

SIPLUS PS PSE200U 3A
 SIPLUS PS PSE200U 3A with conformal coating based on 6EP1961-2BA31 . Selectivity module 4-channel input: 24 V DC output: 24 V DC/3 A per channel Output current adjustable 0.5-3 with status message per channel



| Input | |
|---|-----------------------|
| type of the power supply network | Controlled DC voltage |
| supply voltage / at DC / rated value | 24 V |
| input voltage / at DC | 22 ... 30 V |
| overvoltage overload capability | 35 V |
| input current / at rated input voltage 24 V / rated value | 12 A |

| Output | |
|---|--|
| voltage curve / at output | controlled DC voltage |
| formula for output voltage | $V_{in} - \text{approx. } 0.2 \text{ V}$ |
| relative overall tolerance / of the voltage / note | In accordance with the supplying input voltage |
| number of outputs | 4 |
| output current / up to 60 °C / per output / rated value | 3 A |
| adjustable pick-up value current / of the current-dependent overload release | 0.5 ... 3 A |
| type of response value setting | via potentiometer |
| product feature | |
| <ul style="list-style-type: none"> parallel switching of outputs | No |
| <ul style="list-style-type: none"> bridging of equipments | Yes |

| | |
|----------------------------|---|
| type of outputs connection | Simultaneous connection of all outputs after power up of the supply voltage > 20 V, delay time of 25 ms, 100 ms or adjustable "load optimised" via DIP switch for sequential connection |
|----------------------------|---|

Efficiency

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|--|------|
| efficiency in percent | 97 % |
| power loss [W] / at rated output current / for rated value of the output current / typical | 9 W |

Switch-off characteristic per output

| | |
|--|--|
| switching characteristic | <ul style="list-style-type: none"> • of the excess current • of the current limitation • of the immediate switch-off |
| | <p>$I_{out} = 1.0 \dots 1.5 \times \text{set value}$, switch-off after approx. 5 s</p> <p>$I_{out} = 1.5 \times \text{set value}$, switch-off after typ. 100 ms</p> <p>$I_{out} > \text{set value}$ and $V_{in} < 20 \text{ V}$, switch-off after approx. 0.5 ms</p> |
| residual current at switch-off / typical | 1 mA |
| design of the reset device/resetting mechanism | via sensor per output |
| remote reset function | Non-electrically isolated 24 V input (signal level "high" at > 15 V) |

Protection and monitoring

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|--|--|
| fuse protection type / at input | 5 A per output (not accessible) |
| display version / for normal operation | Three-color LED per output: green LED for "Output switched through"; yellow LED for "Output switched off manually"; red LED for "Output switched off due to overcurrent" |
| design of the switching contact / for signaling function | Status signal output (pulse/pause signal, can be evaluated via Simatic function block) |

Safety

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|---|--------------------------------------|
| galvanic isolation / between input and output at switch-off | No |
| standard / for safety | according to EN 60950-1 and EN 50178 |
| operating resource protection class | Class III |
| protection class IP | IP20 |

Approvals

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|--|-----|
| certificate of suitability | |
| <ul style="list-style-type: none"> • CE marking | Yes |

EMC

| | |
|---|---|
| standard | |
| <ul style="list-style-type: none"> • for emitted interference • for interference immunity | <p>EN 55022 Class B</p> <p>EN 61000-6-2</p> |

environmental conditions

| | |
|--|--|
| ambient temperature | |
| <ul style="list-style-type: none"> • in horizontal mounting position / during operation • during storage and transport | <p>-25 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> |

| | |
|--|--|
| installation altitude / at height above sea level / maximum | 6 000 m |
| ambient condition / relating to ambient temperature - air pressure - installation altitude | In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m |
| relative humidity / with condensation / acc. to IEC 60068-2-38 / maximum | 100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation |
| chemical resistance / to commercially available cooling lubricants | Yes; incl. diesel and oil droplets in the air |
| resistance to biologically active substances / conformity acc. to EN 60721-3-3 | Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request |
| resistance to chemically active substances / conformity acc. to EN 60721-3-3 | Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) |
| resistance to mechanically active substances / conformity acc. to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust |
| resistance to biologically active substances / conformity acc. to EN 60721-3-6 | Yes; Class 6B2 mold, fungal, sponge spores (except fauna) |
| resistance to chemically active substances / conformity acc. to EN 60721-3-6 | Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) |
| resistance to mechanically active substances / conformity acc. to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust |
| coating / for equipped printed circuit board / acc. to EN 61086 | Yes; Class 2 for high availability |
| type of coating / protection against pollution according to EN 60664-3 | Yes; Type 1 protection |
| type of test / of the coating / acc. to MIL-I-46058C | Yes; Discoloration of the coating during service life possible |
| product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A | Yes; Conformal Coating, Class A |

Mechanics

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| type of electrical connection | screw-type terminals |
| <ul style="list-style-type: none"> • at input | +24 V: 2 screw terminals for 0.5 ... 16 mm ² ; 0 V: 2 screw terminals for 0.5 ... 4 mm ² |
| <ul style="list-style-type: none"> • at output | Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm ² |
| <ul style="list-style-type: none"> • for signaling contact | 1 screw terminal for 0.5 ... 4 mm ² |
| <ul style="list-style-type: none"> • for auxiliary contacts | Remote reset: 1 screw terminal for 0.5 ... 4 mm ² |
| width / of the enclosure | 72 mm |
| height / of the enclosure | 80 mm |
| depth / of the enclosure | 72 mm |
| installation width | 72 mm |
| mounting height | 180 mm |
| net weight | 0.2 kg |
| mounting type | Snaps onto DIN rail EN 60715 35x7.5/15 |
| mechanical accessories | Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 |

