SIEMENS

Data sheet

6EP3437-8SB00-0AY0

SITOP PSU8200 24 V/40 A SITOP PSU8200 24 V/40 A Regulated power supply Input: 3AC 400-500 V Output: 24 V DC/40 A



| Input | |
|--|--|
| Input | 3-phase AC |
| Rated voltage value Vin rated | 400 500 V |
| Voltage range AC | 320 575 V |
| Wide-range input | Yes |
| Mains buffering at lout rated, min. | 10 ms; at Vin = 400 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 400 V | 2.1 A |
| at rated input voltage 500 V | 1.7 A |
| Switch-on current limiting (+25 °C), max. | 13 A |
| l²t, max. | 2.24 A ² ·s |
| Built-in incoming fuse | none |
| Protection in the mains power input (IEC 898) | 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) |

| Rated voltage Vout DC | Output | Controlled, isolated DC voltage |
|--|---|---|
| Static mains compensation, approx. Static load balancing, approx. Residual ripple peak-peak, max. Spikes peak-peak, max. Spikes peak-peak, max. Adjustment range Ves Output voltage adjustable Output voltage setting Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" Minimal overshooting (< 2 %) Statrup delay, max. Onloff behavior Startup delay, max. Voltage increase time of the output voltage maximum Rated current value lout rated 40 A Current range Note Note 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 and short-circuit during during the start-up typical Parallel switchable units for enhanced performance Numbers of parallel switchable units for enhanced performance Numbe | Rated voltage Vout DC | 24 V |
| Static load balancing, approx. Residual ripple peak-peak, max. Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range Product function Output voltage adjustable Yes Output voltage setting Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" On/off behavior Minimal overshooting (< 2 %) Ottage increase time of the output voltage maximum 100 ms Rated current value lout rated 40 A Current range Nota Nota Nota Note 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 on short-circuit during operation Constant overload current on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Profesioncy at Yout rated, lout rated, approx. Power loss at Yout rated, lout rated, approx. Power loss IV Juring no-load operation maximum Prover loss py during no-load operation maximum Output overvoltage protection Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | Total tolerance, static ± | 3 % |
| Residual ripple peak-peak, max. Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range Output voltage setting Via potentiometer; max. 960 W Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" minimal overshooting (< 2 %) Startup delay, max. Voltage increase time of the output voltage maximum Rated current value lout rated 40 A Current range • Note Short-term overfload current • at short-circuit during operation • at short-circuit during operation • at short-circuit during operation • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency Efficiency Efficiency Efficiency Corest I Vout rated, lout rated, approx. Power loss I Vout rated, lout rated, approx. Pow | Static mains compensation, approx. | 0.1 % |
| Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range Product function Output voltage adjustable Ves Ves Green LED for 24 V OK Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" minimal overshooting (< 2 %) Startup delay, max. Voltage increase time of the output voltage maximum Rated current value lout rated 40 A Current range • Note Note 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 • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Pefficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated ±15 %), max. Dynamic hand smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms 240 mV 240 mV 240 mV 240 mV 240 mV 240 minimal overshooting (< 2 %) Startup delay, max. 940 minimal overshooting (| Static load balancing, approx. | 0.8 % |
| Adjustment range 24 28 V Product function Output voltage adjustable Yes Output voltage setting via potentiometer; max. 960 W Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" minimal overshooting (< 2 %) Startup delay, max. 0.1 s Voltage increase time of the output voltage maximum Rated current value lout rated 40 A Current range 0 40 A • Note 460 +70 °C: Derating 5%/K Supplied active power typical 960 W Short-term overload current • at short-circuit during operation typical 25 ms Constant overload current • on short-circuiting during the start-up typical 44 A Parallel switching for enhanced performance Yes; switchable characteristic Efficiency Efficiency at Yout rated, lout rated, approx. 94 % Power loss at Yout rated, lout rated, approx. 94 % Power loss at Yout rated, approx. 94 % Power loss at Yout rated, lout rated ±15 %), max. Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | Residual ripple peak-peak, max. | 150 mV |
| Product function Output voltage adjustable Output voltage setting Via potentiometer; max. 960 W Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" minimal overshooting (< 2 %) Startup delay, max. O.1 s Voltage increase time of the output voltage maximum Rated current value lout rated 40 A • Note • Note • Note • Note 10 ms 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-circuiting during the start-up typical Parallel switching for enhanced performance Fificiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum Visical Solution Visical Solution 1 % Supplied active power typical 960 W 44 A 44 A 45 Parallel switching for enhanced performance Yes; switchable characteristic Ves; switchable characteristic 2 ** Efficiency Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. 94 % Power loss at Vout rated, lout rated, approx. 94 % Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection 43 A Current limitation, typ. | Spikes peak-peak, max. (bandwidth: 20 MHz) | 240 mV |
| Output voltage setting Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" minimal overshooting (< 2 %) Startup delay, max. Voltage increase time of the output voltage maximum Rated current value lout rated 40 A Current range • Note Note Supplied active power typical short-term overload current • at short-circuit during operation typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated ±15 %), max. Dynamic mains compensation (Vin rated ±15 %), max. Dynamic mains compensation (Vin rated ±15 %), max. Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. Val Quently Vok Commanded (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" minimal overshooting (100 Time (NO C) (NO C) (NO C) Max A) On 15 Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" minimal overshooting (100 ms No Max A) On 20 Setting time maximum Via potential overshooting (100 Time) Via potential overshooting (100 | Adjustment range | 24 28 V |
| Status display Green LED for 24 V OK Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" minimal overshooting (< 2 %) Startup delay, max. 0.1 s Voltage increase time of the output voltage maximum 100 ms Rated current value lout rated 40 A Current range • Note • Note • Note • at short-circuit during operation typical Duration of overloading capability for excess current • at short-circuit during operation Constant overload current • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Power loss at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | Product function Output voltage adjustable | Yes |
