SIEMENS

Data sheet



SITOP PSU6200/3AC/DC24V/40A/EX

SITOP PSU6200 24 V/40 A stabilized power supply input: 400 - 500 V AC output: 24 V DC/40 A with diagnostic interface printed-circuit boards

Input	
type of the power supply network	3-phase AC or DC
supply voltage at AC	
 minimum rated value 	400 V
maximum rated value	500 V
initial value	323 V
• full-scale value	576 V
input voltage	
• at DC	450 600 V
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	18 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	47 63 Hz
input current	
 at rated input voltage 400 V 	1.5 A
 at rated input voltage 500 V 	1.2 A
current limitation of inrush current at 25 °C maximum	10 A
fuse protection type	
• in the feeder	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
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	0.2 %
on slow fluctuation of ohm loading	0.1 %
residual ripple	
maximum	80 mV
• typical	50 mV
voltage peak	
maximum	80 mV
• maximum	

	04 00 V
adjustable output voltage	24 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 960 W (1152 W up to 45°C)
display version for normal operation	Green LED for 24 V OK
type of signal at output	Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface
behavior of the output voltage when switching on	Overshoot of Vout < 2 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	100 ms
output current	
rated value	40 A
rated range	0 40 A; 48 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	960 W
short-term overload current	
 on short-circuiting during the start-up typical 	48 A
at short-circuit during operation typical	48 A
product feature	
 parallel switching of outputs 	can be set with DIP switch
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing	2
the power	
Efficiency	
efficiency in percent	96 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	40 W
during no-load operation maximum	4.5 W
Closed-loop control	
relative control precision of the output voltage at load step of	2 %
resistive load 10/90/10 % typical	
setting time	
load step 10 to 90% typical	2 ms
 load step 90 to 10% typical 	10 ms
• maximum	10 ms
Protection and monitoring	201
design of the overvoltage protection	< 32 V
• typical	48 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
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
protection class IP	IP20
Approvals	IP20
·	IP20
Approvals	Yes
Approvals certificate of suitability	
Approvals certificate of suitability • CE marking	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
Approvals certificate of suitability • CE marking • UL approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Approvals certificate of suitability • CE marking • UL approval • CSA approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) No
Approvals certificate of suitability CE marking UL approval CSA approval cCSAus, Class 1, Division 2	Yes 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
Approvals certificate of suitability	Yes 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
Approvals certificate of suitability	Yes 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 Yes; ATEX (EX) II 3G Ex ec IIC T4 Gc
Approvals certificate of suitability CE marking UL approval CSA approval CSA approval CSAus, Class 1, Division 2 ATEX certificate of suitability relating to ATEX	Yes 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 Yes; ATEX (EX) II 3G Ex ec IIC T4 Gc
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type of certification CB-certificate	Yes
certificate of suitability	163
•	Yes
EAC approval KC approval	
KC approval	No
• C-Tick	No V
Regulatory Compliance Mark (RCM)	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS; in process: DNV
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
 French marine classification society (BV) 	No
• DNV GL	No
 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	-30 +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C
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	push-in terminals
at input	L1, L2, L3, PE: push-in for 0.5 10 mm ²
at output	+1, +2, -1, -2, -3: push-in for 0.75 16 mm ²
for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 1.5 mm ²
width of the enclosure	95 mm
height of the enclosure	135 mm
depth of the enclosure	155 mm
required spacing	
• top	45 mm
• bottom	45 mm
• left	0 mm
• right	0 mm
net weight	2.1 kg
	Yes
product feature of the enclosure housing can be lined up	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module, redundancy module
mechanical accessories	Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



