SIEMENS

Data sheet

6AG1337-3BA00-7AA0

SIPLUS PS PSU100M SIPLUS PS MODULAR 40A -40 ... +70 DEGREE C WITH CONFORMAL COATING BASED ON 6EP1337-3BA00 . STABILIZED POWER SUPPLY INPUT: AC 120/230 V OUTPUT: DC 24 V/40 A



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Input			
Input	1-phase AC		
Supply voltage			
• 1 at AC Rated value	120 V		
• 2 at AC Rated value	230 V		
• Note	Set by means of wire jumper on the device; starting from Vin > 95/190 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 lout rated, min.	20 ms; at Vin = 230 V		
Rated line frequency	50 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 A ² ·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
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
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	via signaling module (6EP1961-3BA10)
On/off behavior	Overshoot of Vout approx. 3 %
Startup delay, max.	0.1 s
Voltage rise, typ.	50 ms
Rated current value lout rated	40 A
Current range	0 40 A
• Note	+60 +70 °C: Derating 2.5%/K
Supplied active power typical	960 W
Short-term overload current	
 at short-circuit during operation typical 	120 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	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 %

Efficiency	
Efficiency at Vout rated, lout rated, approx.	88 %
Power loss at Vout rated, lout rated, approx.	131 W

Closed-loop control		
Dynamic mains compensation (Vin rated ±15 %),	1 %	
max.		

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			
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			
• typical	46 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	0.4 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	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, T3		
Certificate of suitability IECEx	Yes		
Certificate of suitability NEC Class 2	No		
FM approval	-		
CB approval	No		
Marine approval	-		
Degree of protection (EN 60529)	IP20		
EMC			
Emitted interference	EN 55022 Class B		
Supply harmonics limitation	-		
Noise immunity	EN 61000-6-2		
Operating data			
Ambient temperature	0 70 °C		
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 3K8H		
Relative humidity with condensation maximum	100 %; Relative humidity, incl. condensation/frost permitted (no commissioning under condensation conditions)		
Resistance to biologically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3B2 mold and fungal spores (except fauna); the supplied plug covers must remain in place on the unused interfaces during operation.		
Resistance to chemically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3C4 incl. salt spray in accordance with EN 60068-2-52 (severity 3); the supplied plug covers must remain in place on the unused interfaces during operation.		
Resistance to mechanically active substances conformity acc. to EN 60721-3-3	Yes; Conformity with EN 60721-3-3, Class 3S4 incl. Sand, dust. The supplied connector covers must remain on the unused interfaces during operation!		

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 mm ²		
Width of the enclosure	240 mm		
Height of the enclosure	125 mm		
Depth of the enclosure	125 mm		
Weight, approx.	2.9 kg		
Product feature of the enclosure housing for side-by- side mounting	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)		