



SITOP PSU8200/3AC/36VDC/13A

SITOP PSU8200 36 V/13 A stabilized power supply input: 400-500 V 3 AC output: 36 V DC/13 A *Ex approval no longer available*

| input | |
|--|---|
| type of the power supply network | 3-phase AC |
| supply voltage at AC minimum rated value | 400 ... 500 V |
| supply voltage at AC maximum rated value | |
| supply voltage at AC initial value | 320 ... 575 V |
| supply voltage at AC full-scale value | |
| wide range input | Yes |
| buffering time for rated value of the output current in the event of power failure minimum | 15 ms |
| operating condition of the mains buffering | at $V_{in} = 400 \text{ V}$ |
| line frequency | 50/60 Hz |
| line frequency initial value | 47 ... 63 Hz |
| line frequency full-scale value | |
| input current | |
| • at rated input voltage 400 V | 1.2 A |
| • at rated input voltage 500 V | 1 A |
| current limitation of inrush current at 25 °C maximum | 16 A |
| I ² t value maximum | 0.8 A ² ·s |
| fuse protection type | none |
| fuse protection type in the feeder | Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) |
| output | |
| voltage curve at output | Controlled, isolated DC voltage |
| output voltage at DC rated value | 36 V |
| output voltage | |
| • at output 1 at DC rated value | 36 V |
| output voltage adjustable | Yes; via potentiometer |
| adjustable output voltage initial value | 36 V |
| adjustable output voltage full-scale value | 42 V; max. 480 W |
| relative overall tolerance of the voltage | 3 % |
| relative control precision of the output voltage | |
| • on slow fluctuation of input voltage | 0.1 % |
| • on slow fluctuation of ohm loading | 0.2 % |
| residual ripple | |
| • maximum | 100 mV |
| voltage peak | |
| • maximum | 200 mV |
| display version for normal operation | Green LED for 36 V OK |
| type of signal at output | Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 36 V OK |
| behavior of the output voltage when switching on | No overshoot of V_{out} (soft start) |

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| response delay maximum | 2.5 s |
| voltage increase time of the output voltage | |
| • maximum | 500 ms |
| output current | |
| • rated value | 13 A |
| • rated range | 0 ... 13 A; +60 ... +70 °C: Derating 2%/K |
| supplied active power typical | 468 W |
| short-term overload current | |
| • at short-circuit during operation typical | 39 A |
| duration of overloading capability for excess current | |
| • at short-circuit during operation | 25 ms |
| constant overload current | |
| • on short-circuiting during the start-up typical | 14 A |
| bridging of equipment | Yes; switchable characteristic |
| number of parallel-switched equipment resources for increasing the power | 2 |
| efficiency in percent | 94 % |
| power loss [W] | |
| • at rated output voltage for rated value of the output current typical | 30 W |
| closed-loop control | |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.1 % |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical | 1 % |
| setting time | |
| • load step 50 to 100% typical | 0.2 ms |
| • load step 100 to 50% typical | 0.2 ms |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 2 % |
| setting time | |
| • load step 10 to 90% typical | 0.2 ms |
| • load step 90 to 10% typical | 0.2 ms |
| • maximum | 10 ms |
| protection and monitoring | |
| design of the overvoltage protection | < 48 V |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Alternatively, constant current characteristic approx. 14 A or latching shutdown |
| • typical | 14 A |
| overcurrent overload capability | |
| • in normal operation | overload capability 150 % I _{out} rated up to 5 s/min |
| enduring short circuit current RMS value | |
| • typical | 14 A |
| display version for overload and short circuit | LED yellow for "overload", LED red for "latching shutdown" |
| safety | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Safety extra low output voltage V _{out} according to EN 60950-1 |
| operating resource protection class | Class I |
| leakage current | |
| • maximum | 3.5 mA |
| • typical | 0.9 mA |
| protection class IP | IP20 |
| standard | |
| • for emitted interference | EN 55022 Class B |
| • for mains harmonics limitation | EN 61000-3-2 |
| • for interference immunity | EN 61000-6-2 |
| standards, specifications, approvals | |
| certificate of suitability | |
| • CE marking | Yes |
| • UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| • CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |

