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*

Recommended miniature circuit breaker: from 10 A characteristic C

Input type of the power supply network 1-phase AC supply voltage at AC • initial value Automatic range selection supply voltage • 1 at AC rated value 120 V 230 V • 2 at AC rated value input voltage • 1 at AC 85 ... 132 V • 2 at AC 170 ... 264 V design of input wide range input overvoltage overload capability 2.3 × Vin rated, 1.3 ms operating condition of the mains buffering at Vin = 93/187 V buffering time for rated value of the output current in the 20 ms event of power failure minimum at Vin = 93/187 V operating condition of the mains buffering line frequency 50 Hz • 1 rated value 60 Hz • 2 rated value line frequency 47 ... 63 Hz 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 12t value maximum 5.6 A²·s fuse protection type T 6.3 A/250 V (not accessible)

Controlled, isolated DC voltage
24 V
24 V
3 %
0.1 %
1 %
150 mV
20 mV
240 mV
160 mV

• in the feeder

Output

	00.0 00.1/
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	20
• typical	20 ms
output current • rated value	10 A
 rated range supplied active power typical 	0 12 A; 12 A up to +45°C; +60 +70 °C: Derating 3%/K 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	
on short-circuiting during the start-up	1 000 ms
at short-circuit during operation	1 000 ms
product feature	
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	0.3 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage at load step	3 %
of resistive load 10/90/10 % typical	
setting time	
• load step 10 to 90% typical	1 ms
load step 90 to 10% typical	1 ms
Protection and monitoring	
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 33 V
response value current limitation	12 14.6 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	14.6 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
display version for overload and short circuit	•
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Cofety system law systems typitage Heat age to EN COOFO 1 and EN E0170
5	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
operating resource protection class leakage current	Class I
operating resource protection class leakage current • maximum	Class I 3.5 mA
operating resource protection class leakage current	Class I 3.5 mA 0.8 mA
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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)

