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

nput		
type of the power supply network	1-phase AC	
supply voltage at AC	Automatic range selection	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	170 264 V	
wide range input	No	
overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
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	50/60 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)	
fuse protection type in the feeder	Recommended miniature circuit breaker: from 3 A characteristic C	
utput		
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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	22.8 28 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	
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"	
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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	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency		
efficiency in percent	85 %	
power loss [W]		
at rated output voltage for rated value of the output current typical	10 W	
current typical		
closed-loop control	0.2.0/	
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 of resistive load 10/90/10 % typical	5 %	
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	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
response value current limitation	3 3.4 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	3.4 A	
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	0.4 mA	
protection class IP	IP20	
EMC		
standard		
for emitted interference	EN 55022 Class B	
• for mains harmonics limitation	not applicable	
for interference immunity	EN 61000-6-2	
standards, specifications, 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)	
UKCA marking	Yes	
EAC approval	Yes	
NEC Class 2	No	
type of certification		

CB-certificate	Yes
MTBF at 40 °C	1 804 044 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
French marine classification society (BV)	Yes
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	321.3 kg
during manufacturing	8.3 kg
during operation	312.7 kg
after end of life	0.23 kg
ambient conditions	5.25 hg
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
• 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 mm²
mechanical data	
width × height × depth of the enclosure	32.5 × 125 × 120 mm
installation width × mounting height	32.5 mm × 225 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
DIN-rail mounting	Yes
S7 rail mounting	No
wall mounting	No
housing can be lined up	Yes
	0.32 kg
net weight	
net weight accessories	
accessories	Buffer module
accessories electrical accessories	Buffer module Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
accessories electrical accessories mechanical accessories	Buffer module Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
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accessories electrical accessories mechanical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20 https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/sitop

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval





Manufacturer Declaration

Declaration of Conformity





General Product Approval

Marine / Shipping

Environment

Miscellaneous







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11/25/2024

