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6EP1436-2BA10 SITOP PSU300S 24 V/20 A



Product information

Entries

Technical / CAx data

Successor product



As of 2012-02-27



SITOP PSU300S 20 A STABILIZED POWER SUPPLY INPUT: 400-500 V 3 AC OUTPUT: 24 V DC/20 A

rechnical specifications	
Product	SITOP PSU300S
Power supply, type	24 V/20 A
Input	
Input	3-phase AC
Rated voltage value Vin rated	400500 V
Voltage range	340550 V
Wide-range input	Yes
Mains buffering at lout rated, min.	6 ms
Mains buffering	at Vin = 400 V
Rated line frequency	50/60 Hz
Rated line range	4763 Hz
Input current / at nominal level of the input voltage 400 V	1.2 A
Input current / at nominal level of the input voltage 500 V	1 A
Switch-on current limiting (+25 °C), max.	36 A
Inrush current A ² s	0.9 A ² ·s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	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	

Rated voltage 24 V Total tolerance, static ± 3 % Static mains compensation, approx. 0.5 % Static load balancing, approx. 1 % Residual ripple peak-peak, max. 150 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 240 mV Adjustment range 2428 V Product feature / output voltage adjustable Yes Output voltage setting via potentio • Note max. 480 W Status display Green LED	
Static mains compensation, approx. Static load balancing, approx. Residual ripple peak-peak, max. Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range Product feature / output voltage adjustable Output voltage setting Note Note	
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Output voltage setting Note via potentio max. 480 W	
• Note max. 480 W	_
• 140fe	meter
Status display Green LFD	1
The state of the s	for 24 V OK
	act (NO contact, rating 60 V for "24 V OK"
On/off behavior No oversho	ot of Vout (soft start)
Startup delay, max. 1.5 s	
Voltage rise, typ. 30 ms	
Voltage increase time / of the output voltage / 500 ms maximum	
Rated current value lout rated 20 A	
Current range 020 A	
• Note 10 A up to +	-70 °C, 24 A up to +45 °C
delivered active power / typ. 480 W	
short-term overload current / at short-circuit during run- up / typical 35 A	
Duration of overloading ability for excess current / on short-circuiting during the start-up	
short-term overload current / at short-circuit during operation / typical 35 A	
Duration of overloading ability for excess current / on short-circuiting during the operational phase	
Parallel switching for enhanced performance Yes	
Numbers of parallel switchable units for enhanced 2 performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx. 91 %	
Power loss at Vout rated, lout rated, approx. 47 W	
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max. 3 %	
Dynamic load smoothing (lout: 50/100/50 %), Uout ± 3 % typ.	
Load step setting time 50 to 100%, typ. 2 ms	
Load step setting time 100 to 50%, typ. 2 ms	
Setting time / maximum 10 ms	
Protection and monitoring	
	ling to EN 60950
Current limitation, typ. 25 A	
Characteristic feature of the output / short-circuit Yes protected	
Short-circuit protection Electronic s	hutdown, automatic restart

Enduring short circuit current / Effective level / typical	
•• •	
Note	overload capability 150 % lout rated up to 5 s/min
Safety	<u> </u>
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage Vout according to EN 60950-1 and EN 50178
Protection class	Class I
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	ATEX (EX) II 3G Ex nAC IIC T4
CB approval	Yes
Marine approval	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 / in operation	070 ℃
Note	with natural convection
Ambient temparature / on transport	-40+85 ℃
Ambient temparature / in storage	-40+85 ℃
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 0.2 4 mm ² single-core/finely stranded
Connections / Output	+, -: 2 screw terminals each for 0.2 4 mm ²
Connections / Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²
Width / of the housing	90 mm
Height / of the housing	145 mm
Depth / of the housing	150 mm
Installation width	90 mm
Mounting height	225 mm
Weight, approx.	1.6 kg
Product feature / of the housing / housing for side-by-	Yes
side mounting	No
side mounting Type of mounting / wall mounting	NO
	Yes
Type of mounting / wall mounting	

Electrical accessorie	es es	Redundancy module
Mechanical accesso	ories	Device identification label 20 mm × 7 mm, pastel-turpuoise 3RT1900-1SB20
Other information		Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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etzte Änderung:		Feb 27, 2012

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