SIEMENS

Data sheet

6EP3447-8SB00-0AY0



SITOP PSU8200/3AC/48VDC/20A

SITOP PSU8200 48 V/20 A stabilized power supply input: 400-500 V 3 AC output: 48 V DC/20 A *Ex approval no longer available*

Input	
type of the power supply network	3-phase AC
supply voltage at AC	
minimum rated value	400 V
maximum rated value	500 V
initial value	320 V
• full-scale value	575 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 400 V
buffering time for rated value of the output current in the event of power failure minimum	10 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	45 65 Hz
input current	
 at rated input voltage 400 V 	2 A
 at rated input voltage 500 V 	1.7 A
current limitation of inrush current at 25 °C maximum	13 A
l2t value maximum	2.24 A ^{2.} s
fuse protection type	
• in the feeder	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)
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	48 V
output voltage	
 at output 1 at DC rated value 	48 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 	0.2 %
residual ripple	
• maximum	100 mV
voltage peak	
• maximum	480 mV
adjustable output voltage	46 56 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 960 W
display version for normal operation	Green LED for 48 V OK

type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 48 V OK
behavior of the output voltage when switching on	minimal overshoot (< 3 %)
response delay maximum	0.1 s
voltage increase time of the output voltage	
• maximum	100 ms
output current	
rated value	20 A
rated range	0 20 A; +60 +70 °C: Derating 4%/K
supplied active power typical	960 W
short-term overload current	
 at short-circuit during operation typical 	60 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 	24 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	94 %
power loss [W]	
at rated output voltage for rated value of the output current typical	58 W
during no-load operation maximum	4 W
Closed-loop control	4 10
	4.0/
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
setting time	
• maximum	10 ms
Protection and monitoring	
	< 57.8 V
Protection and monitoring design of the overvoltage protection • typical	< 57.8 V 22 A
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• FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
 Regulatory Compliance Mark (RCM) 	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 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 mm ² 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 \dots 2.5 $\rm mm^2$
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
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	520 782 h
other information	Specifications at rated input voltage and ambient temperature +25 $^\circ \text{C}$ (unless otherwise specified)

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