SIEMENS

Data sheet 6EP1333-3BA10



SITOP PSU200M/1-2AC/24VDC/5A

SITOP PSU200M 5 A stabilized power supply input: 120/230-500 V AC output: 24 V DC/5 A *Ex approval no longer available*

input			
type of the power supply network	1-phase and 2-phase AC		
supply voltage at AC	Set by means of selector switch on the device; starting from Vin > 90/180 V		
supply voltage 1 at AC	120 V - 230 V		
supply voltage 2 at AC	230 V - 500 V		
input voltage 1 at AC	85 264 V		
input voltage 2 at AC	176 550 V		
wide range input	Yes		
overvoltage overload capability	1300 Vpeak, 1.3 ms		
buffering time for rated value of the output current in the event of power failure minimum	25 ms		
operating condition of the mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 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	2.2 A		
at rated input voltage 230 V	1.2 A		
at rated input voltage 500 V	0.61 A		
current limitation of inrush current at 25 °C maximum	35 A		
I2t value maximum	1.7 A²-s T 3.15 A (not accessible)		
fuse protection type			
fuse protection type in the feeder	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 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	28.8 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 	0.1 %		
residual ripple			
• maximum	50 mV		

voltage peak	000 V	
• maximum	200 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 approx. 3 %	
response delay maximum	1s	
voltage increase time of the output voltage		
• typical	50 ms	
output current		
rated value	5 A	
rated range	0 5 A	
supplied active power typical	120 W	
short-term overload current		
at short-circuit during operation typical	15 A	
duration of overloading capability for excess current		
at short-circuit during operation	25 ms	
constant overload current		
on short-circuiting during the start-up typical	6 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency in percent	88 %	
power loss [W]		
at rated output voltage for rated value of the output	17 W	
current typical	444	
during no-load operation maximum	4 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %	
relative control precision of the output voltage load step of	3 %	
resistive load 50/100/50 % typical	3 /0	
setting time		
● load step 50 to 100% typical	2 ms	
• load step 100 to 50% typical	2 ms	
setting time		
maximum	5 ms	
protection and monitoring		
design of the overvoltage protection	< 35 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 5.5 A or latching shutdown	
dough of chart around protocolors	7 itematively, constant carrent ordinationate approx. 0.0 7 to rate imig critical imig	
response value current limitation typical	6 A	
enduring short circuit current RMS value		
	6 A	
typical display version for overload and short circuit		
. ,	LED yellow for "overload", LED red for "latching shutdown"	
safety	V.	
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	0.25 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	
CE markingUL approval	Yes 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	
EAC approval	(CSA C22.2 No. 60950-1, UL 60950-1) Yes	
Regulatory Compliance Mark (RCM)	Yes	
NEC Class 2	No	
• SEMI F47	Yes	
type of certification	100	
• BIS	Yes; R-41183539, R-41188271	
CB-certificate	Yes	
MTBF at 40 °C	1 123 973 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)	Yes	
French marine classification society (BV)	No	
Det Norske Veritas (DNV)	Yes	
 Lloyds Register of Shipping (LRS) 	No	
standards, specifications, approvals Environmental Product De	claration	
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]		
• total	541.7 kg	
during manufacturing	9.5 kg	
 during operation 	531.9 kg	
after end of life	0.14 kg	
ambient conditions		
ambient temperature		
	-25 +70 °C; With natural convection; startup tested starting from -40 °C	
ambient temperature • during operation	nominal voltage	
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• to web page: selection aid TIA Selection Tool

• to website: Industrial communication

• to website: CAx-Download-Manager

https://siemens.com/tst

http://www.siemens.com/simatic-net

http://www.siemens.com/cax

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	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







For use in hazardous locations

Marine / Shipping









CCC-Ex





Environment



last modified:

3/12/2024



