SIEMENS

Data sheet

Immunt

6EP1337-3BA00

SITOP PSU100M/1AC/24VDC/40A

SITOP PSU100M 40 A Stabilized power supply Input: 120/230 V AC Output: 24 V DC/40 A !!!!Phased-out product!!!! Successor: 6EP3337-8SB00-0AY0 *Ex approval no longer available*



| Input | |
|--|--|
| type of the power supply network | 1-phase AC |
| supply voltage at AC | |
| initial value | Set by means of wire jumper on the device; starting from Vin > 95/190 V |
| 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 | 176 264 V |
| design of input wide range input | No |
| overvoltage overload capability | 2.3 × Vin rated, 1.3 ms |
| operating condition of the mains buffering | at Vin = 230 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 = 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 120 V | 15 A |
| at rated input voltage 230 V | 8 A |
| current limitation of inrush current at 25 °C maximum | 125 A |
| l2t value maximum | 26 A ² ·s |
| fuse protection type | Yes |
| • in the feeder | Recommended miniature circuit breaker at 1-phase operation: 20 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 V) |
| Dutput | |
| 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 % |
| on slow fluctuation of ohm loading | 0.1 % |
| residual ripple | |

| a maximum | 100 m)/ |
|---|--|
| • maximum | 100 mV |
| typical | 60 mV |
| voltage peak | 200 |
| • maximum | 200 mV |
| typical | 120 mV |
| adjustable output voltage | 24 28.8 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 |
| type of signal at output | via signaling module (6EP1961-3BA10) |
| behavior of the output voltage when switching on | Overshoot of Vout approx. 3 % |
| response delay maximum | 0.1 s |
| voltage increase time of the output voltage | |
| • typical | 50 ms |
| output current | |
| rated value | 40 A |
| rated range | 0 40 A; +60 +70 °C: Derating 2.5%/K |
| supplied active power typical | 960 W |
| short-term overload current | |
| at short-circuit during operation typical | 120 A |
| duration of overloading capability for excess current | |
| at short-circuit during operation | 25 ms |
| constant overload current | |
| on short-circuiting during the start-up typical | 46 A |
| product feature | |
| bridging of equipment | Yes; switchable characteristic |
| number of parallel-switched equipment resources for | 2 |
| increasing the power | |
| Efficiency | |
| efficiency in percent | 88 % |
| power loss [W] | |
| | |
| at rated output voltage for rated value of the output current typical | 131 W |
| at rated output voltage for rated value of the output | 131 W |
| at rated output voltage for rated value of the output current typical | 131 W 1 % |
| at rated output voltage for rated value of the output current typical Closed-loop control relative control precision of the output voltage with rapid | |
| • at rated output voltage for rated value of the output current typical Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of | 1 % |
| at rated output voltage for rated value of the output current typical Closed-loop control relative control precision of the output voltage with rapid 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 % |
| • at rated output voltage for rated value of the output current typical Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time | 1 % 2 % |
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| certificate of suitability | |
|---|--|
| CE marking | Yes |
| UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| 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 | No |
| certificate of suitability | |
| EAC approval | Yes |
| certificate of suitability shipbuilding approval | No |
| shipbuilding approval | - |
| Marine classification association | |
| American Bureau of Shipping Europe Ltd. (ABS) | No |
| French marine classification society (BV) | No |
| • DNV GL | No |
| Lloyds Register of Shipping (LRS) | No |
| Nippon Kaiji Kyokai (NK) | No |
| EMC | |
| standard | |
| for emitted interference | EN 55022 Class B |
| for mains harmonics limitation | - |
| for interference immunity | EN 61000-6-2 |
| environmental conditions | |
| ambient temperature | |
| during operation | 0 70 °C; with natural convection |
| during transport | -40 +85 °C |
| during storage | -40 +85 °C |
| environmental category acc. to IEC 60721 | Climate class 3K3, 5 95% no condensation |
| Mechanics | |
| type of electrical connection | screw-type terminals |
| at input | L, N, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely |
| | stranded |
| at output | +, -: 2 screw terminals each for 0.5 10 mm ² |
| for auxiliary contacts | - |
| width of the enclosure | 240 mm |
| height of the enclosure | 125 mm |
| depth of the enclosure | 125 mm |
| required spacing | |
| • top | 50 mm |
| bottom | 50 mm |
| • left | 0 mm |
| ● right | 0 mm |
| net weight | 2.9 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | Snaps onto DIN rail EN 60715 35x15 |
| electrical accessories | |
| | Buffer module, signaling module |
| MTBF at 40 °C | Buffer module, signaling module 540 249 h |

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