SIEMENS

Data sheet

6EP1332-2BA20



SITOP PSU100S/1AC/24VDC/2.5A

SITOP PSU100S 24 V/2.5 A stabilized power supply input: 120/230 V AC output: 24 V DC/2.5 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Automatic range selection
supply voltage	
 1 at AC rated value 	120 V
 2 at AC rated value 	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 93/187 V
line frequency	
 1 rated value 	50 Hz
 2 rated value 	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	1.25 A
 at rated input voltage 230 V 	0.74 A
current limitation of inrush current at 25 °C maximum	33 A
I2t value maximum	0.4 A ² ·s
fuse protection type	T 3,15 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 3 A characteristic 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	3 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
 on slow fluctuation of ohm loading 	1 %
residual ripple	
maximum	150 mV
• typical	30 mV
voltage peak	
• maximum	240 mV
• typical	70 mV

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adjustable output voltage	22.8 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
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 < 3 %
	0.3 s
response delay maximum	0.5 5
voltage increase time of the output voltage	
• typical	15 ms
output current	
 rated value 	2.5 A
 rated range 	0 3 A; 3 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	60 W
short-term overload current	
 on short-circuiting during the start-up typical 	9 A
 at short-circuit during operation typical 	8 A
duration of overloading capability for excess current	
	000 ma
 on short-circuiting during the start-up 	800 ms
at short-circuit during operation	100 ms
product feature	
 bridging of equipment 	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	85 %
power loss [W]	
	10 \W
 at rated output voltage for rated value of the output current typical 	10 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 at load step	5 %
of resistive load 10/90/10 % typical	
setting time	
setting time • load step 10 to 90% typical	1 ms
 load step 10 to 90% typical 	
load step 10 to 90% typicalload step 90 to 10% typical	1 ms 1 ms
load step 10 to 90% typical load step 90 to 10% typical Protection and monitoring	1 ms
load step 10 to 90% typical load step 90 to 10% typical Protection and monitoring design of the overvoltage protection	1 ms protection against overvoltage in case of internal fault Vout < 33 V
load step 10 to 90% typical load step 90 to 10% typical Protection and monitoring	1 ms
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load step 10 to 90% typical load step 90 to 10% typical Protection and monitoring design of the overvoltage protection response value current limitation	1 ms protection against overvoltage in case of internal fault Vout < 33 V 3 3.4 A
load step 10 to 90% typical load step 90 to 10% typical Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection	1 ms protection against overvoltage in case of internal fault Vout < 33 V 3 3.4 A Yes
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load step 10 to 90% typical load step 90 to 10% typical Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value e typical	1 ms protection against overvoltage in case of internal fault Vout < 33 V 3 3.4 A Yes Constant current characteristic 3.4 A
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 load step 10 to 90% typical load step 90 to 10% typical Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output 	1 ms protection against overvoltage in case of internal fault Vout < 33 V 3 3.4 A Yes Constant current characteristic 3.4 A overload capability 150 % lout rated up to 5 s/min - Yes
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NEC Class 2	No
 ULhazloc approval 	No
 FM registration 	No
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	BV, DNV GL
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
 French marine classification society (BV) 	Yes
DNV GL	Yes
Lloyds Register of Shipping (LRS)	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 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
environmental category according to IEC 60721 Mechanics	Climate class 3K3, 5 95% no condensation
Mechanics	
Mechanics type of electrical connection	screw-type terminals
Mechanics	
Mechanics type of electrical connection	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
Mechanics type of electrical connection • at input • at output	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output • for auxiliary contacts	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm
Mechanics type of electrical connection at input at output for auxiliary contacts for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing top	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm 50 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm 50 mm 0 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm 50 mm 0 mm 0 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure height of the enclosure required spacing • top • bottom • left • right net weight	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0.32 kg
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0.32 kg Yes
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up fastening method	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 signals 50 mm 125 mm 125 mm 120 m
Mechanics type of electrical connection at input at output for auxiliary contacts for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing top bottom left right net weight product feature of the enclosure housing can be lined up fastening method electrical accessories 	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 signals Snaps onto DIN rail EN 60715 35x7.5/15 Buffer module
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up fastening method	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0 mm 0.32 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15
Mechanics type of electrical connection at input at output for auxiliary contacts for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing top bottom left right net weight product feature of the enclosure housing can be lined up fastening method electrical accessories 	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 signals onto DIN rail EN 60715 35x7.5/15 Buffer module Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-
Mechanics type of electrical connection • at input • at output • for auxiliary contacts • for signaling contact width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up fastening method electrical accessories mechanical accessories	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 2.5 mm ² Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 32.5 mm 125 mm 125 mm 120 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 signals onto DIN rail EN 60715 35x7.5/15 Buffer module Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1 SB20

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