SIEMENS

Data sheet

6EP1333-3BA10



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 Set by means of selector switch on the device; starting from Vin > Note 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 60 Hz Rated line frequency 2 47 ... 63 Hz Rated line range 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 l²t, max. 1.7 A²·s Built-in incoming fuse T 3.15 A (not accessible) Recommended miniature circuit breaker at 1-phase operation: from 6 A Protection in the mains power input (IEC 898) (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 Controlled isolated DC valt

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

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

Snikes neak-neak may (handwidth: 20 MHz)	200 mV
Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range	200 mV 24 28.8 V
product function output voltage adjustable	_ 24 28.6 V Yes
Output voltage setting	via potentiometer
	Green LED for 24 V OK
Status display	
Signaling On/off behavior	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" Overshoot of Vout approx. 3 %
Startup delay, max.	
	50 ms
Voltage rise, typ. Rated current value lout rated	5 A
	05A
Current range	
supplied active power typical	120 W
short-term overload current	15 A
at short-circuit during operation typical	- 15 A
duration of overloading capability for excess current	05 mg
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 performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	88 %
Power loss at Vout rated, lout rated, approx.	88 % 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	
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
CB approval 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 ² 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)

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