SIEMENS

Data sheet

6EP3334-8SB00-0AY0



SITOP PSU8200/1AC/24VDC/10A

SITOP PSU8200 24 V/10 A stabilized power supply input: 120/230 V AC output: 24 V DC/ 10 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
• 2 at AC rated value	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	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	4 A
 at rated input voltage 230 V 	1.9 A
current limitation of inrush current at 25 °C maximum	10 A
I2t value maximum	0.3 A ² ·s
fuse protection type	T 6.3 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	
 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 	0.3 %
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. 240 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	70 ms
output current	
rated value	10 A
rated range	0 10 A; +60 +70 °C: Derating 2%/K; as of Ua>24 V: 4% [Ia]/V [Ua]; at
	Ue<100 V/<200 V: 80% la rated
supplied active power typical	240 W
short-term overload current	
 at short-circuit during operation typical 	30 A
duration of overloading capability for excess current	
 at short-circuit during operation 	25 ms
constant overload current	
 on short-circuiting during the start-up typical 	12 A
product feature	
 bridging of equipment 	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing	2
the power	
Efficiency	
efficiency in percent	94 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	18 W
 during no-load operation maximum 	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	
	4 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of	4 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical	4 % 0.25 ms
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical	0.25 ms
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical relative control precision of the output voltage at load step of	0.25 ms 0.5 ms
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Approvals	
certificate of suitability	N/
• 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 (CSA C22.2 No. 60950-1, UL 60950-1)
NEC Class 2	No
 EAC approval 	Yes
 Regulatory Compliance Mark (RCM) 	Yes
type of certification	
CB-certificate	Yes
certificate of suitability	
• IECEx	No
• ATEX	No
 ULhazloc approval 	No
 cCSAus, Class 1, Division 2 	No
FM registration	No
certificate of suitability shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	No
 Lloyds Register of Shipping (LRS) 	No
MC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
 for interference immunity 	EN 61000-6-2
nvironmental conditions	
ambient temperature	
• during operation	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage
 during transport 	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
lechanics	
type of electrical connection	screw-type terminals
at input	L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.2 2.5 mm ²
• for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² ; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm ²
width of the enclosure	55 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	1 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	1 292 102 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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