SIEMENS

Data sheet

6EP3436-3SB00-0AX0



SITOP PSU4200/3AC/24VDC/20A

SITOP PSU4200 3AC 24 V/20 A stabilized power supply PSU4200 input: 400/500 V 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	550 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 400/500 V
buffering time for rated value of the output current in the event of power failure minimum	5 ms
operating condition of the mains buffering	at Vin = 400/500 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 	1.4 A
 at rated input voltage 500 V 	1.2 A
current limitation of inrush current at 25 °C maximum	36 A
duration of inrush current limiting at 25 °C	
• typical	20 ms
I2t value maximum	0.9 A ² ·s
fuse protection type	
• in the feeder	three-poled coupled circuit breaker from 6 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 6 A) or 3RV2711-1ED10 (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	
 on slow fluctuation of input voltage 	0.2 %
 on slow fluctuation of ohm loading 	0.3 %
residual ripple	
• maximum	150 mV
• typical	25 mV
voltage peak	
• maximum	240 mV



e tunical	10 mV
• typical	10 mV 24 28 V
adjustable output voltage	24 28 V Yes
product function output voltage adjustable	
type of output voltage setting display version for normal operation	via potentiometer Green LED for 24 V OK
type of signal at output	Signal contact (signal load capacity: 5 mA) for DC OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1.5 s
voltage increase time of the output voltage	222
• typical	230 ms
• maximum	500 ms
output current	
• rated value	20 A
rated range	0 20 A; +60 +70 °C: Derating 1%/K
supplied active power typical	480 W
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	91 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	48 W
 during no-load operation maximum 	3.5 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	0.5 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	1 %
setting time	
load step 10 to 90% typical	1 ms
 load step 90 to 10% typical 	1 ms
Protection and monitoring	
design of the overvoltage protection	< 32 V
typical	23.4 A
	Yes
property of the output short-circuit proof design of short-circuit protection	Constant current characteristic
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enduring short circuit current RMS value	22.5.4
● typical	23.5 A
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	ES1 output voltage Vout according to EN 62368-1 (Safety extra low output voltage Vout according to EN 60950-1)
operating resource protection class	Class I
leakage current	
• maximum	0.8 mA
	0.8 mA
• typical protection class IP	IP20
Approvals	
certificate of suitability	Vee
CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273
NEC Class 2	No
VIEU UIDSS Z	
• LIKCA marking	Vos
UKCA marking	Yes
EAC approval	Yes



1/1/2024

• BIS	No
CB-certificate	Yes
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
cCSAus, Class 1, Division 2	No
• FM registration	No
certificate of suitability shipbuilding approval	No
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
Lloyds Register of Shipping (LRS)	No
EMC	
standard	
for emitted interference	EN 55032
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	EN 01000-0-2
ambient temperature	
during operation	-25 +70 °C; with natural convection
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 4 mm ²
• at output	+, -: push-in for 0.5 6 mm ²
for signaling contact	13, 14: push-in for 0.2 1.5 mm ²
width of the enclosure	95 mm
height of the enclosure	135 mm
depth of the enclosure	150 mm
required spacing	
• top	45 mm
bottom	45 mm
• left	0 mm
● right	0 mm
net weight	1.66 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	817 921 h
other information	Specifications at rated input voltage and ambient temperature +25 $^\circ\text{C}$ (unless otherwise specified)



