## SIEMENS

## Data sheet

## 6EP1333-3BA10-8AC0



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

SITOP PSU200M plus 5 A Stabilized power supply input: AC 120-230/230-500 V output: 24 V DC/5 A Option for with protective varnish

Fi	gu	res	imi	lar

Input		
type of the power supply network	1-phase and 2-phase AC	
supply voltage at AC		
• initial value	Set by means of selector switch on the device; starting from Vin > 90/180 V	
supply voltage		
• 1 at AC	120 230 V	
• 2 at AC	230 500 V	
input voltage		
• 1 at AC	85 264 V	
• 2 at AC	176 550 V	
design of input wide range input	Yes	
overvoltage overload capability	1300 Vpeak, 1.3 ms	
operating condition of the mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 V	
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		
<ul> <li>1 rated value</li> </ul>	50 Hz	
2 rated value	60 Hz	
line frequency	47 63 Hz	
input current		
<ul> <li>at rated input voltage 120 V</li> </ul>	2.2 A	
<ul> <li>at rated input voltage 230 V</li> </ul>	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 A <sup>2</sup> ·s	
fuse protection type	T 3.15 A (not accessible)	
• 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		
<ul> <li>at output 1 at DC rated value</li> </ul>	24 V	
relative overall tolerance of the voltage	3 %	
relative control precision of the output voltage		

• on clow fluctuation of input voltage	0.1 %
<ul> <li>on slow fluctuation of input voltage</li> <li>on slow fluctuation of ohm loading</li> </ul>	0.1 %
residual ripple	0.1 /0
maximum	50 mV
voltage peak	
• maximum	200 mV
adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
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	
<ul> <li>at short-circuit during operation typical</li> </ul>	15 A
duration of overloading capability for excess current	
<ul> <li>at short-circuit during operation</li> </ul>	25 ms
constant overload current	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	6 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	88 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	17 W
<ul> <li>during no-load operation maximum</li> </ul>	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 resistive load 50/100/50 % typical	3 %
setting time	
<ul> <li>load step 50 to 100% typical</li> </ul>	2 ms
<ul> <li>load step 100 to 50% typical</li> </ul>	2 ms
setting time	
• maximum	5 ms
Protection and monitoring	
design of the overvoltage protection	< 35 V
response value current limitation typical	6 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 5.5 A or latching shutdown
enduring short circuit current RMS value	
typical	6 A
display version for overload and short circuit Safety	LED yellow for "overload", LED red for "latching shutdown"
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
·/F·	

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	
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
• 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	No	
certificate of suitability		
EAC approval	Yes	
certificate of suitability shipbuilding approval	Yes	
shipbuilding approval	ABS, DNV GL	
Marine classification association		
American Bureau of Shipping Europe Ltd. (ABS)	Yes	
<ul> <li>American bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> </ul>	No	
Prench manne classification society (BV)     DNV GI	Yes	
Lloyds Register of Shipping (LRS)	No	
Nippon Kaiji Kyokai (NK)	No	
EMC		
standard		
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B	
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2	
for interference immunity	EN 61000-6-2	
environmental conditions		
ambient temperature		
<ul> <li>during operation</li> </ul>	-25 +70 °C; with natural convection	
<ul> <li>during transport</li> </ul>	-40 +85 °C	
<ul> <li>during storage</li> </ul>	-40 +85 °C	
environmental category acc. 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 0.2 2.5 mm <sup>2</sup> single-core/finely stranded	
• at output	+, -: 2 screw terminals each for 0.2 2.5 mm <sup>2</sup>	
<ul> <li>for auxiliary contacts</li> </ul>	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>	
width of the enclosure	70 mm	
height of the enclosure	125 mm	
depth of the enclosure	121 mm	
required spacing		
• top	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
net weight	0.6 kg	
product feature of the enclosure housing can be lined up	Yes	
fastening method		
electrical accessories	Snaps onto DIN rail EN 60715 35x7.5/15 Buffer module	
MTBF at 40 °C	1 123 973 h	
other information	Specifications at rated input voltage and ambient temperature +25 °C	
	(unless otherwise specified)	

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