## **SIEMENS**

Data sheet 6EP1332-5BA20



SITOP PSU100C/1ACDC/24VDC/4A/NECCLASS2

SITOP PSU100C 24 V/3.7 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 24 V DC/3.7 A restricted output NEC class 2

1-phase AC or DC	
100 V	
230 V	
85 V	
264 V	
110 300 V	
Yes	
2.3 × Vin rated, 1.3 ms	
20 ms	
at Vin = 230 V	
50/60 Hz	
47 63 Hz	
1.88 A	
0.95 A	
30 A	
3 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	
24 V	
24 V	
No; -	
3 %	
0.1 %	
0.2 %	
200 mV	
90 mV	
300 mV	
60 mV	
Green LED for output voltage OK	

behavior of the output voltage when switching on	Overshoot of Vout approx. 1 %	
response delay maximum	1.5 s	
voltage increase time of the output voltage		
• typical	500 ms	
output current		
rated value	3.7 A	
rated range	0 3.7 A; +50 +70 °C: Derating 3.5%/K; at +70 °C lout rated 1.1 A	
supplied active power typical	89 W	
bridging of equipment	No	
efficiency	110	
efficiency in percent	87 %	
power loss [W]	<i>O. 10</i>	
at rated output voltage for rated value of the output	14 W	
current typical		
during no-load operation maximum	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		
load step 10 to 90% typical	4 ms	
• load step 90 to 10% typical	4 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	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		
• maximum	3.5 mA	
• typical	0.4 mA	
protection class IP	IP20	
EMC		
standard		
• for emitted interference	EN 55022 Class B	
<ul> <li>for mains harmonics limitation</li> </ul>	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; 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	2 776 544 h	
standards, specifications, approvals hazardous environments		
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			
, ,	No			
Lloyds Register of Shipping (LRS)  Standards analifications approvals Environmental Braduat Day	·			
standards, specifications, approvals Environmental Product Declaration				
Environmental Product Declaration	Yes			
Global Warming Potential [CO2 eq]				
• total	413.3 kg			
during manufacturing	6.3 kg			
<ul> <li>during operation</li> </ul>	406.7 kg			
after end of life	0.2 kg			
ambient conditions				
ambient temperature				
<ul> <li>during operation</li> </ul>	-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			
connection method				
type of electrical connection	screw terminal			
• 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	-			
mechanical data				
	52.5 × 80 × 100 mm			
width × height × depth of the enclosure				
installation width × mounting height	52.5 mm × 180 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			
<ul> <li>standard rail mounting</li> </ul>	Yes			
S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	0.32 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: 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			
one internation	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 Declara-<u>tion</u>

**Declaration of Conformity** 



**General Product Approval** 

For use in hazardous locations

Marine / Shipping













Environment



last modified:

8/28/2024

