SIEMENS

## Data sheet 6EP3311-6SB00-0AY0


LOGO!Power/1AC/5VDC/6.3A

LOGO!Power 5 V / 6.3 A stabilized power supply input: 100-240 V AC output: 5 V DC / 6.3 A *Ex approval no longer available*

| Input | |
|---|---|
| Input | 1-phase AC or DC |
| Rated voltage value Vin rated | 100 ... 240 V |
| Voltage range AC | 85 ... 264 V |
| input voltage | |
| ● at DC | 110 ... 300 V |
| Wide-range input | Yes |
| Overvoltage resistance | 300 V AC for 1 s |
| Mains buffering | at Vin = 187 V |
| Mains buffering at Iout rated, min. | 40 ms; at Vin = 187 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 | 0.71 A |
| ● at rated input voltage 230 V | 0.37 A |
| Switch-on current limiting (+25 °C), max. | 50 A |
| $I^2t$, max. | 3 $A^2 \cdot s$ |
| Built-in incoming fuse | internal |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C |

| Output | |
|---|---|
| Output | Controlled, isolated DC voltage |
| Rated voltage Vout DC | 5 V |
| ● output voltage at output 1 at DC rated value | 5 V |
| Total tolerance, static ± | 3 % |
| Static mains compensation, approx. | 0.1 % |
| Static load balancing, approx. | 0.1 % |
| Residual ripple peak-peak, max. | 100 mV |
| Residual ripple peak-peak, typ. | 30 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 100 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 50 mV |
| Adjustment range | 4.6 ... 5.4 V |
| product function output voltage adjustable | Yes |
| Output voltage setting | via potentiometer |
| Status display | Green LED for output voltage OK |
| On/off behavior | No overshoot of Vout (soft start) |
| Startup delay, max. | 0.5 s |
| Voltage rise, typ. | 100 ms |

| | |
|---|---|
| Rated current value Iout rated | 6.3 A |
| Current range | 0 ... 6.3 A |
| ● Note | +55 ... +70 °C: Derating 2%/K |
| supplied active power typical | 31.5 W |
| Parallel switching for enhanced performance | Yes |
| Numbers of parallel switchable units for enhanced performance | 2 |
| **Efficiency** | |
| Efficiency at Vout rated, Iout rated, approx. | 80 % |
| Power loss at Vout rated, Iout rated, approx. | 8 W |
| power loss [W] during no-load operation maximum | 0.3 W |
| **Closed-loop control** | |
| Dynamic mains compensation (Vin rated ±15 %), max. | 0.2 % |
| Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ. | 7 % |
| Load step setting time 10 to 90%, typ. | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms |
| **Protection and monitoring** | |
| Output overvoltage protection | Yes, according to EN 60950-1 |
| Current limitation, typ. | 8.2 A |
| property of the output short-circuit proof | Yes |
| Short-circuit protection | Constant current characteristic |
| enduring short circuit current RMS value | |
| ● maximum | 8.2 A |
| overcurrent overload capability in normal operation | overload capability 150% Iout rated typ. 200 ms |
| Overload/short-circuit indicator | - |
| measuring point for output current | 50 mV =^ 6.3 A |
| overcurrent overload capability when switching on | 150% Iout rated typ. 200 ms |
| **Safety** | |
| Primary/secondary isolation | Yes |
| galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| Protection class | Class II (without protective conductor) |
| 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; cURus-recognized (UL 60950, CSA C22.2 No. 60950), File E151273 |
| certificate of suitability NEC Class 2 | No |
| CB approval | Yes |
| certificate of suitability EAC approval | Yes |
| Marine approval | ABS, BV, DNV GL, LRS |
| **EMC** | |
| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | not applicable |
| Noise immunity | EN 61000-6-2 |
| **environmental conditions** | |
| ambient temperature | |
| ● during operation | -25 ... +70 °C |
| — Note | with natural convection |
| ● 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: 1 screw terminal each for 0.5 ... 2.5 mm2 single-core/finely stranded |
| ● Output | +, -: 1 screw terminal each for 0.5 ... 2.5 mm² |
| ● Auxiliary | - |
| width of the enclosure | 54 mm |
| height of the enclosure | 90 mm |

| | |
|---|---|
| depth of the enclosure | 53 mm |
| required spacing | |
| ● top | 20 mm |
| ● bottom | 20 mm |
| ● left | 0 mm |
| ● right | 0 mm |
| Weight, approx. | 0.2 kg |
| product feature of the enclosure housing can be lined up | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions |
| MTBF at 40 °C | 2 654 280 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |