SIEMENS

Data sheet 6EP1336-3BA10



SITOP PSU8200/1ACDC/24VDC/20A

SITOP PSU8200 20 A Stabilized power supply input: 120-230 V AC 110-220 V DC output: 24 V DC/20 A

| Input | |
|--|--|
| Input | 1-phase and 2-phase AC or DC |
| Rated voltage value Vin rated | 120 230 V |
| Voltage range AC | 85 275 V |
| • Note | Derating of temperature necessary down to 50 $^{\circ}\text{C}$ at Vin < 100 V AC or DC |
| supply voltage | |
| at DC | 110 220 V |
| input voltage | |
| at DC | 88 350 V |
| Wide-range input | Yes |
| Mains buffering | at Vin = 230 V |
| Mains buffering at lout rated, min. | 20 ms; at Vin = 230 V |
| Rated line frequency 1 | 50 Hz |
| Rated line frequency 2 | 60 Hz |
| Rated line range | 45 65 Hz |
| input current | |
| at rated input voltage 120 V | 4.6 A |
| at rated input voltage 230 V | 2.5 A |
| Switch-on current limiting (+25 °C), max. | 20 A |
| I ² t, max. | 5 A ² ·s |
| Built-in incoming fuse | Yes |
| Protection in the mains power input (IEC 898) | 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 3RV2711-1HD10 (UL 489) at 120 V or 3RV2711-1ED10 (UL 489) at 230 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. | 100 mV |
| Residual ripple peak-peak, typ. | 80 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 200 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 100 mV |
| Adjustment range | 24 28.8 V |

| product function output voltage adjustable | Yes |
|---|--|
| product function output voltage adjustable | |
| Output voltage setting | via potentiometer Green LED for 24 V OK |
| Status display | |
| Signaling On/off behavior | Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" |
| On/off behavior | No overshoot of Vout (soft start) |
| Startup delay, max. | 1.5 s |
| Voltage rise, typ. | 50 ms |
| Rated current value lout rated | _ 20 A |
| Current range | 0 20 A |
| • Note | +60 +70 °C: Derating 3%/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 | 30 A |
| Parallel switching for enhanced performance | Yes; switchable characteristic |
| Numbers of parallel switchable units for enhanced | 2 |
| performance | |
| Efficiency | 00.04 |
| Efficiency at Vout rated, lout rated, approx. | 93 % |
| Power loss at Vout rated, lout rated, approx. | 42 W |
| Closed-loop control | |
| Dynamic mains compensation (Vin rated ±15 %), max. | 0.5 % |
| Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. | _ 1% |
| Load step setting time 50 to 100%, typ. | 1 ms |
| Load step setting time 100 to 50%, typ. | 1 ms |
| setting time maximum | 5 ms |
| | |
| Protection and monitoring | |
| Protection and monitoring Output overvoltage protection | < 33 V |
| | < 33 V 21.5 A |
| Output overvoltage protection | |
| Output overvoltage protection Current limitation, typ. | 21.5 A |
| Output overvoltage protection Current limitation, typ. property of the output short-circuit proof | 21.5 A Yes |
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| Output overvoltage protection Current limitation, typ. property of the output short-circuit proof Short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation | 21.5 A Yes Alternatively, constant current characteristic approx. 23 A or latching shutdown 23 A overload capability 150 % lout rated up to 5 s/min |
| Output overvoltage protection Current limitation, typ. property of the output short-circuit proof Short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation Overload/short-circuit indicator | 21.5 A Yes Alternatively, constant current characteristic approx. 23 A or latching shutdown 23 A overload capability 150 % lout rated up to 5 s/min |
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| 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 4 mm² single-core/finely stranded |
| Output | +, -: 2 screw terminals each for 0.2 4 mm ² |
| Auxiliary | 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² |
| width of the enclosure | 90 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. | 1.2 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 | 667 048 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

