PSW 30_-8

Product	Nominal torque	Self-holding torque	Nominal rated speed
PSW 301-8	1 Nm	0.5 Nm	180 rpm
PSW 302-8	2 Nm	1 Nm	100 rpm
PSW 305-8	5 Nm	2.5 Nm	35 rpm

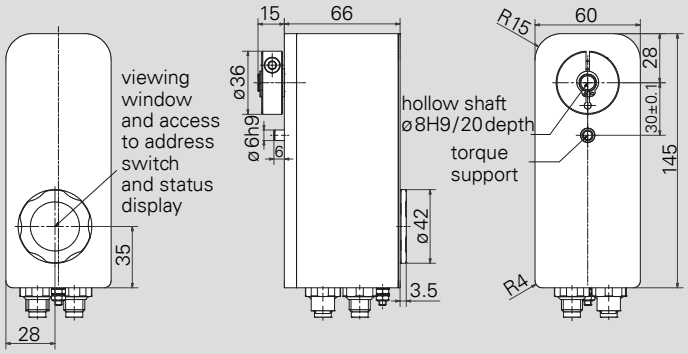
Data interfaces
CANopen, PROFIBUS DP, DeviceNet, Modbus RTU, Sercos, EtherCAT, PROFINET, EtherNet/IP, POWERLINK, IO-Link

Start-up duration	20 % (basis time 600 s) at nominal torque
Mode of operation	S3
Supply voltage	24 V DC ± 10 % galvanically separated between control and motor and bus
Nominal current	2.2 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..1 000 Hz 10 g/ 10..2 000 Hz 5 g
Output shaft	8 mm solid shaft or 8 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	IP68 at standstill [1], IP66 during rotation (tested with water) [1]
Material	stainless steel
Weight	650 g
Certificates	CE, optional: NRTL (UL, CSA, ANSI)

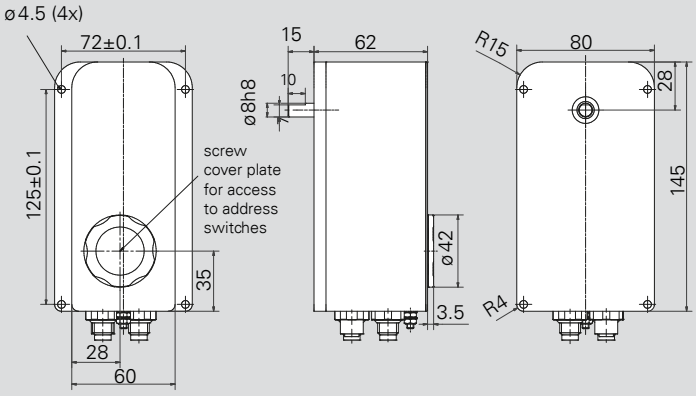
[1] welded V2A housing, output shaft sealed with quad-ring

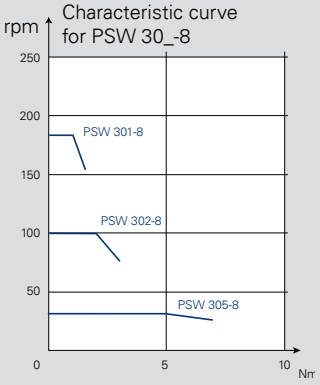
The order key and accessories can be found on p. 18 / 19.

PSW 30_-8 (with hollow shaft)



PSW 30_-8-V (with solid shaft)





For details of the connections please see also p. 47 and the instruction manual.

