SIEMENS

Data sheet 6EP1433-2BA20



SITOP PSU300S/3AC/24VDC/5A

SITOP PSU300S 24 V/5 A Stabilized power supply input: 400-500 V 3 AC output: 24 V DC/5 A *Ex approval no longer available*

type of the power supply network	3-phase AC	
supply voltage at AC minimum rated value	400 500 V	
supply voltage at AC maximum rated value	400 500 V	
	340 550 V	
supply voltage at AC full peaks value	340 550 V	
supply voltage at AC full-scale value	V.	
wide range input	Yes	
buffering time for rated value of the output current in the event of power failure minimum	18 ms	
operating condition of the mains buffering	at Vin = 400 V	
line frequency	50/60 Hz	
line frequency initial value	47 63 Hz	
line frequency full-scale value		
input current		
 at rated input voltage 400 V 	0.45 A	
 at rated input voltage 500 V 	0.4 A	
current limitation of inrush current at 25 °C maximum	20 A	
I2t value maximum	0.5 A²·s	
fuse protection type	none	
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 3 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489-listed, DIVQ)	
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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage initial value	24 V	
adjustable output voltage full-scale value	28 V; max. 120 W	
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		
maximum	200 mV	
voltage peak		
• maximum	240 mV	
display version for normal operation	Green LED for 24 V OK	
<u> </u>	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	
type of signal at output		

response delay maximum	1.5 s	
voltage increase time of the output voltage		
• typical	60 ms	
maximum	500 ms	
output current		
rated value	5 A	
rated range	0 5 A; 6 A up to +45°C; +60 +70 °C: Derating 5%/K	
supplied active power typical	120 W	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency in percent	89.5 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	14 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	1 %	
setting time		
 load step 50 to 100% typical 	3 ms	
load step 100 to 50% typical ■	3 ms	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %	
setting time		
load step 10 to 90% typical	4 ms	
load step 90 to 10% typical	4 ms	
• maximum	10 ms	
protection and monitoring	TO THE	
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 35 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
design of short chedit protestion	Constant current characteristic	
response value current limitation typical	6.6 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value	oronous supusmit, 100 % four tales up to 0 0.11mi	
maximum	8 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, transformer acc. to EN 61558-2-16	
operating resource protection class	Class I	
protection class IP	IP20	
standard		
for emitted interference	EN 55022 Class B	
for mains harmonics limitation	EN 61000-3-2	
for interference immunity	E11 01000 0 E	
standards, specifications, approvals		
PROPERTY OF THE PROPERTY OF TH	EN 61000-6-2	
certificate of suitability	EN 61000-6-2	
certificate of suitability • CE marking	EN 61000-6-2 Yes	
certificate of suitability CE marking UL approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
certificate of suitability CE marking UL approval CSA approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
certificate of suitability CE marking UL approval CSA approval EAC approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes	
certificate of suitability CE marking UL approval CSA approval EAC approval NEC Class 2	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
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certificate of suitability CE marking UL approval CSA approval EAC approval NEC Class 2	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes	
certificate of suitability CE marking UL approval CSA approval EAC approval NEC Class 2	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes No	
certificate of suitability CE marking UL approval CSA approval EAC approval NEC Class 2 type of certification BIS	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes No Yes; R-41183539	

certificate of suitability				
● IECEx	No			
• ATEX	No			
ULhazloc approval	No			
 cCSAus, Class 1, Division 2 	No			
FM registration	No			
standards, specifications, approvals marine classification				
shipbuilding approval	Yes			
Marine classification association				
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes			
 French marine classification society (BV) 	No			
Det Norske Veritas (DNV)	Yes			
Lloyds Register of Shipping (LRS)	No			
standards, specifications, approvals Environmental Product De	claration			
Environmental Product Declaration	Yes			
Global Warming Potential [CO2 eq]				
• total	451.2 kg			
during manufacturing	12.9 kg			
during operation	437.8 kg			
after end of life	0.35 kg			
ambient conditions				
ambient temperature				
during operation	-25 +70 °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-type terminals			
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.05 2.5 mm² single-core/finely stranded			
at output	+, -: 2 screw terminals each for 0.2 2.5 mm ²			
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.2 2.5 mm ²			
mechanical data	10, 14 (diami signar). I solow terminal each for 0.2 2.0 min			
width × height × depth of the enclosure	50 × 125 × 120 mm			
installation width × mounting height	50 × 225 mm			
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15			
standard rail mounting	Yes			
S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.5 kg			
accessories				
electrical accessories	Redundancy module, buffer module, selectivity module, DC UPS			
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20			
further information internet links	,			
internet link				
to web page: selection aid TIA Selection Tool	https://siemens.com/tst			
to web page: selection and this delection roof to website: Industrial communication	http://www.siemens.com/simatic-net			
to website: CAx-Download-Manager	http://www.siemens.com/cax			
additional information				
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 security 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 security 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 security			

measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. 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 Security RSS Feed under https://www.siemens.com/cert. (V4.6)

Classifications

	Version	Classification
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



Declaration of Conformity





General Product Approval

For use in hazardous locations

Marine / Shipping



CCC-Ex









Marine / Shipping

Environment





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