SIEMENS

Data sheet 6EP1334-2BA20



SITOP PSU100S/1AC/24VDC/10A

SITOP PSU100S 24 V/10 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A *Ex approval no longer available*

input		
type of the power supply network	1-phase AC	
supply voltage at AC	Automatic range selection	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	170 264 V	
wide range input	No	
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 = 93/187 V	
line frequency	50/60 Hz	
line frequency initial value	47 63 Hz	
line frequency full-scale value		
input current		
• at rated input voltage 120 V	4.49 A	
at rated input voltage 230 V	1.91 A	
current limitation of inrush current at 25 °C maximum	60 A	
I2t value maximum	5.6 A ² ·s	
fuse protection type	T 6.3 A/250 V (not accessible)	
fuse protection type in the feeder	Recommended miniature circuit breaker: 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	Yes; via potentiometer	
adjustable output voltage initial value	22.8 V	
adjustable output voltage full-scale value	28 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	1 %	
residual ripple		
• maximum	150 mV	
• typical	20 mV	
voltage peak		
• maximum	240 mV	
• typical	160 mV	
display version for normal operation	Green LED for 24 V OK	

type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	
behavior of the output voltage when switching on	Overshoot of Vout < 3 %	
response delay maximum	0.3 s	
· · · · · · · · · · · · · · · · · · ·	0.3 \$	
voltage increase time of the output voltage	20 ms	
• typical	20 1115	
output current	10 A	
• rated range		
• rated range	0 12 A; 12 A up to +45°C; +60 +70 °C: Derating 3%/K	
supplied active power typical	288 W	
short-term overload current	00.4	
on short-circuiting during the start-up typical	32 A	
at short-circuit during operation typical	32 A	
duration of overloading capability for excess current		
 on short-circuiting during the start-up 	1 000 ms	
at short-circuit during operation	1 000 ms	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency in percent	90 %	
power loss [W] • at rated output voltage for rated value of the output	25 W	
current typical		
closed-loop control	220	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %	
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	1 ms	
load step 10 to 90 % typical load step 90 to 10% typical	1 ms	
	THIS	
protection and monitoring	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 33 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
response value current limitation	12 14.6 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	14.6 A	
safety	14.071	
	Voo	
galvanic isolation between input and output	Yes Safety extra law output voltage Llout acc. to EN 60050 1 and EN 50179	
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. A	
• maximum	3.5 mA	
• typical	0.8 mA	
protection class IP	IP20	
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; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
 CSA approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
• Oor Cappioval	(CSA C22.2 No. 60950-1, UL 60950-1)	
EAC approval		
	(CSA C22.2 No. 60950-1, UL 60950-1)	

• BIS	Yes; R-41188271
CB-certificate ATTRE -1.40 °C	Yes
MTBF at 40 °C	1 614 510 h
standards, specifications, approvals hazardous environments	
certificate of suitability • IECEx	No
	No No
ATEX Higher constant	No No
ULhazloc approvalcCSAus, Class 1, Division 2	No No
• FM registration	No
standards, specifications, approvals marine classification	THE STATE OF THE S
shipbuilding approval	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	Yes
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product De	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	803.2 kg
during manufacturing	20.7 kg
during operation	781.8 kg
after end of life	0.57 kg
ambient conditions	
ambient temperature	
during operation	-25 +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-type terminals
• at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
• for auxiliary contacts	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
for signaling contact	2 screw terminals for 0.5 2.5 mm ²
mechanical data	70 405 400
width × height × depth of the enclosure	70 × 125 × 120 mm
installation width × mounting height	70 × 225 mm
required spacing	50 mm
• top	30 11111
hottom	50 mm
bottom left	50 mm
• left	0 mm
left right	0 mm 0 mm
left right fastening method	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15
left right fastening method standard rail mounting	0 mm 0 mm
left right fastening method	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes
left right fastening method standard rail mounting S7 rail mounting	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No
I left right fastening method standard rail mounting S7 rail mounting wall mounting	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No
left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes
I left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes
I left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight accessories	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.8 kg
I left I right fastening method I standard rail mounting I S7 rail mounting I wall mounting I housing can be lined up I net weight I accessories I electrical accessories	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.8 kg Buffer module
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left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight accessories electrical accessories mechanical accessories further information internet links	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.8 kg Buffer module
I left I right I fastening method I standard rail mounting I S7 rail mounting I wall mounting I housing can be lined up I net weight I accessories I electrical accessories I mechanical accessories I further information internet links I internet link I method I	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.8 kg Buffer module Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
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Internet link Internet link It is web page: selection aid TIA Selection Tool It is to website: CAx-Download-Manager	0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.8 kg Buffer module Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20 https://siemens.com/tst http://www.siemens.com/simatic-net

otherwise specified)

security information

security information

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Classifications

	Version	Classification
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 Declaration Declaration of Conformity

https://www.siemens.com/cert. (V4.6)





General Product Approval

For use in hazardous locations

Marine / Shipping

Miscellaneous





CCC-Ex





Marine / Shipping

Environment





last modified:

3/12/2024