SIEMENS

## Data sheet 6AG1437-3BA10-7AA0




Figure similar

SIPLUS PS PSU8200

***spare part*** SIPLUS PS PSU8200 3-phase DC 24V 40A based on 6EP1437-3BA10 with conformal coating, -25…+70 °C, stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A

| | |
|---|---|
| **General information** | |
| manufacturer's article number of the basic version used for SIPLUS product versions | 6EP1437-3BA10 |
| **input** | |
| type of the power supply network | 3-phase AC |
| supply voltage at AC | |
| ● minimum rated value | 400 V |
| ● maximum rated value | 500 V |
| ● initial value | 320 V |
| ● full-scale value | 575 V |
| wide range input | Yes |
| buffering time for rated value of the output current in the event of power failure minimum | 15 ms |
| operating condition of the mains buffering | at Vin = 400 V |
| line frequency | 50/60 Hz |
| line frequency | 47 ... 63 Hz |
| input current | |
| ● at rated input voltage 400 V | 2.6 A |
| ● at rated input voltage 500 V | 2.1 A |
| current limitation of inrush current at 25 °C maximum | 56 A |
| I2t value maximum | 2.24 A²·s |
| fuse protection type | none |
| fuse protection type in the feeder | Required: 3-pole connected miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) |
| **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 |
| output voltage adjustable | Yes; via potentiometer |
| adjustable output voltage | 24 ... 28.8 V; max. 960 W |
| 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 | 0.2 % |
| residual ripple | |
| ● maximum | 100 mV |
| voltage peak | |
| ● maximum | 200 mV |


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|---|---|
| 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" |
| voltage increase time of the output voltage | |
| ● maximum | 500 ms |
| output current | |
| ● rated value | 40 A |
| ● rated range | 0 ... 40 A; +60 ... +70 °C: Derating 3.75%/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 | 44 A |
| bridging of equipment | Yes; switchable characteristic |
| number of parallel-switched equipment resources for increasing the power | 2 |
| **efficiency** | |
| efficiency in percent | 92 % |
| power loss [W] | |
| ● at rated output voltage for rated value of the output current typical | 83 W |
| **closed-loop control** | |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 1 % |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical | 3 % |
| setting time | |
| ● maximum | 10 ms |
| **protection and monitoring** | |
| design of the overvoltage protection | < 35 V |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Alternatively, constant current characteristic approx. 44 A or latching shutdown |
| ● typical | 44 A |
| overcurrent overload capability | |
| ● in normal operation | overload capability 150 % Iout rated up to 5 s/min |
| enduring short circuit current RMS value | |
| ● typical | 44 A |
| display version for overload and short circuit | LED yellow for "overload", LED red for "latching shutdown" |
| **safety** | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7) |
| operating resource protection class | Class I |
| leakage current | |
| ● maximum | 3.5 mA |
| protection class IP | IP20 |
| **EMC** | |
| standard | |
| ● for emitted interference | EN 55022 Class B |
| ● for mains harmonics limitation | EN 61000-3-2 |
| ● for interference immunity | EN 61000-6-2 |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● CE marking | Yes |
| MTBF at 40 °C | 885 739 h |
| **ambient conditions** | |
| ambient temperature | |
| ● in horizontal mounting position during operation | -25 ... +70 °C; with natural convection |
| ● during transport | -40 ... +85 °C |


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| ● during storage | -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 |
| **connection method** | |
| type of electrical connection | screw terminal |
| ● at input | L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm² single-core/finely stranded |
| ● at output | +, -: 2 screw terminals each for 0.33 ... 10 mm² |
| ● for auxiliary contacts | 13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm² |
| **mechanical data** | |
| width × height × depth of the enclosure | 150 × 125 × 150 mm |
| installation width × mounting height | 150 mm × 225 mm |
| required spacing | |
| ● top | 50 mm |
| ● bottom | 50 mm |
| ● left | 0 mm |
| ● right | 0 mm |
| fastening method | Snaps onto DIN rail EN 60715 35x15 |
| ● DIN-rail mounting | Yes |
| ● S7 rail mounting | No |
| ● wall mounting | No |
| housing can be lined up | Yes |
| net weight | 3.4 kg |
| **accessories** | |
| electrical accessories | Buffer module |
| mechanical accessories | Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20 |
| **further information internet links** | |
| internet link | |
| ● to website: Industry Online Support | https://www.plcbin.com/?s=6AG1437-3BA10-7AA0 |
| **additional information** | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and |


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## Classifications

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-04-07-01 |
| eClass | 14 | 27-04-07-01 |
| eClass | 12 | 27-04-07-01 |
| eClass | 9.1 | 27-04-07-01 |
| eClass | 9 | 27-04-07-01 |
| eClass | 8 | 27-04-90-02 |
| eClass | 7.1 | 27-04-90-02 |
| eClass | 6 | 27-04-90-02 |
| ETIM | 10 | EC002540 |
| ETIM | 9 | EC002540 |
| ETIM | 8 | EC002540 |
| ETIM | 7 | EC002540 |
| IDEA | 4 | 4130 |
| UNSPSC | 15 | 39-12-10-04 |

## Approvals Certificates

### General Product Approval

Manufacturer Declaration

China RoHS

### EMV

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