SIEMENS

Data sheet 6EP1333-7CA00



SITOP PSU100P/1AC/24VDC/5A/IP67

SITOP PSU100P IP67 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	
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
overvoltage overload capability	Implemented internally with varistor
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	40 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 	2.25 A
 at rated input voltage 230 V 	1.24 A
current limitation of inrush current at 25 °C maximum	15 A
I2t value maximum	0.6 A ² ·s
fuse protection type	T 3.15 A
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C/B
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	50 mV
voltage peak	
maximum	100 mV

product function output voltage edinately	No
product function output voltage adjustable	No Croon LED: 24 V OK: rod LED floobing: "overload/obert circuit"
display version for normal operation	Green LED: 24 V OK; red LED flashing: "overload/short-circuit"
type of signal at output	Relay contact (NO contact, rating 30 V AC/ 0.5 A; 30 V DC/1 A) for 24 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 3 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
• typical	22 ms
maximum	100 ms
output current	
• rated value	5 A
rated range	0 5 A
supplied active power typical	133 W
short-term overload current	
 on short-circuiting during the start-up typical 	20 A
at short-circuit during operation typical	20 A
duration of overloading capability for excess current	
on short-circuiting during the start-up	50 ms
at short-circuit during operation	50 ms
product feature	
bridging of equipment	Yes; Symmetric wiring required
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	90 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	12.9 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	1 %
setting time	
• maximum	2 ms
Protection and monitoring	
design of the overvoltage protection	< 29 V
response value current limitation typical	5.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	
maximum	6 A
• typical	5 A
display version for overload and short circuit	Red LED flashing for "overload/short-circuit"
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
• typical	1 mA
protection class IP	IP67, enclosure type 5 indoor
Approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
certificate of suitability • IECEx	No

NEO OL O	N
• NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	No
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
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
ЕМС	
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 +60 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	3K6 without direct sunlight
Mechanics	
type of electrical connection	screw-type terminals
• at input	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
• at output	+, -: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
for auxiliary contacts	Alarm signals: M12 plug-in connector 4-pin
product function	
 removable terminal at input 	Yes
removable terminal at output	Yes
width of the enclosure	120 mm
height of the enclosure	181 mm
depth of the enclosure	60.5 mm
required spacing	
• top	50 mm
• bottom	0 mm
• left	0 mm
• right	0 mm
net weight	1.1 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Wall mounting
MTBF at 40 °C	1 500 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

