



SIPLUS LOGO! POWER 24V 4A

SIPLUS LOGO! power 24 V 4 A based on 6EP3333-6SB00-0AY0 with conformal coating, -40...+70 °C, start up -25 °C, stabilized power supply input: 100-240 V AC output: 24 V DC / 4 A

| General information                                                                        |                                                                                                     |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Technical Product Detail Page                                                              | <a href="https://l.siemens.com/1P6AG1333-6SB00-7AY0">https://l.siemens.com/1P6AG1333-6SB00-7AY0</a> |
| manufacturer's article number of the basic version used for SIPLUS product versions        | <a href="#">6EP3333-6SB00-0AY0</a>                                                                  |
| input                                                                                      |                                                                                                     |
| type of the power supply network                                                           | 1-phase AC or DC                                                                                    |
| supply voltage at AC                                                                       |                                                                                                     |
| • minimum rated value                                                                      | 100 V                                                                                               |
| • maximum rated value                                                                      | 240 V                                                                                               |
| • initial value                                                                            | 85 V                                                                                                |
| • full-scale value                                                                         | 264 V                                                                                               |
| input voltage at DC                                                                        | 110 ... 300 V                                                                                       |
| wide range input                                                                           | Yes                                                                                                 |
| buffering time for rated value of the output current in the event of power failure minimum | 40 ms                                                                                               |
| operating condition of the mains buffering                                                 | at $V_{in} = 187 \text{ V}$                                                                         |
| line frequency                                                                             | 50/60 Hz                                                                                            |
| line frequency                                                                             | 47 ... 63 Hz                                                                                        |
| input current                                                                              |                                                                                                     |
| • at rated input voltage 120 V                                                             | 1.95 A                                                                                              |
| • at rated input voltage 230 V                                                             | 0.97 A                                                                                              |
| current limitation of inrush current at 25 °C maximum                                      | 31 A                                                                                                |
| I <sup>2</sup> t value maximum                                                             | 2.5 A <sup>2</sup> ·s                                                                               |
| fuse protection type                                                                       | internal                                                                                            |
| fuse protection type in the feeder                                                         | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C      |
| 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                                                                  | 22.2 ... 26.4 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                                                                                  | 200 mV                                                                                              |

|                                                                                                                 |                                                               |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| • typical                                                                                                       | 30 mV                                                         |
| voltage peak                                                                                                    |                                                               |
| • maximum                                                                                                       | 300 mV                                                        |
| • typical                                                                                                       | 50 mV                                                         |
| display version for normal operation                                                                            | Green LED for output voltage OK                               |
| behavior of the output voltage when switching on                                                                | No overshoot of Vout (soft start)                             |
| response delay maximum                                                                                          | 0.5 s                                                         |
| voltage increase time of the output voltage                                                                     |                                                               |
| • typical                                                                                                       | 100 ms                                                        |
| output current                                                                                                  |                                                               |
| • rated value                                                                                                   | 4 A                                                           |
| • rated range                                                                                                   | 0 ... 4 A; +55 ... +70 °C: Derating 2%/K                      |
| supplied active power typical                                                                                   | 96 W                                                          |
| bridging of equipment                                                                                           | Yes                                                           |
| number of parallel-switched equipment resources for increasing the power                                        | 2                                                             |
| <b>efficiency</b>                                                                                               |                                                               |
| efficiency in percent                                                                                           | 89 %                                                          |
| power loss [W]                                                                                                  |                                                               |
| • at rated output voltage for rated value of the output current typical                                         | 12 W                                                          |
| • during no-load operation maximum                                                                              | 0.3 W                                                         |
| <b>closed-loop control</b>                                                                                      |                                                               |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.2 %                                                         |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical              | 2 %                                                           |
| setting time                                                                                                    |                                                               |
| • load step 10 to 90% typical                                                                                   | 1 ms                                                          |
| • load step 90 to 10% typical                                                                                   | 1 ms                                                          |
| <b>protection and monitoring</b>                                                                                |                                                               |
| design of the overvoltage protection                                                                            | < 60 V                                                        |
| property of the output short-circuit proof                                                                      | Yes                                                           |
| design of short-circuit protection                                                                              | Constant current characteristic                               |
| • typical                                                                                                       | 5 A                                                           |
| overcurrent overload capability                                                                                 |                                                               |
| • when switching on                                                                                             | 150% Iout rated typ. 200 ms                                   |
| • in normal operation                                                                                           | overload capability 150% Iout rated typ. 200 ms               |
| enduring short circuit current RMS value                                                                        |                                                               |
| • maximum                                                                                                       | 5 A                                                           |
| measuring point for output current                                                                              | Yes; 50 mV = 4 A                                              |
| <b>safety</b>                                                                                                   |                                                               |
| 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 II (without protective conductor)                       |
| protection class IP                                                                                             | IP20                                                          |
| <b>EMC</b>                                                                                                      |                                                               |
| standard                                                                                                        |                                                               |
| • for emitted interference                                                                                      | EN 55022 Class B                                              |
| • for mains harmonics limitation                                                                                | EN 61000-3-2                                                  |
| • for interference immunity                                                                                     | EN 61000-6-2                                                  |
| <b>standards, specifications, approvals</b>                                                                     |                                                               |
| certificate of suitability                                                                                      |                                                               |
| • CE marking                                                                                                    | Yes                                                           |
| • UKCA marking                                                                                                  | Yes                                                           |
| • Regulatory Compliance Mark (RCM)                                                                              | Yes                                                           |
| MTBF at 40 °C                                                                                                   | 2 391 480 h                                                   |
| <b>ambient conditions</b>                                                                                       |                                                               |
| ambient temperature                                                                                             |                                                               |

|                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• in horizontal mounting position during operation</li> <li>• during transport</li> <li>• during storage</li> </ul> | -40; Startup @ -25 °C ... +70 °C; with natural convection<br>-40 ... +85 °C<br>-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 60068-2-38 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>connection method</b>                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| type of electrical connection <ul style="list-style-type: none"> <li>• at input</li> <li>• at output</li> <li>• for auxiliary contacts</li> </ul>          | screw terminal<br>L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded<br>+, -: 2 screw terminals each for 0.5 ... 2.5 mm <sup>2</sup><br>-                                                                                                                                                                                                                                                                                                                                                                         |
| <b>mechanical data</b>                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| width × height × depth of the enclosure                                                                                                                    | 72 × 90 × 53 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| installation width × mounting height                                                                                                                       | 72 mm × 130 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| required spacing <ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>                                | 20 mm<br>20 mm<br>0 mm<br>0 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| fastening method <ul style="list-style-type: none"> <li>• DIN-rail mounting</li> <li>• S7 rail mounting</li> <li>• wall mounting</li> </ul>                | Snap onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions<br>Yes<br>No<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| housing can be lined up                                                                                                                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| net weight                                                                                                                                                 | 0.29 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>further information internet links</b>                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| internet link <ul style="list-style-type: none"> <li>• to website: Industry Mall</li> <li>• to website: Industry Online Support</li> </ul>                 | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                                                                                           |
| <b>additional information</b>                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| other information                                                                                                                                          | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>security information</b>                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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](#)



  
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RCM

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