## **SIEMENS**

Data sheet 6EP1336-3BA10



SITOP PSU8200/1ACDC/24VDC/20A

SITOP PSU8200 20 A stabilized power supply input: 120-230 V AC 110-220 V DC output: 24 V DC/20 A \*Ex approval no longer available\*

## Input

type of the power supply network supply voltage at AC

- minimum rated value
- maximum rated value
- initial value
- full-scale value

supply voltage

at DC

input voltage

• at DC

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

I2t value maximum fuse protection type

• in the feeder

1-phase and 2-phase AC or DC

120 V

230 V

85 V; Derating of temperature necessary down to 50 °C at Vin < 100 V

AC or DC

275 V

110 ... 220 V

88 ... 350 V

Yes

at Vin = 230 V

20 ms

at Vin = 230 V

50 Hz 60 Hz

45 ... 65 Hz

4.6 A

2.5 A

20 A 5 A<sup>2</sup>·s

Yes

Recommended miniature circuit breaker at 1-phase operation: 10 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2711-1HD10 (UL 489) at 120 V or 3RV2711-1ED10 (UL 489) at 230 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

maximumtypical

Controlled, isolated DC voltage

24 V

24 V 3 %

0.1 %

0.3 %

100 mV 80 mV

voltage peak	
• maximum	200 mV
• typical	100 mV
adjustable output voltage	24 28.8 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	No overshoot of Vout (soft start)  1.5 s
response delay maximum voltage increase time of the output voltage	1.5 \$
• typical	50 ms
output current	30 1118
• rated value	20 A
• rated range	0 20 A; +60 +70 °C: Derating 3%/K
supplied active power typical	480 W
short-term overload current	100 11
at short-circuit during operation typical	60 A
duration of overloading capability for excess current	0071
at short-circuit during operation	25 ms
constant overload current	
on short-circuiting during the start-up typical	30 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	93 %
power loss [W]	
at rated output voltage for rated value of the output	42 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid	0.5 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of	1 %
resistive load 50/100/50 % typical	
setting time	A
• load step 50 to 100% typical	1 ms
• load step 100 to 50% typical	1 ms
setting time  • maximum	E ma
	5 ms
Protection and monitoring	
design of the overvoltage protection	< 33 V
• typical	21.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 23 A or latching shutdown
enduring short circuit current RMS value	ShutuoWil
• typical	23 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	justice. Or of the last four last interning officerorm
	Voc
galvanic isolation between input and output	Yes Safety extra low output voltage Llout acc. to EN 60050.1 and EN 50178
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I
operating resource protection class	Class I
leakage current	3.5 mA
maximum     typical	3.5 MA 1 mA
typical     protection class IP	I MA IP20
Approvals	
TATALAN TANIA (115)	11 20
-	11 20
certificate of suitability	
certificate of suitability  • CE marking	Yes
certificate of suitability	

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)
<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	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	No
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	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
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
ambient temperature  ● during operation	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage
•	
during operation	°C nominal voltage -40 +85 °C -40 +85 °C
<ul><li>during operation</li><li>during transport</li></ul>	°C nominal voltage -40 +85 °C
<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 -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
during operation     during transport     during storage environmental category according to IEC 60721  Mechanics type of electrical connection	°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 4 mm² single-core/finely
during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics  type of electrical connection     at input	°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 4 mm² single-core/finely stranded
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during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         at input             for auxiliary contacts             width of the enclosure	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm
during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • for auxiliary contacts     width of the enclosure     height of the enclosure	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm
during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics  type of electrical connection     at input      at output     for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm
during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection          at input           for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm 125 mm
during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         at input          oat output         for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing         top	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm 125 mm
during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         at input          at output         for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing         top         bottom	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm 125 mm 50 mm
during operation     during transport     during storage environmental category according to IEC 60721  Mechanics  type of electrical connection     at input     for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing     top     bottom     left	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm 125 mm 50 mm 50 mm 0 mm
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during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics  type of electrical connection     at input     for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing         top          bottom         left         right     net weight     product feature of the enclosure housing can be lined up	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm 125 mm 50 mm 0 mm 0 mm 0 mm 1.2 kg Yes
during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics  type of electrical connection     at input     for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing     top     bottom     left     e right net weight product feature of the enclosure housing can be lined up fastening method	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm 125 mm 50 mm 0 mm 0 mm 0 mm 1.2 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15
during operation     during transport     during storage     environmental category according to IEC 60721      Mechanics  type of electrical connection     at input     for auxiliary contacts     width of the enclosure     height of the enclosure     depth of the enclosure     required spacing         top          bottom         eleft         right     net weight     product feature of the enclosure housing can be lined up     fastening method     electrical accessories	°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 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 90 mm 125 mm 125 mm 50 mm 0 mm 0 mm 0 mm 1.2 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15 Buffer module

