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*

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	2.1 A
 at rated input voltage 500 V 	1.7 A
current limitation of inrush current at 25 °C maximum	13 A
I2t value maximum	2.24 A ² ·s
fuse protection type	none
• 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	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 	0.2 %
residual ripple	
• maximum	100 mV
voltage peak	
• maximum	240 mV
adjustable output voltage	24 28 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 24 V OK

type of signal at output	Polov contact (NO contact rating 60 V DC/0.2.4) for 104 V OV
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	100 mg
maximum	100 ms
output current	40 A
rated value	
rated range	0 40 A; +60 +70 °C: Derating 4%/K 960 W
supplied active power typical	900 W
short-term overload current	120 A
the short-circuit during operation typical	120 A
duration of overloading capability for excess current	25 ma
at short-circuit during operation	25 ms
constant overload current	44.0
on short-circuiting during the start-up typical	44 A
product feature	Vac: awitabable abaractoristic
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	66 W
 during no-load operation maximum 	4 W
Closed-loop control	
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 %
resistive load ou rou ou /o typical	
setting time	
•••	10 ms
setting time	10 ms
setting time • maximum	10 ms < 31.8 V
setting time • maximum Protection and monitoring	
setting time • maximum Protection and monitoring design of the overvoltage protection	< 31.8 V
setting time • maximum Protection and monitoring design of the overvoltage protection • typical	< 31.8 V 44 A
setting time • maximum Protection and monitoring design of the overvoltage protection • typical property of the output short-circuit proof	< 31.8 V 44 A Yes
setting time • maximum Protection and monitoring design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection	< 31.8 V 44 A Yes
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setting time • maximum Protection and monitoring design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation	< 31.8 V 44 A Yes Alternatively, constant current characteristic approx. 44 A or latching shutdown 50 A overload capability 150 % lout rated up to 5 s/min
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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
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 mm ² ; -: 3 screw terminals each for 0.5 16 mm ²
for auxiliary contacts	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 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
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)

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