| | |
|---|---|
| <ul style="list-style-type: none"> • EAC approval | Yes |
| <ul style="list-style-type: none"> • Regulatory Compliance Mark (RCM) | Yes |
| <ul style="list-style-type: none"> • NEC Class 2 | No |
| <ul style="list-style-type: none"> • SEMI F47 | Yes |
| type of certification | |
| <ul style="list-style-type: none"> • CB-certificate | Yes |
| standards, specifications, approvals hazardous environments | |
| certificate of suitability | |
| <ul style="list-style-type: none"> • IECEx | No |
| <ul style="list-style-type: none"> • ATEX | No |
| <ul style="list-style-type: none"> • ULhazloc approval | No |
| <ul style="list-style-type: none"> • cCSAus, Class 1, Division 2 | No |
| <ul style="list-style-type: none"> • FM registration | No |
| standards, specifications, approvals marine classification | |
| shipbuilding approval | Yes |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) | No |
| <ul style="list-style-type: none"> • French marine classification society (BV) | No |
| <ul style="list-style-type: none"> • Det Norske Veritas (DNV) | Yes |
| <ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) | No |
| standards, specifications, approvals Environmental Product Declaration | |
| Environmental Product Declaration | Yes |
| Global Warming Potential [CO2 eq] | |
| <ul style="list-style-type: none"> • total | 958.4 kg |
| <ul style="list-style-type: none"> • during manufacturing | 18.9 kg |
| <ul style="list-style-type: none"> • during operation | 939 kg |
| <ul style="list-style-type: none"> • after end of life | 0.27 kg |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -25 ... +70 °C; with natural convection |
| <ul style="list-style-type: none"> • during transport | -40 ... +85 °C |
| <ul style="list-style-type: none"> • during storage | -40 ... +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| connection method | |
| type of electrical connection | screw-type terminals |
| <ul style="list-style-type: none"> • at input | L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm ² single-core/finely stranded |
| <ul style="list-style-type: none"> • at output | +, -: 2 screw terminals each for 0.2 ... 4 mm ² |
| <ul style="list-style-type: none"> • for auxiliary contacts | 13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm ² ; 15, 16 (Remote): 1 screw terminal each for 0.14 ... 1.5 mm ² |
| mechanical data | |
| width × height × depth of the enclosure | 70 × 125 × 125 mm |
| installation width × mounting height | 70 × 225 mm |
| required spacing | |
| <ul style="list-style-type: none"> • top | 50 mm |
| <ul style="list-style-type: none"> • bottom | 50 mm |
| <ul style="list-style-type: none"> • left | 0 mm |
| <ul style="list-style-type: none"> • right | 0 mm |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15 |
| <ul style="list-style-type: none"> • standard rail mounting | Yes |
| <ul style="list-style-type: none"> • S7 rail mounting | No |
| <ul style="list-style-type: none"> • wall mounting | No |
| housing can be lined up | Yes |
| net weight | 1.2 kg |
| accessories | |
| mechanical accessories | Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 |
| further information internet links | |
| internet link | |
| <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool | https://siemens.com/tst |
| <ul style="list-style-type: none"> • to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> • to website: CAx-Download-Manager | http://www.siemens.com/cax |

additional information

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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Classifications

| | Version | Classification |
|--------|---------|----------------|
| eClass | 12 | 27-04-07-01 |
| eClass | 9.1 | 27-04-07-01 |
| eClass | 9 | 27-04-07-01 |
| eClass | 8 | 27-04-90-02 |
| eClass | 7.1 | 27-04-90-02 |
| eClass | 6 | 27-04-90-02 |
| ETIM | 9 | EC002540 |
| ETIM | 8 | EC002540 |
| ETIM | 7 | EC002540 |
| IDEA | 4 | 4130 |
| UNSPSC | 15 | 39-12-10-04 |

Approvals Certificates

General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



General Product Approval

For use in hazardous locations

Marine / Shipping

Environment



[CCC-Ex](#)



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