SIEMENS

Data sheet 6EP1337-3BA00

SITOP PSU100M/1AC/24VDC/40A



SITOP PSU100M 40 A Stabilized power supply Input: 120/230 V AC Output: 24 V DC/40 A IIIIPhased-out productIIII Successor: 6EP3337-8SB00-

0AY0

0.710	
Input	
Input	1-phase AC
Note	Set by means of wire jumper on the device; starting from Vin > 95/190 V
supply voltage	
 1 at AC rated value 	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	176 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering	at Vin = 230 V
Mains buffering at lout rated, min.	20 ms; at Vin = 230 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 	15 A
 at rated input voltage 230 V 	8 A
Switch-on current limiting (+25 °C), max.	125 A
I²t, max.	26 A²-s
Built-in incoming fuse	Yes
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker at 1-phase operation: 20 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 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.	100 mV

Pasidual rinnla neak neak tun	60 mV
Residual ripple peak-peak, typ.	60 mV
Spikes peak peak, max. (bandwidth: 20 MHz)	200 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	120 mV 24 28.8 V
Adjustment range	Yes
product function output voltage adjustable	via potentiometer
Output voltage setting	·
Status display	Green LED for 24 V OK
Signaling On/off behavior	via signaling module (6EP1961-3BA10)
On/off behavior Startup delay, max.	Overshoot of Vout approx. 3 % 0.1 s
	0.1 s 50 ms
Voltage rise, typ. Rated current value lout rated	
	40 A 0 40 A
Current range • Note	0 40 A +60 +70 °C: Derating 2.5%/K
	960 W
supplied active power typical short-term overload current	900 vv
	120 A
at short-circuit during operation typical duration of overloading capability for excess current	120 A
duration of overloading capability for excess current	25 ms
at short-circuit during operation constant overload current	20 1110
	46.0
on short-circuiting during the start-up typical Parallal switching for appared performance	46 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.	131 W
Closed-loop control	101 11
	1.0/
Dynamic mains compensation (Vin rated ±15 %), max.	1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	2 %
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	. AT V
Output overvoltage protection	< 35 V
Current limitation, typ.	46 A
property of the output short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 46 A or latching shutdown
enduring short circuit current RMS value	Silutiowii
typical	46 A
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
	LED yellow for overload, LED red for fatoring strutuowit
Safety	V
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	0.5 4
• maximum	3.5 mA
• typical	0.4 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
Explosion protection	IECEX EX nA IIC T3 Gc; ATEX (EX) II 3G EX nA IIC T3 Gc; cCSAus
	(CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD,
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certificate of suitability NEC Class 2	T3
certificate of suitability NEC Class 2	No
certificate of suitability NEC Class 2 FM approval CB approval	

EMC		
Emitted interference	EN 55022 Class B	
Supply harmonics limitation	*	
Noise immunity	EN 61000-6-2	
environmental conditions		
ambient temperature		
 during operation 	0 70 °C	
— Note	with natural convection	
 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 4 mm² single-core/finely stranded	
Output	+, -: 2 screw terminals each for 0.5 10 mm²	
Auxiliary		
width of the enclosure	240 mm	
height of the enclosure	125 mm	
depth of the enclosure	125 mm	
required spacing		
• top	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
Weight, approx.	2.9 kg	
product feature of the enclosure housing can be lined up	Yes	
Installation	Snaps onto DIN rail EN 60715 35x15	
electrical accessories	Buffer module, signaling module	
MTBF at 40 °C	540 249 h	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	



Marine approval