## **SIEMENS**

Data sheet 6EP1334-7CA00



SITOP PSU100P/1AC/24VDC/8A/IP67

SITOP PSU100P IP67 Stabilized power supply input: 120/230 V AC, output: 24 V DC/8 A

| Input  |  |
|--|--|
| type of the power supply network   | 1-phase AC   |
| supply voltage at AC   |  |
| • initial value  | Automatic range selection  |
| supply voltage   |  |
| • 1 at AC rated value  | 120 V  |
| • 2 at AC rated value  | 230 V  |
| input voltage  |  |
| • 1 at AC  | 85 132 V   |
| • 2 at AC  | 170 264 V  |
| design of input wide range input   | No   |
| overvoltage overload capability  | Implemented internally with varistor                               |
| operating condition of the mains buffering   | at Vin = 120/230 V   |
| buffering time for rated value of the output current in the event of power failure minimum | 40 ms  |
| operating condition of the mains buffering   | at Vin = 120/230 V   |
| line frequency   |  |
| 1 rated value  | 50 Hz  |
| • 2 rated value  | 60 Hz  |
| line frequency   | 47 63 Hz   |
| input current  |  |
| <ul> <li>at rated input voltage 120 V</li> </ul>   | 3.5 A  |
| <ul> <li>at rated input voltage 230 V</li> </ul>   | 1.52 A   |
| current limitation of inrush current at 25 °C maximum                                      | 15 A   |
| I2t value maximum  | 0.6 A²·s   |
| fuse protection type   | T 6.3 A  |
| • in the feeder  | Recommended miniature circuit breaker: from 6 A characteristic C/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  | 3 %  |
| relative control precision of the output voltage   |  |
| on slow fluctuation of input voltage   | 0.1 %  |
| <ul> <li>on slow fluctuation of ohm loading</li> </ul>                                     | 0.2 %  |
| residual ripple  |  |
| maximum  | 50 mV  |
| voltage peak   |  |
| maximum  | 100 mV   |

| product function output voltage adjustable   | No   |
|--|--|
| product function output voltage adjustable   | No  Green LED: 24 V OK: red LED flashing: "overload/short circuit"   |
| display version for normal operation type of signal at output                                    | Green LED: 24 V OK; red LED flashing: "overload/short-circuit"  Relay contact (NO contact, rating 30 V AC/ 0.5 A; 30 V DC/1 A) for 24 V OK |
|  |  |
| behavior of the output voltage when switching on   | Overshoot of Vout < 3 %  1.5 s   |
| response delay maximum   | 1.5 \$   |
| voltage increase time of the output voltage  | 22   |
| • typical  | 23 ms  |
| • maximum  | 100 ms   |
| output current   | 0.4  |
| • rated value  | 8 A  |
| • rated range  | 0 8 A  |
| supplied active power typical  | 206 W  |
| short-term overload current  | 00.4   |
| on short-circuiting during the start-up typical  | 30 A   |
| at short-circuit during operation typical  | 30 A   |
| duration of overloading capability for excess current  |  |
| on short-circuiting during the start-up  | 50 ms  |
| at short-circuit during operation  | 50 ms  |
| product feature  |  |
| bridging of equipment  | Yes; Symmetric wiring required   |
| number of parallel-switched equipment resources for increasing                                   | 2  |
| the power  |  |
| ifficiency   | 00.0 %   |
| efficiency in percent  | 93.6 %   |
| power loss [W]   |  |
| <ul> <li>at rated output voltage for rated value of the output<br/>current typical</li> </ul>    | 13.1 W   |
| Closed-loop control  |  |
| relative control precision of the output voltage with rapid                                      | 0.2 %  |
| fluctuation of the input voltage by +/- 15% typical  |  |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical | 1 %  |
| setting time   |  |
| • maximum  | 2 ms   |
| Protection and monitoring  |  |
| design of the overvoltage protection   | < 29 V   |
| • typical  | 9 A  |
| property of the output short-circuit proof   | Yes  |
| design of short-circuit protection   | Electronic shutdown, automatic restart   |
| enduring short circuit current RMS value   |  |
| • maximum  | 9 A  |
| • typical  | 8 A  |
| display version for overload and short circuit   | Red LED flashing for "overload/short-circuit"  |
| 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  |
|  | Oldoo 1  |
| leakage current  | 2.5 mA   |
| • maximum  | 3.5 mA   |
| • typical  | 1 mA   |
| protection class IP  | IP67, enclosure type 5 indoor  |
| Approvals  |  |
| certificate of suitability   |  |
| CE marking   | Yes  |
| UL approval  | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1)  |
| CSA approval   | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1)  |
| • cCSAus, Class 1, Division 2  | No   |
| • ATEX   | No   |
| certificate of suitability   |  |
| • IECEx  | No   |
| - 1202/  | 110  |
| • NEC Class 2  | No   |

| FM registration   | No  |
|---|---|
| type of certification CB-certificate                              | No  |
|   | INO   |
| certificate of suitability  | V   |
| EAC approval  | Yes   |
| certificate of suitability shipbuilding approval                  | No  |
| shipbuilding approval   | -   |
| Marine classification association                                 |   |
| <ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul> | No  |
| <ul> <li>French marine classification society (BV)</li> </ul>     | No  |
| DNV GL  | No  |
| <ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>             | No  |
| Nippon Kaiji Kyokai (NK)  | No  |
| EMC   |   |
| standard  |   |
| • for emitted interference  | EN 55022 Class B  |
| <ul> <li>for mains harmonics limitation</li> </ul>                | EN 61000-3-2  |
| for interference immunity   | EN 61000-6-2  |
| environmental conditions  |   |
| ambient temperature   |   |
| <ul><li>during operation</li></ul>                                | -25 +60 °C; with natural convection   |
| <ul> <li>during transport</li> </ul>                              | -40 +85 °C  |
| during storage  | -40 +85 °C  |
| environmental category according to IEC 60721                     | 3K6 without direct sunlight   |
| Mechanics   |   |
| type of electrical connection                                     | screw-type terminals  |
| • at input  | L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")               |
| • at output   | +, -: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")                    |
| for auxiliary contacts  | Alarm signals: M12 plug-in connector 4-pin  |
| product function  |   |
| <ul> <li>removable terminal at input</li> </ul>                   | Yes   |
| • removable terminal at output                                    | Yes   |
| width of the enclosure  | 120 mm  |
| height of the enclosure   | 181 mm  |
| depth of the enclosure  | 60.5 mm   |
| required spacing  |   |
| • top   | 50 mm   |
| • bottom  | 0 mm  |
| • left  | 0 mm  |
| • right   | 0 mm  |
| net weight  | 1.3 kg  |
| product feature of the enclosure housing can be lined up          | Yes   |
| fastening method  | Wall mounting   |
| MTBF at 40 °C   | 800 000 h   |
| other information   | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

