

6EP1332-1SH12 (EAN: 4025515150114)**SITOP POWER 24 V/2.5 A****Technical data**

SITOP POWER 24 V/2.5 A

***** spare part ***** SITOP power 2.5 A, Univ. Line stabilized power supply input: 120-230 V AC (110-350 V DC) output: 24 V DC/2.5 A,

| Input | |
|--|---|
| type of the power supply network | 1-phase AC or DC |
| supply voltage at AC | |
| • minimum rated value | 120 V |
| • maximum rated value | 230 V |
| • initial value | 93 V |
| • full-scale value | 264 V |
| input voltage | |
| • at DC | 110 ... 350 V |
| design of input wide range input | Yes |
| overvoltage overload capability | 2.3 × Vin rated, 1.3 ms |
| operating condition of the mains buffering | at Vin = 120 V, > 80 ms (typ. 100 ms) at Vin = 187 V |
| 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 = 120 V, > 80 ms (typ. 100 ms) at Vin = 187 V |
| line frequency | |
| • 1 rated value | 50 Hz |
| • 2 rated value | 60 Hz |
| line frequency | 47 ... 63 Hz |
| input current | |
| • at rated input voltage 120 V | 1.3 A |
| • at rated input voltage 230 V | 0.7 A |
| current limitation of inrush current at 25 °C maximum | 33 A |
| duration of inrush current limiting at 25 °C | |
| • maximum | 3 ms |
| I2t value maximum | 3.5 A ² ·s |
| fuse protection type | T 3.15 A (not accessible) |
| • in the feeder | Recommended: 2-pole miniature circuit breaker from 10 A characteristic C or from 6 A characteristic D |
| 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 |
| 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 | 50 mV |
| • typical | 40 mV |
| voltage peak | |
| • maximum | 100 mV |
| • typical | 40 mV |
| product function output voltage adjustable | No |
| type of output voltage setting | - |
| display version for normal operation | Green LED for 24 V OK |
| behavior of the output voltage when switching on | No overshoot of Vout (soft start) |
| response delay maximum | 0.6 s |
| voltage increase time of the output voltage | |
| • typical | 20 ms |
| output current | |
| • rated value | 2.5 A |
| • rated range | 0 ... 2.5 A |
| supplied active power typical | 60 W |
| constant overload current | |

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| <ul style="list-style-type: none"> ● on short-circuiting during the start-up typical | 2.8 A |
| <ul style="list-style-type: none"> ● at short-circuit during operation typical | 2.8 A |
| product feature | |
| <ul style="list-style-type: none"> ● bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing the power | 10 |
| Efficiency | |
| efficiency in percent | 85 % |
| power loss [W] | |
| <ul style="list-style-type: none"> ● at rated output voltage for rated value of the output current typical | 11 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 | 0.5 % |
| 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 |
| setting time | |
| <ul style="list-style-type: none"> ● maximum | 2 ms |
| Protection and monitoring | |
| design of the overvoltage protection | Yes, according to EN 60950 |
| <ul style="list-style-type: none"> ● typical | 2.8 A |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Constant current characteristic |
| enduring short circuit current RMS value | |
| <ul style="list-style-type: none"> ● maximum | 3 A |
| display version for overload and short circuit | - |
| 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 I |
| leakage current | |
| <ul style="list-style-type: none"> ● maximum | 3.5 mA |
| protection class IP | IP20 |
| 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. 142), File E143289 |
| <ul style="list-style-type: none"> ● CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 |
| <ul style="list-style-type: none"> ● NEC Class 2 | No |
| <ul style="list-style-type: none"> ● EAC approval | Yes |
| type of certification | |
| <ul style="list-style-type: none"> ● CB-certificate | No |
| 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 |
| certificate of suitability 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"> ● Lloyds Register of Shipping (LRS) | No |
| <ul style="list-style-type: none"> ● Nippon Kaiji Kyokai (NK) | No |
| EMC | |
| standard | |
| <ul style="list-style-type: none"> ● for emitted interference | EN 55022 Class B |
| <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 |
| environmental conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> ● during operation | 0 ... 60 °C; with natural convection |
| <ul style="list-style-type: none"> ● during transport | -25 ... +85 °C |
| <ul style="list-style-type: none"> ● during storage | -25 ... +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| Mechanics | |
| type of electrical connection | screw-type terminals |
| <ul style="list-style-type: none"> ● at input | L, N, PE: 1 screw terminal each for 2 x 0.5 ... 1.5 mm ² finely stranded, 2 x 0.5 ... 2.5 mm ² single-core |

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| <ul style="list-style-type: none"> • at output • for auxiliary contacts | L+, M: 1 screw terminal each for 2 x 0.5 ... 2.5 mm ² |
| width of the enclosure | 80 mm |
| height of the enclosure | 135 mm |
| depth of the enclosure | 120 mm |
| required spacing | |
| <ul style="list-style-type: none"> • top | 100 mm |
| <ul style="list-style-type: none"> • bottom | 100 mm |
| <ul style="list-style-type: none"> • left | 0 mm |
| <ul style="list-style-type: none"> • right | 0 mm |
| net weight | 0.5 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | Snaps onto DIN rail EN 60715 35x15, wall mounting |
| MTBF at 40 °C | 645 161 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

Last changes: 11/07/2023