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

SITOP PSU300S
24 V/10 A
3-phase AC
400 500 V
340 550 V
Yes
6 ms
at Vin = 400 V
50 / 60 Hz
47 63 Hz
0.7 A
0.5 A
36 A
0.9 A²·s
none
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	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	Yes, according to EN 60950

	es lectronic shutdown, automatic restart 2 A verload capability 150 % lout rated up to 5 s/min
ing short circuit current / Effective level / maximum 3.2	.2 A
•	
ng short circuit current / Effective level / typical	verload capability 150 % lout rated up to 5 s/min
ing short official current? Effective fever? typical	verload capability 150 % lout rated up to 5 s/min
ove over	
,	
ry/secondary isolation Ye	es
	afety extra-low output voltage Uout acc. to EN 60950-1 and EN 0178
ction class Cla	lass I
ark Ye	es
A approval Ye	es
	ULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; CSAus (CSA C22.2 No. 60950-1, UL 60950-1)
	TEX (EX) II 3G Ex nAC IIC T4; cCSAus (CSA C22.2 No. 213, NSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
proval	es
e approval GL	iL
e of protection (EN 60529)	220
d interference EN	N 55022 Class B
harmonics limitation EN	N 61000-3-2
immunity EN	N 61000-6-2
ting data	
nt temperature / in operation 0.	70 °C
ote wit	ith natural convection
nt temperature / on transport -40	10 +85 °C
nt temperature / in storage -40	10 +85 °C
lity class according to EN 60721	limate class 3K3, no condensation
anics	
ection technology scr	crew-type terminals
	1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single- ore/finely stranded
ections / Output +,	, -: 2 screw terminals each for 0.2 4 mm²
ections / Auxiliary 13	3, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²
/ of the housing 90	0 mm
t / of the housing	45 mm
/ of the housing	50 mm
ation width 90	0 mm
ing height 22:	25 mm

Weight, approx.	1.6 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No
Type of fixing / cap rail mounting	Yes
Type of mounting / S7-300 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:

Oct 28, 2013