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 A²⋅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

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		
efficiency in percent	87 %	
power loss [W]		
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	0.5 4	
• maximum	3.5 mA	
typical protection class IP	0.4 mA	
EMC	IF2U	
standard		
for emitted interference	EN 55022 Class B	
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; 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	
EAC approval	(acc. to UL 1310) Yes	
NEC Class 2	Yes; according to UL1310, File E151273	
type of certification	165, according to OLISTO, File ETST273	
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) at and ards a positional approvals Environmental Braduat December 1. A positional approvals and a positional appro		
standards, specifications, approvals Environmental Product Dec		
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	361.9 kg	
during manufacturing	6 kg	
during operation	355.6 kg	
after end of life	0.22 kg	
ambient 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	
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 ²	
• at output	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm²	
for auxiliary contacts		
mechanical data		
width × height × depth of the enclosure	52.5 × 80 × 100 mm	
installation width × mounting height	52.5 mm × 180 mm	
required spacing	52.5 Hill × 100 Hill	
	50 mm	
• top		
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	
DIN-rail mounting	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 web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	
to web page: power supplies	https://siemens.com/sitop	
• 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	

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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









Declaration of Conformity

Manufacturer Declaration

General Product Approval

Maritime application

Environment













last modified:

4/4/2025