## **SIEMENS**

Product data sheet 6EP1434-2BA10



SITOP PSU300S 10 A STABILIZED POWER SUPPLY INPUT: 3 400-500 V 3AC OUTPUT: 24 V DC/10 A

Technical specifications		
Product	SITOP PSU300S	
Power supply, type	24 V/10 A	
Input		
Input	3-phase AC	
Supply voltage		
• at AC	400 500 V	
Voltage range	340 550 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	47 63 Hz	
Input current / at nominal level of the input voltage 400 V	0.7 A	
Input current / at nominal level of the input voltage 500 V	0.5 A	
Switch-on current limiting (+25 °C), max.	36 A	
I²t, max.	0.9 A²-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	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	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	24 28 V
Product feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer
• Note	max. 240 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"
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	1.5 s
Voltage rise, typ.	30 ms
Voltage increase time / of the output voltage / maximum	500 ms
Rated current value lout rated	10 A
Current range	0 10 A
• Note	12 A up to +45 °C
delivered active power / typ.	240 W
short-term overload current / at short-circuit during run-up / typical	16 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	100 ms
short-term overload current / at short-circuit during operation / typical	16 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	100 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	91 %
Power loss at Vout rated, lout rated, approx.	24 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	3 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	3 %
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	

Output overvoltage protection	protection against overvoltage in case of internal fault Vout < 35 V
Current limitation, typ.	11 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current / Effective level / maximum	3.2 A
Enduring short circuit current / Effective level / typical	
• Note	overload capability 150 % lout rated up to 5 s/min
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage Uout acc. 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; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
FM approval	-
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	0 70 °C
• Note	with natural convection
Ambient temperature / on transport	-40 +85 °C
Ambient temperature / in 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 0.2 4 mm² single-core/finely stranded
Connections / Output	+, -: 2 screw terminals each for 0.2 4 mm <sup>2</sup>
Connections / Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>
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-side mounting	Yes
Mounting type / wall mounting	No
Type of mounting / standard rail mounting	Yes
Mounting type / S7 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module
Mechanical accessories	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)

letzte Änderung:

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