SIEMENS

Data sheet

6EP3133-0TA00-0AY0



SITOP PSU3400/DC/DC/24V/24V/5A

SITOP PSU3400 24 V/5 A Stabilized power supply Input: 24 V DC (14...32 V) Output: 24 V DC/5 A

| Input | |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| type of the power supply network | DC voltage |
| supply voltage at AC | |
| ● initial value | Startup as of 18 V, derating necessary for 14 18 V DC |
| supply voltage | |
| • at DC | 24 24 V |
| input voltage | |
| • at DC | 14 32 V |
| design of input wide range input | No |
| overvoltage overload capability | - |
| operating condition of the mains buffering | at Vin = 24 V |
| 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 Vin = 24 V |
| input current | |
| at rated input voltage 24 V | 5.5 A |
| current limitation of inrush current at 25 °C maximum | 15 A |
| I2t value maximum | 0.18 A ² ·s |
| fuse protection type | 25 A (not accessible), breaking capacity 300 A |
| • 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 |
| 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 | 0.3 % |
| residual ripple | |
| • maximum | 150 mV |
| ● typical | 15 mV |
| voltage peak | |
| • maximum | 250 mV |
| • typical | 40 mV |
| adjustable output voltage | 24 28 V |
| product function output voltage adjustable | Yes |
| type of output voltage setting | via potentiometer |
| 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 | 0.5 s |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| voltage increase time of the output voltage | |
| • typical | 10 ms |
| • maximum | 20 ms |
| output current | |
| rated value | 5 A |
| rated range | 0 6 A; 6 A up to +40°C; +60 +70 °C: Derating 2%/K |
| supplied active power typical | 130 W |
| product feature | |
| bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing | 2 |
| the power | |
| Efficiency | |
| efficiency in percent | 93 % |
| power loss [W] | |
| at rated output voltage for rated value of the output current typical | 10 W |
| 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 | 2 % |
| resistive load 50/100/50 % typical | |
| setting time | |
| load step 50 to 100% typical | 1 ms |
| load step 100 to 50% typical | 1 ms |
| Protection and monitoring | |
| design of the overvoltage protection | Ua < 35 V |
| typical | 6.5 A |
| property of the output short-circuit proof | Yes |
| | Electronic shutdown, automatic restart |
| design of short-circuit protection | |
| · · · · · · · · · · · · · · · · · · · | |
| display version for overload and short circuit | LED yellow for "overload" |
| display version for overload and short circuit Safety | |
| display version for overload and short circuit Safety galvanic isolation between input and output | LED yellow for "overload" Yes |
| display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation | LED yellow for "overload" Yes Safety extra low output voltage Vout according to EN 60950-1 |
| display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class | LED yellow for "overload" Yes Safety extra low output voltage Vout according to EN 60950-1 Class III |
| display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class protection class IP | LED yellow for "overload" Yes Safety extra low output voltage Vout according to EN 60950-1 |
| display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class protection class IP Approvals | LED yellow for "overload" Yes Safety extra low output voltage Vout according to EN 60950-1 Class III |
| display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability | LED yellow for "overload" Yes Safety extra low output voltage Vout according to EN 60950-1 Class III IP20 |
| display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability • CE marking | LED yellow for "overload" Yes Safety extra low output voltage Vout according to EN 60950-1 Class III IP20 Yes |
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| EMC | |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| standard | |
| for emitted interference | EN 61000-6-3 |
| for mains harmonics limitation | not applicable |
| for interference immunity | EN 61000-6-2 |
| environmental 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 |
| Mechanics | |
| type of electrical connection | screw-type terminals |
| • at input | L, N, FE: 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 |
| width of the enclosure | 32 mm |
| height of the enclosure | 100 mm |
| depth of the enclosure | 100 mm |
| required spacing | |
| • top | 50 mm |
| bottom | 50 mm |
| • left | 0 mm |
| • right | 0 mm |
| net weight | 0.32 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15 |
| electrical accessories | Buffer module |
| MTBF at 40 °C | 1 953 545 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

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