6EP3437-8SB00-0AY0

## **Data sheet**

Input



## SITOP PSU8200/3AC/24VDC/40A

SITOP PSU8200 24 V/40 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A \*Ex approval no longer available\*

type of the power supply network	3-phase AC
supply voltage at AC	
<ul> <li>minimum rated value</li> </ul>	400 V
maximum rated value	500 V
• initial value	320 V
• full-scale value	575 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 400 V
buffering time for rated value of the output current in the event of power failure minimum	10 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	
1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	45 65 Hz
input current	
<ul> <li>at rated input voltage 400 V</li> </ul>	2.1 A
<ul> <li>at rated input voltage 500 V</li> </ul>	1.7 A
current limitation of inrush current at 25 °C maximum	13 A
I2t value maximum	2.24 A <sup>2</sup> ·s
fuse protection type	none
• in the feeder	Required: 3-pole connected miniature circuit breaker 10 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
output voltage at DC rated value	24 V
output voltage	
at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
on slow fluctuation of ohm loading	0.2 %
residual ripple	
maximum	100 mV
voltage peak	
• maximum	240 mV
adjustable output voltage	24 28 V
product function output voltage adjustable	Yes

Spee of output voltage setting of speak years for normal operation (Spee of ESpeak years) for normal operation (Spee of ESpeak years) for speak years) for speak years of the output voltage when switching on one of speak years with the speak of the output voltage when switching on one output current (Spee of ESP) (Speak years) (Speak yea	han a factority with a control of	
Speed or Signal at output    Speed or Signa	type of output voltage setting	via potentiometer; max. 960 W
behavior of the output voltage when switching on response delay maximum voltage increase time of the output output current a stand-circuit during operation typical short-time voltage operation (a stand-circuit during operation typical short-circuit during operation of the output voltage increases outp		
response delay maximum voltage increase time of the output voltage		
voluge increase time of the output voltage		
* maximum     * orated value     * orated valu		0.1 s
output current  • rated value • noted range supplied active power typical supplied active power typical • rated value • rated range supplied active power typical • at short-circuit during operation typical • at short-circuit during operation typical • at short-circuit during operation • at short-circuit during operation • at short-circuit during operation constant overload current • at short-circuit during operation • on short-circuiting during the start-up typical • on short-circuiting during the start-up typical • on short-circuiting during the start-up typical • or short-circuiting outprent resources for increasing the power  Efficiency • feticiency in precent power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum  • during no-load operation maximum  • auding no-load operation maximum  • auding no-load operation and input voltage with rapid flicturation of the input voltage by 4 1%  • closed-loop control  relative control precision of the output voltage load step of resistive load 5010050 % typical  • audinum • maximum  • maximum  Protection and monitoring  design of the overvoltage protection • maximum  • hypical  overcurent overload capability in normal operation deplay version for overload and short circuit • hypical  overcurent overload capability in normal operation deplay arises for overload and short circuit • maximum • hypical  • cost as proved • CSA approval		
* rated value     * rated range     * supplied active power typical     * supplied active power t		100 ms
* rated range     * supplied active power typical     * short-circuit during operation typical     * of short-circuit during operation typical     * of short-circuit during operation     * of short-circuit during operation     * of short-circuit during operation     * on short-circuit during operation     * of rated output voltage for rated value of the output     * outring no-load operation maximum  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage vith rapid fluctuation of the input voltage vith rapid fluctuation of the input voltage load step of resistive loads 50100-55 % typical     * outring no-load operation of the output voltage load step of resistive loads 50100-55 % typical     * anximum  Protection and monitoring     design of short-circuit proof     design of short-circuit proof     overcurrent overload capability in normal operation     display version for overload and short-circuit proof     overcurrent overload capability in normal operation     display version for overload and short-circuit     emaximum     * pipical     * overcurrent overload capability in normal operation     display version for overload and short-circuit     * poperating resource protection class     leakage current     * maximum     * overcurrent overload capability in normal operation     * overcurrent overload capability in normal operation     * overcurrent overload	·	
