6EP3233-0TA10-0AY0

## **Data sheet**



SITOP PSU3400/DC/DC/48V/24V/3.5A

SITOP PSU3400 24 V/3.5 A Stabilized power supply Input: 48 V DC (28...60 V) Output: 24 V DC/3.5 A NEC CLASS2

type of the power supply network	DC voltage
supply voltage at AC	
• initial value	Startup as of 36 V, derating necessary for 28 36 V DC
supply voltage	
• at DC	48 48 V
input voltage	
• at DC	28 60 V
design of input wide range input	No
overvoltage overload capability	-
operating condition of the mains buffering	at Vin = 48 V
buffering time for rated value of the output current in the event of power failure minimum	5 ms
operating condition of the mains buffering	at Vin = 48 V
input current	
at rated input voltage 48 V	1.9 A
current limitation of inrush current at 25 °C maximum	15 A
12t value maximum	0.09 A²·s
fuse protection type	15 A (not accessible), breaking capacity 100 A
• in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or C
Dutput	
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	1 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
on slow fluctuation of ohm loading	0.2 %
residual ripple	
• maximum	150 mV
• typical	30 mV
voltage peak	
• maximum	250 mV
• typical	70 mV
adjustable output voltage	24 28 V
	Yes
product function output voltage adjustable	
product function output voltage adjustable type of output voltage setting	via potentiometer
	via potentiometer  Green LED for 24 V OK

response delay mayimum	0.5 s
response delay maximum voltage increase time of the output voltage	0.5 s
·	10 ms
• typical	20 ms
• maximum	20 1115
output current	251
• rated value	3.5 A
• rated range	0 3.5 A; +60 to +70 °C: without derating
supplied active power typical	91 W
product feature	Vac
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	90 %
power loss [W]	
at rated output voltage for rated value of the output current typical	7 W
during no-load operation maximum	1.5 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.3 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of	2 %
resistive load 50/100/50 % typical	Z /0
setting time	
<ul><li>load step 50 to 100% typical</li></ul>	1 ms
■ load step 100 to 50% typical  ■ load step 100 to 50% typical	1 ms
Protection and monitoring	
design of the overvoltage protection	Ua < 35 V
• typical	3.8 A
proporty of the output chart circuit proof	Yes
property of the output short-circuit proof	
design of short-circuit protection	Electronic shutdown, automatic restart
	Electronic shutdown, automatic restart  LED yellow for "overload"
design of short-circuit protection	
design of short-circuit protection display version for overload and short circuit	
design of short-circuit protection display version for overload and short circuit Safety	LED yellow for "overload"
design of short-circuit protection display version for overload and short circuit  Safety galvanic isolation between input and output	LED yellow for "overload"  Yes
design of short-circuit protection display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation	LED yellow for "overload"  Yes  Safety extra low output voltage Vout according to EN 60950-1
design of short-circuit protection display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Safety extra low output voltage Vout according to EN 60950-1 Class III
design of short-circuit protection display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class protection class IP	Yes Safety extra low output voltage Vout according to EN 60950-1 Class III
design of short-circuit protection display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class protection class IP  Approvals	Yes Safety extra low output voltage Vout according to EN 60950-1 Class III
design of short-circuit protection display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class protection class IP  Approvals certificate of suitability	Yes Safety extra low output voltage Vout according to EN 60950-1 Class III IP20
design of short-circuit protection display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class protection class IP  Approvals  certificate of suitability  • CE marking	Yes Safety extra low output voltage Vout according to EN 60950-1 Class III IP20  Yes
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EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 61000-6-3
<ul> <li>for mains harmonics limitation</li> </ul>	not applicable
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-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 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 2.5 mm²
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	1 934 648 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

