SIEMENS

Data sheet 6EP1334-2BA20



SITOP PSU100S/1AC/24VDC/10A

SITOP PSU100S 24 V/10 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 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 	4.49 A
at rated input voltage 230 V	1.91 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	5.6 A ² ·s
fuse protection type	T 6.3 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 10 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	20 mV
voltage peak	

• maximum	240 mV
• typical	160 mV
adjustable output voltage	22.8 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
	Green LED for 24 V OK
display version for normal operation	
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" Overshoot of Vout < 3 %
behavior of the output voltage when switching on	
response delay maximum	0.3 s
voltage increase time of the output voltage	20
• typical	20 ms
output current	40.4
• rated value	10 A
• rated range	0 12 A; 12 A up to +45°C; +60 +70 °C: Derating 3%/K
supplied active power typical	288 W
short-term overload current	
on short-circuiting during the start-up typical	32 A
at short-circuit during operation typical	32 A
duration of overloading capability for excess current	4.000
on short-circuiting during the start-up	1 000 ms
at short-circuit during operation	1 000 ms
product feature	· ·
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	25 W
current typical	20
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 at load step of resistive load 10/90/10 % typical	3 %
setting time	
 load step 10 to 90% typical 	1 ms
● load step 90 to 10% typical	1 ms
Protection and monitoring	
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 33 V
response value current limitation	12 14.6 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	14.6 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
display version for overload and short circuit	-
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	0.8 mA
protection class IP	IP20
Approvals	
certificate of suitability	
• CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
• • • • • • • • • • • • • • • • • • • •	(CSA C22.2 No. 60950-1, UL 60950-1)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)

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	EN 61000-3-2
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	70 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	0.8 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
fastening method electrical accessories	Snaps onto DIN rail EN 60715 35x7.5/15 Buffer module
electrical accessories	Buffer module
<u> </u>	
electrical accessories mechanical accessories	Buffer module Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20



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