| Signaling Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" On/off behavior minimal overshooting (< 2 %) Startup delay, max. 0.1 s Voltage increase time of the output voltage maximum 100 ms Rated current value lout rated 40 A Current range 0 40 A • Note +60 +70 °C: Derating 5%/K Supplied active power typical 960 W Short-term overload current • at short-circuit during operation typical 120 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 44 A Parallel switching for enhanced performance Yes; switchable characteristic 2 Rumbers of parallel switchable units for enhanced performance Yes; switchable characteristic 2 Efficiency at Vout rated, lout rated, approx. 94 % Power loss at Vout rated, lout rated, approx. 63 W Power loss (W) during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | Output voltage setting | via potentiometer; max. 960 W |
| On/off behavior Startup delay, max. Otlage increase time of the output voltage maximum Rated current value lout rated 40 A Current range • Note • Note • Note Short-term overload current • at short-circuit during operation typical Duration of overloading capability for excess current • at short-circuit during operation Constant overload current • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss (W) during no-load operation maximum Otlosed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum Output overvoltage protection Current limitation, typ. 43 A | Status display | Green LED for 24 V OK |
| Startup delay, max. Voltage increase time of the output voltage maximum Rated current value lout rated 40 A Current range • Note • Note 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 • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum Velosed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection 2 | Signaling | Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" |
| Voltage increase time of the output voltage maximum Rated current value lout rated 40 A Current range • Note • Note 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 • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum Power loss [W] during no-load operation maximum Olossed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 40 A 41 A 42 A 43 A 44 A 44 A 47 A 48 A 49 A 49 A 49 A 40 A 40 A 40 A 41 A 40 A 41 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 49 A 40 A 40 A 40 A 40 A 40 A 40 A 41 A 41 A 42 A 43 A 44 A 45 A 48 A 49 A 49 A 40 A | On/off behavior | minimal overshooting (< 2 %) |
| Rated current value lout rated 40 A Current range Note Note Note Rated current value lout rated Note | Startup delay, max. | 0.1 s |
| Current range Note Not | Voltage increase time of the output voltage maximum | 100 ms |
| Note +60 +70 °C: Derating 5%/K Supplied active power typical 960 W Short-term overload current • at short-circuit during operation typical 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 Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | Rated current value lout rated | 40 A |
| 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 25 ms Constant overload current on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | Current range | 0 40 A |
| Short-term overload current • at short-circuit during operation typical 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 Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated approx. Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± 3 % typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | • Note | +60 +70 °C: Derating 5%/K |
| • at short-circuit during operation typical Duration of overloading capability for excess current • at short-circuit during operation Constant overload current • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum Volosed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | Supplied active power typical | 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 Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± 1yp. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 44 A 44 A 45 A 46 A 47 A 48 A | Short-term overload current | |
| • at short-circuit during operation Constant overload current • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Pefficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum Olosed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± 1yp. Setting time maximum Protection and monitoring Output overvoltage protection Current limitation, typ. 25 ms 44 A 4 A 4 A 4 A 4 A 4 A 4 A 4 | at short-circuit during operation typical | 120 A |
| Constant overload current • on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum Output overvoltage protection Setting time maximum Protection and monitoring Output overvoltage protection Constant overload current 44 A 44 A 44 A 45 A 44 A 46 A 48 A 49 A 49 A 49 A 40 A 4 | Duration of overloading capability for excess current | |
| on short-circuiting during the start-up typical Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum Volument load smoothing (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 44 A 44 A 44 A 45 A 48 A 49 A 48 A | at short-circuit during operation | 25 ms |
| Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 4 ves; switchable characteristic 2 Yes; switchable characteristic 2 3 W 94 % 63 W 94 % 63 W 94 W 63 W 95 W 96 W 97 W 98 W 98 W 99 W 99 W 90 W | Constant overload current | |
| Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. 94 % Power loss at Vout rated, lout rated, approx. 63 W Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | on short-circuiting during the start-up typical | 44 A |
| Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | Parallel switching for enhanced performance | Yes; switchable characteristic |
| Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | Numbers of parallel switchable units for enhanced | 2 |
| Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± 3 % typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection | performance | |
| Power loss at Vout rated, lout rated, approx. Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection | Efficiency | |
| Power loss [W] during no-load operation maximum 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 4 W | Efficiency at Vout rated, lout rated, approx. | 94 % |
| Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | Power loss at Vout rated, lout rated, approx. | 63 W |
| Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | Power loss [W] during no-load operation maximum | 4 W |
| max. Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | Closed-loop control | |
| Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | Dynamic mains compensation (Vin rated ±15 %), | 1 % |
| typ. Setting time maximum 10 ms Protection and monitoring Output overvoltage protection Current limitation, typ. 43 A | | |
| Setting time maximum 10 ms Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | , | 3 % |
| Protection and monitoring Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | | 40 |
| Output overvoltage protection < 31.8 V Current limitation, typ. 43 A | Setting time maximum | iu ms |
| Current limitation, typ. 43 A | <u>~</u> | |
| | Output overvoltage protection | < 31.8 V |
| Property of the output Short-circuit proof Yes | | 43 A |
| | Property of the output Short-circuit proof | Yes |

