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
l2t 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

turns of signal at sutruit	Delay contact (NO contact, ration 60.) / DC/ 0.2. A) for 104.) / 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	40.4
rated value	
rated range	0 40 A; +60 +70 °C: Derating 4%/K
supplied active power typical	960 W
short-term overload current	400.4
at short-circuit during operation typical	120 A
duration of overloading capability for excess current	05 mg
 at short-circuit during operation constant overload current 	25 ms
	44.0
 on short-circuiting during the start-up typical product feature 	44 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	66 W
current typical	
 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	3 %
resistive load 50/100/50 % typical	
setting time	
• maximum	10 ms
Drotaction and manitoring	
Protection and monitoring	
design of the overvoltage protection	< 31.8 V
	< 31.8 V 44 A
design of the overvoltage protection	
design of the overvoltage protection • typical	44 A Yes Alternatively, constant current characteristic approx. 44 A or latching
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection	44 A Yes
design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value	44 A Yes Alternatively, constant current characteristic approx. 44 A or latching shutdown
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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 display version for overload and short circuit Safety galvanic isolation between input and output operating resource protection class leakage current	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 LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
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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 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 \ldots 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
bottomleft	
	40 mm
● left ● right	40 mm 0 mm 0 mm
 left right net weight 	40 mm 0 mm
 left right net weight product feature of the enclosure housing can be lined up 	40 mm 0 mm 0 mm 3.3 kg Yes
 left right net weight 	40 mm 0 mm 0 mm 3.3 kg
 left right net weight product feature of the enclosure housing can be lined up fastening method electrical accessories 	40 mm 0 mm 0 mm 3.3 kg Yes Snaps onto DIN rail EN 60715 35x15 Buffer module
 left right net weight product feature of the enclosure housing can be lined up fastening method electrical accessories mechanical accessories 	40 mm 0 mm 0 mm 3.3 kg Yes Snaps onto DIN rail EN 60715 35x15 Buffer module Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
 left right net weight product feature of the enclosure housing can be lined up fastening method electrical accessories mechanical accessories MTBF at 40 °C 	40 mm 0 mm 0 mm 3.3 kg Yes Snaps onto DIN rail EN 60715 35x15 Buffer module Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 517 015 h
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