SIEMENS

Data sheet

6EP3436-8UB00-0AY0



SITOP PSU3800/3AC/24VDC/17A

SITOP PSU3800 24 V/17 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/17 A optimized for battery charging *Ex approval no longer available*

Input type of the power supply network

supply voltage at AC

- minimum rated value
- maximum rated value
- initial value
- full-scale value

design of input wide range input

operating condition of the mains buffering

buffering time for rated value of the output current in the event of power failure minimum

operating condition of the mains buffering

line frequency

- 1 rated value
- 2 rated value

line frequency

input current

- at rated input voltage 400 V
- at rated input voltage 500 V

current limitation of inrush current at 25 °C maximum

I2t value maximum fuse protection type

• in the feeder

3-phase AC

400 V

500 V

320 V

575 V

Yes

at Vin = 400 V

15 ms

at Vin = 400 V

50 Hz

60 Hz

47 ... 63 Hz

1.1 A

0.9 A

16 A 0.8 A²·s

none

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

output voltage at DC rated value

output voltage

at output 1 at DC rated value

relative overall tolerance of the voltage relative control precision of the output voltage

• on slow fluctuation of input voltage

on slow fluctuation of ohm loading

residual ripple

maximum

voltage peak

maximum

adjustable output voltage product function output voltage adjustable

type of output voltage setting display version for normal operation

Controlled, isolated DC voltage

24 V

24 V

3 %

0.1 % 0.2 %

100 mV

200 mV

24 ... 28 V

Yes

via potentiometer; max. 480 W

Green LED for 24 V OK

| | D |
|---|--|
| 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 | No overshoot of Vout (soft start) |
| response delay maximum | 2.5 s |
| voltage increase time of the output voltage | 500 |
| • maximum | 500 ms |
| output current | 47.4 |
| • rated value | 17 A |
| • rated range | 0 17 A; +60 +70 °C: Derating 2%/K |
| supplied active power typical | 408 W |
| constant overload current | 10 A |
| on short-circuiting during the start-up typical product feature. | 19 A |
| product feature | Voc: cwitchable characteristic |
| bridging of equipment number of parallel-switched equipment resources for | Yes; switchable characteristic 2 |
| increasing the power | 2 |
| Efficiency | |
| efficiency in percent | 94 % |
| power loss [W] | 54 <i>7</i> 0 |
| at rated output voltage for rated value of the output | 26 W |
| current typical | |
| Closed-loop control | |
| relative control precision of the output voltage with rapid | 0.1 % |
| fluctuation of the input voltage by +/- 15% typical | |
| relative control precision of the output voltage load step of | 1 % |
| resistive load 50/100/50 % typical | |
| setting time | |
| load step 50 to 100% typical | 0.2 ms |
| load step 100 to 50% typical | 0.2 ms |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 2 % |
| setting time | |
| ● load step 10 to 90% typical | 0.2 ms |
| • load step 90 to 10% typical | 0.2 ms |
| maximum | 10 ms |
| Protection and monitoring | 10 1110 |
| | < 32 V |
| design of the overvoltage protection • typical | 19 A |
| ** | Yes |
| property of the output short-circuit proof | |
| property of the output short-circuit proof | Alternatively constant current characteristic approx 19 A or latching |
| property of the output short-circuit proof design of short-circuit protection | Alternatively, constant current characteristic approx. 19 A or latching shutdown |
| | |
| design of short-circuit protection | |
| design of short-circuit protection enduring short circuit current RMS value | shutdown |
| design of short-circuit protection enduring short circuit current RMS value • typical | shutdown 19 A |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety | shutdown 19 A |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA |
| enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 Yes |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • cCSAus, Class 1, Division 2 | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • CSAus, Class 1, Division 2 • ATEX | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • cCSAus, Class 1, Division 2 • ATEX certificate of suitability | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • cCSAus, Class 1, Division 2 • ATEX certificate of suitability • IECEx • NEC Class 2 • ULhazloc approval | shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No |
| design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • cCSAus, Class 1, Division 2 • ATEX certificate of suitability • IECEx • NEC Class 2 | Shutdown 19 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No |

certificate of suitability Yes • EAC approval certificate of suitability shipbuilding approval Yes ABS, DNV GL shipbuilding approval 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 ... +70 °C; with natural convection during transport -40 ... +85 °C -40 ... +85 °C during storage environmental category according to IEC 60721 Climate class 3K3, 5 ... 95% no condensation **Mechanics** type of electrical connection screw-type terminals at input L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 ... 4 mm2 at output • for auxiliary contacts 13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 ... 1.5 mm² width of the enclosure 70 mm 125 mm height of the enclosure depth of the enclosure 125 mm required spacing 50 mm • top bottom 50 mm 0 mm left 0 mm right net weight 1.2 kg product feature of the enclosure housing can be lined up fastening method Snaps onto DIN rail EN 60715 35x7.5/15 electrical accessories Buffer module Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 mechanical accessories



(unless otherwise specified)

Specifications at rated input voltage and ambient temperature +25 °C

other information