## **SIEMENS**

## **Data sheet**



## 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\*

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	
<ul> <li>at rated input voltage 400 V</li> </ul>	2.1 A
<ul> <li>at rated input voltage 500 V</li> </ul>	1.7 A
current limitation of inrush current at 25 °C maximum	13 A
I2t value maximum	2.24 A²·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	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	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	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	
maximum	100 ms
output current	Too mo
• rated value	40 A
• rated range	0 40 A; +60 +70 °C: Derating 4%/K
supplied active power typical	960 W
short-term overload current	
at short-circuit during operation typical	120 A
duration of overloading capability for excess current	
at short-circuit during operation	25 ms
constant overload current	20 110
on short-circuiting during the start-up typical	44 A
product feature	77.A
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing	2
the power	
Efficiency	04.07
efficiency in percent	94 %
power loss [W]	00.00
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	66 W
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	1 /0
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
setting time	
maximum	10 ms
Protection and monitoring	
design of the overvoltage protection	< 31.8 V
• typical	44 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 44 A or latching shutdown
enduring short circuit current RMS value	
• typical	50 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
Safety	
galvanic isolation between input and output	Ven
galvanic isolation	Yes
operating resource protection class	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
leakage current	
iounage ourrein	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
maximum	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
•	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I
• maximum	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA
maximum     typical	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA  0.6 mA
maximum     typical protection class IP	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA  0.6 mA
maximum     typical  protection class IP  Approvals	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA  0.6 mA
maximum     typical  protection class IP  Approvals  certificate of suitability	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA  0.6 mA  IP20
maximum     typical     protection class IP  Approvals  certificate of suitability     CE marking	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA  0.6 mA  IP20  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
maximum     typical     protection class IP  Approvals  certificate of suitability     CE marking     UL approval	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA  0.6 mA  IP20  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
maximum     typical     protection class IP  Approvals  certificate of suitability     CE marking     UL approval      CSA approval	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA 0.6 mA  IP20  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
maximum     typical     protection class IP  Approvals  certificate of suitability     CE marking     UL approval      CSA approval      cCSAus, Class 1, Division 2	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA  0.6 mA  IP20  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  No
maximum     typical     protection class IP  Approvals     certificate of suitability	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA  0.6 mA  IP20  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  No
maximum     typical     protection class IP  Approvals  certificate of suitability     CE marking     UL approval      CSA approval      cCSAus, Class 1, Division 2     ATEX  certificate of suitability	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  1 mA 0.6 mA IP20  Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) No No

FM registration	No
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
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	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 operation     during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	Similar states of to, 5 55 % the defination
type of electrical connection	screw-type terminals
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded
• at output	+: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm²
for auxiliary contacts	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 $\dots$ 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
• 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
	E17.01E b
MTBF at 40 °C	517 015 h

