

SITOP PSU100M 40 A STABILIZED POWER SUPPLY
INPUT: 120/230 V AC OUTPUT: 24 V DC/40 A



Technical specifications

Input

| | |
|--|----------------------|
| Supply voltage / 1 / at AC / nominal value | 120 V |
| Supply voltage / 2 / at AC / nominal value | 230 V |
| Input voltage / 1 / at AC | 85 ... 132 V |
| Input voltage / 2 / at AC | 176 ... 264 V |
| Wide-range input | Nee |
| Mains buffering at lout rated, min. | 20 ms |
| Netfrequentie | 50 / 60 Hz |
| Rated line range | 47 ... 63 Hz |
| Input current / at nominal level of the input voltage 120 V | 15 A |
| Ingangsstroom / bij nominale waarde van de ingangsspanning 230 V | 8 A |
| Switch-on current limiting (+25 °C), max. | 125 A |
| I2t-waarde | 26 A ² ·s |

Output

| | |
|------------------------------------|---|
| Curvevorm van de spanning | Geregelde, potentiaalvrije gelijkspanning |
| Uitgangsspanning | 24 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. | 60 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 200 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 120 mV |
| Adjustment range | 24 ... 28,8 V |
| Product feature / output voltage adjustable | Ja |
| Uitvoering van de weergave | LED groen voor 24 V O.K. |
| Aanspreekvertragingstijd | 0,1 s |
| Spanningsstijgingstijd | 50 ms |
| Rated current value lout rated | 40 A |
| Uitgangsstroom | 0 ... 40 A |
| delivered active power / typ. | 960 W |
| Constant overload current / in the event of a short circuit during startup /typical | 46 A |
| short-term overload current / at short-circuit during operation / typical | 120 A |
| Duration of overloading ability for excess current / on short-circuiting during the operational phase | 25 ms |
| Producteigenschap | Ja |
| Numbers of parallel switchable units for enhanced performance | 2 |
| Efficiency | |
| Efficiency at Vout rated, lout rated, approx. | 88 % |
| Power loss at Vout rated, lout rated, approx. | 131 W |
| Closed-loop control | |
| Dynamic mains compensation (Vin rated ± 15 %), max. | 1 % |
| Dynamic load smoothing (lout: 50/100/50 %), Uout \pm typ. | 2 % |
| Load step setting time 50 to 100%, typ. | 2 ms |
| Load step setting time 100 to 50%, typ. | 2 ms |
| Setting time / maximum | 5 ms |
| Protection and monitoring | |
| Current limitation, typ. | 46 A |
| Eigenschap van de uitgang / kortsluitvast | Ja |
| Enduring short circuit current / Effective level / typical | 46 A |
| Safety | |
| Potentiaalscheiding | Ja |
| Potentiaalscheiding | ZLBS-uitgangsspanning Ua volgens EN 60950-1 en EN 50178 |
| stray current / maximum | 3,5 mA |
| stray current / typical | 0,4 mA |
| Geschiktheidsbewijs | Ja |
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| CB approval | Nee |

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|--|--------------------|
| Beschermingsklasse IP | IP20 |
| EMC | |
| Operating data | |
| Ambient temperature / in operation | 0 ... 70 °C |
| Ambient temperature / on transport | -40 ... +85 °C |
| Ambient temperature / in storage | -40 ... +85 °C |
| Mechanics | |
| Uitvoering elektrische aansluiting | schroefaansluiting |
| Breedte / van de behuizing | 240 mm |
| Hoogte / van de behuizing | 125 mm |
| Diepte / van de behuizing | 125 mm |
| Inbouwbreedte | 240 mm |
| Inbouwhoogte | 225 mm |
| Nettogewicht | 2,9 kg |
| Producteigenschap / van de behuizing / aaneenschakelbare behuizing | Ja |
| Bevestigingswijze / wandmontage | Nee |
| Bevestigingswijze / DIN-railmontage | Ja |
| Mounting type / S7 rail mounting | Nee |
| letzte Änderung: | 19-aug-2014 |