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

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	
• maximum	100 mV	
	100 mV	
maximum voltage peak		
maximum voltage peak maximum	200 mV	
maximum voltage peak maximum display version for normal operation	200 mV Green LED for 24 V OK	

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	0071	
at short-circuit during operation	25 ms	
constant overload current	25 1115	
on short-circuiting during the start-up typical	22. ^	
bridging of equipment	22 A Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	2	
the power	2	
efficiency		
efficiency in percent	94 %	
power loss [W]		
at rated output voltage for rated value of the output	31 W	
current typical		
closed-loop control		
relative control precision of the output voltage with rapid	0.1 %	
fluctuation of the input voltage by +/- 15% typical		
relative control precision of the output voltage load step of	1 %	
resistive load 50/100/50 % typical		
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		
	< 32 V	
protection and monitoring	< 32 V Yes	
protection and monitoring design of the overvoltage protection		
protection and monitoring design of the overvoltage protection property of the output short-circuit proof	Yes	
protection and monitoring design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown	
protection and monitoring design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown	
protection and monitoring design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A	
protection and monitoring design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A	
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design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown"	
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic resource protection class leakage current	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I	
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic resource protection class leakage current • maximum	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA	
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design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B	
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design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Yes Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B	
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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	
	No	
French marine classification society (BV) Det Norsko Veritos (DNV)		
Det Norske Veritas (DNV) Lloyde Register of Shipping (LDS)	Yes	
Lloyds Register of Shipping (LRS)	No	
standards, specifications, approvals Environmental Product De		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]		
• 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	
	Software Communication	
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded	
at inputat output	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely	
	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16	
at output for auxiliary contacts	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm²	
at output for auxiliary contacts mechanical data	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 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	
at output for auxiliary contacts mechanical data width × height × depth of the enclosure	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 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	
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at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 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	
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at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 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	
at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 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	
at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 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 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes	
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at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 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 Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes	
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Device identification label 20 mm × 7 mm, Tl-grey 3RT2900-1SB20 mechanical accessories further information internet links internet link https://mall.industry.siemens.com • to website: Industry Mall • to web page: selection aid TIA Selection Tool https://www.siemens.com/tstcloud • to web page: power supplies https://siemens.com/sitop • to website: CAx-Download-Manager https://siemens.com/cax • to website: Industry Online Support https://support.industry.siemens.com

other information

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

security information

security information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

	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



Manufacturer Declara-<u>tion</u>

Declaration of Conformity





General Product Approval

Marine / Shipping

Environment





BIS CRS







11/25/2024 last modified:

