SIEMENS

Data sheet 6EP3334-3SB00-0AX0

SITOP PSU4200/1AC/24VDC/10A

SITOP PSU4200 1AC 24 V/10 A stabilized power supply PSU4200 input: 120/240 V AC output: 24 V DC/ 10 A

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
● initial value	Automatic range selection
supply voltage	
● 1 at AC	100 ... 120 V
● 2 at AC	200 ... 240 V
input voltage	
● 1 at AC	85 ... 132 V
● 2 at AC	187 ... 264 V
design of input wide range input	No
operating condition of the mains buffering	at Vin = 120/240 V
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at Vin = 120/240 V
line frequency	
● 1 rated value	50 Hz
● 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
● at rated input voltage 100 V	5 A
● at rated input voltage 120 V	4.3 A
● at rated input voltage 230 V	2.5 A
● at rated input voltage 240 V	2.4 A
current limitation of inrush current at 25 °C maximum	60 A
duration of inrush current limiting at 25 °C	
● typical	20 ms
I2t value maximum	3.2 A²·s
fuse protection type	6.3 A
● in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C to from 16 A characteristic C
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
● typical	20 mV
adjustable output voltage	24 ... 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	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	
● typical	130 ms
● maximum	500 ms
output current	
● rated value	10 A
● rated range	0 ... 10 A; +60 ... +70 °C: Derating 4%/K
supplied active power typical	240 W
product feature	
● bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	90 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	27 W
● during no-load operation maximum	3 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	2 %
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	1 ms
● load step 90 to 10% typical	1 ms
Protection and monitoring	
design of the overvoltage protection	< 32 V
● typical	12.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
● typical	12.5 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	1.3 mA
● typical	0.7 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; 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
● 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	
● EAC approval	Yes
● Regulatory Compliance Mark (RCM)	Yes
● UKCA marking	Yes
type of certification BIS	No
certificate of suitability shipbuilding approval	No
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● 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 55032
● 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 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	L, N, PE: push-in for 0.5 ... 4 mm²
● at output	+, -: push-in for 0.5 ... 2.5 mm²
● for signaling contact	13, 14: push-in for 0.2 ... 1.5 mm²
width of the enclosure	70 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
● top	45 mm
● bottom	45 mm
● left	0 mm
● right	0 mm
net weight	0.65 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	1 220 530 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)