SIEMENS

Data sheet

6EP3437-8SB00-0AY0



SITOP PSU8200/3AC/24VDC/40A

SITOP PSU8200 24 V/40 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A *Ex approval no longer available*

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

• in the feeder

fuse protection type

3-phase AC

400 V

500 V

320 V

575 V Yes

at Vin = 400 V

10 ms

at Vin = 400 V

50 Hz

60 Hz

45 ... 65 Hz

2.1 A

1.7 A

13 A

2.24 A2-s

Required: 3-pole connected miniature circuit breaker 10 ... 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

240 mV

24 ... 28 V

Yes

via potentiometer; max. 960 W

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	minimal overshooting (< 2 %)
response delay maximum	0.1 s
voltage increase time of the output voltage • maximum	100 ms
output current	100 1115
• rated value	40 A
• rated range	0 40 A; +60 +70 °C: Derating 4%/K
supplied active power typical	960 W
short-term overload current	•••
at short-circuit during operation typical	120 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 	44 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	04.07
efficiency in percent	94 %
power loss [W]	00.14
 at rated output voltage for rated value of the output current typical 	66 W
during no-load operation maximum	4 W
Closed-loop control	
relative control precision of the output voltage with rapid	1 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
setting time	
maximum	10 ms
→ IIIaxIIIIaIII	10 1113
Protection and monitoring	
Protection and monitoring design of the overvoltage protection	< 31.8 V
design of the overvoltage protection	< 31.8 V 44 A
design of the overvoltage protection response value current limitation typical	44 A
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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	
 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
EMC	
standard	
 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
 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 0.5 4 mm² single-core/finely stranded
• at output	+: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm²
for auxiliary contacts	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm²
width of the enclosure	135 mm
height of the enclosure	145 mm
depth of the enclosure	150 mm
required spacing	
• top	40 mm
bottom	40 mm
• left	0 mm
right	0 mm
net weight	3.3 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x15
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	517 015 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

