## 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	
<ul> <li>initial value</li> </ul>	Set by means of wire jumper on the device; starting from Vin > 95/190 V
supply voltage	
<ul> <li>1 at AC rated value</li> </ul>	120 V
<ul> <li>2 at AC rated value</li> </ul>	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	
<ul> <li>1 rated value</li> </ul>	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	15 A
<ul> <li>at rated input voltage 230 V</li> </ul>	8 A
current limitation of inrush current at 25 °C maximum	125 A
l2t value maximum	26 A <sup>2</sup> ·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	
<ul> <li>at output 1 at DC rated value</li> </ul>	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	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	
<ul> <li>at short-circuit during operation typical</li> </ul>	120 A
duration of overloading capability for excess current	
<ul> <li>at short-circuit during operation</li> </ul>	25 ms
constant overload current	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	46 A
product feature	
<ul> <li>bridging of equipment</li> </ul>	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	88 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	131 W
<ul> <li>at rated output voltage for rated value of the output</li> </ul>	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 %
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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
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
<ul> <li>FM registration</li> </ul>	No
type of certification CB-certificate	No
certificate of suitability	
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
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	-
<ul> <li>for interference immunity</li> </ul>	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 <sup>2</sup> single-core/finely
	stranded
<ul> <li>at output</li> </ul>	+, -: 2 screw terminals each for 0.5 10 mm <sup>2</sup>
<ul> <li>for auxiliary contacts</li> </ul>	-
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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