6EP3436-7SB00-3AX0

Data sheet



SITOP PSU6200/3AC/24VDC/20A

SITOP PSU6200 24 V/20 A stabilized power supply input: 400 - 500 V AC output: 24 V DC/20 A with diagnostics interface

type of the power supply network supply voltage at AC minimum rated value maximum rated value initial value	Input	
minimum rated value maximum rated value initial value of the output current in the event of power failure minimum operating condition of the mains buffering initial value	type of the power supply network	3-phase AC or DC
maximum rated value initial value initial value initial value initial value initial value initial value input voltage at DC operating condition of the mains buffering buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering at Vin = 400 V Ine frequency Ine f	supply voltage at AC	
initial value inut voltage at DC operating condition of the mains buffering buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering at Vin = 400 V 25 ms voltage curve at output output voltage at DC rated value in the feeder output voltage at DC rated value output voltage at DC rated value output voltage at DC rated value at Output voltage curve at output at DC rated value at Output voltage at DC rated value output voltage at DC rated value at Output voltage at DC rated value at Output voltage at DC rated value output voltage at DC rated value at Output voltage at Output 1 at DC rated value at Output voltage at output 1 at DC rated value output voltage output vol	 minimum rated value 	400 V
input voltage • at DC operating condition of the mains buffering buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency • 1 rated value • 2 rated value • 1 rated value • 2 rated value • 30 Hz line frequency • 1 rated input voltage 400 V • at rated input voltage 400 V • at rated input voltage 500 V 0.062 A current limitation of inrush current at 25 °C maximum fuse protection type • in the feeder voltage curve at output voltage curve at output voltage at DC rated value • at output 1 at DC rated value • at output 1 at DC rated value • at output 1 at DC rated value • on slow fluctuation of input voltage • on slow fluctuation of one hoading residual ripple • maximum • typical • Voltage peak	 maximum rated value 	500 V
input voltage	• initial value	323 V
• at DC operating condition of the mains buffering buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering iline frequency • 1 rated value • 2 rated value 100 Hz line frequency input current • at rated input voltage 400 V • at rated input voltage 500 V current limitation of inrush current at 25 °C maximum fuse protection type • in the feeder voltage curve at output voltage curve at output voltage at DC rated value • at output voltage • at output voltage • at output 1 at DC rated value • at output voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical • voltage peak	full-scale value	576 V
operating condition of the mains buffering buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency 1 rated value 2 rated value 60 Hz line frequency 1 trated input voltage 400 V 2 rated input voltage 400 V 2 rated input voltage 500 V 3 rat rated input voltage 500 V 4 rat rated input voltage 500 V 5 rate in the feeder 1 three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or 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 voltage curve at output coutput voltage 1 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 1 toutput voltage 1 at DC rated value 24 V output voltage 1 at DC rated value 24 V relative overall tolerance of the voltage 1 at output 1 at DC rated value 24 V relative control precision of the output voltage 26 on slow fluctuation of input voltage 27 on slow fluctuation of input voltage 28 on slow fluctuation of ohm loading 29 en aximum 20 mximum 2	input voltage	
buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency • 1 rated value • 2 rated value • 30 Hz line frequency • 1 rated value • 30 Hz line frequency input current • at rated input voltage 400 V • at rated input voltage 500 V • at rated input voltage 500 V • at rated input voltage 500 V • in the feeder • in the feeder • in the feeder • in the feeder • on stow fluctuation of invush Controlled, isolated DC voltage • at output 1 at DC rated value • at output 1 at DC rated value • at output 1 at DC rated value • at output 1 at DC rated value • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading • maximum • (ytpical • (at DC	450 600 V
event of power failure minimum operating condition of the mains buffering line frequency 1 rated value 50 Hz 60 Hz line frequency 1 at rated input voltage 400 V 1 at rated input voltage 500 V 1 rated value 1 o.62 A current limitation of inrush current at 25 °C maximum fuse protection type in the feeder in the feeder output voltage curve at output number of outputs 1 output voltage at DC rated value 24 V output voltage at output 1 at DC rated value 1 output 1 at DC rated value 1 on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum operating on distribute at Vin = 400 V at Vin = 400 V 1 ovor = 400 V 1 ovor = 400 Hz 1 ovor = 400 Hz 17 A 17 A 18 three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV/2011-1EA10 (setting 4 A) or 3RV/2711-1ED10 (UL 489) Output voltage curve at output 1 controlled, isolated DC voltage 1 output voltage o at output 1 at DC rated value 24 V relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 0.1 % residual ripple maximum operation is at Vin = 400 V	operating condition of the mains buffering	at Vin = 400 V
line frequency • 1 rated value • 2 rated value fine frequency • 1 rated value 60 Hz fine frequency • 1 rated input voltage 400 V • at rated input voltage 500 V current limitation of inrush current at 25 °C maximum 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 number of outputs output voltage at DC rated value • at output 1 at DC rated value • an slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage peak	· ·	25 ms
1 rated value 2 rated value 30 Hz 42 rated value 47 63 Hz input current at rated input voltage 400 V at rated input voltage 500 V current limitation of inrush current at 25 °C maximum 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) Cutput voltage curve at output controlled, isolated DC voltage number of outputs	operating condition of the mains buffering	at Vin = 400 V
2 rated value 60 Hz line frequency input current at rated input voltage 400 V at rated input voltage 500 V current limitation of inrush current at 25 °C maximum 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 voltage curve at output output voltage at DC rated value output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum other input voltage pak other input voltage on stow fluctuation of ohm loading other input voltage maximum other input voltage on stow fluctuation of ohm loading other input voltage maximum other input voltage on stow fluctuation of ohm loading other input voltage maximum other input voltage on stow fluctuation of ohm loading other input voltage maximum other input voltage on stow fluctuation of ohm loading other input voltage on stow fluctuation of ohm loading other input voltage on stow fluctuation of ohm loading other input voltage on stow fluctuation of ohm loading other input voltage on stow fluctuation of ohm loading other input voltage on stow fluctuation of ohm loading other input voltage on stow fluctuation of ohm loading other input voltage output voltage on stow fluctuation of ohm loading other input voltage output volt	line frequency	
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input current at rated input voltage 400 V at rated input voltage 500 V current limitation of inrush current at 25 °C maximum 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 output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage paak	• 2 rated value	60 Hz
 at rated input voltage 400 V at rated input voltage 500 V 0.62 A current limitation of inrush current at 25 °C maximum 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 output voltage at DC rated value at output 1 at DC rated value e at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak 	line frequency	47 63 Hz
at rated input voltage 500 V current limitation of inrush current at 25 °C maximum 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 number of outputs output voltage at DC rated value output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum other immitted at 20 mV voltage peak on slow fluctuation of ohm loading on typical voltage peak	input current	
current limitation of inrush current at 25 °C maximum 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 output voltage at DC rated value output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum other immediate at 25 °C maximum other poled coupled circuit breaker from 4 A characteristic C to 16 A chara	 at rated input voltage 400 V 	0.77 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 output voltage at DC rated value output voltage • at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage peak	at rated input voltage 500 V	0.62 A
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 output voltage at DC rated value output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum other in three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C to 1	current limitation of inrush current at 25 °C maximum	17 A
characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) Output voltage curve at output	fuse protection type	
voltage curve at output number of outputs output voltage at DC rated value output voltage • at output 1 at DC rated value relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage peak Controlled, isolated DC voltage 1 0.2 V 0.4 V 0.4 V 0.5 V 0.2 V 0.1 V 0.1 V 0.1 V 0.2 V 0.2 V 0.3 V 0.4 V 0.5 V 0.7 V 0.8 V 0.9 V 0	• in the feeder	characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or
number of outputs output voltage at DC rated value output voltage • at output 1 at DC rated value relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage peak	Output	
output voltage at DC rated value output voltage • at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage peak	voltage curve at output	Controlled, isolated DC voltage
output voltage • at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage peak	number of outputs	1
 ◆ at output 1 at DC rated value relative overall tolerance of the voltage 3 % relative control precision of the output voltage ◆ on slow fluctuation of input voltage ◆ on slow fluctuation of ohm loading residual ripple ◆ maximum ◆ typical voltage peak 	output voltage at DC rated value	24 V
relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak 3 % 0.2 % 0.1 % residual ripple on maximum 20 mV	output voltage	
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum otypical voltage peak	at output 1 at DC rated value	24 V
 on slow fluctuation of input voltage on slow fluctuation of ohm loading 0.1 % residual ripple maximum typical voltage peak 	relative overall tolerance of the voltage	3 %
on slow fluctuation of ohm loading residual ripple	relative control precision of the output voltage	
residual ripple • maximum • typical voltage peak	 on slow fluctuation of input voltage 	0.2 %
● maximum 30 mV ● typical 20 mV voltage peak 30 mV	on slow fluctuation of ohm loading	0.1 %
● typical 20 mV voltage peak	residual ripple	
voltage peak	• maximum	30 mV
	• typical	20 mV
• maximum 30 mV	voltage peak	
	• maximum	30 mV