supplied active power typical short-term overload current • at short-circuit during operation typical duration of overloading capability for excess current • at short-circuit during operation • at short-circuit during operation • on short-circuit during operation • on short-circuiting during the start-up typical • outring no-load operation maximum  • outring no-load operation maximum  • outring no-load operation maximum  • outring no-load operation of the output voltage with rapid fluctuation of the input voltage by + 1 f6% typical • outring no-load operation of the output voltage with rapid fluctuation of the input voltage by + 1 f6% typical • outring no-load operation of the output voltage with rapid fluctuation of the input voltage by + 1 f6% typical • neakinum  • neakinum  • neakinum  • neakinum  • neakinum  • neakinum  • property of the output short-circuit proof • design of the overvoltage protection • Alternatively, constant current current capability in normal operation • overcurent overload capability in normal operation • overcurent overload and short circuit • typical • (pipical • poperty of resource protection class  leakage current • maximum • pytical • (pipical • (pip		
short-term overload current  • if short-circuit during operation typical duration of overloading capability for excess current  • at short-circuit during operation constant overload current  • on short-circuit during operation constant overload current  • on short-circuit during operation constant overload current  • on short-circuit guing the start-up typical  • bridging of equipment number of parallel-switched equipment resources for increasing the power  Efficiency  • efficiency in percent power loss [W]  • at rated output vottage for rated value of the output current typical  • during no-load operation maximum  • during no-load operation maximum  • during no-load operation of the output vottage with rapid fluctuation of the input vottage by +c. 15% typical relative control precision of the output vottage load step of resistive load 60/100/50 % typical setting time  • maximum  • maximum  • maximum  • maximum  • maximum  • Totosction and monitoring  design of the overvoltage protection  enduring short circuit current RMS value  • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  • Safety galvanic isolation between input and output  galvanic isolation between input and output  • popical  • CSA asproval  • CSA asproval  • CSA approval		
e at short-circuit during operation typical duration of overloading capability for excess current e at short-circuit during operation constant overload current e on short-circuiting during the start-up typical on short-circuiting during the start-up typical e or short-circuiting during the start-up typical of out floature  bridging of equipment product feature  bridging of equipment product feature  bridging of equipment of tricesing the power  Efficiency  e		960 W
duration of overloading capability for excess current		
• at short-circuit during operation  constant overload current • on short-circuiting during the start-up typical • on short-circuiting during the start-up typical • bridging of equipment • bridging of equipment • bridging of equipment • bridging of equipment resources for increasing the power  Efficiency  efficiency  efficiency  efficiency  efficiency  out at rated output voltage for rated value of the output current typical • during no-load operation maximum • during no-load operation maximum • during no-load operation maximum • during no-load operation of the output voltage with rapid fluctuation of the input voltage with rapid fluctuation of the input voltage by 4/- 15% typical relative control precision of the output voltage load step of resistive load 50/10/50 % typical setting time • maximum • maximum  Protection and monitoring  design of the overvoltage protection esponse value current limitation typical 44 A  property of the output short-circuit proted  design of short-circuit protection  alternatively, constant current characteristic approx. 44 A or latching shutdown  enduring short circuit current RMS value • typical  overcurrent overload capability in normal operation display version for overload and short circuit  ED yellow for "overload", LED red for "latching shutdown"  Safety galvanic isolation between input and output  apalvanic isolation between input and output  • maximum • pipical  oparating resource protection class  leakage current • maximum		120 A
constant overload current  • on short-circuiting during the start-up typical  product feature  • bridging of equipment number of parallel-switched equipment resources for increasing the power  Efficiency  efficiency in percent power loss [W]  • at rated output voltage for rated value of the output current typical  • during no-load operation maximum  4 W  Closed-loop control  relative control precision of the output voltage with rapid fleutuation of the input voltage by 4*. 15% typical  relative control precision of the output voltage load step of resistive load 501/00/50 % typical  relative control precision of the output voltage load step of resistive load 501/00/50 % typical  relative control precision of the output voltage load step of resistive load 501/00/50 % typical  setting time  • maximum  10 ms  Protection and monitoring  design of the overvoltage protection  44 A  property of the output short-circuit protection  44 A  property of the output short-circuit protection  45 A  projectly of short-circuit protection  46 A  short-circuit grotection short-circuit protection  47 A  short-circuit protection  48 A  projectly of short-circuit protection  49 A  overcurrent overload capability in normal operation  display version for overload and short circuit  • bytical  overcurrent overload capability in normal operation  display version for overload and short circuit  ED yellow for "overload", LED red for "latching shutdown"  Strity  galvanic isolation between input and output  9 apalvanic isolation between input and output  • maximum  •		
