY PSE/PSS/PSW 3 SERIES



	A	B	C	D	E	F	G
	Design	Type	Bus communication (see p.7)	Connections	Brake (see p.11)	Certification	IP protection class
Positioning System Efficient (see p.22-28)	PSE	30x-8/-14 (V)	CA: CANopen	O: Standard	0: without M: with ⁶⁾	0: CE + UKCA	54: IP 54 ⁸⁾ 65: IP 65 ⁹⁾ 68: IP 68 ¹⁰⁾
Positioning System Stainless (see p.29-33)		31x-8/-14 (V)	DP: PROFIBUS DP	T: Standard with jog keys ³⁾⁴⁾		N: NRTL + CE + UKCA	
Positioning System Washable (see p.34-38)		32x-14 (V)	DN: DeviceNet ²⁾	Y: Plug-in, Y-coded ⁵⁾		S: STO + CE + UKCA without test pulses ⁷⁾	
		33x-14 (V)	MB: Modbus RTU ²⁾	Z: Plug-in, Y-coded, with jog keys ³⁾⁵⁾		T: STO + CE + UKCA with test pulses ⁷⁾	
		34xx-14 ¹⁾	SE: Sercos			Y: STO + NRTL + UKCA without test pulses ⁷⁾	
			EC: EtherCAT			Z: STO + NRTL + UKCA with test pulses ⁷⁾	
			PN: PROFINET				
			EI: EtherNet/IP				
			PL: POWERLINK				
			IO: IO-Link				

¹⁾ only for PSE

²⁾ not for PSE34xx

³⁾ not for PSE31x

⁴⁾ always via an extra connector plug, not for IO-Link or PSW

⁵⁾ not for PSE34xx

⁶⁾ only 14 mm output shafts

⁷⁾ not for PSE34xx, only for EtherCAT, PROFINET, EtherNet/IP, only on request

⁸⁾ only for PSE, PSE34xx only IP65
⁹⁾ for PSS, for PSE 30x/31x/32x/33x on request
¹⁰⁾ only for PSW

Standard equipment (connections)

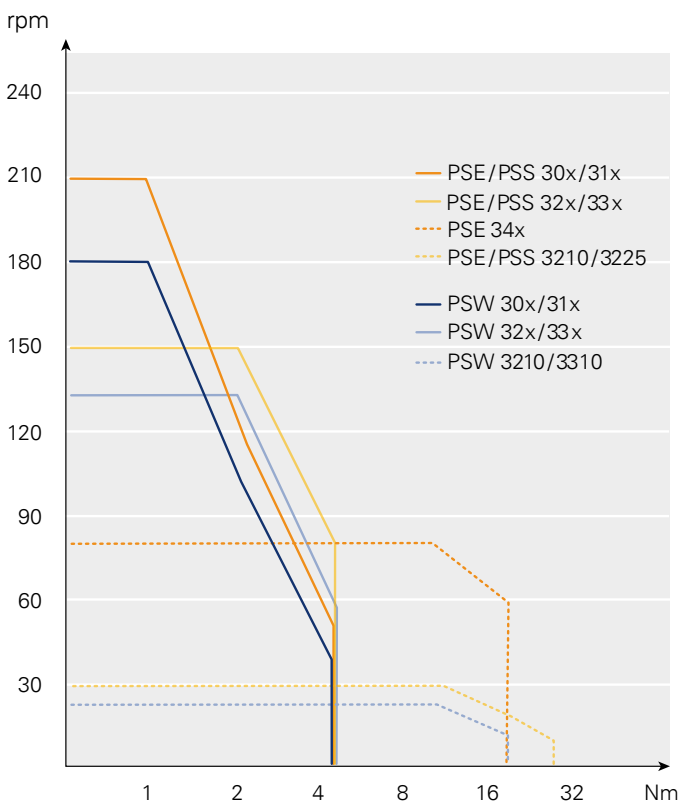
- always provided with 3 plugs/sockets (not for IO-Link or Y-encoded connector)
- address switches always provided (also IE-buses, not for IO-Link)

For further information on connections and address settings see also "bus communication details" on p.55.

Form/Type	Torque	Output shaft
horizontal	x = 1 Nm	8 = 8 mm hollow shaft
vertical	x = 2 Nm	14 = 14 mm hollow shaft
horizontal	x = 5 Nm	8V = 8 mm solid shaft
vertical	x = 10 Nm	14V = 14 mm solid shaft
	x = 18 Nm	
	x = 25 Nm ¹¹⁾	

¹¹⁾ only for PSE

Examples of orders provided below.



Nominal torque – nominal speed combinations

TORQUES AND SPEEDS

Example 1

You require the protection class IP54 and a maximum torque of 2Nm. The speed should be greater than 100rpm. An 8mm hollow shaft and longitudinal construction meet the requirements of your application. Your 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-0-0

Example 2

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

→ PSW 325-14V-IO-0-M-0

ACCESSORIES PSE/PSS/PSW 3 SERIES

The connectors shown here can be used for all 3 types of device (PSE/PSS/PSW). This ensures that the PSE (IP54) and PSS (IP65) 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 (for option T, not for PSW) ¹⁾²⁾	Cable and connectors for 1-connector solution ³⁾ (for option Y or IO-Link) ¹⁾			
CANopen ⁴⁾						
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			5 m: Order no. 9601.0240 10 m: Order no. 9601.0244			
Sercos			Hub on request			
EtherCAT						
PROFINET						
EtherNet/IP						
POWERLINK	Connector set: Order no. 9601.0112	Connector set: Order no. 9601.0317				
IO-Link ³⁾	-	-				
			Connector: Order no. 9601.0107 ³⁾			

¹⁾ see under "D" in the order key ²⁾ jog key box order no. 9601.0241 ³⁾ power supply and bus via one cable, without second data bus connector

⁴⁾ standard connector coding: A- or B- coding, other codings possible on request possible on request

FURTHER ACCESSORIES



Jog key box
(for Option T, not for PSW)

Order no. 9601.0241



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

Order no. 9601.0176

SOFTWARE

Take advantage of our functional modules or description files for the various buses. You can download the files on our website:

www.halstrup-walcher.de/en/software