• typical	20 mV
adjustable output voltage	24 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 480 W (576 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	20 A
rated range	0 20 A; 24 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	480 W
short-term overload current	
on short-circuiting during the start-up typical	24 A
at short-circuit during operation typical	24 A
product feature	
bridging of equipment	Yes: switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
efficiency in percent	05.0.9/
efficiency in percent	95.9 %
power loss [W]	22.14/
 at rated output voltage for rated value of the output current typical 	23 W
during no-load operation maximum	2.9 W
Closed-loop control	2.0 11
	2.0/
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
 load step 10 to 90% typical 	2 ms
load step 90 to 10% typical	2 ms
maximum	3 ms
Protection and monitoring	
design of the overvoltage protection	< 32 V
response value current limitation 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 % lout rated up to 5 s/min
Safety	
galvanic isolation between input and output	Yes
galvanic isolation between input and output	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	Olass I
<u> </u>	3.5 m/s
• 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. 60950-1, UL 60950-1)
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)
 cCSAus, Class 1, Division 2 	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No

FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	100
EAC approval	Yes
KC approval	No
• C-Tick	No
Regulatory Compliance Mark (RCM)	No
certificate of suitability shipbuilding approval	No
shipbuilding approval	in process: DNV GL, ABS
Marine classification association	III process. DIVV OL, ADO
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
DNV GL	No
Lloyds Register of Shipping (LRS)	No
	No
Nippon Kaiji Kyokai (NK)	INO
EMC	
standard	EN EEGOO OL D
• 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: PushIn for 0.5 10 mm ²
at output	+1, +2, -1, -2, -3: PushIn for 0.5 6 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	70 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	1.5 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