on short-circuiting during the start-up typical product feature	at short-circuit during operation	25 ms
product feature  • bridging of equipment number of parallel-switched equipment resources for increasing the power  efficiency in percent  • bridging of percent  • bridging of equipment  fficiency of parallel-switched equipment resources for increasing the power  efficiency of percent  • at rated output voltage for rated value of the output current typical  • at rated output voltage for rated value of the output current typical  • during no-load operation maximum  • at rated output voltage with rapid fluctuation of the input voltage by +/- 15% typical  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 resistive load 501/050% typical  setting lime  • maximum  • maximum  • maximum 10 ms  Protection and monitoring  design of the overvoltage protection  cesponse value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  Alternatively, constant current characteristic approx. 44 A or latching shutdown  enduring short circuit current RMS value  • typical  • typical  • yes  overcurrent overload capability in normal operation  display version for overload and short circuit  EED yellow for "overload", LED red for "latching shutdown"  Safety  salvanic isolation between input and output  galvanic isolation between input and output  yes  galvanic isolation between input and output  • maximum  • Casa upproval  • CSA approval	constant overload current	
bridging of equipment     number of parallel-switched equipment resources for increasing the power      Efficiency      efficiency in percent     Ower loss [W]	on short-circuiting during the start-up typical	44 A
number of parallel-switched equipment resources for increasing the power  Efficiency  efficiency in percent	product feature	
increasing the power  efficiency in percent  efficiency in percent  94 %  power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  relative control precision of the output voltage with rapid fluctuation of the input voltage by 4'- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • maximum  10 ms  Protection and monitoring  design of the overvoltage protection response value current limitation typical 44 A property of the output short-circuit proof 45 design of short-circuit protection enduring short circuit current RMS value • typical  • typical  overcurrent overload capability in normal operation display version for overload and short circuit EED yellow for "overload", LED red for "latching shutdown"  safety galvanic isolation between input and output galvanic isolation between input and output endange resource protection class leakage current • maximum • typical • CE marking • CE marking • CE marking • CSAus, Class 1, Division 2  94 %  66 W  4 W  66 W  4 W  66 W  4 W  67 W  68		Yes; switchable characteristic
Efficiency  efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical  • during no-load operation maximum  4 W  Closed-loop control  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 resistive load 50/100/50 % typical  setting time  • maximum  10 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  and input short circuit current RMS value  • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  Safety  galvanic isolation between input and output  • galvanic isolation  • property of secure protection class  leakage current  • maximum  • maximum  • typical  One maximum  1 mA  • typical  One maximum  • Tima  • Typical  One maximum  • T		2
efficiency in percent power loss [W]		
power loss [W]  at rated output voltage for rated value of the output current typical  during no-load operation maximum  4 W  Closed-loop control  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 resistive load 50/100/50 % typical  setting time  maximum  10 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  alternatively, constant current characteristic approx. 44 A or latching shutdown  enduring short circuit current RMS value  typical  overcurrent overload capability in normal operation  overcurrent overload and short circuit  Safety  galvanic isolation between input and output  galvanic isolation between input and output  maximum  maximum  maximum  typical  operating resource protection class  class    leakage current  maximum  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    leakage current  maximum  typical  operating resource protection class  Class    le	Efficiency	
