# **SIEMENS**

#### **Data sheet**

### 6EP3333-8SB00-0AY0



#### SITOP PSU8200/1AC/24VDC/5A

SITOP PSU8200 24 V/5 A stabilized power supply input: 120/230 V AC output: 24 V DC/5 A \*Ex approval no longer available\*

type of the power supply network supply voltage at AC

• initial value

supply voltage

- 1 at AC rated value
- 2 at AC rated value

input voltage

- 1 at AC
- 2 at AC

design of input wide range input

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 value
- 2 rated value

line frequency

input current

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

current limitation of inrush current at 25 °C maximum

12t value maximum

fuse protection type

• in the feeder

1-phase AC

Automatic range selection

120 V

230 V

85 ... 132 V

170 ... 264 V

at Vin = 120/230 V

35 ms

at Vin = 120/230 V

50 Hz

60 Hz

47 ... 63 Hz

2.1 A

1.2 A

10 A

0.2 A<sup>2</sup>·s

T 3.15 A (not accessible)

Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or

3RV2711-1DD10 (UL 489) at 400/500 V

## Output

voltage curve at output output voltage at DC rated value output voltage

• at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage

• on slow fluctuation of input voltage • on slow fluctuation of ohm loading

residual ripple

• maximum

voltage peak • maximum Controlled, isolated DC voltage

24 V

24 V 3 %

0.1 %

0.2 %

50 mV

200 mV

adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 120 W
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 approx. 3 % 1.5 s
response delay maximum voltage increase time of the output voltage	1.5 \$
	30 ms
<ul> <li>typical output current</li> </ul>	30 1115
• rated value	5 A
• rated range	0 5 A; As of Ua>24 V: 4% [la]/V [Ua]; at Ue<100 V/<200 V: 80% la
- ration range	rated
supplied active power typical	120 W
short-term overload current	
<ul> <li>at short-circuit during operation typical</li> </ul>	15 A
duration of overloading capability for excess current	
<ul> <li>at short-circuit during operation</li> </ul>	25 ms
constant overload current	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	6 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	00.07
efficiency in percent	93 %
power loss [W]	0.14
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	9 W
during no-load operation maximum	1.5 W
Closed-loop control	1.0 11
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	0.1 //
relative control precision of the output voltage load step of	2 %
resistive load 50/100/50 % typical	
setting time	
<ul><li>load step 50 to 100% typical</li></ul>	0.25 ms
<ul><li>load step 100 to 50% typical</li></ul>	0.5 ms
relative control precision of the output voltage at load step	2 %
of resistive load 10/90/10 % typical	
setting time	0.05
• load step 10 to 90% typical	0.25 ms
• load step 90 to 10% typical	0.5 ms
• maximum	1 ms
Protection and monitoring	
design of the overvoltage protection	< 33 V
response value current limitation typical	6 A
property of the output short-circuit proof	Yes
de alors of alarm alors (C. C.	Altamaticals, assistant assistant to the first of the second seco
design of short-circuit protection	Alternatively, constant current characteristic approx. 6 A or latching
	Alternatively, constant current characteristic approx. 6 A or latching shutdown
enduring short circuit current RMS value	shutdown
enduring short circuit current RMS value  • typical	shutdown 6 A
enduring short circuit current RMS value	shutdown
enduring short circuit current RMS value  • typical overcurrent overload capability in normal operation display version for overload and short circuit	6 A overload capability 150 % lout rated up to 5 s/min
enduring short circuit current RMS value  • typical overcurrent overload capability in normal operation display version for overload and short circuit  Safety	shutdown  6 A overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"
enduring short circuit current RMS value  • typical overcurrent overload capability in normal operation display version for overload and short circuit  Safety galvanic isolation between input and output	shutdown  6 A overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"  Yes
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enduring short circuit current RMS value  • typical  overcurrent overload capability in normal operation display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation operating resource protection class	shutdown  6 A overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"  Yes
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enduring short circuit current RMS value  • typical overcurrent overload capability in normal operation display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	shutdown  6 A overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
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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)
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<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
• IECEx	No
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	ABS, DNV GL
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
French marine classification society (BV)	No
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +70 °C; With natural convection; startup tested starting from -40
• during operation	°C nominal voltage
<ul> <li>during transport</li> </ul>	-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 0.2 2.5 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.2 2.5 mm²
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm²
width of the enclosure	45 mm
height of the enclosure	125 mm
depth of the enclosure	125 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, TI-grey 3RT2900-1SB20
MTBF at 40 °C	1 421 519 h
other information	Specifications at rated input voltage and ambient temperature +25 °C
	(unless otherwise specified)

