## **SIEMENS**

## **Data sheet**

## 6AG1334-3BA10-7AA0



SIPLUS PS PSU200M 10A

SIPLUS PS PSU200M 10 A based on 6EP1334-3BA10 with conformal coating, -25...+70  $^{\circ}\text{C}$  , 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  |   |
| <ul> <li>at rated input voltage 120 V</li> </ul>   | 4.4 A   |
| at rated input voltage 230 V   | 2.4 A   |
| <ul> <li>at rated input voltage 500 V</li> </ul>   | 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   |   |
| <ul> <li>at output 1 at DC rated value</li> </ul>  | 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   | 1s   |
| 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  | 307.   |
|  | 25 ms  |
| at short-circuit during operation     constant overload current  | 20 1110  |
|  | 12 A   |
| on short-circuiting during the start-up typical  | 14 /   |
| product feature  | Vana aviitala ala ara da siadia  |
| bridging of equipment  | Yes; switchable characteristic   |
| number of parallel-switched equipment resources for increasing the power   | 2  |
| Efficiency   |  |
| efficiency in percent  | 91 %   |
| power loss [W]   |  |
| at rated output voltage for rated value of the output  | 24 W   |
| current typical  | 24 VV  |
| 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  |  |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical   | 3 %  |
| setting time   |  |
| <ul> <li>load step 50 to 100% typical</li> </ul>   | 2 ms   |
| load step 100 to 50% typical   | 2 ms   |
| setting time   |  |
| setting time   |  |
| • maximum  | 5 ms   |
| -  | 5 ms   |
| • maximum  | 5 ms < 35 V  |
| maximum  Protection and monitoring   |  |
| maximum  Protection and monitoring  design of the overvoltage protection   | < 35 V   |
| maximum  Protection and monitoring  design of the overvoltage protection     typical   | < 35 V<br>12 A   |
| maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof design of short-circuit protection  | < 35 V<br>12 A<br>Yes  |
| maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value  | < 35 V<br>12 A<br>Yes  |
| maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value     typical   | < 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown 12 A  |
| maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value     typical display version for overload and short circuit  | < 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown   |
| maximum  Protection and monitoring  design of the overvoltage protection         • typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value         • typical  display version for overload and short circuit  Safety  | < 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown 12 A  |
| maximum  Protection and monitoring  design of the overvoltage protection         • typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value         • typical  display version for overload and short circuit  Safety galvanic isolation between input and output  | < 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"   |
| maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value     typical  display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation  | < 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                       |
| maximum  Protection and monitoring  design of the overvoltage protection     typical  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value     typical  display version for overload and short circuit  Safety  galvanic isolation between input and output  galvanic resource protection class  | < 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"   |
| maximum  Protection and monitoring  design of the overvoltage protection         • typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value         • typical  display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation operating resource protection class leakage current  | < 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               |
| maximum  Protection and monitoring  design of the overvoltage protection         • typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value         • typical  display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current         • maximum   | < 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         |
| maximum  Protection and monitoring  design of the overvoltage protection         • typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value         • typical  display version for overload and short circuit  Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current         • maximum         • typical                                 | < 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 0.32 mA |
| maximum  Protection and monitoring  design of the overvoltage protection         • typical  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value         • typical  display version for overload and short circuit  Safety  galvanic isolation between input and output galvanic isolation operating resource protection class  leakage current         • maximum         • typical  protection class IP          | < 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  |
| <ul> <li>during storage and transport</li> </ul>  | -40 +85 °C   |
| installation altitude at height above sea level maximum   | 6 000 m  |
| ambient condition relating to ambient temperature - air pressure<br>- 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-<br>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<br>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 <sup>2</sup>   |
| for auxiliary contacts  | 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>  |
| 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   |

