## **SIEMENS**

Data sheet 6EP1331-5BA10



SITOP PSU100C/1ACDC/24VDC/1.3A

SITOP PSU100C 24 V/1.3 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 24 V DC/1.3 A

-phase AC or DC  00 V  230 V  25 V  264 V  10 300 V  Yes	
230 V 25 V 264 V 10 300 V Yes	
230 V 25 V 264 V 10 300 V Yes	
25 V 264 V 10 300 V Yes	
10 300 V 'es	
10 300 V ⁄es	
/es	
2 x Vin rotad 1 2 mg	
2.3 × Vin rated, 1.3 ms	
0 ms	
it Vin = 230 V	
50/60 Hz	
7 63 Hz	
0.63 A	
0.31 A	
34 A	
1.2 A <sup>2</sup> ·s	
internal	
Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C	
Controlled, isolated DC voltage	
4 V	
4 V	
Yes; via potentiometer	
22.2 26.4 V	
%	
0.1 %	
0.2 %	
200 mV	
75 mV	
900 mV	
20 mV	
344 344 344 344 344 344 344 344 344 344	

	0 150 1 1 1 1 01	
display version for normal operation	Green LED for output voltage OK	
behavior of the output voltage when switching on	Overshoot of Vout approx. 5 %	
response delay maximum	0.6 s	
voltage increase time of the output voltage		
• typical	90 ms	
output current		
rated value	1.3 A	
rated range	0 1.3 A; +60 +70 °C: Derating 0.8%/K; at +70 °C lout rated 1.2 A	
supplied active power typical	30 W	
short-term overload current		
<ul> <li>at short-circuit during operation typical</li> </ul>	3.1 A	
bridging of equipment	Yes; Start-up with single nominal load only	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency		
efficiency in percent	86 %	
power loss [W]		
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	4.5 W	
<ul> <li>during no-load operation maximum</li> </ul>	0.75 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %	
setting time		
<ul><li>load step 10 to 90% typical</li></ul>	5 ms	
• load step 90 to 10% typical	5 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	1.4 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	
leakage current	OldSS 1	
maximum	3.5 mA	
• typical	0.4 mA	
protection class IP	IP20	
·	IP20	
EMC		
standard	EN EE022 Close D	
for emitted interference	EN 55022 Class B	
for mains harmonics limitation	not applicable	
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; cURus- Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	
CSA approval	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)	
EAC approval	Yes	
NEC Class 2	Yes; according to UL1310, File E151273	
type of certification		
CB-certificate	Yes	
MTBF at 40 °C	3 838 624 h	
standards, specifications, approvals hazardous environments		
certificate of suitability		

1505		
• IECEx	No 	
• ATEX	No	
ULhazloc approval	No	
• cCSAus, Class 1, Division 2	No	
FM registration	No	
standards, specifications, approvals marine classification	V.	
shipbuilding approval	Yes	
Marine classification association	V	
American Bureau of Shipping Europe Ltd. (ABS)	Yes	
French marine classification society (BV)      CANDO	No	
Det Norske Veritas (DNV)     Handa Parieta of Chimping (LDC)	Yes	
Lloyds Register of Shipping (LRS)	No	
standards, specifications, approvals Environmental Product De		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]	444.0 km	
• total	144.3 kg	
during manufacturing     during apparation	3.4 kg	
during operation     after end of life	140.8 kg	
after end of life     ambient conditions	0.11 kg	
ambient temperature	20 ±70 °C; with natural convection	
during operation     during transport	-20 +70 °C; with natural convection -40 +85 °C	
during transport     during storage	-40 +85 °C -40 +85 °C	
during storage      applicamental sategory according to IEC 60724		
environmental category according to IEC 60721 connection method	Climate class 3K3, 5 95% no condensation	
	screw terminal	
type of electrical connection  • at input	L, N, PE: Removable screw terminal, each for 1 x 0.5 2.5 mm <sup>2</sup>	
at output	+: 1 screw terminal for 0.5 2.5 mm <sup>2</sup> ; -: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>	
for auxiliary contacts	1. I Sciew terminal for 0.5 2.5 min , 2 Sciew terminals for 0.5 2.5 min	
mechanical data		
width × height × depth of the enclosure	30 × 80 × 100 mm	
installation width × mounting height	30 mm × 180 mm	
required spacing	30 Hilli × 100 Hilli	
• top	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	
standard rail mounting	Yes	
Standard Tail Hounting     S7 rail mounting	No	
wall mounting	No	
housing can be lined up	Yes	
net weight	0.17 kg	
accessories		
electrical accessories	Removable spring-type terminal 6EP1971-5BA00	
further information internet links		
internet link		
to website: Industry Mall	https://mall.industry.siemens.com	
to website: Industrial communication	https://siemens.com/industrial-communication	
to website: CAx-Download-Manager	https://siemens.com/cax	
to website: Industry Online Support	https://support.industry.siemens.com	
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 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
14	27-04-07-01
12	27-04-07-01
9.1	27-04-07-01
9	27-04-07-01
8	27-04-90-02
7.1	27-04-90-02
6	27-04-90-02
9	EC002540
8	EC002540
7	EC002540
4	4130
15	39-12-10-04
	14 12 9.1 9 8 7.1 6 9 8 7

## **Approvals Certificates**

**General Product Approval** 







Manufacturer Declaration Declaration of Conformity



**General Product Approval** 

For use in hazardous locations

Marine / Shipping













Environment



last modified:

8/28/2024