## 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\*

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
<ul> <li>2 at AC rated value</li> </ul>	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
design of input wide range input	No
operating condition of the mains buffering	at Vin = 120/230 V
buffering time for rated value of the output current in the event of power failure minimum	35 ms
operating condition of the mains buffering	at Vin = 120/230 V
line frequency	
<ul> <li>1 rated value</li> </ul>	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	2.1 A
<ul> <li>at rated input voltage 230 V</li> </ul>	1.2 A
current limitation of inrush current at 25 °C maximum	10 A
l2t value maximum	0.2 A <sup>2</sup> ·s
fuse protection type	T 3.15 A (not accessible)
• in the feeder	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	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
<ul> <li>at output 1 at DC rated value</li> </ul>	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.2 %
residual ripple	
• maximum	50 mV
voltage peak	
• maximum	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 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
typical	30 ms
output current	
rated value	5 A
rated range	0 5 A; As of Ua>24 V: 4% [Ia]/V [Ua]; at Ue<100 V/<200 V: 80% Ia
	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	
<ul> <li>bridging of equipment</li> </ul>	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	00.1/
efficiency in percent power loss [W]	93 %
<ul> <li>at rated output voltage for rated value of the output</li> </ul>	9 W
current typical	5 **
<ul> <li>during no-load operation maximum</li> </ul>	1.5 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of	2 %
resistive load 50/100/50 % typical	
setting time	0.05
load step 50 to 100% typical	0.25 ms
load step 100 to 50% typical	0.5 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
<ul> <li>load step 10 to 90% typical</li> </ul>	0.25 ms
<ul> <li>load step 90 to 10% typical</li> </ul>	0.5 ms
• maximum	1 ms
Protection and monitoring	
design of the overvoltage protection	< 33 V
• typical	6 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 6 A or latching
	shutdown
enduring short circuit current RMS value	
• typical	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	LED yellow for "overload", LED red for "latching shutdown"
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	
• maximum	3.5 mA
• typical	1 mA
protection class IP	IP20
Approvals	
certificate of suitability	

CE marking	Yes
<ul> <li>UL approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
	cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
<ul> <li>CSA approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
	cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
<ul> <li>ULhazloc approval</li> </ul>	No
<ul> <li>FM registration</li> </ul>	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	1.00, 0.00
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
DNV GL	Yes
Lloyds Register of Shipping (LRS)	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental conditions	
ambient temperature	
ambient temperature	-25 +70 °C. With natural convection: startup tested starting from -40
ambient temperature ● during operation	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage
during operation	°C nominal voltage
<ul><li>during operation</li><li>during transport</li></ul>	
<ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>	°C nominal voltage -40 +85 °C -40 +85 °C
<ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> <li>environmental category according to IEC 60721</li> </ul>	°C nominal voltage -40 +85 °C
during operation     during transport     during storage environmental category according to IEC 60721 Mechanics	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
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<ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> <li>environmental category according to IEC 60721</li> </ul> Mechanics type of electrical connection <ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> <li>width of the enclosure <ul> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> <li>net weight</li> <li>product feature of the enclosure housing can be lined up fastening method</li> </ul></li>	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm <sup>2</sup> 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup> ; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup> 45 mm 125 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 skg Yes Snaps onto DIN rail EN 60715 35x7.5/15
<ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> <li>environmental category according to IEC 60721</li> </ul> Mechanics type of electrical connection <ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> <li>width of the enclosure <ul> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> <li>net weight</li> <li>product feature of the enclosure housing can be lined up <ul> <li>fastening method</li> <li>electrical accessories</li> <li>mechanical accessories</li> <li>MTBF at 40 °C</li> </ul> </li> </ul></li>	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm <sup>2</sup> 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup> ; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup> 45 mm 125 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 skg Yes Snaps onto DIN rail EN 60715 35x7.5/15 Buffer module
<ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> <li>environmental category according to IEC 60721</li> </ul> Mechanics type of electrical connection <ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> width of the enclosure <ul> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> <li>net weight</li> <li>product feature of the enclosure housing can be lined up fastening method</li> <li>electrical accessories</li> <li>mechanical accessories</li> </ul>	<ul> <li>°C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul> screw-type terminals <ul> <li>L, N, PE: 1 screw terminal each for 0.2 2.5 mm<sup>2</sup> single-core/finely stranded</li> <li>+, -: 2 screw terminals each for 0.2 2.5 mm<sup>2</sup></li> <li>13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup>; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup></li> <li>45 mm</li> <li>125 mm</li> <li>50 mm</li> <li>50 mm</li> <li>0 mm</li> <li>0 mm</li> <li>0 mm</li> <li>0 mm</li> <li>0 kg</li> <li>Yes</li> <li>Snaps onto DIN rail EN 60715 35x7.5/15</li> <li>Buffer module</li> <li>Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20</li> <li>1 421 519 h</li> <li>Specifications at rated input voltage and ambient temperature +25 °C</li> </ul>
<ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> <li>environmental category according to IEC 60721</li> </ul> Mechanics type of electrical connection <ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> <li>width of the enclosure <ul> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> <li>net weight</li> <li>product feature of the enclosure housing can be lined up <ul> <li>fastening method</li> <li>electrical accessories</li> <li>mechanical accessories</li> <li>MTBF at 40 °C</li> </ul> </li> </ul></li>	<ul> <li>°C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul> screw-type terminals <ul> <li>L, N, PE: 1 screw terminal each for 0.2 2.5 mm<sup>2</sup> single-core/finely stranded</li> <li>+, -: 2 screw terminals each for 0.2 2.5 mm<sup>2</sup></li> <li>13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup>; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup>; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup></li> <li>45 mm</li> <li>125 mm</li> <li>50 mm</li> <li>50 mm</li> <li>0 label 20 mm × 7 mm, TI-grey 3RT2900-1SB20</li> <li>1 421 519 h</li> </ul>