SIEMENS

## Data sheet 6EP1336-3BA00




Figure similar

SITOP Modular/1AC/DC24V/20A

SITOP modular 20 A stabilized power supply input: 120/230 V AC output: 24 V DC/20 A

| | |
|---|---|
| **input** | |
| type of the power supply network | 1-phase AC |
| supply voltage at AC | Set by means of wire jumper on the device; starting from Vin > 93/183 V |
| supply voltage | 120 V/230 V |
| input voltage 1 at AC | 85 ... 132 V |
| input voltage 2 at AC | 176 ... 264 V |
| wide range input | No |
| overvoltage overload capability | 2.3 × Vin rated, 1.3 ms |
| buffering time for rated value of the output current in the event of power failure minimum | 20 ms |
| operating condition of the mains buffering | at Vin = 230 V |
| line frequency | 50/60 Hz |
| line frequency | 47 ... 63 Hz |
| input current | |
| ● at rated input voltage 120 V | 7.7 A |
| ● at rated input voltage 230 V | 3.5 A |
| current limitation of inrush current at 25 °C maximum | 60 A |
| I2t value maximum | 9.9 A²·s |
| fuse protection type | Yes |
| fuse protection type in the feeder | Recommended miniature circuit breaker at 1-phase operation: 10 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2411-1JA10 (120 V) or 3RV2411-1FA10 (230 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 |
| output voltage adjustable | Yes; via potentiometer |
| adjustable output voltage | 24 ... 28.8 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 | 100 mV |
| ● typical | 30 mV |
| voltage peak | |
| ● maximum | 200 mV |
| ● typical | 60 mV |


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| | |
|---|---|
| display version for normal operation | Green LED for 24 V OK |
| type of signal at output | via signaling module (6EP1961-3BA10) |
| behavior of the output voltage when switching on | Overshoot of Vout approx. 3 % |
| response delay maximum | 0.1 s |
| voltage increase time of the output voltage | |
| ● typical | 50 ms |
| output current | |
| ● rated value | 20 A |
| ● rated range | 0 ... 20 A; +60 ... +70 °C: Derating 3.5%/K |
| supplied active power typical | 480 W |
| short-term overload current | |
| ● at short-circuit during operation typical | 60 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 | 23 A |
| bridging of equipment | Yes; switchable characteristic |
| number of parallel-switched equipment resources for increasing the power | 2 |
| **efficiency** | |
| efficiency in percent | 89 % |
| power loss [W] | |
| ● at rated output voltage for rated value of the output current typical | 59 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 | 2 % |
| setting time | |
| ● load step 50 to 100% typical | 2 ms |
| ● load step 100 to 50% typical | 2 ms |
| setting time | |
| ● maximum | 5 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. 23 A or latching shutdown |
| ● typical | 23 A |
| enduring short circuit current RMS value | |
| ● typical | 23 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 | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| operating resource protection class | Class I |
| leakage current | |
| ● maximum | 3.5 mA |
| ● typical | 0.4 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 |
| ● UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| ● CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| ● UKCA marking | Yes |


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|---|---|
| ● EAC approval | Yes |
| ● Regulatory Compliance Mark (RCM) | Yes |
| ● NEC Class 2 | No |
| ● SEMI F47 | Yes |
| type of certification | |
| ● CB-certificate | No |
| MTBF at 40 °C | 786 164 h |
| **standards, specifications, approvals hazardous environments** | |
| certificate of suitability | |
| ● IECEx | No |
| ● ATEX | No |
| ● ULhazloc approval | No |
| ● cCSAus, Class 1, Division 2 | No |
| ● FM registration | No |
| **standards, specifications, approvals marine classification** | |
| shipbuilding approval | Yes |
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| ● French marine classification society (BV) | No |
| ● Det Norske Veritas (DNV) | Yes |
| ● Lloyds Register of Shipping (LRS) | No |
| **standards, specifications, approvals Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| Global Warming Potential [CO2 eq] | |
| ● total | 1 881.8 kg |
| ● during manufacturing | 34.7 kg |
| ● during operation | 1 846.1 kg |
| ● after end of life | 0.5 kg |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | 0 ... 70 °C; with natural convection |
| ● during transport | -40 ... +85 °C |
| ● during storage | -40 ... +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| **connection method** | |
| type of electrical connection | screw terminal |
| ● at input | L, N, PE: 1 screw terminal each for 0.2 ... 4 mm² single-core/finely stranded |
| ● at output | +, -: 2 screw terminals each for 0.5 ... 4 mm² |
| ● for auxiliary contacts | - |
| **mechanical data** | |
| width × height × depth of the enclosure | 160 × 125 × 125 mm |
| installation width × mounting height | 160 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 35x7.5/15 |
| ● standard rail mounting | Yes |
| ● S7 rail mounting | No |
| ● wall mounting | No |
| housing can be lined up | Yes |
| net weight | 2.2 kg |
| **accessories** | |
| electrical accessories | Buffer module, signaling module |
| **further information internet links** | |
| internet link | |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to website: Industrial communication | https://siemens.com/industrial-communication |
| ● to website: CAx-Download-Manager | https://siemens.com/cax |


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| | |
|---|---|
| ● to website: Industry Online Support | https://support.industry.siemens.com |

## 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 | 27-04-07-01 |
| 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 | 9 | EC002540 |
| ETIM | 8 | EC002540 |
| ETIM | 7 | EC002540 |
| IDEA | 4 | 4130 |
| UNSPSC | 15 | 39-12-10-04 |

## Approvals Certificates

### General Product Approval

Manufacturer Declaration

Declaration of Conformity

### General Product Approval

Miscellaneous

### Marine / Shipping

### Environment

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