## **SIEMENS**

Data sheet 6EP1433-0AA00



## SITOP PSU300E/3AC/24VDC/5A

SITOP PSU300E 24 V/5 A Stabilized power supply input: 3 AC 400-500 V output: 24 V DC/5 A

Input	
type of the power supply network	3-phase AC
supply voltage at AC	
<ul> <li>minimum rated value</li> </ul>	400 V
<ul> <li>maximum rated value</li> </ul>	500 V
• initial value	320 V
full-scale value	550 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 400 V
buffering time for rated value of the output current in the event of power failure minimum	50 ms
operating condition of the mains buffering	at Vin = 400 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 400 V</li> </ul>	0.36 A
at rated input voltage 500 V	0.29 A
current limitation of inrush current at 25 °C maximum	15 A
I2t value maximum	0.9 A²·s
fuse protection type	none
• in the feeder	Required: 3-pole connected miniature circuit breaker 6 A characteristic B or C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
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	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	3 %
on slow fluctuation of ohm loading	3 %
residual ripple	
• maximum	150 mV
• typical	35 mV
voltage peak	
• maximum	240 mV
• typical	70 mV

adjustable output valtage	24 20 V
adjustable output voltage	24 29 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 120 W
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	10 ms
• maximum	100 ms
output current	
• rated value	5 A
• rated range	0 5 A
supplied active power typical	120 W
short-term overload current	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	33 A
at short-circuit during operation typical	28 A
duration of overloading capability for excess current	
<ul> <li>on short-circuiting during the start-up</li> </ul>	140 ms
at short-circuit during operation	135 ms
product feature	
bridging of equipment	No
Efficiency	
efficiency in percent	90 %
power loss [W]	
at rated output voltage for rated value of the output	13 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	5 %
setting time	
<ul> <li>load step 50 to 100% typical</li> </ul>	1 ms
● load step 100 to 50% typical	1 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	1 %
setting time	
<ul> <li>load step 10 to 90% typical</li> </ul>	1 ms
<ul> <li>load step 90 to 10% typical</li> </ul>	1 ms
• maximum	30 ms
Protection and monitoring	
design of the overvoltage protection	Yes, according to EN 60950-1
response value current limitation typical	11 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	7.5 A
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
protection class IP	IP20
Approvals	11 20
certificate of suitability	Voc
CE marking     Ul approval	Yes Voca el II vo Lietod (III E09, CSA C22, 2 No. 107, 1). File F107250
UL approval     CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval     CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• cCSAus, Class 1, Division 2	No
• ATEX	No

No No No No Yes No -
No No No Yes No -
No No Yes No - No
No No Yes No - No
No Yes No - No
Yes No -
No - No
No - No
- No
No
No
No
No
No
EN 55022 Class A
EN 61000-3-2
EN 61000-6-2
0 60 °C; with natural convection
-40 +85 °C
-40 +85 °C
Climate class 3K3, 5 95% no condensation
Climate class 3K3, 5 95% no condensation
screw-type terminals
L1, L2, L3, PE: Removable screw terminal for 0.5 2.5 mm² single-core/finely stranded
+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>
13, 14 (alarm signal): 1 screw terminal each for 0.5 2.5 mm <sup>2</sup>
Yes
Yes
42 mm
125 mm
125 mm
50 mm
50 mm
0 mm
0 mm
0.6 kg
Yes
Snaps onto DIN rail EN 60715 35x7.5/15
2 389 441 h
Specifications at rated input voltage and ambient temperature +25 °C

