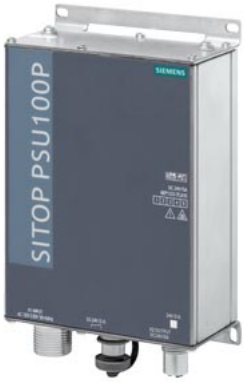
SIEMENS

Data sheet 6EP1333-7CA10



SITOP PSU100P/1AC/DC24V/5A/IP67/M12L

SITOP PSU100P IP67 stabilized power supply input: 120/230 V AC output: 24 V DC/5 A outgoing connector: M12 L-coded

input	
type of the power supply network	1-phase AC
supply voltage at AC	Automatic range selection
supply voltage	120 V/230 V
input voltage 1 at AC	85 ... 132 V
input voltage 2 at AC	170 ... 264 V
wide range input	No
overvoltage overload capability	Implemented internally with varistor
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	50/60 Hz
line frequency initial value	47 ... 63 Hz
line frequency full-scale value	
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 A²·s
fuse protection type	T 3.15 A
fuse protection type 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
output voltage adjustable	No
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
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
bridging of equipment	Yes; Symmetric wiring required
number of parallel-switched equipment resources for increasing the power	2
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
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
● typical	5.5 A
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
standard	
● for emitted interference	EN 55022 Class B
● for mains harmonics limitation	EN 61000-3-2
● for interference immunity	EN 61000-6-2
standards, specifications, 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)
● EAC approval	Yes
● NEC Class 2	No
type of certification	
● CB-certificate	No
MTBF at 40 °C	1 500 000 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
ambient 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
connection method	
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 M12-L coded (counterpart see "Operating Instructions (compact)")
● for auxiliary contacts	Alarm signals: M12 plug-in connector 4-pin
removable terminal at input	Yes
removable terminal at output	Yes
mechanical data	
width × height × depth of the enclosure	120 × 181 × 60.5 mm
installation width × mounting height	120 mm
required spacing	
● top	50 mm
● bottom	0 mm
● left	0 mm
● right	0 mm
fastening method	Wall mounting
● standard rail mounting	No
● S7 rail mounting	No
● wall mounting	Yes
housing can be lined up	Yes
net weight	1.1 kg
further information internet links	
internet link	
● to web page: selection aid TIA Selection Tool	https://siemens.com/tst
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: CAx-Download-Manager	http://www.siemens.com/cax
additional information	
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)

Classifications

	Version	Classification
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

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