## SIEMENS

## Data sheet

## 6EP1334-3BA10



SITOP PSU200M 10 A Stabilized power supply input: 120/230-500 V AC output: DC 24 V/10 A

Input Input 1-phase and 2-phase AC Set by means of selector switch on the device Note 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 50 Hz Rated line frequency 1 Rated line frequency 2 60 Hz 47 ... 63 Hz Rated line range input current • at rated input voltage 120 V 4.4 A • at rated input voltage 230 V 2.4 A • at rated input voltage 500 V 1.1 A Switch-on current limiting (+25 °C), max. 35 A l<sup>2</sup>t, max. 4 A<sup>2</sup>·s T 6.3 A (not accessible) Built-in incoming fuse 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

SITOP PSU200M/1-2AC/24VDC/10A

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
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV

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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	10 A
Current range	0 10 A
Note	+60 +70 °C: Derating 2%/K (at 120 V, 230 V) or 3.5%/K (at 400 V)
supplied active power typical	240 W
short-term overload current	
<ul> <li>at short-circuit during operation typical</li> </ul>	30 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>	12 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	91 %
Power loss at Vout rated, lout rated, approx.	24 W
power loss [W] during no-load operation maximum	6 W
Closed-loop control	
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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.	12 A
property of the output short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 12 A or latching shutdown
enduring short circuit current RMS value	
typical	12 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	0.32 mA
Degree of protection (EN 60529)	IP20
Approvals	
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CE mark UL/cUL (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)
Explosion protection	
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	_ Yes
certificate of suitability EAC approval	Yes
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Marine approval	ABS, DNV GL
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 mm <sup>2</sup> single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.2 2.5 mm <sup>2</sup>
Auxiliary	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
Weight, approx.	0.8 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	1 055 408 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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