SIEMENS

Data sheet

6AG1334-3BA10-7AA0



SIPLUS PS PSU200M 10A

SIPLUS PS PSU200M 10 A based on 6EP1334-3BA10 with conformal coating, -25...+70 °C, stabilized power supply input: 120/230-500 V AC output: 24 V/10 A DC

Figure similar

Input	
type of the power supply network	1-phase and 2-phase AC
supply voltage at AC	
initial value	Set by means of selector switch on the device
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
design of input wide range input	Yes
overvoltage overload capability	1300 Vpeak, 1.3 ms
operating condition of the mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 V
buffering time for rated value of the output current in the event of power failure minimum	25 ms
operating condition of the mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
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
current limitation of inrush current at 25 °C maximum	35 A
I2t value maximum	4 A²-s
fuse protection type	T 6.3 A (not accessible)
• in the feeder	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
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
on slow fluctuation of ohm loading	0.1 %

residual ripple	
• maximum	50 mV
voltage peak	
• maximum	200 mV
adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	1 s
voltage increase time of the output voltage	
• typical	50 ms
output current	
rated value	10 A
rated range	0 10 A; +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	
at short-circuit during operation typical	30 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	12 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing	2
the power	
Efficiency	
efficiency in percent	91 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	24 W
during no-load operation maximum	6 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	3.1 70
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
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setting time	
■ load step 50 to 100% typical	2 ms
load step 50 to 100% typical load step 100 to 50% typical	2 ms
• load step 100 to 50% typical	2 ms 2 ms
load step 100 to 50% typical setting time	2 ms
load step 100 to 50% typical setting time maximum	
load step 100 to 50% typical setting time maximum Protection and monitoring	2 ms 5 ms
load step 100 to 50% typical setting time maximum Protection and monitoring design of the overvoltage protection	2 ms 5 ms < 35 V
load step 100 to 50% typical setting time maximum Protection and monitoring design of the overvoltage protection typical	2 ms 5 ms <35 V 12 A
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load step 100 to 50% typical setting time	2 ms 5 ms 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown 12 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
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мс	
standard	
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-6-2
nvironmental conditions	
ambient temperature	
• in horizontal mounting position during operation	-25 +70 °C; with natural convection
 during storage and transport 	-40 +85 °C
installation altitude at height above sea level maximum	6 000 m
ambient condition relating to ambient temperature - air pressure - installation altitude	In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m
relative humidity with condensation according to IEC 60068-2- 38 maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation
chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air
resistance to biologically active substances conformity according to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request
resistance to chemically active substances conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
resistance to mechanically active substances conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust
resistance to biologically active substances conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)
resistance to chemically active substances conformity according to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
resistance to mechanically active substances conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust
coating for equipped printed circuit board according to EN 61086	Yes; Class 2 for high availability
type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection
type of test of the coating according to MIL-I-46058C	Yes; Discoloration of the coating during service life possible
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal Coating, Class A
echanics	
type of electrical connection	screw-type terminals
• at input	L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.2 2.5 mm ²
for auxiliary contacts	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
net weight	0.8 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	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

