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

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	
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	

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- CCA approval	Vacually in Linted (III, E00, CCA CCC, No. 407.4). File E4070E0, aCCA.in	
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		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]	000 1	
• 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 °C; With natural convection; startup tested starting from -40 °C nominal voltage	
 during transport 	-40 +85 °C	
during storage	-40 +85 °C	
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 mm ² single-core/finely stranded	
	Charleta	
• at output	+, -: 2 screw terminals each for 0.2 4 mm ²	
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	
for auxiliary contacts	+, -: 2 screw terminals each for 0.2 4 mm²	
for auxiliary contacts mechanical data	+, -: 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 (Remote): 1 screw terminal each for 0.14 1.5 mm ²	
for auxiliary contacts mechanical data width × height × depth of the enclosure	+, -: 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 (Remote): 1 screw terminal each for 0.14 1.5 mm ² 70 × 125 × 125 mm	
for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height	+, -: 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 (Remote): 1 screw terminal each for 0.14 1.5 mm ²	
for auxiliary contacts mechanical data width × height × depth of the enclosure	+, -: 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 (Remote): 1 screw terminal each for 0.14 1.5 mm ² 70 × 125 × 125 mm	
for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height	+, -: 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 (Remote): 1 screw terminal each for 0.14 1.5 mm ² 70 × 125 × 125 mm	
• for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	+, -: 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	
for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	+, -: 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	
for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	+, -: 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	
for auxiliary contacts mechanical data	+, -: 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	
for auxiliary contacts mechanical data	+, -: 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	
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for auxiliary contacts mechanical data	+, -: 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	
for auxiliary contacts mechanical data	+, -: 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 Snaps onto DIN rail EN 60715 35x7.5/15 Yes No	
for auxiliary contacts mechanical data	+, -: 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 Snaps onto DIN rail EN 60715 35x7.5/15 Yes No	
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	+, -: 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 Yes No No Yes	

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 website: Industrial communication https://siemens.com/industrial-communication • 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

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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





Manufacturer Declaration

Declaration of Conformity





General Product Approval



BIS CRS



Marine / Shipping





Environment

last modified:

6/26/2024