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

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	
wide range input	Yes	
overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
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	50/60 Hz	
line frequency	47 63 Hz	
input current		
 at rated input voltage 100 V 	1.88 A	
at rated input voltage 230 V	0.95 A	
current limitation of inrush current at 25 °C maximum	30 A	
12t value maximum	3 A ² ·s	
fuse protection type	internal	
fuse protection type 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	
output voltage adjustable	No; -	
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	90 mV	
voltage peak		
maximum	300 mV	
• typical	60 mV	
display version for normal operation	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	
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	. 55, 2500 daily to 021010, 110 2101210
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	
Lloyds Register of Shipping (LRS)	No	
standards, specifications, approvals Environmental Product De		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]	100	
• 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; with natural convection	
during sportation during transport	-40 +85	
during transport during storage	-40 +85	
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 mm ² ; -: 2 screw terminals for 0.5 2.5 mm ²	
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	02.0 11111 100 11111	
• 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	
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	1 3 21	
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

General Product Approval







Declaration of Conformity

Manufacturer Declara-<u>tion</u>

General Product Approval

Marine / Shipping

Environment











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12/22/2024

