SIEMENS

Data sheet 6EP1323-2BA00



SITOP PSU100S/1AC/12VDC/14A

SITOP PSU100S 12 V/14 A stabilized power supply input: 120/230 V AC output: 12 V DC/14 A

| input | | |
|--|---|--|
| type of the power supply network | 1-phase AC | |
| supply voltage at AC | Automatic range selection | |
| supply voltage | 120 V/230 V | |
| input voltage 1 at AC | 85 132 V | |
| input voltage 2 at AC | 170 264 V | |
| wide range input | No | |
| overvoltage overload capability | 2.3 × Vin rated, 1.3 ms | |
| buffering time for rated value of the output current in the event of power failure minimum | 20 ms | |
| operating condition of the mains buffering | at Vin = 93/187 V | |
| line frequency | 50/60 Hz | |
| line frequency | 47 63 Hz | |
| input current | | |
| at rated input voltage 120 V | 3.24 A | |
| at rated input voltage 230 V | 1.41 A | |
| current limitation of inrush current at 25 °C maximum | 60 A | |
| fuse protection type | T 6.3 A/250 V (not accessible) | |
| fuse protection type in the feeder | Recommended miniature circuit breaker: from 10 A characteristic C | |
| output | | |
| voltage curve at output | Controlled, isolated DC voltage | |
| output voltage at DC rated value | 12 V | |
| output voltage | | |
| at output 1 at DC rated value | 12 V | |
| output voltage adjustable | Yes; via potentiometer 11.5 15.5 V | |
| adjustable output voltage | | |
| relative control precision of the output voltage | | |
| on slow fluctuation of input voltage | 0.1 % | |
| on slow fluctuation of ohm loading | 1 % | |
| residual ripple | | |
| maximum | 150 mV | |
| • typical | 20 mV | |
| voltage peak | | |
| • maximum | 240 mV | |
| • typical | 100 mV | |
| display version for normal operation | Green LED for 12 V OK | |
| type of signal at output | Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK | |
| behavior of the output voltage when switching on | Overshoot of Vout < 3 % | |
| response delay maximum | 0.3 s | |
| | | |

| • typical | 10 ms | | |
|--|---|--|--|
| output current | | | |
| rated value | 14 A | | |
| rated range | 0 14 A; +50 +70 °C: Derating 3.5%/K | | |
| supplied active power typical | 168 W | | |
| short-term overload current | | | |
| on short-circuiting during the start-up typical | 40 A | | |
| at short-circuit during operation typical | 40 A | | |
| duration of overloading capability for excess current | | | |
| on short-circuiting during the start-up | 800 ms | | |
| at short-circuit during operation | 800 ms | | |
| bridging of equipment | Yes | | |
| number of parallel-switched equipment resources for increasing | 2 | | |
| the power | | | |
| efficiency | | | |
| efficiency in percent | 87 % | | |
| power loss [W] | | | |
| at rated output voltage for rated value of the output current typical | 24 W | | |
| closed-loop control | | | |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 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 | < 20 V | | |
| property of the output short-circuit proof | Yes | | |
| design of short-circuit protection | Constant current characteristic | | |
| response value current limitation | 14 16.4 A | | |
| overcurrent overload capability | | | |
| • in normal operation | overload capability 150 % lout rated up to 5 s/min | | |
| enduring short circuit current RMS value | | | |
| • typical | 16.4 A | | |
| safety | | | |
| galvanic isolation between input and output | Yes | | |
| galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 | | |
| operating resource protection class | Class I | | |
| leakage current | Ciddo i | | |
| maximum | 3.5 mA | | |
| • typical | 0.8 mA | | |
| protection class IP | IP20 | | |
| standard | 11 20 | | |
| for emitted interference | EN 55022 Class B | | |
| for emitted interference for mains harmonics limitation | EN 61000-3-2 | | |
| | | | |
| for interference immunity standards appairing approvals | EN 61000-6-2 | | |
| standards, specifications, approvals | | | |
| certificate of suitability | Von | | |
| • 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) | | |
| EAC approval | Yes | | |
| NEC Class 2 | No | | |
| type of certification | | | |
| CB-certificate | Yes | | |
| MTBF at 40 °C | 1 614 510 h | | |
| standards, specifications, approvals hazardous environments | | | |
| certificate of suitability | | | |
| • IECEx | No | | |
| • ATEX | No | | |
| | | | |

| ULhazloc approval | No |
|---|--|
| cCSAus, Class 1, Division 2 | No |
| FM registration | No |
| standards, specifications, approvals marine classification | |
| shipbuilding approval | Yes |
| Marine classification association | |
| American Bureau of Shipping Europe Ltd. (ABS) | No |
| French marine classification society (BV) | No |
| Det Norske Veritas (DNV) | Yes |
| Lloyds Register of Shipping (LRS) | No |
| standards, specifications, approvals Environmental Product Dec | claration |
| Environmental Product Declaration | Yes |
| Global Warming Potential [CO2 eq] | |
| • total | 769.3 kg |
| during manufacturing | 18.1 kg |
| during operation | 750.6 kg |
| after end of life | 0.49 kg |
| ambient conditions | |
| ambient temperature | |
| during operation | -25 +70 °C; with natural convection |
| during transport | -40 +85 °C |
| • 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 terminal |
| • at input | L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded |
| • at output | +, -: 2 screw terminals each for 0.5 2.5 mm ² |
| • for auxiliary contacts | Alarm signals: 2 screw terminals for 0.5 2.5 mm ² |
| for signaling contact | 2 screw terminals for 0.5 2.5 mm ² |
| mechanical data | 70 × 120 |
| width × height × depth of the enclosure installation width × mounting height | 70 × 120 |
| required spacing | 70 min |
| • top | 50 mm |
| • | 50 mm |
| hottom | |
| bottom left | |
| ● left | 0 mm |
| left right | 0 mm 0 mm |
| left right fastening method | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 |
| left right | 0 mm 0 mm |
| left right fastening method standard rail mounting | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes |
| left right fastening method standard rail mounting S7 rail mounting | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No |
| I left right fastening method standard rail mounting S7 rail mounting wall mounting | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No |
| left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes |
| left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes |
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| In left In right In right In fastening method In standard rail mounting In wall mounting In wall mounting In the standard rail rail rail rail rail rail rail rail | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.7 kg https://mall.industry.siemens.com https://siemens.com/tst http://www.siemens.com/simatic-net http://www.siemens.com/cax https://support.industry.siemens.com Specifications at rated input voltage and ambient temperature +25 °C (unless |
| In left In right In right In stening method In standard rail mounting In ST rail mounting In wall mounting In wall mounting In weight In turther information internet links Internet link Internet | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.7 kg https://mall.industry.siemens.com https://siemens.com/tst http://www.siemens.com/simatic-net http://www.siemens.com/cax https://support.industry.siemens.com |
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| Internet link I | 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.7 kg https://mall.industry.siemens.com https://siemens.com/tst http://www.siemens.com/simatic-net http://www.siemens.com/cax https://support.industry.siemens.com Specifications at rated input voltage and ambient temperature +25 °C (unless |

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 | 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



Miscellaneous



IECEx



CCC-Ex



Marine / Shipping

Environment





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