Data sheet PSW 30_-8 – Date: 09/2017 – Subject to technical changes without notice

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 PSE / PSS / PSW:

	A		B		C		D		E		F
		–		–		–		–		–	

	Protection class	A Design	B Type	C Bus communication (see p. 7)	D Connections	E Brake (see p. 11)	F Certification
Positioning System **Efficient** (see p. 20-25) [1]	IP 54	PS**E**	30**x**-8/-14 (V) [2] 31**x**-8/-14 (V) [2] 32**x**-14 (V) [2] 33**x**-14 (V) [2]	CA: CANopen DP: PROFIBUS DP DN: DeviceNet MB: Modbus RTU SE: Sercos EC: EtherCAT PN: PROFINET EI: EtherNet/IP PL: POWERLINK IO: IO-Link	0: without jog keys T: with jog keys [3] Y: 1 connector, Y-encoded Z: 1 connector, Y-encoded, with jog keys [3]	0: without M [4]: with	0: CE N: NRTL certification (in accordance with UL, CSA, ANSI and CE)
Positioning System **Stainless** (see p. 28-31)	IP 65	PS**S**					
Positioning System **Washable** (see p. 32-35)	IP 68	PS**W**					

[1] You can find the order key for the PSE 34_-14 on page 26.

[2] (V) not for PSE

[3] not for PSW or IO-Link, always via an extra connector

[4] 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)

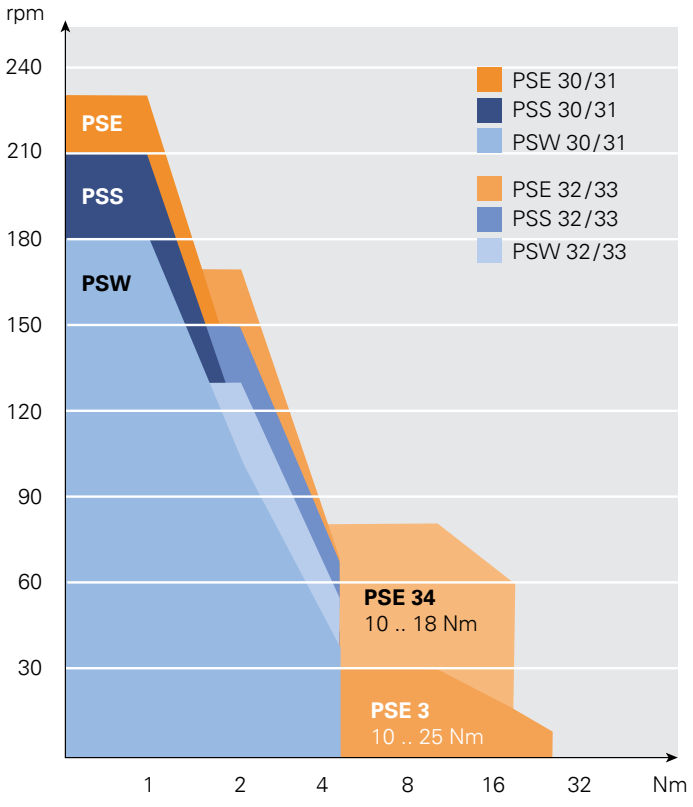
For further information on connections and address settings see also "Overview: bus communication" on p.47.

Form / Type		Torque	Output shaft
horizontal	30	**x** = 1 Nm	8 = 8 mm hollow shaft
vertical	31	**x** = 2 Nm	14 = 14 mm hollow shaft
horizontal	32	**x** = 5 Nm	8V = 8 mm solid shaft [6]
vertical	33	**x** = 10 Nm [5] **x** = 18 Nm [5] **x** = 25 Nm [5]	14V = 14 mm solid shaft [6]

[5] only for PSE 18 Nm: horiz. 25 Nm: long.

[6] only for PSS / PSW

Examples of orders provided below.



Nominal torque - nominal speed combinations

TORQUES AND SPEEDS

Example 1

You require the protection class IP 54 and a maximum torque of 2 Nm. The speed should be greater than 100 rpm. An 8 mm 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

IP 68, max. 3 Nm, > 100 rpm, horizontal construction, 14 mm solid circular shaft, IO-Link via a connector, with brake.

→ PSW 325-14V-IO-0-M-0