SIEMENS

Data sheet

6EP3334-8SB00-0AY0



SITOP PSU8200/1AC/24VDC/10A

SITOP PSU8200 24 V/10 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A

| Innut | |
|--|---|
| Input | 1-phase AC |
| Note | Automatic range selection |
| supply voltage | |
| • 1 at AC rated value | 120 V |
| • 2 at AC rated value | 230 V |
| input voltage | |
| • 1 at AC | 85 132 V |
| • 2 at AC | 170 264 V |
| Wide-range input | No |
| Mains buffering | at Vin = 120/230 V |
| Mains buffering at lout rated, min. | 35 ms; at Vin = 120/230 V |
| Rated line frequency 1 | 50 Hz |
| Rated line frequency 2 | 60 Hz |
| Rated line range | 47 63 Hz |
| input current | |
| at rated input voltage 120 V | 4 A |
| at rated input voltage 230 V | 1.9 A |
| Switch-on current limiting (+25 °C), max. | 10 A |
| I²t, max. | 0.3 A ² ·s |
| Built-in incoming fuse | T 6.3 A (not accessible) |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V |
| Output | |
| Output | Controlled, isolated DC voltage |
| Rated voltage Vout DC | 24 V |
| output voltage at output 1 at DC rated value | 24 V |
| Total tolerance, static ± | 3 % |
| Static mains compensation, approx. | 0.1 % |
| Static load balancing, approx. | 0.3 % |
| Residual ripple peak-peak, max. | 50 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 200 mV |
| Adjustment range | 24 28.8 V |
| product function output voltage adjustable | Yes |
| Output voltage setting | via potentiometer; max. 240 W |
| Status display | Green LED for 24 V OK |
| Signaling | Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" |

Subject to change without notice © Copyright Siemens

| On/off behavior | Overshoot of Vout approx. 3 % |
|---|--|
| Startup delay, max. | |
| | 70 ms |
| Voltage rise, typ. Rated current value lout rated | 10 A |
| Current range | 0 10 A |
| Note | +60 +70 °C: Derating 2%/K; as of Ua>24 V: 4% [la]/V [Ua]; at Ue<100 |
| • NOLE | V/<200 V: 80% la rated |
| supplied active power typical | 240 W |
| short-term overload current | |
| at short-circuit during operation typical | 30 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 | 12 A |
| Parallel switching for enhanced performance | Yes; switchable characteristic |
| Numbers of parallel switchable units for enhanced | 2 |
| performance | |
| Efficiency | |
| Efficiency at Vout rated, lout rated, approx. | 94 % |
| Power loss at Vout rated, lout rated, approx. | 18 W |
| power loss [W] during no-load operation maximum | 1.5 W |
| Closed-loop control | |
| Dynamic mains compensation (Vin rated ±15 %), max. | 0.1 % |
| Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. | 4 % |
| Load step setting time 50 to 100%, typ. | 0.25 ms |
| Load step setting time 100 to 50%, typ. | 0.5 ms |
| Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. | 4 % |
| Load step setting time 10 to 90%, typ. | 0.25 ms |
| Load step setting time 90 to 10%, typ. | 0.5 ms |
| setting time maximum | 1 ms |
| Protection and monitoring | |
| Output overvoltage protection | < 33 V |
| Current limitation, typ. | 12 A |
| property of the output short-circuit proof | Yes |
| Short-circuit protection | Alternatively, constant current characteristic approx. 12 A or latching shutdown |
| enduring short circuit current RMS value | Shutown |
| typical | 12 A |
| overcurrent overload capability in normal operation | overload capability 150 % lout rated up to 5 s/min |
| Overload/short-circuit indicator | LED yellow for "overload", LED red for "latching shutdown" |
| Safety | |
| Primary/secondary isolation | Yes |
| galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| Protection class | Class I |
| leakage current | |
| • maximum | 3.5 mA |
| • typical | 1 mA |
| Degree of protection (EN 60529) | IP20 |
| Approvals | |
| CE mark | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| certificate of suitability NEC Class 2 | No |
| CB approval | Yes |
| certificate of suitability EAC approval | Yes |
| Marine approval | ABS, DNV GL |
| EMC | |
| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | EN 61000-3-2 |
| Noise immunity | EN 61000-6-2 |
| | |

| environmental conditions | |
|--|---|
| ambient temperature | |
| during operation | -25 +70 °C |
| — Note | With natural convection; startup tested starting from -40 °C nominal voltage |
| during transport | -40 +85 °C |
| during storage | -40 +85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, 5 95% no condensation |
| Mechanics | |
| Connection technology | screw-type terminals |
| Connections | |
| Supply input | L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded |
| Output | +, -: 2 screw terminals each for 0.2 2.5 mm ² |
| Auxiliary | 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² ; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm ² |
| width of the enclosure | 55 mm |
| height of the enclosure | 125 mm |
| depth of the enclosure | 125 mm |
| required spacing | |
| • top | 50 mm |
| • bottom | 50 mm |
| • left | 0 mm |
| • right | 0 mm |
| Weight, approx. | 1 kg |
| product feature of the enclosure housing can be lined up | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15 |
| electrical accessories | Buffer module |
| mechanical accessories | Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 |
| MTBF at 40 °C | 1 292 102 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

C