SIEMENS

Data sheet 6EP1331-5BA00



SITOP PSU100C/1ACDC/24VDC/0.6A

SITOP PSU100C 24 V/0.6 A stabilized power supply input: 100-230 V AC (110-300 V DC) output: 24 V DC/0.6 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
minimum rated value	100 V
 maximum rated value 	230 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 300 V
design of input wide range input	Yes
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	
1 rated value	50 Hz
2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 100 V 	0.28 A
 at rated input voltage 230 V 	0.18 A
current limitation of inrush current at 25 °C maximum	28 A
I2t value maximum	0.7 A ² ·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C

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	
 on slow fluctuation of input voltage 	0.1 %
 on slow fluctuation of ohm loading 	0.2 %
residual ripple	
• maximum	200 mV
typical	40 mV
voltage peak	
• maximum	300 mV
• typical	20 mV

product function output violage setting display version for normal operation display version for normal operation of response delay maximum violage increase time of the output voltage • typical output current • rated value • rated rating • rated rating • rated rating • rated rating • rated value • rated rating • rated value • rated rating • rated output voltage product for a supplied active power typical • rated origing of equipment • rate thort-circuit during operation typical • roticing of equipment • rate abort-circuit during operation typical • roticing of equipment • rate abort-circuit during operation typical • roticing of equipment • rate abort-circuit during operation maximum • roticing of equipment • rate abort-circuit during operation maximum • roticing of equipment • rate abort-circuit during operation maximum • roticing of equipment • rate abort-circuit product beater • rate abort-circuit product operation of the output voltage with rapid froutbaction of the input voltage by 1-15% typical • during no-load operation maximum • roticestion and 1000010 % typical • load step 10 to 00% typical • spical property of the output short-circuit proof design of the over-outbage protection • typical protection and monitoring design of the over-outbage protection • typical protection and monitoring • Carl property of the output short-circuit proof • typical protection and monitoring • Carl property of the output short-circuit profection operating resource protection class elabage current • maximum • typical • CSA approval •		XI
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* rated range supplied active power typical short-term overload current • at short-circuit during operation typical • bridging of equipment • current typical • during no-load operation maximum • closed-loap control • relative control precision of the output voltage with rapid fluctuation of the input voltage by *1 - 15% typical • during no-load operation of the output voltage with rapid fluctuation of the input voltage by *1 - 15% typical • load step 10 to 10 % typical • load step 90 to 10% typical • representation and monitoring design of the overviotage protection • typical property of the output short-circuit proof design of short-circuit profection • typical galvanci isolation between input and output galvanci isolation of overload and short circuit • maximum • typical protection class IP Paptrovals c-CE marking • CE marking •	output current	
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NEC class 2 (acc. to UL 1310) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) CCSAus, Class 1, Division 2 ATEX No certificate of suitability IECEX NO NEC Class 2 ULhazloc approval FM registration No type of certificate of Suitability EAC approval certificate of suitability EAC approval Certificate of suitability Yes Yes certificate of suitability Yes Yes	UL approval	
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shipbuilding approval ABS, DNV GL		
	shipbuilding approval	ABS, DNV GL

Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV) Pany Cl	No
• DNV GL	Yes
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55022 Class B
 for mains harmonics limitation 	not applicable
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-20 +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
Mechanics	
type of electrical connection	screw-type terminals
• at input	L, N, PE: Removable screw terminal, each for 1 x 0.5 2.5 mm ²
• at output	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm²
 for auxiliary contacts 	-
width of the enclosure	22.5 mm
height of the enclosure	80 mm
depth of the enclosure	100 mm
required spacing	
 top 	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.12 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Removable spring-type terminal 6EP1971-5BA00
MTBF at 40 °C	3 910 833 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

