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*

- 2 at AC rated value input voltage
- 1 at AC
 - 2 at AC

design of input wide range input overvoltage overload capability

operating condition of the mains buffering

buffering time for rated value of the output current in the event of power failure minimum

operating condition of the mains buffering

line frequency

1 rated value2 rated value

input current

- at rated input voltage 120 V
- at rated input voltage 230 V

current limitation of inrush current at 25 °C maximum

I2t value maximum fuse protection type

• in the feeder

1-phase	AC
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Automatic range selection

120 V 230 V

> 85 ... 132 V 170 ... 264 V

No

2.3 × Vin rated, 1.3 ms at Vin = 93/187 V

20 ms

at Vin = 93/187 V

50 Hz 60 Hz 47 ... 63 Hz

4.49 A 1.91 A 60 A 5.6 A²·s

T 6.3 A/250 V (not accessible)

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
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

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adjustable output voltage	22.8 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
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
voltage increase time of the output voltage	00
• typical	20 ms
output current • rated value	10.4
	10 A 0 12 A; 12 A up to +45°C; +60 +70 °C: Derating 3%/K
 rated range supplied active power typical 	288 W
short-term overload current	200 VV
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	OL A
on short-circuiting during the start-up	1 000 ms
at short-circuit during operation	1 000 ms
product feature	. 555
bridging of equipment	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	90 %
power loss [W]	
at rated output voltage for rated value of the output	25 W
current typical	
Closed-loop control	
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	3 %
of resistive load 10/90/10 % typical	
of resistive load 10/90/10 % typical setting time	
	1 ms
setting time	1 ms 1 ms
setting time • load step 10 to 90% typical	
setting time • load step 10 to 90% typical • load step 90 to 10% typical	
setting time • load step 10 to 90% typical • load step 90 to 10% typical Protection and monitoring	1 ms
setting time • load step 10 to 90% typical • load step 90 to 10% typical Protection and monitoring design of the overvoltage protection	1 ms protection against overvoltage in case of internal fault Vout < 33 V
setting time • load step 10 to 90% typical • load step 90 to 10% typical Protection and monitoring design of the overvoltage protection response value current limitation	1 ms protection against overvoltage in case of internal fault Vout < 33 V 12 14.6 A
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NEC Class 2	No
 ULhazloc approval 	No
 FM registration 	No
type of certification CB-certificate	Yes
certificate of suitability	
 EAC approval 	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	BV, DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	Yes
DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
 for interference immunity 	EN 61000-6-2
environmental 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
Mechanics	
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
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.8 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900- 1SB20
MTBF at 40 °C	1 614 510 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

