SIEMENS

Data sheet 6EP1333-2BA20



SITOP PSU100S/1AC/24VDC/5A

SITOP PSU100S 24 V/5 A stabilized power supply input: 120/230 V AC output: 24 V DC/5 A

input		
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	2.34 A	
• at rated input voltage 230 V	1.36 A	
current limitation of inrush current at 25 °C maximum	40 A	
I2t value maximum	1 A²-s	
fuse protection type	T 3,15 A/250 V (not accessible)	
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 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	
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	140 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"	
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	0.00		
typical	15 ms		
output current			
rated value	5 A		
rated range	0 6 A; 6 A up to +45°C; +60 +70 °C: Derating 1.6%/K		
supplied active power typical	144 W		
short-term overload current			
on short-circuiting during the start-up typical	18 A		
at short-circuit during operation typical	18 A		
duration of overloading capability for excess current	000		
on short-circuiting during the start-up	800 ms		
at short-circuit during operation	800 ms		
bridging of equipment	Yes		
number of parallel-switched equipment resources for increasing the power	2		
efficiency			
efficiency in percent	88 %		
power loss [W]			
at rated output voltage for rated value of the output	16 W		
current typical			
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 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		
property of the output short-circuit proof	Yes		
design of short-circuit protection	Constant current characteristic		
response value current limitation	6 7.1 A		
overcurrent overload capability			
in normal operation	overload capability 150 % lout rated up to 5 s/min		
enduring short circuit current RMS value			
• typical	7.1 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	EN 61000-3-2		
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		
UKCA marking	Yes		
EAC approval			
EAC approval NEC Class 2	Yes		
EAC approval NEC Class 2 type of certification	Yes Yes		
EAC approval NEC Class 2	Yes Yes		

MTBF at 40 °C	1 998 441 h	
standards, specifications, approvals hazardous environments		
certificate of suitability		
• IECEx	No	
• ATEX	No	
ULhazloc approval	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 De	eclaration	
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	447.2 kg	
during manufacturing	12.9 kg	
during operation	433.8 kg	
after end of life	0.37 kg	
ambient conditions		
ambient temperature		
during operation	-25 +70 °C; with natural convection	
during epotation during transport	-40 +85 °C	
during storage	-40 +85 °C	
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation	
connection method	ominate states of to, o oo /s the contentation	
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 mm ²	
mechanical data		
width × height × depth of the enclosure	50 × 125 × 120 mm	
installation width × mounting height	50 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	
net weight	0.5 kg	
accessories		
electrical accessories	Buffer module	
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20	
further information internet links		
internet link		
to website: Industry Mall	https://mall.industry.siemens.com	
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	
• to web page: power supplies	https://siemens.com/sitop	
to website: CAx-Download-Manager	https://siemens.com/cax	
to website: Industry Online Support	https://support.industry.siemens.com	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless	
	otherwise specified)	

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	10	EC002540
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

Maritime application

Environment

Miscellaneous

Miscellaneous

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last modified:

11/1/2025