PSE 30x/32x-14

halstrup walcher

IP 54

IP 65

cover, manual adjustment beneath

Output shaft**

viewing window and access to address switch and status display

torque support

optinal jog key input

Nominal torque	Dimension A*	Output shaft**
< 10 Nm	30 ±0.1 mm	Ø14H7/20 depth
≥ 10 Nm	113.5 ±0.1 mm	Ø14H7/20 depth with feather key DIN 6885-A5x5x12

Characteristic curves PSE 30x/32x-14

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

Product	Nominal torque (x)	Self-holding torque (energized)	Nominal rated speed
PSE 301-14	1 Nm	0.5 Nm	210 min⁻¹
PSE 302-14	2 Nm	1 Nm	100 min⁻¹
PSE 305-14	5 Nm	2.5 Nm	40 min⁻¹
PSE 322-14	2 Nm	1 Nm	150 min⁻¹
PSE 325-14	5 Nm	2.5 Nm	68 min⁻¹
PSE 3210-14	10 Nm	5 Nm	30 min⁻¹
PSE 3218-14	18 Nm	9 Nm	17 min⁻¹

Duty cycle	30% (basis time 300s)
Mode of operation	S3
Supply voltage	24 VDC ±10% galvanically separated between control and motor and bus
Nominal current	PSE 30x: 2.5 A PSE 32x: 3.2 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	50 g 11 ms
Vibration resistance in accordance with IEC/DIN EN 60068-2-6	10..55 Hz 1.5 mm/ 55..1000 Hz 10 g/ 10..2000 Hz 5 g
Output shaft	14 mm hollow shaft PSE 30x and PSE 32x: with clamp ring PSE 32x ≥10 Nm: with clamp ring and feather key
Brake	optional (holding torque=nominal torque)
Max. axial force	20 N
Max. radial force	40 N
Ambient temperature	0..45°C
Storage temperature	-10..70°C
Protection class	IP 54 or IP 65
Weight	1 200 g
Certificates	CE/UKCA, optional: NRTL, optional: STO with/without test pulses [1]

[1] STO: only for EtherCAT, EtherNet/IP, POWERLINK, PROFINET, without galvanic separation of the supply voltage

Available: PROFINET | EtherNet/IP | EtherCAT | POWERLINK | IO-Link | PROFIBUS | CANopen | Sercos | DeviceNet | Modbus

How to choose your suitable positioning system?
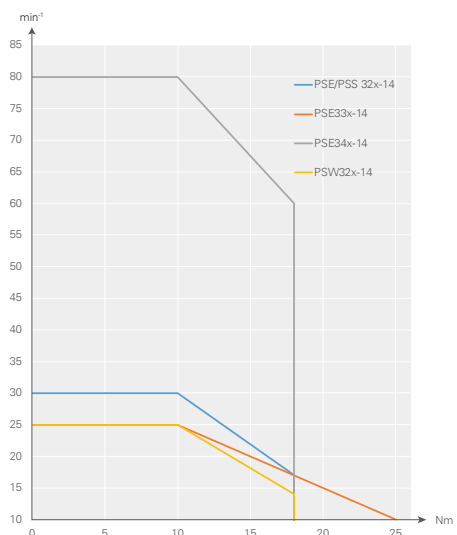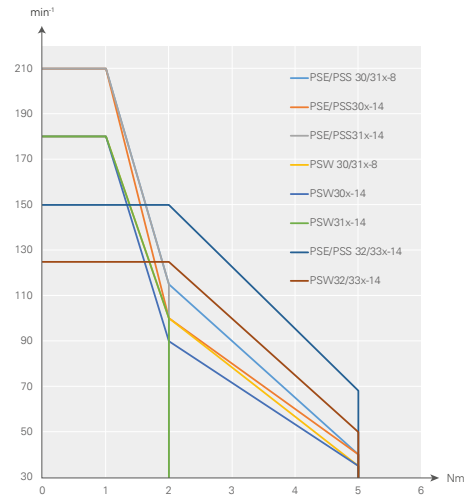

Torques and speeds

To order our standard products, you can use the graphics on the right for an initial performance assessment of the products and the corresponding order code of the 3 series. The ordering process is described below using an example.

A   Choose the appropriate **design** based on your operating conditions

B   **Type:**
- Vertical or horizontal form (value even or odd)
- max. rated torque (x) - for orientation see characteristic diagrams
- Output shaft (8 or 14) and solid or hollow shaft

C   select required protocol / interface (**bus communication**)

D   integrate the **connections** that are essential for you

E   if necessary, select a **brake** (without brake select 0)

F   select required **certificates**

G   select **IP protection class**

For example, a stainless steel housing (PSS), the 30x design, a maximum rated torque of 2 Nm and an 8 hollow shaft would be required (302-8). Besides IO-Link, the standard connections are required, no brake, the CE/UKCA certificate and IP65.

