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

nput		
type of the power supply network	3-phase AC	
supply voltage at AC		
minimum rated value	400 V	
 maximum rated value 	500 V	
initial value	320 V	
full-scale value	550 V	
wide range input	Yes	
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	50/60 Hz	
line frequency	47 63 Hz	
input current		
at rated input voltage 400 V	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	
fuse protection type 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)	
utput		
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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	24 29 V; max. 120 W	
relative overall tolerance of the voltage	3 %	
relative control precision of the output voltage		
on slow fluctuation of input voltage	3 %	
on slow fluctuation of ohm loading	3 %	
residual ripple		
maximum	150 mV	
• typical	35 mV	
voltage peak		
• maximum	240 mV	
• typical	70 mV	
display version for normal operation	Green LED for 24 V OK	
···	e of signal at output Relay 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	
	120 W	
supplied active power typical short-term overload current	120 W	
on short-circuiting during the start-up typical	33 A	
at short-circuit during operation typical	28 A	
duration of overloading capability for excess current	2011	
on short-circuiting during the start-up	140 ms	
at short-circuit during operation	135 ms	
bridging of equipment	No	
efficiency		
efficiency in percent	90 %	
power loss [W]		
at rated output voltage for rated value of the output current typical	13 W	
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		
 load step 50 to 100% typical 	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		
 load step 10 to 90% typical 	1 ms	
load step 90 to 10% typical	1 ms	
• maximum	30 ms	
protection and monitoring		
design of the overvoltage protection	Yes, according to EN 60950-1	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Electronic shutdown, automatic restart	
typical typical	11 A	
enduring short circuit current RMS value	754	
• maximum	7.5 A	
safety	V	
galvanic isolation between input and output	Yes Safety extra law output voltage Light age to EN 60050 1 and EN 50179	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
operating resource protection class	Class I IP20	
protection class IP EMC	II 20	
standard		
for emitted interference	EN 55022 Class A	
for mains harmonics limitation	EN 61000-3-2	
for interference immunity	EN 61000-6-2	
standards, specifications, 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	
EAC approval	Yes	
• NEC Class 2	No	
type of certification		
CB-certificate	No	

MTBF at 40 °C	2 389 441 h		
standards, specifications, approvals hazardous environments			
certificate of suitability			
IECEx	No		
• ATEX	No No		
ULhazloc approval	No		
• cCSAus, Class 1, Division 2	No		
• FM registration	No		
standards, specifications, approvals marine classification			
shipbuilding approval	No		
Marine classification association			
American Bureau of Shipping Europe Ltd. (ABS)	No		
French marine classification society (BV)	No		
Det Norske Veritas (DNV)	No		
Lloyds Register of Shipping (LRS)	No		
ambient conditions			
ambient temperature			
during operation	0 60 °C; with natural convection		
during transport	-40 +85 °C		
during storage	-40 +85 °C		
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation		
connection method			
type of electrical connection	screw terminal		
• at input	L1, L2, L3, PE: Removable screw terminal for 0.5 2.5 mm² single-core/finely stranded		
• at output	+, -: 2 screw terminals each for 0.5 2.5 mm²		
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.5 2.5 mm ²		
removable terminal at input	Yes		
removable terminal at output	Yes		
mechanical data			
width × height × depth of the enclosure	42 × 125 × 125 mm		
installation width × mounting height	42 mm × 225 mm		
required spacing			
• top	50 mm		
• bottom	50 mm		
• left	0 mm		
• right	0 mm		
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15		
DIN-rail mounting S7 rail mounting	Yes		
S7 rail mounting wall mounting	No No		
wall mounting housing can be lined up	No Vac		
housing can be lined up net weight	Yes 0.6 kg		
further information internet links	5.0 Ng		
internet link			
to website: Industry Mall	https://mall.industry.siemens.com		
to website. Industry Main to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud		
to web page: Selection and TIA Selection Tool to web page: power supplies			
to web page, power supplies to website: CAx-Download-Manager	https://siemens.com/sitop https://siemens.com/cax		
to website: CAx-Download-Manager to website: Industry Online Support	https://support.industry.siemens.com		
additional information	The state of the s		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless		
	otherwise specified)		
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or		

network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval



Manufacturer Declaration





last modified:

4/4/2025