SIEMENS

Data sheet

6EP3436-8MB00-2CY0



SITOP PSU8600/3AC/24VDC/20A/4X5A PN

SITOP PSU8600 3AC 20 A/4x5 A PN stabilized power supply input: 400-500 V 3 AC output: 24 V DC/20 A/4x 5 A with PN/IE connection web server integrated OPC UA server integrated *Ex approval no longer available*

| 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; Derating 320 360 and 530 575 V |
| full-scale value | 575 V |
| design of input wide range input | Yes |
| operating condition of the mains buffering | at Vin = 400 V; Prioritized supply Output 1 at power failure can be selected via DIP switch; Prioritized supply Output 1 at power failure can be selected via DIP switch |
| buffering time for rated value of the output current in the event of power failure minimum | 15 ms |
| operating condition of the mains buffering | at Vin = 400 V; Prioritized supply Output 1 at power failure can be selected via DIP switch; Prioritized supply Output 1 at power failure can be selected via DIP switch |
| line frequency | |
| • 1 rated value | 50 Hz |
| • 2 rated value | 60 Hz |
| line frequency | 47 63 Hz |
| input current | |
| at rated input voltage 400 V | 1.4 A |
| at rated input voltage 500 V | 1.1 A |
| current limitation of inrush current at 25 °C maximum | 14 A |
| I2t value maximum | 1.2 A ² ·s |
| fuse protection type | none |
| • in the feeder | Required: 3-pole connected miniature circuit breaker 6 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 |
| number of outputs | 4 |
| output voltage at DC rated value | 24 V |
| output voltage | |
| at output 1 at DC rated value | 24 V |
| at output 2 at DC rated value | 24 V |
| at output 3 at DC rated value | 24 V |
| at output 4 at DC rated value | 24 V |
| relative overall tolerance of the voltage | 3 % |
| relative control precision of the output voltage | |
| on slow fluctuation of input voltage | 0.2 % |
| on slow fluctuation of ohm loading | 0.1 % |
| residual ripple | |

| • maximum | 100 mV |
|---|--|
| voltage peak | |
| • maximum | 200 mV |
| adjustable output voltage | 4 28 V |
| product function output voltage adjustable | Yes |
| type of output voltage setting | via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system |
| display version for normal operation | 3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED per output for operating state output; LED green for parallel operation Output 1 and 2 / 3 and 4 |
| type of signal at output | Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for "Operating state OK" |
| behavior of the output voltage when switching on | No overshoot of Vout (soft start) |
| response delay maximum | 1 s; Without on-delay of the outputs |
| type of outputs connection | Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set |
| voltage increase time of the output voltage | |
| • maximum | 500 ms |
| output current | |
| rated value | 20 A |
| • per output | 5 A |
| at output 1 rated value | 5 A |
| at output 2 rated value | 5 A |
| at output 3 rated value | 5 A |
| at output 4 rated value | |
| ● rated range | 0 20 A; +50 +60 °C: Derating 2.5%/K; no derating in connection with expansion module CNX8600 and total load of the outputs at the basic device max. 240 W |
| supplied active power typical | 480 W |
| product feature | |
| parallel switching of outputs | Yes; Parallel circuit Output 1 with 2 or Output 3 with 4 can be selected via DIP switch |
| bridging of equipment | No |
| Efficiency | |
| efficiency in percent | 93 % |
| power loss [W] | |
| at rated output voltage for rated value of the output current typical | 34 W |
| during no-load operation maximum | 12 W |
| Closed-loop control | 12 VV |
| | 0.4.0/ |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of | 0.1 % |
| resistive load 50/100/50 % typical | |
| setting time | |
| • maximum | 10 ms |
| Protection and monitoring | |
| design of the overvoltage protection | max. 35 V (max. 500 ms) |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches |
| adjustable current response value current of the current- dependent overload release | 0.5 5 A |
| type of response value setting switching characteristic | via potentiometer or IE/PN interface |
| of the excess current | la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la |
| | threshold) permissible for 200 ms |
| of the current limitation | la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous |
| design of the reset device/resetting mechanism | via sensor per output or IE/PN interface |
| remote reset function | Non-electrically isolated 24 V input (signal level "high" at > 15 V) |
| overcurrent overload capability in normal operation | Total system overloadable 150% Ia rated to 5 s/min |
| display version for overload and short circuit | 3-color LED for operating state device; 3-color LED per output for operating state output |

| Interface | Ethorpot/DBOEINET |
|---|--|
| design of the interface | Ethernet/PROFINET |
| PROFINET protocol | Yes |
| protocol is supported OPC UA | Yes |
| 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 |
| protection class IP | IP20 |
| Approvals | |
| certificate of suitability | |
| CE marking | Yes |
| UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; |
| | cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; |
| | cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| • cCSAus, Class 1, Division 2 | No |
| • ATEX | No |
| certificate of suitability | Ne |
| | No |
| NEC Class 2 | No |
| ULhazloc approval | No |
| FM registration | No |
| type of certification CB-certificate | Yes |
| certificate of suitability | |
| • EAC approval | Yes |
| • C-Tick | No |
| certificate of suitability shipbuilding approval | Yes |
| shipbuilding approval | ABS, DNV GL |
| Marine classification association | |
| American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| French marine classification society (BV) | No |
| • DNV GL | Yes |
| Lloyds Register of Shipping (LRS) | No |
| Nippon Kaiji Kyokai (NK) | No |
| EMC | |
| standard | |
| for emitted interference | EN 55022 Class B |
| for mains harmonics limitation | EN 61000-3-2 |
| for interference immunity | EN 61000-6-2 |
| environmental conditions | |
| ambient temperature | |
| during operation | -25 +60 °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 |
| Mechanics | |
| type of electrical connection | Plug-in terminals with screwed connection |
| at input | L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 4 mm ² single-wire / fine stranded |
| ● at output | 1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed connections each for 0.2 2.5 mm ² ; 0 V: Plug-in terminal with 3 screwed connections for 0.2 4 mm ² |
| • for auxiliary contacts | RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm ² |
| • for signaling contact | 11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 mm ² |
| product function | |
| removable terminal at input | Yes |
| removable terminal at output | Yes |
| design of the interface for communication | PROFINET/Ethernet: two RJ45 sockets (2-port switch) |
| | |

| width of the enclosure | 100 mm |
|--|---|
| height of the enclosure | 125 mm |
| depth of the enclosure | 150 mm |
| required spacing | |
| • top | 50 mm |
| bottom | 50 mm |
| • left | 0 mm |
| • right | 0 mm |
| net weight | 2 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | Snaps onto DIN rail EN 60715 35x15 |
| electrical accessories | Expansion modules CNX8600, buffer modules BUF8600, module UPS8600 |
| mechanical accessories | Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 |
| MTBF at 40 °C | 243 178 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
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