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
	70 mV
typical adjustable output voltage	22.8 28 V
adjustable output voltage	
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 %
response delay maximum	0.3 s
voltage increase time of the output voltage	45
• 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	
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 increasing the power	2
Efficiency	
efficiency in percent	85 %
power loss [W]	00 %
at rated output voltage for rated value of the output	10 W
current typical	10 VV
Closed-loop control	
-	0.0 %
relative control precision of the output voltage with rapid	0.3 %
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
	0.3 % 5 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage at load step of	
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• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
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
Mechanics	
type of electrical connection	screw-type terminals
at input	L, N, PE: 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 mm ²
for auxiliary contacts	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
for signaling contact	2 screw terminals for 0.5 2.5 mm ²
width of the enclosure	32.5 mm
height of the enclosure	125 mm
depth of the enclosure	120 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
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
MTBF at 40 °C	1 804 044 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless
	otherwise specified)