| Short-circuit protection | Alternatively, constant current characteristic approx. 44 A or |
|---|--|
| | latching shutdown |
| Enduring short circuit current RMS value | |
| • typical | 48 A |
| Overcurrent overload capability in normal operation | overload capability 150 % lout rated up to 5 s/min |
| Overload/short-circuit indicator | LED yellow for "overload", LED red for "latching shutdown" |

| Safety | |
|---------------------------------|--|
| Primary/secondary isolation | Yes |
| Galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN |
| | 50178 |
| Protection class | Class I |
| Leakage current | |
| • maximum | 1 mA |
| • typical | 0.6 mA |
| CE mark | Yes |
| UL/cUL (CSA) approval | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| FM approval | |
| CB approval | Yes |
| Marine approval | ABS, DNV GL |
| Degree of protection (EN 60529) | IP20 |

| EMC | |
|-----------------------------|------------------|
| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | EN 61000-3-2 |
| Noise immunity | EN 61000-6-2 |

| Operating data | |
|--------------------------------------|------------------------------------|
| 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, no condensation |

| Mechanics | |
|-----------------------------|---|
| Connection technology | screw-type terminals |
| Connections | |
| Supply input | L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded |
| Output | +, -: 2 screw terminals each for 0.5 16 mm² |
| Auxiliary | 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² |
| 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 |
| Weight, approx. | 3.3 kg |
| Product feature of the enclosure housing for side-by- side mounting | Yes |
| Installation | Snaps onto DIN rail EN 60715 35x15 |
| Electrical accessories | Buffer module |
| Mechanical accessories | Device identification label 20 mm × 7 mm, TI-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) |