6EP3336-3SB00-0AX0

Data sheet



SITOP PSU4200/1AC/24VDC/20A

SITOP PSU4200 1AC 24 V/20 A stabilized power supply PSU4200 input: 120/240 V AC output: 24 V DC/20 A

type of the power supply network 1-phase AC supply voltage at AC 120 V • minimum rated value 240 V • initial value 85 V • full-scale value 264 V wide range input Yes 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 50/60 Hz line frequency 47 63 Hz • at rated input voltage 100 V 5.4 A • at rated input voltage 200 V 2.6 A • at rated input voltage 230 V 2.6 A • at rated input voltage 230 V 2.3 A • uursent limitation of inrush current at 25 °C maximum 20 A duration of inrush current at 25 °C maximum 20 A ± typical 40 ms 12t value maximum 3.4°s fuse protection type in the feeder Recommended miniature circuit breaker: from 10 A characteristic C to from 16 A reacteristic C to from 16 A reacterist	nput		
	type of the power supply network	1-phase AC	
• maximum rated value 240 V • full-scale value 85 V wide range input Yes 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 50/60 Hz line frequency 47 m 63 Hz input current 5.4 A • at rated input voltage 100 V 4.5 A • at rated input voltage 220 V 4.5 A • at rated input voltage 230 V 2.4 A • at rated input voltage 240 V 2.3 A current limitation of inrush current at 25 °C maximum 20 A duration of inrush current imiting at 25 °C 9 to A • typical 4m 12t value maximum 3 A²s fuse protection type in the feeder 6.3 A Recommended miniature circuit breaker: from 10 A characteristic C to from 16 A characteristic	supply voltage at AC		
• initial value • full-scale va	minimum rated value	120 V	
• full-scale value 264 V wide range input Yes 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 50/60 Hz input current 4 ms. 63 Hz • at rated input voitage 100 V 4.5 A • at rated input voitage 200 V 2.6 A • at rated input voitage 230 V 2.4 A • at rated input voitage 240 V 2.3 A current limitation of inrush current at 25 °C maximum 20 A duration of inrush current at 25 °C maximum 3A*s fuse protection type 6.3 A fuse protection type in the feeder 40 ms at put typical 40 ms support to type in the feeder Controlled, isolated DC voitage autput voitage acrive at output Controlled, isolated DC voitage output voitage 4 V output voitage adjustable Yes; via potentiometer adjustable output voitage 24 V output voitage adjustable 3% on slow fluctuation of input voitage 3%	maximum rated value	240 V	
wide range input Yes 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 50/60 Hz line frequency 50/60 Hz line frequency 4 ms • at rated input voitage 100 V 5.4 A • at rated input voitage 210 V 4.5 A • at rated input voitage 230 V 2.6 A • at rated input voitage 240 V 2.3 A current limitation of inrush current at 25 °C maximum 20 A duration of inrush current limiting at 25 °C 40 ms 12 value maximum 3 A²-s fuse protection type 6.3 A fuse protection type in the feeder 6.3 A Recommended miniature circuit breaker: from 10 A characteristic C to from 16 A characteristic C output voltage at DC rated value 24 V output voltage adjustable 44 28 V at output 1 at DC rated value 24 28 V output voltage adjustable 24 28 V at output 1 at DC rated value 3 % on slow fluctuation of input voltage	• initial value	85 V	
buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency 47 63 Hz 50/60 Hz 74 63 Hz 75 6	• full-scale value	264 V	
power failure minimum operating condition of the mains buffering iner frequency line frequency l	wide range input	Yes	
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input current • at rated input voltage 100 V • at rated input voltage 220 V • at rated input voltage 220 V • at rated input voltage 230 V • at rated input voltage 230 V • at rated input voltage 240 V 2.5 A • at rated input voltage 240 V 2.3 A current limitation of inrush current at 25 °C maximum 20 A duration of inrush current limiting at 25 °C • typical 40 ms 12t value maximum 6.3 A fuse protection type 6.3 A Recommended miniature circuit breaker: from 10 A characteristic C to from 16 A characteristic C utput voltage curve at output output voltage at DC rated value • at output 1 at DC rated value 24 V output voltage • at output 1 at DC rated value 24 V output voltage adjustable adjustable output voltage • at output voltage • at output voltage • at output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 1 % residual ripple • maximum 150 mV	line frequency	50/60 Hz	
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fuse protection type in the feeder Recommended miniature circuit breaker: from 10 A characteristic C to from 16 A characteristic C voltage curve at output voltage at DC rated value output voltage • at output 1 at DC rated value 24 V output voltage adjustable output voltage adjustable adjustable output voltage relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum Recommended miniature circuit breaker: from 10 A characteristic C to from 16	I2t value maximum	3 A ² ·s	
A characteristic C utput voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable output voltage adjustable adjustable output voltage relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum A characteristic C Controlled, isolated DC voltage 24 V Controlled, isolated DC voltage 24 V 24 V 24 V 24 V 25 via potentiometer 3 % 7 controlled isolated DC voltage 24 V 0 to voltage 24 ··· 28 V 150 mV	fuse protection type	6.3 A	
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output voltage at DC rated value 24 V output voltage	output		
output voltage • at output 1 at DC rated value 24 V output voltage adjustable adjustable output voltage 24 28 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 150 mV	voltage curve at output	Controlled, isolated DC voltage	
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output voltage adjustable adjustable output voltage 24 28 V relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum Yes; via potentiometer 24 28 V 3 % 0 .1 % 0 .1 % 1 % residual ripple • maximum 150 mV	output voltage		
adjustable output voltage 24 28 V relative overall tolerance of the voltage e on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple e maximum 150 mV	at output 1 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 1 % residual ripple maximum 150 mV	output voltage adjustable	Yes; via potentiometer	
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple maximum 150 mV	adjustable output voltage	24 28 V	
 on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 150 mV 	relative overall tolerance of the voltage	3 %	
on slow fluctuation of ohm loading residual ripple maximum 150 mV	relative control precision of the output voltage		
residual ripple • maximum 150 mV	 on slow fluctuation of input voltage 	0.1 %	
• maximum 150 mV	on slow fluctuation of ohm loading	1 %	
	residual ripple		
• typical 35 mV	• maximum	150 mV	
	• typical	35 mV	

