SIEMENS

Data sheet 6EP1336-2BA10



SITOP PSU100S/1AC/24VDC/20A

SITOP PSU100S 20 A stabilized power supply input: 120/230 V AC output: 24 V DC/20 A *Ex approval no longer available*

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	176 264 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 = 120/230 V	
line frequency	50/60 Hz	
line frequency initial value	47 63 Hz	
line frequency full-scale value		
input current		
at rated input voltage 120 V	7.5 A	
at rated input voltage 230 V	3.5 A	
current limitation of inrush current at 25 °C maximum	11 A	
I2t value maximum	10 A²-s	
fuse protection type	T 10 A (not accessible)	
fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C or circuit- breaker 3RV2411-1JA10 (120 V) or 3RV2411-1FA10 (230 V)	
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 initial value	24 V	
adjustable output voltage full-scale value	28 V; max. 480 W	
relative overall tolerance of the voltage	3 %	
relative control precision of the output voltage		
on slow fluctuation of input voltage	0.5 %	
on slow fluctuation of ohm loading	1 %	
residual ripple		
• maximum	150 mV	
voltage peak		
• maximum	240 mV	
display version for normal operation	Green LED for 24 V OK	
type of signal at output	Relay contact (NO contact, rating 50 V DC/ 0.3 A) for "24 V OK"	
behavior of the output voltage when switching on	No overshoot of Vout (soft start)	

response delay maximum	1.5 s		
voltage increase time of the output voltage			
• typical	50 ms		
maximum	500 ms		
output current			
rated value	20 A		
rated range	0 20 A; 24 A up to +45°C; +60 +70 °C: Derating 5%/K		
supplied active power typical	480 W		
short-term overload current			
 on short-circuiting during the start-up typical 	35 A		
 at short-circuit during operation typical 	35 A		
duration of overloading capability for excess current			
 on short-circuiting during the start-up 	100 ms		
at short-circuit during operation	100 ms		
bridging of equipment	Yes		
number of parallel-switched equipment resources for increasing	2		
the power			
efficiency in percent	90 %		
power loss [W]			
at rated output voltage for rated value of the output autropy typical.	53 W		
current typical			
closed-loop control			
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %		
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %		
setting time			
maximum	10 ms		
protection and monitoring	TO THE		
	Voc. according to EN 60050 1		
design of the overvoltage protection	Yes, according to EN 60950-1 Yes		
property of the output short-circuit proof	Electronic shutdown, automatic restart		
design of short-circuit protection	Electronic shutdown, automatic restart		
a reconcess value current limitation tunical	24 A		
response value current limitation typical	21 A		
overcurrent overload capability			
in normal operation and wing short circuit ourset DMC value.	overload capability 150 % lout rated up to 5 s/min		
enduring short circuit current RMS value			
• maximum	7 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	1 mA		
protection class IP	IP20		
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; 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)		
EAC approval	Yes		
NEC Class 2	No		
type of certification			
• BIS	Yes; R-41183539		
CB-certificate	Yes		

MTBF at 40 °C	1 778 916 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)	No	
Det Norske Veritas (DNV)	Yes	
Lloyds Register of Shipping (LRS)	No	
standards, specifications, approvals Environmental Product Dec		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]	165	
• total	1 707.2 kg	
during manufacturing	47.4 kg	
during manufacturing during operation	1 658.2 kg	
after end of life	0.72 kg	
ambient conditions	0.12 Ng	
ambient temperature	0. 70 °C with netwel convention	
during operation	0 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	
connection method		
type of electrical connection	screw-type terminals	
• at input	L1, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded	
• at output	+, -: 2 screw terminals each for 0.2 4 mm ²	
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²	
mechanical data		
width × height × depth of the enclosure	115 × 145 × 150 mm	
installation width × mounting height	120 × 245 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	
standard rail mounting	Yes	
 S7 rail mounting 	No	
wall mounting	No	
housing can be lined up	Yes	
net weight	2.4 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 web page: selection aid TIA Selection Tool 	https://siemens.com/tst	
 to website: Industrial communication 	http://www.siemens.com/simatic-net	
• to website: CAx-Download-Manager	http://www.siemens.com/cax	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless	
	otherwise specified)	
security information		
security information	Siemens provides products and solutions with industrial security functions that	
	support the secure operation of plants, systems, machines and networks. In	

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	Version	Classification
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

For use in hazardous locations

Marine / Shipping





IECEx





CCC-Ex



Environment



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