SIEMENS

Data sheet 6EP1433-0AA00



SITOP PSU300E/3AC/24VDC/5A

SITOP PSU300E 24 V/5 A Stabilized power supply input: 3 AC 400-500 V output: 24 V DC/5 A

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP1433-0AA00
product brand name	SITOP
product type designation	PSU300E
product designation	Power supply SITOP
type of current supply	24 V/5 A
input	
type of the power supply network	3-phase AC
phase number	3
voltage curve at input	AC
supply voltage at AC	
● minimum rated value	400 V
● maximum rated value	500 V
● initial value	320 V
● full-scale value	550 V
supply voltage	
● at 50 Hz	400 V
● at 60 Hz	500 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	50 ms
operating condition of the mains buffering	at Vin = 400 V
input current	
● at rated input voltage 400 V	0.36 A
● at rated input voltage 500 V	0.29 A
current limitation of inrush current at 25 °C maximum	15 A
I2t value maximum	0.9 $A^2 \cdot s$
fuse protection type	none
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 6 A characteristic B or C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
output	
voltage curve at output	Controlled, isolated DC voltage
product function output voltage controlled	Yes
product function output voltage stabilized	Yes
output voltage at DC rated value	24 V
output voltage	
● at output 1 at DC rated value	24 V

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output voltage	
● at output 1 at DC	24 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	24 ... 29 V; max. 120 W
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
● on slow fluctuation of input voltage	3 %
● on slow fluctuation of ohm loading	3 %
residual ripple	
● maximum	150 mV
● typical	35 mV
voltage peak	
● maximum	240 mV
● typical	70 mV
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	0.5 s
voltage increase time of the output voltage	
● typical	10 ms
● maximum	100 ms
output current	
● rated value	5 A
● rated range	0 ... 5 A
supplied active power typical	120 W
short-term overload current	
● on short-circuiting during the start-up typical	33 A
● at short-circuit during operation typical	28 A
duration of overloading capability for excess current	
● on short-circuiting during the start-up	140 ms
● at short-circuit during operation	135 ms
bridging of equipment	No
efficiency	
efficiency in percent	90 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	13 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	5 %
setting time	
● load step 50 to 100% typical	1 ms
● load step 100 to 50% typical	1 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	1 %
setting time	
● load step 10 to 90% typical	1 ms
● load step 90 to 10% typical	1 ms
● maximum	30 ms
protection and monitoring	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
● typical	11 A
enduring short circuit current RMS value	
● maximum	7.5 A
safety	
galvanic isolation between input and output	Yes

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galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
protection class IP	IP20
EMC	
standard	
● for emitted interference	EN 55022 Class A
● 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), File E197259
● EAC approval	Yes
● NEC Class 2	No
type of certification	
● CB-certificate	No
MTBF at 40 °C	2 389 441 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
● IECEx	No
● ATEX	No
● ULhazloc approval	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	0 ... 60 °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
connection method	
type of electrical connection	screw terminal
● at input	L1, L2, L3, PE: Removable screw terminal for 0.5 ... 2.5 mm² single-core/finely stranded
● at output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²
● for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.5 ... 2.5 mm²
removable terminal at input	Yes
removable terminal at output	Yes
mechanical data	
width × height × depth of the enclosure	42 × 125 × 125 mm
installation width × mounting height	42 mm × 225 mm
required spacing	
● top	50 mm
● bottom	50 mm
● left	0 mm
● right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
● DIN-rail mounting	Yes
● S7 rail mounting	No
● wall mounting	No
housing can be lined up	Yes
net weight	0.6 kg
further information internet links	

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internet link	
● to website: Industry Mall	https://mall.industry.siemens.com
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: power supplies	https://siemens.com/sitop
● to website: CAx-Download-Manager	https://siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

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	16	27-04-07-01
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	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

CB	Manufacturer Declaration	CE	China RoHS	Declaration of Conformity	UL

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