voltage peak	
• maximum	240 mV
• typical	67 mV
display version for normal operation	Green LED for 24 V OK
type of signal at output	Signal contact (signal load capacity: 10 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	00
• typical .	33 ms
• maximum	500 ms
output current	20. A
• rated range	20 A
• rated range	0 20 A; +60 +70 °C: Derating 3%/K
supplied active power typical	480 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	93 %
power loss [W]	27.14
at rated output voltage for rated value of the output current typical	37 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	.00 V
design of the overvoltage protection	< 32 V
property of the output short-circuit proof design of short-circuit protection	Yes Shutdown and periodic restart attempts
• typical	23.1 A
enduring short circuit current RMS value	20.174
• typical	6 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	0.7 mA
• typical	0.5 mA
protection class IP	IP20
EMC	
standard	
for emitted interference	EN 55032 Class A
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	Voe
CE marking Ul approval	Yes Voca dillus Listed (III, E09, CSA, C22, 2 No. 107, 1). File E107250; aCSA, (a. (III,
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (UL 62368-1, CSA C22.2 No. 62368-1-19)
UKCA marking	Yes

EAC approval	Yes	
Regulatory Compliance Mark (RCM)	Yes	
NEC Class 2	No	
type of certification		
• BIS	Yes; R-41282421	
CB-certificate	Yes	
MTBF at 40 °C	1 065 000 h	
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	No	
• ATEX	No	
ULhazloc approval	No	
 cCSAus, Class 1, Division 2 	No	
FM registration	No	
standards, specifications, approvals marine classification		
shipbuilding approval	No	
Marine classification association		
 American Bureau of Shipping Europe Ltd. (ABS) 	No	
 French marine classification society (BV) 	No	
 Det Norske Veritas (DNV) 	No	
 Lloyds Register of Shipping (LRS) 	No	
standards, specifications, approvals Environmental Product Dec	claration	
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	1 078.9 kg	
during manufacturing	47.4 kg	
during operation	1 029.9 kg	
after end of life	0.72 kg	
ambient conditions		
ambient temperature		
during operation	-25 +70; with natural convection	
during transport	-40 +85	
during storage	-40 +85	
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation	
connection method	·	
type of electrical connection	push-in terminals	
• at input	L, N, 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	
mechanical data	10, 14. pash iii 10i 0.2 1.0 iiiiii	
width × height × depth of the enclosure	70 × 135 × 125 mm	
installation width × mounting height	70 × 135 × 125 mm	
	7.7 Hilli ** 22.7 Hilli	
required spacing	45 mm	
top bottom	45 mm	
left	0 mm	
● right	0 mm	
fastening method		
DIN-rail mounting	Snaps onto DIN rail EN 60715 35x7.5/15 Yes	
S7 rail mounting wall mounting	No No	
wall mounting	No Yes	
housing can be lined up		
net weight	0.93 kg	
further information internet links		
internet link		
internet link • to website: Industry Mall	https://mall.industry.siemens.com	
internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	
internet link	https://www.siemens.com/tstcloud https://siemens.com/sitop	
internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

Environment



Manufacturer Declaration





BIS CRS



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11/25/2024

