SIEMENS

Data sheet

6EP1333-1LB00



SITOP PSU100L/1AC/24VDC/5A

SITOP PSU100L 24 V/5 A Stabilized power supply input: 120/230 V AC, output: 24 V DC/5 A

input				
type of the power supply network	1-phase AC			
supply voltage at AC	Set by means of selector switch on the device			
supply voltage	120 V/230 V			
input voltage 1 at AC	93 132 V			
input voltage 2 at AC	187 264 V			
wide range input	No			
overvoltage overload capability	2.3 × Vin rated, 1.3 ms			
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 = 93/187 V			
line frequency	50/60 Hz			
line frequency	47 63 Hz			
input current				
 at rated input voltage 120 V 	2.1 A			
 at rated input voltage 230 V 	1.15 A			
current limitation of inrush current at 25 °C maximum	32 A			
duration of inrush current limiting at 25 °C				
• typical	3 ms			
l2t value maximum	0.8 A ² ·s			
fuse protection type	T 3,15 A/250 V (not accessible)			
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 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			
output voltage adjustable	Yes; via potentiometer			
adjustable output voltage	22.8 26.4 V			
relative control precision of the output voltage				
 on slow fluctuation of input voltage 	0.1 %			
 on slow fluctuation of ohm loading 	0.5 %			
residual ripple				
• maximum	150 mV			
• typical	50 mV			
voltage peak				
• maximum	240 mV			
• typical				
	150 mV			
display version for normal operation	150 mV Green LED for 24 V OK			

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response delay maximum	1.5 s			
voltage increase time of the output voltage				
• typical	130 ms			
output current				
rated value	5 A			
rated range	0 5 A; +45 +60 °C: Derating 2%/K			
supplied active power typical	120 W			
bridging of equipment	Yes			
number of parallel-switched equipment resources for increasing	2			
the power				
efficiency				
efficiency in percent	86 %			
power loss [W]				
 at rated output voltage for rated value of the output 	17 W			
current typical				
closed-loop control				
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %			
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %			
setting time				
 load step 10 to 90% typical 	0.4 ms			
 load step 90 to 10% typical 	0.4 ms			
protection and monitoring				
design of the overvoltage protection	< 33 V			
property of the output short-circuit proof	Yes			
design of short-circuit protection	Constant current characteristic			
• typical	5.25 A			
enduring short circuit current RMS value				
• typical	8 A			
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				
• maximum	3.5 mA			
	0.4 mA			
• typical	0.4 mA			
• typical protection class IP	IP20			
protection class IP				
protection class IP standard	IP20			
protection class IP standard • for emitted interference	IP20 EN 55022 Class A			
protection class IP standard • for emitted interference • for mains harmonics limitation	IP20 EN 55022 Class A -			
protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity	IP20 EN 55022 Class A -			
protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals	IP20 EN 55022 Class A -			
protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability	IP20 EN 55022 Class A - EN 61000-6-2			
protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking	IP20 EN 55022 Class A - EN 61000-6-2 Yes			
protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval	IP20 EN 55022 Class A - EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259			
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protection class IP standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • EAC approval • NEC Class 2	IP20 EN 55022 Class A - EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes			
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No
No
No
No
No
claration
Yes
545 kg
12.9 kg
531.6 kg
0.35 kg
0 60 °C; with natural convection
-40 +85 °C
-40 +85 °C
Climate class 3K3, 5 95% no condensation
screw terminal
L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded
+, -: 2 screw terminals each for 0.5 2.5 mm ²
50 × 120
50 mm
50 mm
50 mm
0 mm
0 mm
Snaps onto DIN rail EN 60715 35x7.5/15
Yes
No
No
Yes
0.5 kg
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https://siemens.com/tst
http://www.siemens.com/simatic-net
http://www.siemens.com/cax
https://support.industry.siemens.com
Specifications at rated input voltage and ambient temperature +25 °C (unless
otherwise specified)
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Classifications						
				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 App	roval					
СВ	<u>Manufacturer Declara-</u> tion	Declaration of Con- formity	UK CA	CE EG-Konf.	(UL) III	
General Product Approval	Environment					
<u>BIS CRS</u>	EPD					
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