

8.1 Technical details

| Technical details | |
|--|--|
| Application range | Standard/Failsafe |
| Module's device code | 0800h |
| Support in system environment A | |
| from FS firmware version for other head modules | 4 |
| from ST firmware version for other head modules | 5 |
| from FS firmware version PSSu H F PN | 1 |
| from ST firmware version PSSu H S PN | 1 |
| from ST firmware version PSSu WR S IDN | 6 |
| Support in system environment B | |
| from head module FS firmware version | 1.0.0 |
| from head module ST firmware version | 1.0.0 |
| Electrical data | |
| Infeed for | Module Supply |
| Voltage | 24 V DC |
| Voltage tolerance | -30 %/+25 % |
| Output of external power supply (DC) | 12.0 W |
| Max. continuous current that the external power supply must provide | 0.8 A |
| Inrush current that the external power supply must provide | 4.0 A |
| Module's current consumption | 23 mA |
| Module's power consumption | 0.12 W |
| Infeed for | Periphery Supply |
| Voltage | 24 V DC |
| Voltage tolerance | -30 %/+25 % |
| Max. continuous current that the external power supply must provide | 10.0 A |
| Voltage output | Module Supply |
| Voltage | 5 V DC |
| Voltage tolerance | -2 %/+3 % |
| Current load capacity | 2.0 A |
| Buffer in the case of supply interruptions in accordance with | DIN V EN V 1954, EN61131-2, EN61496-1 |
| Short circuit-proof | yes |
| Potential isolation between Module Supply and Periphery Supply | 3050 V |
| Max. power dissipation of the module | 2.50 W 2.00 W coated version (-T) |
| Environmental data | |
| Climatic suitability | EN 60068-2-14, EN 60068-2-1, EN 60068-2-2, EN 60068-2-30, EN 60068-2-78 |
| Ambient temperature | 0 - 60 °C -40 - 70 °C coated version (-T) |
| Storage temperature | -25 - 70 °C -40 - 70 °C coated version (-T) |
| Climatic suitability in accordance with EN 60068-2-30, EN 60068-2-78 | 93 % r. h. at 40 °C |
| Condensation | no yes coated version (-T) |
| Max. operating height above sea level | 5000 m coated version (-T) |

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| Environmental data | |
|--|---|
| EMC | EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-2, EN 61000-6-4 |
| Vibration to EN 60068-2-6 | |
| Frequency | 10 - 150 Hz 10 - 1,000 Hz coated version (-T) |
| Max. acceleration | 1g 5g coated version (-T) |
| Shock stress | |
| EN 60068-2-27 | 15g 11 ms |
| EN 60068-2-29 | 10g 25g coated version (-T) 16 ms 6 ms coated version (-T) |
| Protection type in accordance with EN 60529 | |
| Mounting (e.g. cabinet) | IP54 |
| Housing | IP20 |
| Terminals | IP20 |
| Airgap creepage in accordance with EN 60664-1 | |
| Overvoltage category | II |
| Pollution degree | 2 |
| Mechanical data | |
| Housing material | |
| Front | PC |
| Bottom | PC |
| Coding | PA |
| Dimensions | |
| Height | 76.0 mm |
| Width | 25.4 mm |
| Depth | 60.2 mm |
| Weight | 62 g 64 g coated version (-T) |
| Mechanical coding | |
| Type | C |
| Colour | yellow |

8.2 Order reference

| Order reference | |
|---|-----------|
| Description | Order no. |
| PSSu E F PS1 (Electronic module) | 312 191 |
| PSSu E F PS1-T (Electronic module, coated version) | 314 191 |
| Base modules | Order no. |
| PSSu BS 2/8S (Base module with screw terminals, for use only as the first module after the head module) | 312 656 |
| PSSu BS 2/8S-T (Base module with screw terminals, for use only as the first module after the head module, coated version) | 314 656 |
| PSSu BS 2/8C (Base module with cage clamp terminals, for use only as the first module after the head module) | 312 657 |
| PSSu BS 2/8C-T (Base module with cage clamp terminals, for use only as the first module after the head module, coated version) | 314 657 |
| PSSu BS-R 2/8S (Base module with screw terminals, for use only to refresh the voltage and form supply groups) | 312 654 |
| PSSu BS-R 2/8S-T (Base module with screw terminals, for use only to refresh the voltage and form supply groups, coated version) | 314 654 |
| PSSu BS-R 2/8C (Base module with cage clamp terminals, for use only to refresh the voltage and form supply groups) | 312 655 |
| PSSu BS-R 2/8C-T (Base module with cage clamp terminals, for use only to refresh the voltage and form supply groups, coated version) | 314 655 |