6EP3334-8SB00-0AY0

Data sheet



SITOP PSU8200/1AC/24VDC/10A

SITOP PSU8200 24 V/10 A stabilized power supply input: 120/230 V AC output: 24 V DC/ 10 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
• initial value	Automatic range selection
supply voltage	
 1 at AC rated value 	120 V
• 2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
design of input wide range input	No
operating condition of the mains buffering	at Vin = 120/230 V
buffering time for rated value of the output current in the event of power failure minimum	35 ms
operating condition of the mains buffering	at Vin = 120/230 V
line frequency	
1 rated value	50 Hz
2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	4 A
at rated input voltage 230 V	1.9 A
current limitation of inrush current at 25 °C maximum	10 A
12t value maximum	0.3 A ² ·s
fuse protection type	T 6.3 A (not accessible)
• in the feeder	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V
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 	0.1 %
on slow fluctuation of ohm loading	0.3 %
residual ripple	
maximum	50 mV

voltage peak	
• maximum	200 mV
adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 240 W
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	1.5 s
voltage increase time of the output voltage	70
• typical	70 ms
output current	10.4
• rated value	10 A
rated range	0 10 A; +60 +70 °C: Derating 2%/K; as of Ua>24 V: 4% [la]/V [Ua]; at Ue<100 V/<200 V: 80% la rated
supplied active power typical	240 W
short-term overload current	
 at short-circuit during operation typical 	30 A
duration of overloading capability for excess current	
at short-circuit during operation	25 ms
constant overload current	
on short-circuiting during the start-up typical	12 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	94 %
power loss [W]	
at rated output voltage for rated value of the output	18 W
current typical	4.5.101
during no-load operation maximum Closed-loop control	1.5 W
	0.10/
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of	4 %
resistive load 50/100/50 % typical	
setting time	
 load step 50 to 100% typical 	0.25 ms
load step 100 to 50% typical	0.5 ms
relative control precision of the output voltage at load step	4 %
of resistive load 10/90/10 % typical	
setting time	0.05
• load step 10 to 90% typical	0.25 ms
• load step 90 to 10% typical	0.5 ms
• maximum	1 ms
Protection and monitoring	
design of the overvoltage protection	< 33 V
response value current limitation typical	12 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 12 A or latching shutdown
enduring short circuit current RMS value	OTIGICAL TOTAL CONTROL OF THE PROPERTY OF THE
• typical	12 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
Safety	, , , , , , , , , , , , , , , , , , ,
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
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maximum	3.5 mA
typical	3.5 MA 1 mA
protection class IP	IP20
Approvals	11 20
certificate of suitability	
,	Yes
CE marking Ul approval	
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 No
type of certification CB-certificate	Yes
certificate of suitability	W.
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
 French marine classification society (BV) 	No
• DNV GL	Yes
 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	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage
during transport	-40 +85 °C
 during storage 	
	-40 +85 °C
environmental category acc. to IEC 60721	-40 +85 °C Climate class 3K3, 5 95% no condensation
	10.111
environmental category acc. to IEC 60721	10.111
environmental category acc. to IEC 60721 Mechanics	Climate class 3K3, 5 95% no condensation
environmental category acc. to IEC 60721 Mechanics type of electrical connection	Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely
environmental category acc. to IEC 60721 Mechanics type of electrical connection • at input	Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded
environmental category acc. to IEC 60721 Mechanics type of electrical connection • at input • at output	Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16
environmental category acc. to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts	Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm²
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environmental category acc. to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up	Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 55 mm 125 mm 125 mm 50 mm 0 mm 0 mm 0 mm 1 kg Yes
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environmental category acc. to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up fastening method electrical accessories	Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 55 mm 125 mm 125 mm 50 mm 0 mm 0 mm 1 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15 Buffer module

other information

Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$ (unless otherwise specified)

