SIEMENS

Data sheet 6EP1332-1LD00

SITOP PSU100D/1AC/24VDC/3.1A

********** spare part ********* PSU100D 24 V /3.1 A stabilized power supply input: 100-240 V AC output: 24 V DC/3.1 A



| Input | |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| type of the power supply network | 1-phase AC |
| supply voltage at AC | |
| minimum rated value | 100 V |
| maximum rated value | 240 V |
| • initial value | 85 V |
| • full-scale value | 264 V |
| design of input wide range input | Yes |
| operating condition of the mains buffering | at Vin = 115/230 V |
| buffering time for rated value of the output current in the event of power failure minimum | 15 ms |
| operating condition of the mains buffering | at Vin = 115/230 V |
| line frequency | |
| 1 rated value | 50 Hz |
| 2 rated value | 60 Hz |
| line frequency | 47 63 Hz |
| input current | |
| at rated input voltage 100 V | 1.5 A |
| at rated input voltage 240 V | 1 A |
| current limitation of inrush current at 25 °C maximum | 60 A |
| I2t value maximum | 1.2 A ² ·s |
| fuse protection type | internal |
| • in the feeder | Recommended miniature circuit breaker: from 10 A characteristic C or from 16 A characteristic B |
| 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 | 2 % |
| relative control precision of the output voltage | |
| on slow fluctuation of input voltage | 0.5 % |
| on slow fluctuation of ohm loading | 1 % |
| residual ripple | |
| • maximum | 100 mV |
| voltage peak | |
| • maximum | 100 mV |
| adjustable output voltage | 22 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 |

| hehavior of the output voltage when switching on | Overshoot of Vout < 2 % |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| behavior of the output voltage when switching on | 2.5 s |
| response delay maximum | 2.00 |
| voltage increase time of the output voltage | 20 mg |
| maximum | 30 ms |
| output current | 0.4.4 |
| • rated value | 3.1 A |
| • rated range | 0 3.1 A; +50 +70 °C: Derating 2.5%/K |
| supplied active power typical | 75 W |
| product feature | |
| bridging of equipment | Yes |
| number of parallel-switched equipment resources for increasing the power | 2 |
| Efficiency | |
| efficiency in percent | 86 % |
| power loss [W] | 00 70 |
| | 12 W |
| at rated output voltage for rated value of the output current typical | 12 VV |
| Closed-loop control | |
| relative control precision of the output voltage with rapid | 0.5 % |
| fluctuation of the input voltage by +/- 15% typical | |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical | 5 % |
| Protection and monitoring | |
| design of the overvoltage protection | < 35 V |
| • typical | 3.7 A |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Electronic shutdown, automatic restart |
| enduring short circuit current RMS value | |
| typical | 6 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 | |
| maximum | 3.5 mA |
| • typical | 1 mA |
| protection class IP | IP20 |
| Approvals | 20 |
| | |
| certificate of suitability | Voc |
| CE marking | Yes |
| UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273 |
| CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273 |
| • cCSAus, Class 1, Division 2 | No |
| • ATEX | No |
| certificate of suitability | |
| • IECEx | No |
| NEC Class 2 | No |
| ULhazloc approval | No |
| FM registration | No |
| type of certification CB-certificate | Yes |
| certificate of suitability | |
| EAC approval | Yes |
| | |
| certificate of suitability shipbuilding approval | No |
| certificate of suitability shipbuilding approval shipbuilding approval | No - |
| | |
| shipbuilding approval | |
| shipbuilding approval Marine classification association | - |
| shipbuilding approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) | - No |

| Nippon Kaiji Kyokai (NK) | No | |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------|--|
| EMC | | |
| standard | | |
| • for emitted interference | EN 55022 Class B | |
| for mains harmonics limitation | EN 61000-3-2 | |
| • for interference immunity | EN 61000-6-2 | |
| environmental conditions | | |
| ambient temperature | | |
| during operation | -10 +70 °C; with natural convection | |
| during transport | -40 +85 °C | |
| during storage | -40 +85 °C | |
| Mechanics | | |
| type of electrical connection | screw-type terminals | |
| • at input | L, N, PE: 1 screw terminal each for 0.3 1.3 mm² single-core/finely stranded | |
| • at output | +, -: 1 screw terminal each for 0.3 1.3 mm² | |
| for auxiliary contacts | - | |
| width of the enclosure | 97 mm | |
| height of the enclosure | 128 mm | |
| depth of the enclosure | 38 mm | |
| required spacing | | |
| • top | 20 mm | |
| • bottom | 0 mm | |
| • left | 20 mm | |
| • right | 20 mm | |
| net weight | 0.37 kg | |
| fastening method | Wall mounting | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) | |

