SIEMENS

## Data sheet 6AG1961-2BA31-7AA0




SIPLUS PS PSE200U 3A

SIPLUS PS PSE200U 3 A based on 6EP1961-2BA31 with conformal coating, -25…+70 °C, selectivity module 4-channel input: 24 V DC output: 24 V DC/3 A per channel output current adjustable 0.5-3 with status message per channel

| | |
|---|---|
| **input** | |
| type of the power supply network | Controlled DC voltage |
| supply voltage at DC rated value | 24 V |
| input voltage at DC | 22 ... 30 V |
| overvoltage overload capability | 35 V |
| input current at rated input voltage 24 V rated value | 12 A |
| **output** | |
| voltage curve at output | controlled DC voltage |
| formula for output voltage | Vin - approx. 0.2 V |
| relative overall tolerance of the voltage note | In accordance with the supplying input voltage |
| number of outputs | 4 |
| output current up to 60 °C per output rated value | 3 A |
| adjustable current response value current of the current-dependent overload release | 0.5 ... 3 A |
| type of response value setting | via potentiometer |
| response delay maximum | 5 s |
| product feature parallel switching of outputs | No |
| type of outputs connection | Simultaneous connection of all outputs after power up of the supply voltage > 20 V, delay time of 25 ms, 100 ms or adjustable "load optimised" via DIP switch for sequential connection |
| **efficiency** | |
| efficiency in percent | 97 % |
| power loss [W] at rated output voltage for rated value of the output current typical | 9 W |
| **switch-off characteristic** | |
| switching characteristic | |
| ● of the excess current | Iout = 1.0 ...1.5 x set value, switch-off after approx. 5 s |
| ● of the current limitation | Iout = 1.5 x set value, switch-off after typ. 100 ms |
| ● of the immediate switch-off | Iout > set value and Vin < 20 V, switch-off after approx. 0.5 ms |
| residual current at switch-off typical | 1 mA |
| design of the reset device/resetting mechanism | via sensor per output |
| remote reset function | Non-electrically isolated 24 V input (signal level "high" at > 15 V) |
| **protection and monitoring** | |
| fuse protection type at input | 5 A per output (not accessible) |
| display version for normal operation | Three-color LED per output: green LED for "Output switched through"; yellow LED for "Output switched off manually"; red LED for "Output switched off due to overcurrent" |
| design of the switching contact for signaling function | Status signal output (pulse/pause signal, can be evaluated via Simatic function block) |
| **safety** | |
| galvanic isolation between input and output at switch-off | No |
| standard for safety | according to EN 62368-1 |


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|---|---|
| operating resource protection class | Class III |
| protection class IP | IP20 |
| standard | |
| ● for emitted interference | EN 55022 Class B |
| ● for interference immunity | EN 61000-6-2 |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● CE marking | Yes |
| ● UKCA marking | Yes |
| ● Regulatory Compliance Mark (RCM) | Yes |
| **ambient conditions** | |
| ambient temperature | |
| ● in horizontal mounting position during operation | -25 ... +70 °C; with natural convection |
| ● during transport | -40 ... +85 |
| ● during storage | -40 ... +85 |
| 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 | +24 V: 2 screw terminals for 0.5 ... 16 mm²; 0 V: 2 screw terminals for 0.5 ... 4 mm² |
| ● at output | Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm² |
| ● for auxiliary contacts | Remote reset: 1 screw terminal for 0.5 ... 4 mm² |
| ● for signaling contact | 1 screw terminal for 0.5 ... 4 mm² |
| **mechanical data** | |
| width × height × depth of the enclosure | 72 × 80 × 72 mm |
| installation width × mounting height | 72 mm × 180 mm |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15 |
| ● DIN-rail mounting | Yes |
| ● S7 rail mounting | No |
| ● wall mounting | No |
| housing can be lined up | Yes |
| net weight | 0.2 kg |
| **accessories** | |
| mechanical accessories | Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 |
| **further information internet links** | |
| internet link | |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to website: Industry Online Support | https://support.industry.siemens.com |


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| additional information | |
|---|---|
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

| security information | |
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| 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 networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 14 | 27-04-07-92 |
| eClass | 12 | 27-04-07-92 |
| eClass | 9.1 | 27-04-92-90 |
| eClass | 9 | 27-04-92-90 |
| eClass | 8 | 27-04-92-90 |
| eClass | 7.1 | 27-04-90-02 |
| eClass | 6 | 27-04-90-02 |
| ETIM | 9 | EC002584 |
| ETIM | 8 | EC002584 |
| ETIM | 7 | EC002584 |
| IDEA | 4 | 4127 |
| UNSPSC | 15 | 39-12-10-04 |

**Approvals Certificates**

**General Product Approval**

Miscellaneous

CE EG-Konf.

Manufacturer Declaration

UKCA

UL

**EMV**

RCM

**For use in hazardous locations**

UL

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