## SIEMENS

## 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: 6EP3337-8SB00-0AYO *Ex approval no longer available*


Input
type of the power supply network
supply voltage at AC

- initial value
supply voltage
- 1 at AC rated value
- 2 at AC rated value
input voltage
- 1 at AC
- 2 at AC
design of input wide range input
overvoltage overload capability
operating condition of the mains buffering
buffering time for rated value of the output current in the event of power failure minimum
operating condition of the mains buffering
line frequency
- 1 rated value
- 2 rated value
line frequency
input current
- at rated input voltage 120 V
- at rated input voltage 230 V
current limitation of inrush current at $25^{\circ} \mathrm{C}$ maximum
I2t value maximum
fuse protection type
- in the feeder

1-phase AC

Set by means of wire jumper on the device; starting from Vin > 95/190 V

120 V
230 V

85 ... 132 V
176 ... 264 V
No
$2.3 \times$ Vin rated, 1.3 ms
at $\mathrm{Vin}=230 \mathrm{~V}$
20 ms
at $\mathrm{Vin}=230 \mathrm{~V}$

50 Hz
60 Hz
$47 \ldots 63 \mathrm{~Hz}$

15 A
8 A
125 A
$26 \mathrm{~A}^{2} \cdot \mathrm{~s}$
Yes
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 3RV24111JA10 (230 V)

Output
voltage curve at output
output voltage at DC rated value
Controlled, isolated DC voltage
output voltage

- at output 1 at DC rated value 24 V
relative overall tolerance of the voltage
relative control precision of the output voltage
- on slow fluctuation of input voltage
- on slow fluctuation of ohm loading
residual ripple
- maximum
- typical
voltage peak
- maximum
- typical
adjustable output voltage
product function output voltage adjustable
type of output voltage setting
display version for normal operation
type of signal at output
behavior of the output voltage when switching on response delay maximum
voltage increase time of the output voltage
- typical
output current
- rated value
- rated range
supplied active power typical
short-term overload current
- at short-circuit during operation typical
duration of overloading capability for excess current
- at short-circuit during operation
constant overload current
- on short-circuiting during the start-up typical
product feature
- bridging of equipment
number of parallel-switched equipment resources for increasing the power

200 mV
120 mV
24 ... 28.8 V
Yes
via potentiometer
Green LED for 24 V OK
via signaling module (6EP1961-3BA10)
Overshoot of Vout approx. 3 \%
0.1 s

50 ms

40 A
0 ... $40 \mathrm{~A} ;+60 \ldots+70^{\circ} \mathrm{C}$ : Derating 2.5\%/K
960 W

120 A

25 ms

## 46 A

Yes; switchable characteristic
2

| Efficiency |  |
| :--- | :--- |
| efficiency in percent <br> power loss [W] <br> • at rated output voltage for rated value of the output <br> current typical | 131 W |


| Closed-loop control |  |
| :---: | :---: |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by $+/-15 \%$ typical | 1 \% |
| relative control precision of the output voltage load step of resistive load 50/100/50 \% typical setting time | 2 \% |
| - load step 50 to 100\% typical | 2 ms |
| - load step 100 to 50\% typical | 2 ms |
| setting time |  |
| - maximum | 5 ms |
| Protection and monitoring |  |
| design of the overvoltage protection | $<35 \mathrm{~V}$ |
| - typical | 46 A |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Alternatively, constant current characteristic approx. 46 A or latching shutdown |
| enduring short circuit current RMS value |  |
| $\bullet$ typical | 46 A |
| display version for overload and short circuit | LED yellow for "overload", LED red for "latching shutdown" |
| 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 |
| leakage current |  |
| - maximum | 3.5 mA |
| - typical | 0.4 mA |
| protection class IP | IP20 |

## Approvals

## 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
- ATEX
certificate of suitability
- IECEx
- NEC Class 2
- ULhazloc approval
- FM registration
type of certification CB-certificate
certificate of suitability
- EAC approval
certificate of suitability shipbuilding approval
shipbuilding approval
Marine classification association
- American Bureau of Shipping Europe Ltd. (ABS)
- French marine classification society (BV)
- DNV GL
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (NK)
standard
- for emitted interference
- for mains harmonics limitation
- for interference immunity
environmental conditions
ambient temperature
- during operation
- during transport
- during storage
environmental category according to IEC 60721
Mechanics
type of electrical connection
- at input
- at output
- for auxiliary contacts
width of the enclosure
height of the enclosure
depth of the enclosure
required spacing
- top
- bottom
- left
- right
net weight
product feature of the enclosure housing can be lined up
fastening method
electrical accessories
MTBF at $40^{\circ} \mathrm{C}$
other information

No

No
No
No
No
No

Yes
No
-

No
No
No
No
No