→   Order code **PSS 302-8-IO-0-0-0-65**

Order code PSE / PSS / PSW 3 series

A	B	C	D	E	F	G

		A Design	B Type	C Bus communication	D Connections	E Brake	F Certification	G IP protection class
Positioning System **Efficient**	PS**E**		30x-8 30x-8 V 30x-14 30x-14 V 31x-8	CA: CANopen DP: PROFIBUS DP DN: DeviceNet [1] MB: Modbus RTU [1]	0: Standard [2] T: Standard with jog keys [1] X: Plug-in, L-coded [1]		0: CE / UKCA N: NRTL + CE/UKCA S: STO + CE/UKCA without test pulses [1]	54: IP 54 [1] 65: IP 65 [1] 68: IP 68 [4]
Positioning System **Stainless**	PS**S**		31x-8 V 31x-14 31x-14 V 32x-14 32x-14 V	SE: Sercos EC: EtherCAT PN: PROFINET EI: EtherNet/IP	Y: Plug-in, Y-coded [1] Z: Plug-in, Y-coded, with jog keys [1]	0: without M: with [3]	T: STO + CE/UKCA with test pulses [1] Y: STO + NRTL + CE /UKCA without test pulses [1]	
Positioning System **Washable**	PS**W**		33x-14 33x-14 V 34x-14 [5]	PL: POWERLINK IO: IO-Link			Z: STO + NRTL + CE /UKCA with test pulses [1]	

Form/Type		Torque	Output shaft
30	horizontal	**x** = 1 Nm	8 = 8 mm hollow shaft
31	vertical	**x** = 2 Nm	14 = 14 mm hollow shaft
32	horizontal	**x** = 5 Nm	8 V = 8 mm solid shaft [1]
33	vertical	**x** = 10 Nm	14 V = 14 mm solid shaft [1]
34	horizontal	**x** = 18 Nm	
		x = 25 Nm [5]	

[1] Not available as standard for all versions / bus communication.
  Please contact our sales department.
[2] The standard is 3 plugs / sockets (except for IO-Link or Y-coded connector)
[3] only for variants with 14 mm output shafts
[4] only for PSW
[5] only for PSE

Please refer to the data sheets for the respective standard combinations.

Accessories for our positioning systems

The connectors shown here can be used for all 3 device types (PSE / PSS / PSW). For PSE (IP 54 / IP 65) and PSS (IP 65), this ensures the IP protection classes. If required, we are happy to help you find a suitable connector for a PSW (IP 68) - please contact us.

Buscommunication	Power supply (+ databus connector) (for option 0) [1]	Power supply + databus + jog key connector	Cable
CANopen			
PROFIBUS DP			
Modbus RTU	Connector set: Order no. 9601.0060	Connector set: Order no. 9601.0062	
			On request
DeviceNet			
	Connector set: Order no. 9601.0088	Connector set: Order no. 9601.0090	
Sercos EtherCAT PROFINET EtherNet / IP			
POWERLINK	Connector set: Order no. 9601.0112	Connector set: Order no. 9601.0317	
IO-Link		-	
	Connector: Order no. 9601.0107		

[1] see in order code under D

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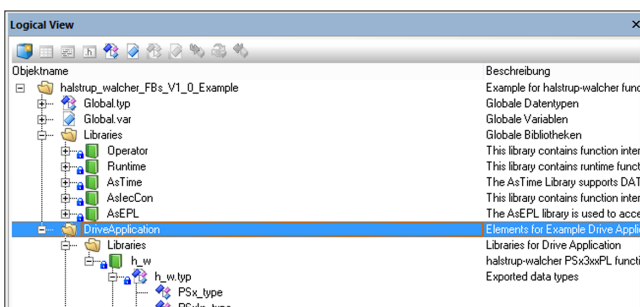(for PSS/PSW)

Order no. 9601.0176

Jog key box
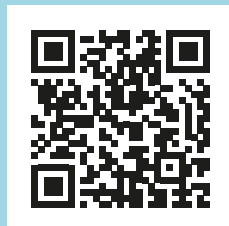(for Option T in section D of the Order code)

Order no. 9601.0241

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.

You want to see our products in person?

We are represented at numerous trade fairs and will be happy to advise you. Visit us on site and let us find the ideal solution together. You can find our current exhibition dates and product news at:

www.halstrup-walcher.de/en/news/