Duty cycle: 20 % (basis time 300 s)
Mode of operation: S3
Supply voltage: 24 VDC ± 10 %
galvanically separated between control and motor and bus
Nominal current: 78 A
Power consumption (control unit): 0.1 A
Positioning accuracy: 0.9°
Positioning range: 250 rotations
not subject to mechanical limits
Shock resistance: 50 g 11 ms
in accordance with IEC/DIN EN 60068-2-27
Vibration resistance: 10 g 3 Hz
in accordance with IEC/DIN EN 60068-2-6
Output shaft: 14 mm hollow shaft
with clamp and feather key
Max. position: 250 rotations
not subject to mechanical limits
Ambient temperature: 0..45 °C
Storage temperature: -10..70 °C
Protection class: IP54
Weight: 1900 g
Certificates: CE, optional: NRTL (UL, CSA, ANSI)

<table>
<thead>
<tr>
<th>Nominal torque</th>
<th>Self-holding torque</th>
<th>Nominal rated speed</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Nm</td>
<td>5 Nm</td>
<td>80 rpm</td>
<td>3410-14</td>
</tr>
<tr>
<td>18 Nm</td>
<td>9 Nm</td>
<td>60 rpm</td>
<td>3418-14</td>
</tr>
</tbody>
</table>

Data interfaces:
- CANopen: CA
- PROFIBUS DP: DP
- Sercos: SE
- EtherCAT: EC
- PROFINET: PN
- EtherNet/IP: EI
- POWERLINK: PL
- IO-Link: IO

Connections:
- without jog keys: 0
- with jog keys: T

Brake:
- no brake: 0
- with brake (holding torque = nominal torque): M

Certification:
- CE: 0
- NRTL certification (in accordance with UL, CSA, ANSI and CE): M

Order code:
- PSE - - - - -
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:

<table>
<thead>
<tr>
<th>Protection class</th>
<th>A Design</th>
<th>B Type</th>
<th>C Bus communication (see p. 7)</th>
<th>D Connections</th>
<th>E Brake (see p. 11)</th>
<th>F Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP65</td>
<td>PSS</td>
<td>31x8/-14 (V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP68</td>
<td>PSW</td>
<td>32x14 (V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>33x14 (V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) You can find the order key for the PSE 34_14 on page 26.

Standard equipment (connections):
- always provided with 3 plugs/sockets (not for IO-Link or Y-encoded connector)
- address switches always provided (also E-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 |
| vertical   | 31 | x = 2 Nm |
| horizontal | 32 | x = 5 Nm |
| vertical   | 33 | x = 10 Nm |

x = 18 Nm
x = 25 Nm

Only for PSE

Examples of orders provided below.

TORQUES AND SPEEDS

Example 1
You require the protection class IP54 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
IP68, 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
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 (IP 54) 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 (IP 68) if necessary – just ask us!

<table>
<thead>
<tr>
<th>Bus communication</th>
<th>Power supply + databus connector (2x) (for option 0)</th>
<th>Power supply + databus (2x) + jog key connector (for option T, not for PSW)</th>
<th>Cable and connectors for 1-connector solution (for option Y or IO-Link)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANopen 3)</td>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
</tr>
<tr>
<td>PROFIBUS DP</td>
<td><img src="image4" alt="Image" /></td>
<td><img src="image5" alt="Image" /></td>
<td><img src="image6" alt="Image" /></td>
</tr>
</tbody>
</table>
| Modbus RTU        | 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 |
| DeviceNet         | Connector set: Order no. 9601.0088               | Connector set: Order no. 9601.0090               | 5 m: Order no. 9601.0240  
10 m: Order no. 9601.0244  
Hub on request |
| Sercos            | ![Image](image7)                                 | ![Image](image8)                                 | ![Image](image9)                                 |
| EtherCAT          | ![Image](image10)                                | ![Image](image11)                                | ![Image](image12)                                 |
| PROFINET          | ![Image](image13)                                | ![Image](image14)                                | ![Image](image15)                                 |
| EtherNet/IP       | ![Image](image16)                                | ![Image](image17)                                | ![Image](image18)                                 |
| POWERLINK         | Connector set: Order no. 9601.0112               | Connector set: Order no. 9601.0317               | ![Image](image19)                                 |
| IO-Link 3)        | -                                               | -                                               | Connector: Order no. 9601.0107 2)                 |

1) see under “D” in the order key  
2) power supply and bus via one cable, without second databus connector  
3) A- or B- coding of the connectors is possible

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

MODULES AND DESCRIPTION FILES

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