SIEMENS

Data sheet 6EP1331-5BA00



SITOP PSU100C/1ACDC/24VDC/0.6A

SITOP PSU100C 24 V/0.6 A stabilized power supply input: 100-230 V AC (110-300 V DC) output: 24 V DC/0.6 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
minimum rated value	100 V
maximum rated value	230 V
initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 300 V
design of input wide range input	Yes
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 230 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 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 100 V	0.28 A
at rated input voltage 230 V	0.18 A
current limitation of inrush current at 25 °C maximum	28 A
I2t value maximum	0.7 A ² ·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 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 	0.1 %
 on slow fluctuation of ohm loading 	0.2 %
residual ripple	
• maximum	200 mV
• typical	40 mV
voltage peak	
• maximum	300 mV

Pytyroid	• typical	20 mV
Sype of output vottage setting		
display version for normal operation response delay maximum 1 s voltage increase time of the output voltage * yycical output current * rated value * rated value * rated value * rated day maximum 1 s stond-time moverhand current * at short-circuit during operation typical product feature * brodging of equipment * Fiftierincy difficiency # outing no-load operation maximum Closed-floor ported floor of the output voltage at load step of resistive control precision of the output voltage at load step of short-circuit product feature * load step 10 to 90% typical * load step 90 to 10% typical * load step 10 to 50% typical * load step 10 to 60% typical * load	· · · · · · · · · · · · · · · · · · ·	INU
behavior of the output voltage when evirching on response delay maximum 1 s response delay maximum 1 s s s response delay maximu		-
response delay maximum voltage increase time of the output voltage * syscial output current * rated value * rated value * rated value * rated range * a short-friend during operation typical short-friend during operation typical * a short-friend during operation typical * bridging of equipment * a short-friend during operation typical * bridging of equipment * bridging of equipment * bridging of equipment * a rated output voltage for rated value of the output current typical * during no-load operation maximum * outring no-load operation maximum * outring no-load operation maximum * outring no-load operation maximum * relative control precision of the output voltage with rapid fluctuation of the input voltage by 1-15% typical relative control precision of the output voltage at load slep of resistive load 105901 to 58 typical * load slep 10 to 96% typical * load slep 10 to 106% typical * load s		
voltage increase time of the output voltage • typical output current • rated value • rated drange 0 0.6 A stander dampe 3uspilled active power typical • at short-circuit during operation typical • at short-circuit during operation typical • and short-circuit during operation maximum 0.75 W Closed-loop control • closed-loop co		
Physical output current	response delay maximum	1s
output current	voltage increase time of the output voltage	
e rated range	• typical	25 ms
e rated range supplied active power typical abort-term overload current * at short-circuit during operation typical * at short-circuit during operation typical * bridging of equipment * bridging of equipment * bridging of equipment * bridging of equipment * B2 % power loss IW * at rated output voltage for rated value of the output current typical * during no load operation maximum * Closed-loop control relative control procision of the output voltage with rapid fluctuation of the imput voltage by 1-4-15% typical relative control procision of the output voltage at load step of resistive load 159/10 fly stypical relative control procision of the output voltage at load step of resistive load 159/10 fly stypical setting time * load step 10 to 90% typical * load step 30 to 10% typical * load step 30 to 10% typical * load step 30 to 10% typical * sypical * of the overvoltage protection * typical property of the output short-circuit proof design of short-circuit protection display version for overload and short circuit * Stricty galvanic isolation between input and output * yes galvanic isolation between input and output * yes galvanic isolation between input and output * yes galvanic isolation of sass IP IP20 Approval * Class I * U. approval * Ves. Class I * Ves. Class I P20 Approval * Ves. Class I Ves. Class I Ves. Class I Ve	output current	
