SIEMENS

Data sheet



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

6EP3436-8SB00-0AY0

nput		
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	
wide range input	Yes	
buffering time for rated value of the output current in the event of power failure minimum	15 ms	
operating condition of the mains buffering	at Vin = 400 V	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
 at rated input voltage 400 V 	1.2 A	
 at rated input voltage 500 V 	1 A	
current limitation of inrush current at 25 °C maximum	16 A	
I2t value maximum	0.8 A²-s	
fuse protection type	none	
fuse protection type in the feeder	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)	
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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	24 28 V; max. 480 W	
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	200 mV	
display version for normal operation	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	No overshoot of Vout (soft start)	
response delay maximum	2.5 s	

voltage increase time of the output voltage		
• maximum	500 ms	
output current		
rated value	20 A	
rated range	0 20 A; +60 +70 °C: Derating 2%/K	
supplied active power typical	480 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 	22 A	
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 	31 W	
closed-loop control		
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 resistive load 50/100/50 % typical	1 %	
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 of resistive load 10/90/10 % typical	2 %	
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	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 22 A or latching shutdown	
• typical	22 A	
overcurrent overload capability		
in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	22 A	
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
safety		
galvanic isolation between input and output	Yes	
galvanic isolation	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	
EMC		
standard		
for emitted interference	EN 55022 Class B	
for mains harmonics limitation	EN 61000-3-2	
for interference immunity	EN 61000-6-2	
standards, specifications, 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 (CSA C22.2 No. 60950-1, UL 60950-1)	
EAC approval	Yes	
* *		
Regulatory Compliance Mark (RCM)	Yes	
• NEC Class 2	No	
• SEMI F47	Yes	
type of certification		
• BIS	Yes; R-41188271	
CB-certificate	Yes	
MTBF at 40 °C	590 573 h	
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	No	
• ATEX	No	
ULhazloc approval	No	
• cCSAus, Class 1, Division 2	No	
FM registration	No	
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	
Marine classification association		
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes	
 French marine classification society (BV) 	No	
 Det Norske Veritas (DNV) 	Yes	
 Lloyds Register of Shipping (LRS) 	No	
standards, specifications, approvals Environmental Product De	claration	
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]	100	
	000 kg	
• total	989 kg	
during manufacturing	18.9 kg	
 during operation 	970 kg	
after end of life	0.27 kg	
ambient conditions		
ambient temperature		
during operation	-25 +70; With natural convection; startup tested starting from -40 $^{\circ}\text{C}$ nominal voltage	
during transport	-40 +85	
during storage	-40 +85	
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation	
connection method		
type of electrical connection	screw terminal	
• 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 mm²	
at outputfor auxiliary contacts	+, -: 2 screw terminals each for 0.2 4 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² ; 15, 16	
•		
•	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16	
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16	
for auxiliary contacts mechanical data	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	
for auxiliary contacts mechanical data width × height × depth of the enclosure	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 70 × 125 × 125 mm	
for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	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 70 × 125 × 125 mm	
for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	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 70 × 125 × 125 mm 70 mm × 225 mm	
for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom	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 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 50 mm	
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for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method	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 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15	
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for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting	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 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No	
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mechanical accessories

further information internet links

internet link

• to website: Industry Mall
• to web page: selection aid TIA Selection Tool
• to web page: power supplies
• to website: CAx-Download-Manager
• to website: Industry Online Support

additional information

other information Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

CB

СВ

Manufacturer Declaration Declaration of Conformity





General Product Approval

Marine / Shipping

Environment





BIS CRS







last modified: 11/25/2024 🖸