at rated output voltage for rated value of the output current typical during no-load operation maximum 4 W  Closed-loop control 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 resistive load 50/10/50 % typical relative control precision of the output voltage load step of resistive load 50/10/50 % typical setting time maximum 10 ms  Protection and monitoring design of the overvoltage protection 44 A property of the output short-circuit prof 45 Alternatively, constant current characteristic approx. 44 A or latching shutdown enduring short-circuit protection Alternatively, constant current characteristic approx. 44 A or latching shutdown enduring short circuit current RMS value typical overcurrent overload capability in normal operation display version for overload and short circuit LED yellow for "overload", LED red for "latching shutdown"  Safety galvanic isolation between input and output yes galvanic isolation between input and output agaivanic isolation between input and output paivanic isolation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  leakage current maximum typical maximum typ	efficiency in percent	94 %
during no-load operation maximum  4 W  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by 4'- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  • maximum  10 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  Alternatively, constant current characteristic approx. 44 A or latching shutdown  enduring short circuit current RMS value  • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  ED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  9 galvanic isolation  operating resource protection class  leakage current  • maximum  • typical  protection class IP  Approvals  CE marking  Yes  CSAus (CSA C22.2 No. 60950-1, UL 60950-1)  No  No	power loss [W]	
during no-load operation maximum		66 W
Closed-loop control  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 resistive load 50/100/50 % typical  setting time  • maximum  10 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value  • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  Safety  galvanic isolation between input and output  galvanic isolation  operating resource protection class  leakage current  • maximum  • typical  operating resource protection class  leakage current  • maximum  • typical  operating resource protection class  leakage current  • maximum  • typical  O.6 mA  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • CSA approval  • cCSAus, Class 1, Division 2	• •	
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fluctuation of the input voltage by 4'- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	Closed-loop control	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time  • maximum  10 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  Alternatively, constant current characteristic approx. 44 A or latching shutdown  enduring short circuit current RMS value  • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  ED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  yes  galvanic isolation between riput and output  operating resource protection class  leakage current  • maximum  • typical  o.6 mA  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • CSA approval  • CSA approval  • CSA approval  • CCSAus, (CSA C22.2 No. 60950-1, UL 60950-1)  • CCSAus, Class 1, Division 2		1 %
resistive load 50/100/50 % typical setting time  • maximum  10 ms  Protection and monitoring  design of the overvoltage protection response value current limitation typical property of the output short-circuit protection Alternatively, constant current characteristic approx. 44 A or latching shutdown enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety galvanic isolation between input and output galvanic isolation between input and output operating resource protection class  leakage current • maximum • typical o.6 mA protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • CSA approval • CCSAus, (CSA C22.2 No. 60950-1, UL 60950-1) • CCSAus, Class 1, Division 2		0.07
setting time  maximum  monitoring  design of the overvoltage protection response value current limitation typical  property of the output short-circuit proof  design of short-circuit protection  alternatively, constant current characteristic approx. 44 A or latching shutdown  enduring short circuit current RMS value  typical  overcurrent overload capability in normal operation  display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  yes  galvanic isolation between input and output  maximum  maximum  myipical  m		3 %
• maximum 10 ms  Protection and monitoring  design of the overvoltage protection		
Protection and monitoring  design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection Alternatively, constant current characteristic approx. 44 A or latching shutdown enduring short circuit current RMS value • typical overcurrent overload capability in normal operation 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  Cet marking • UL approval  • CSA approval • CSA approval • CSA approval • CCSAus, Class 1, Division 2  No  44 A  A  44 A  A  44 A  A  A  A  Alternatively, constant current characteristic approx. 44 A or latching shutdown with shutdown with a protection day and short circuit  45 A  46 A  Alternatively, constant current characteristic approx. 44 A or latching shutdown with a protection day and short circuit be provided capability 150 % lout rated up to 5 s/min  LED yellow for "overload", LED red for "latching shutdown"  Safety  Yes  Galvanic isolation between input and output yes  Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  I mA  0.6 mA  I mA  1 mA  1 mA  2 yes  CE marking  Yes  CE marking  Yes  CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; CULus-Listed (UL 508, CSA C22.2 No. 60950-1, UL 60950-1)  Yes; CULus-Listed (UL 508, CSA C22.2 No. 60950-1, UL 60950-1)  Yes; CULus-Listed (UL 508, CSA C22.2 No. 60950-1, UL 60950-1)	-	10 ms
