

Data sheet

6EP3437-8SB00-0AY0



SITOP PSU8200/3AC/24VDC/40A

SITOP PSU8200 24 V/40 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A

Technical Product Detail Page

<https://i.siemens.com/1P6EP3437-8SB00-0AY0>

| 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 | 10 ms |
| operating condition of the mains buffering | at Vin = 400 V |
| line frequency | 50/60 Hz |
| line frequency | 45 ... 65 Hz |
| input current | |
| • at rated input voltage 400 V | 2.1 A |
| • at rated input voltage 500 V | 1.7 A |
| current limitation of inrush current at 25 °C maximum | 13 A |
| I _{2t} value maximum | 2.24 A ² ·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 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 | 240 mV |
| 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 | minimal overshooting (< 2 %) |
| response delay maximum | 0.1 s |
| voltage increase time of the output voltage | |
| • maximum | 100 ms |
| output current | |
| • rated value | 40 A |
| • rated range | 0 ... 40 A; +60 ... +70 °C: Derating 4%/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 | 94 % |
| power loss [W] | |
| • at rated output voltage for rated value of the output current typical | 66 W |
| • during no-load operation maximum | 4 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 | < 31.8 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 | 50 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 | 1 mA |
| • typical | 0.6 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 |
| • EAC approval | Yes |
| • Regulatory Compliance Mark (RCM) | Yes |

| | |
|---|---|
| • NEC Class 2 | No |
| • SEMI F47 | Yes |
| type of certification | |
| • BIS | Yes; R-41183539 |
| • CB-certificate | Yes |
| MTBF at 40 °C | 517 015 h |
| standards, specifications, approvals hazardous environments | |
| certificate of suitability | |
| • IECEx | No |
| • ATEX | No |
| • ULhazloc approval | 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 | 2 118.7 kg |
| • during manufacturing | 52 kg |
| • during operation | 2 065.2 kg |
| • after end of life | 0.74 kg |
| ambient conditions | |
| ambient temperature | |
| • during operation | -25 ... +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 | L1, L2, L3, PE: 1 screw terminal each for 0.5 ... 4 mm ² single-core/finely stranded |
| • at output | +: 2 screw terminals each for 0.5 ... 16 mm ² ; -: 3 screw terminals each for 0.5 ... 16 mm ² |
| • for auxiliary contacts | 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 ... 2.5 mm ² |
| mechanical data | |
| width x height x depth of the enclosure | 135 x 145 x 150 mm |
| installation width x mounting height | 135 mm x 225 mm |
| required spacing | |
| • top | 40 mm |
| • bottom | 40 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 | 3.3 kg |
| accessories | |
| electrical accessories | Buffer module |
| mechanical accessories | Device identification label 20 mm x 7 mm, TI-grey 3RT2900-1SB20 |
| further information internet links | |
| internet link | |

- to website: Industry Mall
- to web page: selection aid TIA Selection Tool
- to web page: power supplies
- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://mall.industry.siemens.com>
<https://www.siemens.com/tstcloud>
<https://siemens.com/sitop>
<https://siemens.com/cax>
<https://support.industry.siemens.com>

additional information

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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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 | 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](#)

[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval

Maritime application

Environment



[BIS CRS](#)



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