SIEMENS

Data sheet 6EP1333-3BA10



SITOP PSU200M 5 A STABILIZED POWER SUPPLY INPUT: 120/230-500 V AC OUTPUT: 24 V/5 A DC

Technical specifications	
Product	SITOP PSU200M
Power supply, type	24 V/5 A
Input	
Input	1-phase and 2-phase AC
Supply voltage 1 with AC	120 230 V
Supply voltage 2 with AC	230 500 V
• Note	Set by means of selector switch on the device; starting from Vin > 90/180 V
Input voltage 1 with AC	85 264 V
Input voltage 2 with AC	176 550 V
Wide-range input	Yes
Overvoltage resistance	1300 Vpeak, 1.3 ms
Mains buffering at lout rated, min.	25 ms; at Vin = 120/230 V, typ. 150 ms at Vin = 400 V
Rated line frequency	50 60 Hz
Rated line range	47 63 Hz
Input current at rated input voltage 120 V Rated value	2.2 A
Input current at rated input voltage 230 V Rated value	1.2 A
Input current at rated input voltage 500 V Rated value	0.61 A
Switch-on current limiting (+25 °C), max.	35 A
l²t, max.	1.7 A ² ·s

Built-in incoming fuse

T 3.15 A (not accessible)

D						/	0001
Protection	in th	ו בר	maine	nowar	inniit	(1⊢(`	XUXI
1 1016611011	III U	10 1	manıs	DOWE	HIDUL	\cup	0301

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

	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
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
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
Active power supplied typical	120 W
Constant overload current on short-circuiting during the start-up typical	6 A
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
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.	17 W
Active power loss 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
Leakage current typical	0.25 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	ATEX (EX) II 3G Ex nA nC IIC T3 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T3
Certificate of suitability IECEx	No
Certificate of suitability NEC Class 2	No
CB approval	Yes
Marine approval	GL, ABS
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature during operation	-25 +70 °C
• Note	with natural convection
Ambient temperature during transport	-40 +85 °C
Ambient temperature during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 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
Connections Output	+, -: 2 screw terminals each for 0.2 2.5 mm²

Connections 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
Weight, approx.	0.6 kg
Product property of the enclosure housing for side-	Yes
by-side mounting	
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)