6EP3133-0TA00-0AY0

Data sheet



SITOP PSU3400/DC/DC/24V/24V/5A

SITOP PSU3400 24 V/5 A Stabilized power supply Input: 24 V DC (14...32 V) Output: 24 V DC/5 A

nput	
type of the power supply network	DC voltage
supply voltage at AC	
• initial value	Startup as of 18 V, derating necessary for 14 18 V DC
supply voltage	
• at DC	24 24 V
input voltage	
• at DC	14 32 V
design of input wide range input	No
overvoltage overload capability	-
operating condition of the mains buffering	at Vin = 24 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 = 24 V
input current	
 at rated input voltage 24 V 	5.5 A
current limitation of inrush current at 25 °C maximum	15 A
I2t value maximum	0.18 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
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
	24 V
relative overall tolerance of the voltage	1 %
relative overall tolerance of the voltage relative control precision of the output voltage	
relative control precision of the output voltage	1 %
relative control precision of the output voltage • on slow fluctuation of input voltage	1 % 0.1 %
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading	1 % 0.1 %
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple	1 % 0.1 % 0.3 %
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum	1 % 0.1 % 0.3 % 150 mV
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical	1 % 0.1 % 0.3 % 150 mV
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak	1 % 0.1 % 0.3 % 150 mV 15 mV
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak maximum	1 % 0.1 % 0.3 % 150 mV 15 mV
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak maximum typical	1 % 0.1 % 0.3 % 150 mV 15 mV 250 mV 40 mV
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak maximum typical adjustable output voltage	1 % 0.1 % 0.3 % 150 mV 15 mV 250 mV 40 mV 24 28 V
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak maximum typical adjustable output voltage product function output voltage adjustable	1 % 0.1 % 0.3 % 150 mV 15 mV 250 mV 40 mV 24 28 V Yes

response delay maximum	0.5 s
voltage increase time of the output voltage	0.00
• typical	10 ms
	20 ms
maximum	20 IIIS
output current	F.A.
• rated value	5 A
• rated range	0 6 A; 6 A up to +40°C; +60 +70 °C: Derating 2%/K
supplied active power typical	130 W
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	93 %
power loss [W]	50 N
at rated output voltage for rated value of the output	10 W
current typical	10 VV
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	
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
• typical	6.5 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	LED yellow for "overload"
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	
auranio iguianon	Safety extra low output voltage Vout according to EN 60950-1
	Safety extra low output voltage Vout according to EN 60950-1 Class III
operating resource protection class	Class III
operating resource protection class protection class IP	
operating resource protection class protection class IP Approvals	Class III
operating resource protection class protection class IP Approvals certificate of suitability	Class III IP20
operating resource protection class protection class IP Approvals certificate of suitability • CE marking	Class III IP20 Yes
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EMC	
standard	
 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 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	1 953 545 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

