SIEMENS

Data sheet

6EP3436-8SB00-0AY0



SITOP PSU8200/3AC/24VDC/20A

SITOP PSU8200 24 V/20 A stabilized power supply input: 400-500 V 3 AC 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

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 400 V
- at rated input voltage 500 V

current limitation of inrush current at 25 °C maximum

12t value maximum fuse protection type

• in the feeder

3-phase AC

400 V

500 V

320 V

575 V Yes

at Vin = 400 V

15 ms

at Vin = 400 V

50 Hz

60 Hz

47 ... 63 Hz

1.2 A

1 A

16 A 0.8 A²·s

Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or

3RV2711-1DD10 (UL 489)

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

adjustable output voltage

product function output voltage adjustable

type of output voltage setting display version for normal operation Controlled, isolated DC voltage

24 V

24 V

3 %

0.1 %

0.2 %

100 mV

200 mV

24 ... 28 V

Yes

via potentiometer; max. 480 W

Green LED for 24 V OK

tone of simulations (D-1
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)
response delay maximum	2.5 s
voltage increase time of the output voltage	F00
• maximum	500 ms
output current	20. 4
• rated value	20 A
• rated range	0 20 A; +60 +70 °C: Derating 2%/K 480 W
supplied active power typical short-term overload current	400 VV
at short-circuit during operation typical	60 A
duration of overloading capability for excess current	00 A
at short-circuit during operation	25 ms
constant overload current	20 1110
on short-circuiting during the start-up typical	22 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	94 %
power loss [W]	
 at rated output voltage for rated value of the output 	31 W
current typical	
Closed-loop control	0.4.0/
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of	1 %
resistive load 50/100/50 % typical	1 70
setting time	
 load step 50 to 100% typical 	0.2 ms
 load step 100 to 50% typical 	0.2 ms
relative control precision of the output voltage at load step	2 %
of resistive load 10/90/10 % typical	
setting time	
 load step 10 to 90% typical 	0.2 ms
• load step 90 to 10% typical	0.2 ms
maximum	10 ms
Protection and monitoring	
design of the overvoltage protection	< 32 V
response value current limitation typical	22 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 22 A or latching
enduring short circuit current DMS value	shutdown
enduring short circuit current RMS value	22 A
 typical 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	225 John 101 Oronoud , EED Tod 101 Tatorning Strattown
galvanic isolation between input and output	Yes
galvanic isolation between input and output	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	
maximum	3.5 mA
• typical	0.9 mA
protection class IP	IP20
Approvals	
certificate of suitability	
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, Class 1, Division 2	cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) No
♥ COOMUS, CIASS 1, DIVISION 2	140

• 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
• C-Tick	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	7.50, 5117 62
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
• DNV GL	Yes
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)	No
	140
EMC	
standard	FN 55000 Olses D
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; 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
Mechanics	
type of electrical connection	screw-type terminals
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.2 4 mm ²
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	70 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	1.2 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	590 573 h
other information	Specifications at rated input voltage and ambient temperature +25 °C
Said mornatori	(unless otherwise specified)

