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

Input		
Input	1-phase and 2-phase AC	
Note	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	
Wide-range input	Yes	
Overvoltage resistance	1300 Vpeak, 1.3 ms	
Mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 V	
Mains buffering at lout rated, min.	25 ms; at Vin = 120/230 V, typ. 150 ms at Vin = 400 V	
Rated line frequency 1	50 Hz	
Rated line frequency 2	60 Hz	
Rated line range	47 63 Hz	
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	
Switch-on current limiting (+25 °C), max.	35 A	
I²t, max.	1.7 A ² ·s	
Built-in incoming fuse	T 3.15 A (not accessible)	
Protection in the mains power input (IEC 898)	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		
Output	Controlled, isolated DC voltage	
Rated voltage Vout DC	24 V	
Total tolerance, static ±	3 %	
Static mains compensation, approx.	0.1 %	
Static load balancing, approx.	0.1 %	
Residual ripple peak-peak, max.	50 mV	

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Spikes peak-peak, max. (bandwidth: 20 MHz)	
Adjustment range	_ 24 28.8 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
On/off behavior	Overshoot of Vout approx. 3 %
Startup delay, max.	1 s
Voltage rise, typ.	50 ms
Rated current value lout rated	_ 5 A
Current 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
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx.	88 %
Power loss at Vout rated, lout rated, approx.	17 W
power loss [W] during no-load operation maximum	4 W
Closed-loop control	,
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	3 %
Load step setting time 50 to 100%, typ.	2 ms
Load step setting time 100 to 50%, typ.	2 ms
setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	< 35 V
Current limitation, typ.	6 A
property of the output short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 5.5 A or latching shutdown
enduring short circuit current RMS value	
• typical	6 A
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
leakage current	
maximum	3.5 mA
• typical	0.25 mA
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259, cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	IECEX EX NA NC IIC T4 Gc; ATEX (EX) II 3G EX NA NC IIC T4 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T3
certificate of suitability NEC Class 2	No No
FM approval	
CB approval	Yes
certificate of suitability EAC approval	Yes
octanoate of sultability LAO approval	100

EMC		
Emitted interference	EN 55022 Class B	
Supply harmonics limitation	EN 61000-3-2	
Noise immunity	EN 61000-6-2	
environmental conditions		
ambient temperature		
 during operation 	-25 +70 °C	
— Note	With natural convection; startup tested starting from -40 °C nominal voltage	
 during transport 	-40 +85 °C	
during storage	-40 +85 °C	
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation	
Mechanics		
Connection technology	screw-type terminals	
Connections		
Supply input	L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded	
 Output 	+, -: 2 screw terminals each for 0.2 2.5 mm ²	
Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²	
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	
Weight, approx.	0.6 kg	
product feature of the enclosure housing can be lined up	Yes	
Installation	Snaps onto DIN rail EN 60715 35x7.5/15	
electrical accessories	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)	

ABS, DNV GL



Marine approval