



SITOP PSU100S 24 V/5 A STABILIZED POWER SUPPLY
INPUT: 120/230 V AC OUTPUT: 24 V/5 A DC

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	170 ... 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	2,34 A
Ingangsstroom / bij nominale waarde van de ingangsspanning 230 V	1,36 A
Switch-on current limiting (+25 °C), max.	40 A
I2t-waarde	1 A²·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.	1 %

Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	140 mV
Adjustment range	22,8 ... 28 V
Product feature / output voltage adjustable	Ja
Uitvoering van de weergave	LED groen voor 24 V O.K.
Aanspreekvertragingstijd	0,3 s
Spanningsstijgingstijd	15 ms
Rated current value I _{out} rated	5 A
Uitgangsstroom	0 ... 6 A
delivered active power / typ.	144 W
short-term overload current / at short-circuit during run-up / typical	18 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	800 ms
short-term overload current / at short-circuit during operation / typical	18 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	800 ms
Producteigenschap	Ja
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at V _{out} rated, I _{out} rated, approx.	88 %
Power loss at V _{out} rated, I _{out} rated, approx.	16 W
Closed-loop control	
Dynamic mains compensation (V _{in} rated \pm 15 %), max.	0,3 %
Dynamic load smoothing (I _{out} : 10/90/10 %), U _{out} \pm typ.	3 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Protection and monitoring	
Current limitation	6 ... 7,1 A
Eigenschap van de uitgang / kortsluitvast	Ja
Enduring short circuit current / Effective level / typical	7,1 A
Safety	
Potentiaalscheiding	Ja
Potentiaalscheiding	ZLBS-uitgangsspanning U _a volgens EN 60950-1 en EN 50178
stray current / maximum	3,5 mA
stray current / typical	0,4 mA
Geschiktheidsbewijs	Ja
Geschiktheidsbewijs	Ja
CB approval	Ja

Beschermingsklasse IP	IP20
EMC	
Operating data	
Ambient temperature / in operation	-25 ... +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	50 mm
Hoogte / van de behuizing	125 mm
Diepte / van de behuizing	120 mm
Inbouwbreedte	50 mm
Inbouwhoogte	225 mm
Nettogewicht	0,5 kg
Producteigenschap / van de behuizing / aaneenschakelbare behuizing	Ja
Bevestigingswijze / wandmontage	Nee
Bevestigingswijze / DIN-railmontage	Ja
Mounting type / S7 rail mounting	Nee
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