



SITOP PSU4200/3AC/24VDC/10A

SITOP PSU4200 3AC 24 V/10 A stabilized power supply PSU4200 input: 400/500 V AC output: 24 V DC/ 10 A

General information

Technical Product Detail Page

<https://i.siemens.com/1P6EP3434-3SB00-0AX0>

input

| | |
|---|---|
| type of the power supply network | 3-phase AC |
| supply voltage at AC | |
| <ul style="list-style-type: none"> • minimum rated value • maximum rated value • initial value • full-scale value | <p>400 V</p> <p>500 V</p> <p>320 V</p> <p>550 V</p> |
| wide range input | Yes |
| buffering time for rated value of the output current in the event of power failure minimum | 5 ms |
| operating condition of the mains buffering | at $V_{in} = 400/500$ V |
| line frequency | 50/60 Hz |
| line frequency | 47 ... 63 Hz |
| input current | |
| <ul style="list-style-type: none"> • at rated input voltage 400 V • at rated input voltage 500 V | <p>0.7 A</p> <p>0.6 A</p> |
| current limitation of inrush current at 25 °C maximum | 50 A |
| duration of inrush current limiting at 25 °C | |
| <ul style="list-style-type: none"> • typical | 20 ms |
| I ² t value maximum | 0.9 A ² ·s |
| fuse protection type in the feeder | three-poled coupled circuit breaker from 3 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 3 A) or 3RV2711-1ED10 (UL 489) |

output

| | |
|--|---------------------------------|
| voltage curve at output | Controlled, isolated DC voltage |
| output voltage at DC rated value | 24 V |
| output voltage | |
| <ul style="list-style-type: none"> • at output 1 at DC rated value | 24 V |
| output voltage adjustable | Yes; via potentiometer |
| adjustable output voltage | 24 ... 28 V |
| relative overall tolerance of the voltage | 3 % |
| relative control precision of the output voltage | |
| <ul style="list-style-type: none"> • on slow fluctuation of input voltage • on slow fluctuation of ohm loading | <p>0.2 %</p> <p>0.3 %</p> |

| | |
|---|---|
| residual ripple | |
| • maximum | 150 mV |
| • typical | 48 mV |
| voltage peak | |
| • maximum | 240 mV |
| • typical | 30 mV |
| display version for normal operation | Green LED for 24 V OK |
| type of signal at output | Signal contact (signal load capacity: 5 mA) for DC OK |
| behavior of the output voltage when switching on | No overshoot of Vout (soft start) |
| response delay maximum | 1.5 s |
| voltage increase time of the output voltage | |
| • typical | 210 ms |
| • maximum | 500 ms |
| output current | |
| • rated value | 10 A |
| • rated range | 0 ... 10 A; +60 ... +70 °C: Derating 3%/K |
| supplied active power typical | 240 W |
| bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing the power | 2 |
| efficiency | |
| efficiency in percent | 90 % |
| power loss [W] | |
| • at rated output voltage for rated value of the output current typical | 27 W |
| • during no-load operation maximum | 3 W |
| closed-loop control | |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.2 % |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical | 0.5 % |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 1.5 % |
| setting time | |
| • load step 10 to 90% typical | 1 ms |
| • load step 90 to 10% typical | 1 ms |
| protection and monitoring | |
| design of the overvoltage protection | < 32 V |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Constant current characteristic |
| • typical | 12.2 A |
| enduring short circuit current RMS value | |
| • typical | 12.5 A |
| safety | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7) |
| operating resource protection class | Class I |
| leakage current | |
| • maximum | 0.8 mA |
| • typical | 0.4 mA |
| protection class IP | IP20 |
| EMC | |
| standard | |
| • for emitted interference | EN 55032 Class A |
| • 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 |

| | |
|---|---|
| <ul style="list-style-type: none"> • UKCA marking | Yes |
| <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 |
| type of certification | |
| <ul style="list-style-type: none"> • BIS | Yes; R-41183539 |
| <ul style="list-style-type: none"> • CB-certificate | Yes |
| MTBF at 40 °C | 1 330 000 h |
| 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"> • FM registration | No |
| standards, specifications, approvals marine classification | |
| shipbuilding approval | No |
| 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) | No |
| <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 | 753.3 kg |
| <ul style="list-style-type: none"> • during manufacturing | 20.6 kg |
| <ul style="list-style-type: none"> • during operation | 732 kg |
| <ul style="list-style-type: none"> • after end of life | 0.6 kg |
| Siemens Eco Profile (SEP) | Siemens EcoTech |
| 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 | push-in terminals |
| <ul style="list-style-type: none"> • at input | L1, L2, L3, PE: push-in for 0.5 ... 4 mm ² |
| <ul style="list-style-type: none"> • at output | +, -: push-in for 0.5 ... 2.5 mm ² |
| <ul style="list-style-type: none"> • for signaling contact | 13, 14: push-in for 0.2 ... 1.5 mm ² |
| mechanical data | |
| width × height × depth of the enclosure | 70 × 135 × 125 mm |
| installation width × mounting height | 70 mm × 225 mm |
| required spacing | |
| <ul style="list-style-type: none"> • top | 45 mm |
| <ul style="list-style-type: none"> • bottom | 45 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"> • DIN-rail mounting | Yes |
| <ul style="list-style-type: none"> • S7 rail mounting | No |
| <ul style="list-style-type: none"> • wall mounting | Yes |
| housing can be lined up | Yes |
| net weight | 0.64 kg |
| further information internet links | |
| internet link | |
| <ul style="list-style-type: none"> • to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |

- to web page: power supplies
- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://siemens.com/sitop>
<https://siemens.com/cax>
<https://support.industry.siemens.com>

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 | 14 | 27-04-07-01 |
| 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 | 10 | EC002540 |
| ETIM | 9 | EC002540 |
| ETIM | 8 | EC002540 |
| ETIM | 7 | EC002540 |
| IDEA | 4 | 4130 |
| UNSPSC | 15 | 39-12-10-04 |

Approvals Certificates

Environmental Product Declaration

- | | |
|--|----------|
| • global warming potential [CO2 eq] / during manufacturing | 20.6 kg |
| • global warming potential [CO2 eq] / during operation | 732 kg |
| • global warming potential [CO2 eq] / after end of life | 0.6 kg |
| • global warming potential [CO2 eq] / total | 753.3 kg |

Environment

General Product Approval



Siemens EcoTech



[Manufacturer Declaration](#)



EG-Konf.



[China RoHS](#)

General Product Approval



[BIS CRS](#)

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