



SITOP PSU3400/DC/DC/48V/24V/3.5A

SITOP PSU3400 24 V/3.5 A Stabilized power supply Input: 48 V DC (28...60 V)
Output: 24 V DC/3.5 A NEC CLASS2

Technical Product Detail Page

<https://i.siemens.com/1P6EP3233-0TA10-0AY0>

| input | |
|--|---|
| type of the power supply network | DC voltage |
| supply voltage at AC | Startup as of 36 V, derating necessary for 28 ... 36 V DC |
| supply voltage at DC | 48 ... 48 V |
| input voltage at DC | 28 ... 60 V |
| wide range input | No |
| overvoltage overload capability | - |
| 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 $V_{in} = 48 \text{ V}$ |
| input current | |
| • at rated input voltage 48 V | 1.9 A |
| current limitation of inrush current at 25 °C maximum | 15 A |
| I^2t value maximum | 0.09 A ² ·s |
| fuse protection type | 15 A (not accessible), breaking capacity 100 A |
| fuse protection type in the feeder | Recommended miniature circuit breaker: 16 A characteristic B or C |
| output | |
| voltage curve at output | Controlled, isolated DC voltage |
| output voltage at DC rated value | 24 V |
| output voltage | |
| • 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 | 1 % |
| 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 | 150 mV |
| • typical | 30 mV |
| voltage peak | |
| • maximum | 250 mV |
| • typical | 70 mV |
| display version for normal operation | Green LED for 24 V OK |
| behavior of the output voltage when switching on | No overshoot of V_{out} (soft start) |
| response delay maximum | 0.5 s |
| voltage increase time of the output voltage | |
| • typical | 10 ms |

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|---|---|
| <ul style="list-style-type: none"> • maximum | 20 ms |
| output current | |
| <ul style="list-style-type: none"> • rated value | 3.5 A |
| <ul style="list-style-type: none"> • rated range | 0 ... 3.5 A; +60 to +70 °C: without derating |
| supplied active power typical | 91 W |
| bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing the power | 2 |
| efficiency | |
| efficiency in percent | 90 % |
| power loss [W] | |
| <ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical | 7 W |
| <ul style="list-style-type: none"> • during no-load operation maximum | 1.5 W |
| closed-loop control | |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.3 % |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical | 2 % |
| setting time | |
| <ul style="list-style-type: none"> • load step 50 to 100% typical | 1 ms |
| <ul style="list-style-type: none"> • load step 100 to 50% typical | 1 ms |
| protection and monitoring | |
| design of the overvoltage protection | Ua < 35 V |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Electronic shutdown, automatic restart |
| <ul style="list-style-type: none"> • typical | 3.8 A |
| display version for overload and short circuit | LED yellow for "overload" |
| safety | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Safety extra low output voltage Vout according to EN 60950-1 |
| operating resource protection class | Class III |
| protection class IP | IP20 |
| EMC | |
| standard | |
| <ul style="list-style-type: none"> • for emitted interference | EN 61000-6-3 |
| <ul style="list-style-type: none"> • for mains harmonics limitation | not applicable |
| <ul style="list-style-type: none"> • for interference immunity | EN 61000-6-2 |
| standards, specifications, approvals | |
| certificate of suitability | |
| <ul style="list-style-type: none"> • CE marking | Yes |
| <ul style="list-style-type: none"> • UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| <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 | Yes; according to UL1310 |
| type of certification | |
| <ul style="list-style-type: none"> • CB-certificate | Yes |
| MTBF at 40 °C | 1 934 648 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 | Yes |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| <ul style="list-style-type: none"> • French marine classification society (BV) | No |

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|--|--|---------|----------------|
| <ul style="list-style-type: none">• Det Norske Veritas (DNV)• Lloyds Register of Shipping (LRS) | Yes | | |
| | No | | |
| ambient conditions | | | |
| ambient temperature <ul style="list-style-type: none">• during operation• during transport• during storage | -25 ... +70 °C; with natural convection -40 ... +85 °C -40 ... +85 °C | | |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation | | |
| connection method | | | |
| type of electrical connection <ul style="list-style-type: none">• at input• at output | screw terminal L, N, FE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 ... 2.5 mm² | | |
| mechanical data | | | |
| width × height × depth of the enclosure | 32 × 100 × 100 mm | | |
| installation width × mounting height | 32 mm × 200 mm | | |
| required spacing <ul style="list-style-type: none">• top• bottom• left• right | 50 mm 50 mm 0 mm 0 mm | | |
| fastening method <ul style="list-style-type: none">• DIN-rail mounting• S7 rail mounting• wall mounting | Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No | | |
| housing can be lined up | Yes | | |
| net weight | 0.32 kg | | |
| accessories | | | |
| electrical accessories | Buffer module | | |
| further information internet links | | | |
| internet link <ul style="list-style-type: none">• to website: Industry Mall• to web page: selection aid TIA Selection Tool• to web page: power supplies• to website: CAX-Download-Manager• to website: Industry Online Support | https://mall.industry.siemens.com https://www.siemens.com/tstcloud 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 | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert . (V4.7) | | |
| 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

General Product Approval

[Manufacturer Declaration](#)

[Declaration of Conformity](#)



[China RoHS](#)



Maritime application



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