SIEMENS

Data sheet

6EP3133-0TA10-0AY0



SITOP PSU3400/DC/DC/12V/24V/4A

SITOP PSU3400 24 V/4 A Stabilized power supply Input: DC 12 V (9...18 V) Output: DC 24 V/4 A

Input	
type of the power supply network	DC voltage
supply voltage	
• at DC	12 12 V
input voltage	
• at DC	9 18 V
design of input wide range input	No
overvoltage overload capability	-
operating condition of the mains buffering	at Vin = 12 V
buffering time for rated value of the output current in the event of power failure minimum	2 ms
operating condition of the mains buffering	at Vin = 12 V
input current	
 at rated input voltage 24 V 	9 A
current limitation of inrush current at 25 °C maximum	15 A
l2t value maximum	0.08 A ² ·s
fuse protection type	25 A (not accessible), breaking capacity 300 A
• in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or 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	2 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
 on slow fluctuation of ohm loading 	0.6 %
residual ripple	
• maximum	150 mV
• typical	20 mV
voltage peak	
• maximum	250 mV
• typical	40 mV
adjustable output voltage	24 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	0.5 s
voltage increase time of the output voltage	

e tunical	10 ms
● typical ● maximum	20 ms
output current	201115
rated value	4 A
rated value	0 4 A; +60 +70 °C: Derating 2%/K
supplied active power typical	108 W
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for	2
increasing the power	-
Efficiency	
efficiency in percent	89 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	12 W
 during no-load operation maximum 	1.5 W
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 load step of	2 %
resistive load 50/100/50 % typical	
setting time	
 load step 50 to 100% typical 	1 ms
 load step 100 to 50% typical 	1 ms
Protection and monitoring	
design of the overvoltage protection	Ua < 35 V
response value current limitation typical	4.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
display version for overload and short circuit	Yellow LED overload
Safety	
aplyania isolation between input and output	Yes
galvanic isolation between input and output	
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
galvanic isolation operating resource protection class	Safety extra low output voltage Vout according to EN 60950-1 Class III
galvanic isolation operating resource protection class protection class IP	Safety extra low output voltage Vout according to EN 60950-1
galvanic isolation operating resource protection class protection class IP Approvals	Safety extra low output voltage Vout according to EN 60950-1 Class III
galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability	Safety extra low output voltage Vout according to EN 60950-1 Class III IP20
galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability • CE marking	Safety extra low output voltage Vout according to EN 60950-1 Class III IP20 Yes
galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability • CE marking • UL approval	Safety extra low output voltage Vout according to EN 60950-1 Class III IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
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galvanic isolation operating resource protection class protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • cCSAus, Class 1, Division 2 • ATEX certificate of suitability • IECEx • NEC Class 2	Safety extra low output voltage Vout according to EN 60950-1 Class III IP20 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 No No No
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atandard	
standard	EN 04000 0 0
• for emitted interference	EN 61000-6-3
for mains harmonics limitation	not applicable
 for interference immunity 	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	-25 +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, FE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
width of the enclosure	32 mm
height of the enclosure	100 mm
depth of the enclosure	100 mm
required spacing	
• top	50 mm
bottom	50 mm
• left	0 mm
● right	0 mm
net weight	0.32 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	Buffer module
MTBF at 40 °C	1 868 914 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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