design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection alternatively, constant current characteristic approx. 44 A or latching shutdown enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety galvanic isolation between input and output galvanic isolation state of typical operating resource protection class leakage current • maximum • typical protection class IP  Approvals  certificate of suitability • CE marking • UL approval  CSA approval  CSA approval • CSA approval • CSA approval • CCSAus, Class 1, Division 2		10 1113
response value current limitation typical property of the output short-circuit proof design of short-circuit protection Alternatively, constant current characteristic approx. 44 A or latching shutdown enduring short circuit current RMS value • typical  • typical  overcurrent overload capability in normal operation display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety galvanic isolation between input and output galvanic isolation between input and output  • maximum • maximum • typical protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • CSA approval • CCSAus, Class 1, Division 2		- 04 0 V
property of the output short-circuit proof design of short-circuit protection  Alternatively, constant current characteristic approx. 44 A or latching shutdown  enduring short circuit current RMS value • typical  overcurrent overload capability in normal operation 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 • CSA approval • CSA approval • CSA approval • CSAus, Class 1, Division 2		
design of short-circuit protection  Alternatively, constant current characteristic approx. 44 A or latching shutdown  enduring short circuit current RMS value  • typical  overload capability in normal operation display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output yes galvanic isolation operating resource protection class leakage current  • maximum • typical protection class IP  Approvals  certificate of suitability • CE marking • UL approval  • CSA approval • CSA approval • CSA approval • cCSAus, Class 1, Division 2  Alternatively, constant current characteristic approx. 44 A or latching shutdown  50 A  overload capability 150 % lout rated up to 5 s/min  LED yellow for "overload", LED red for "latching shutdown"  Safety  yes  CLass I  LED yellow for "overload", LED red for "latching shutdown"  Yes  Galvanic isolation output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  LED yellow for "overload", LED red for "latching shutdown"  Yes  Galvanic isolation overload up to 5 s/min  LED yellow for "overload", LED red for "latching shutdown"  Safety  Yes  Class I  LED yellow for "overload", LED red for "latching shutdown"  Safety  Yes  Class I  I mA  0.6 mA  P20  Approvals  CCF marking  Yes  CCSAus (CSA C22.2 No. 107.1), File E197259; CCSAus (CSA C22.2 No. 107.1), File E197259; CCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  • cCSAus, Class 1, Division 2		
enduring short circuit current RMS value  • typical  overcurrent overload capability in normal operation  display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  galvanic isolation between input and output  galvanic resource protection class  leakage current  • maximum  • typical  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • CSA C		
enduring short circuit current RMS value	design of short-circuit protection	
<ul> <li>typical</li> <li>overcurrent overload capability in normal operation</li> <li>display version for overload and short circuit</li> <li>LED yellow for "overload", LED red for "latching shutdown"</li> <li>Safety</li> <li>galvanic isolation between input and output</li> <li>yes</li> <li>galvanic isolation</li> <li>Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178</li> <li>Operating resource protection class</li> <li>leakage current <ul> <li>maximum</li> <li>typical</li> <li>0.6 mA</li> </ul> </li> <li>protection class IP</li> <li>Approvals</li> </ul> <li>certificate of suitability <ul> <li>CE marking</li> <li>UL approval</li> <li>CSA approval</li> <li>CSA approval</li> <li>CSA (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>CSA (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>e CSAus, Class 1, Division 2</li> </ul> </li> <li>No</li>	enduring short circuit current PMS value	Situtuowii
overcurrent overload capability in normal operation display version for overload and short circuit  Safety galvanic isolation between input and output galvanic resource protection class  leakage current • maximum • typical protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • cCSAus, Class 1, Division 2  overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"  Yes Safety Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  I mA 0.6 mA IP20  Yes CULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  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		50 Δ
