SIEMENS

Data sheet 6EP3447-7SB00-3AX0

SITOP PSU6200/3AC/48VDC/20A

SITOP PSU6200 48 V/20 A stabilized power supply input: 400 - 500 V AC output: 48 V DC/20 A with diagnostic interface

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	48 V
output voltage	
● at output 1 at DC rated value	48 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	100 mV
● typical	80 mV
voltage peak	
● maximum	80 mV
● typical	30 mV

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adjustable output voltage	48 ... 56 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 48 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 < 1 %
response delay maximum	0.5 s
voltage increase time of the output voltage	
● typical	200 ms
output current	
● rated value	20 A
● rated range	0 ... 20 A; 24 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	30 A
● at short-circuit during operation typical	30 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 the power	2
Efficiency	
efficiency in percent	96.6 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	32 W
● during no-load operation maximum	4.5 W
Closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	4 %
setting time	
● load step 10 to 90% typical	4 ms
● load step 90 to 10% typical	10 ms
● maximum	10 ms
Protection and monitoring	
design of the overvoltage protection	< 60 V
● typical	24 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 % Iout 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	
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. 62368-1, UL 62368-1)
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● cCSAus, Class 1, Division 2	No
● ATEX	No
certificate of suitability	
● IECEx	No
● NEC Class 2	No
● ULhazloc approval	No
● FM registration	No

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type of certification CB-certificate	Yes
certificate of suitability	
● EAC approval	Yes
● KC approval	No
● C-Tick	No
● 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 mm²
● at output	+1, +2, -1, -2, -3: push-in for 0.75 ... 16 mm²
● for auxiliary contacts	13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm²
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
product feature of the enclosure housing can be lined up	Yes
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)

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