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product feature • bridging of equipment • bridging of equipment • bridging of equipment efficiency efficiency in percent power loss [W] • at rated output voltage for rated value of the output current lypical • during no-bead operation maximum 0.75 W Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +-1.15% typical relative control precision of the output voltage with rapid fluctuation of the input voltage by +-1.15% typical relative control precision of the output voltage at load step of resistive load 10:90/10 % typical • load step 10 to 90% typical • typical property of the output short-circuit prodef • typical property of the output short-circuit prodef design of short-circuit protection display version for overload and short circuit • typical galivanic isolation between input and output galivanic isolation between input and output • typical operating resource protection class [eakage current • maximum • typical • CB marking • CB	short-term overload current	
bridging of equipment ### Circle Charles #### Circle Charles ### Circle Charles #### Circle Charles ##### Circle Charles ##### Circle Charles ##### Circle Charles ##### Circle Charles ###### Circle Charles ########## Circle Charles ###################################	at short-circuit during operation typical	1 A
efficiency in percent 82 % power loss [VI) * at rated output voltage for rated value of the output current typical * during no-load operation maximum 0.75 W **Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by 4*- 15% typical relative control precision of the output voltage at load step of resistive load 10:90/10 % typical 3 ms * load step 10 to 90% typical 3 ms * load step 10 to 90% typical 3 ms * load step 90 to 10% typical 0.7 A * typical 0.7 A * typical 0.7 A * typical or the overvoltage protection Yes, according to EN 60950-1 * typical property of the output short-circuit prof Yes design of short-circuit protection Electronic shutdown, automatic restart display version for overload and short circuit * display version for overload and short circuit galvanic isolation splay aliancia isolation * typical yes aliancia solation poperating resource protection class leakage current * anaximum * typical protection class IP Approvals certificate of suitability * CE marking Ves CULus-Listed (UL 508, CSA C22 2 No. 107:1), File E197259; cURus-Recognized (UL 60950, CSA C22 2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) Recognized (UL 60950, CSA C22 2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310) Ves; according to UL1310, File E151273 Ves certificate of suitability * CEC * EAC approval type of certification * CBc-criticate Ves ATEX No	product feature	
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power loss [W] a trated output voltage for rated value of the output current typical a during no-load operation maximum **Closed-loap control** relative control precision of the output voltage with rapid fluctuation of the input voltage with rapid fluctuation of the input voltage at load step of resistive load 10/9010 fly typical **Entity time** **Noad step 10 to 10% typical **Noad step 90 to 10% typical **Oad step 90 to 10% typical **Oad step 10 to 10% typical **Oad step 10 to 10% typical **On 7A **Protection and monitoring design of the overvoltage protection **On 7A **Protection and monitoring design of short-circuit protection **Stricty galvanic isolation between input and output **Stricty galvanic isolation **Deproval output voltage Uout acc. to EN 60950-1 and EN 50178 **Deproval output voltage Uout acc. to EN 60950-1 and EN 50178 **Deproval output voltage Uout acc. to EN 60950-1 and EN 50178 **Ves **CE marking **Ves **CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 **EAC approval **Poet Class 2 **EAC approval **Poet Class 2 **EAC approval **Poet Class 2 **EAC approval **CECK **ATEX **No		82 %
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outring no-lead operation maximum outring no-lead operation maximum relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage at load step of resistive load 1090/10 % typical setting time olad step 10 to 90% typical olad step 90 to 10% typical olad step		2 6 W
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Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage at load step of resistive load 10/90/10 % typical setting time load step 10 to 90% typical 3 ms	•	0.75 W
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• IECEX • ATEX No		Yes
• ATEX No	•	
ULhazloc approval No	• ATEX	No
	• •	No
• cCSAus, Class 1, Division 2 No	• cCSAus, Class 1, Division 2	No

FM registration	No
certificate of suitability shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	No
 Lloyds Register of Shipping (LRS) 	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
 for mains harmonics limitation 	not applicable
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-20 +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	screw-type terminals
• at input	L, N, PE: Removable screw terminal, each for 1 x 0.5 2.5 mm ²
at output	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm²
 for auxiliary contacts 	-
width of the enclosure	22.5 mm
height of the enclosure	80 mm
depth of the enclosure	100 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.12 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	Removable spring-type terminal 6EP1971-5BA00
MTBF at 40 °C	3 910 833 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