display version for overload and short circuit  LED yellow for "overload", LED red for "latching shutdown"  Safety  galvanic isolation between input and output  yes galvanic isolation operating resource protection class  leakage current  • maximum • typical protection class IP  Approvals  certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • CCSAus, Class 1, Division 2  LED yellow for "overload", LED red for "latching shutdown"  Yes Class I  LED yellow for "overload", LED red for "latching shutdown"  Yes Class I  Yes  Class I  1 mA  0.6 mA  1 P20  Approvals  Cettificate of suitability  Yes  CCSAus (CSA C22.2 No. 107.1), File E197259; CCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; CCSAus (CSA C22.2 No. 60950-1, UL 60950-1)		
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 • CSA approval • CCSAus, Class 1, Division 2  Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  I mA  1 mA  1 mA  1 mA  1 mA  2 typical  9 LP20  Approvals  Certificate of suitability • CE marking • UL approval • CSA approval • CSA approval • CSA approval • CSA approval • CSAus, Class 1, Division 2		
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  • CSA approval  • CSA us, Class 1, Division 2  Yes  Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  Yes  1 mA  0.6 mA  1 P20  Yes  (UL 508, CSA C22.2 No. 107.1), File E197259;  CCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;  CCSAus (CSA C22.2 No. 60950-1, UL 60950-1)		LED yellow for overload, LED fed for latering struttown
galvanic isolation  operating resource protection class  leakage current  • maximum  • typical  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • CSAus, Class 1, Division 2  Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I  I mA  • typical  0.6 mA  IP20  Approvals  Yes  • CE Marking  • UL 508, CSA C22.2 No. 107.1), File E197259;  cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;  CSAus (CSA C22.2 No. 60950-1, UL 60950-1)	•	V
operating resource protection class  leakage current  • maximum  • typical  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • CSA approval  • CSAus, Class 1, Division 2  Class I  I mA  0.6 mA  IP20  IP20  Approvals  Yes  Certificate of suitability  • CE marking  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; CSAus (CSA C22.2 No. 60950-1, UL 60950-1)  No		
leakage current  • maximum  • typical  protection class IP  Approvals  certificate of suitability  • CE marking  • UL approval  • CSA approval  • CSA approval  • CSA approval  • CSA approval  • CSAus, Class 1, Division 2		
<ul> <li>maximum         <ul> <li>typical</li> <li>0.6 mA</li> </ul> </li> <li>protection class IP</li> <li>IP20</li> <li>Approvals</li> <li>certificate of suitability         <ul> <li>CE marking</li> <li>UL approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>CSA approval</li> <li>CSA cCSA C22.2 No. 60950-1, UL 60950-1</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>CCSAus, Class 1, Division 2</li> </ul> </li> </ul>		Class I
● typical  protection class IP  Approvals  certificate of suitability  ● CE marking  ● UL approval  CSA approval  ● CSA approval	-	
protection class IP  Approvals  certificate of suitability		
Approvals  certificate of suitability		
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		IP20
<ul> <li>CE marking</li> <li>UL approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>CSA approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>cCSAus, Class 1, Division 2</li> </ul>	Approvals	
<ul> <li>UL approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>CSA approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>cCSAus, Class 1, Division 2</li> </ul>	certificate of suitability	
cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  • CSA approval  • cCSAus, Class 1, Division 2  cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  No	CE marking	Yes
<ul> <li>◆ CSA approval</li> <li>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)</li> <li>◆ cCSAus, Class 1, Division 2</li> </ul>	UL approval	
cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  • cCSAus, Class 1, Division 2  No		
• cCSAus, Class 1, Division 2	CSA approval	
	a COAva Class 4 Divinion 0	
• AIEA NO		
	■ AIEX	INU

certificate of suitability	
• IECEx	No
NEC Class 2	No
<ul> <li>ULhazloc approval</li> </ul>	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
<ul> <li>EAC approval</li> </ul>	Yes
C-Tick	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	No
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +70 °C; With natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category acc. 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 0.5 4 mm² single-core/finely stranded
• at output	+: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm²
for auxiliary contacts	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm <sup>2</sup>
width of the enclosure	135 mm
height of the enclosure	145 mm
depth of the enclosure	150 mm
required spacing	
• top	40 mm
• bottom	40 mm
• left	0 mm
● right	0 mm
net weight	3.3 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x15
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, Tl-grey 3RT2900-1SB20
MTBF at 40 °C	517 015 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

