SIEMENS

Data sheet 6EP1437-3BA20



SITOP PSU300B/3AC/24VDC/30A

**** spare part **** SITOP PSU300B 30 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/30 A successor: 6EP3437-8UB00-0AY0

Input	
type of the power supply network	3-phase AC
supply voltage at AC	
minimum rated value	400 V
maximum rated value	500 V
• initial value	320 V
• full-scale value	575 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 400 V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	
1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 400 V 	1.6 A
 at rated input voltage 500 V 	1.3 A
current limitation of inrush current at 25 °C maximum	56 A
I2t value maximum	2.24 A²·s
fuse protection type	none
• in the feeder	Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
 at output 1 at DC rated value 	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
 on slow fluctuation of ohm loading 	0.1 %
residual ripple	
• maximum	100 mV
voltage peak	
• maximum	200 mV
adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK

type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	2.5 s
voltage increase time of the output voltage	2.00
maximum	500 ms
output current	
• rated value	30 A
• rated range	0 30 A; +60 +70 °C: Derating 1.7%/K
supplied active power typical	960 W
constant overload current	
on short-circuiting during the start-up typical	32 A
at short-circuit during operation typical	32 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing	2
the power	
Efficiency	
efficiency in percent	93 %
power loss [W]	
at rated output voltage for rated value of the output current typical	50 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
setting time	
• maximum	10 ms
Protection and monitoring	
design of the overvoltage protection	< 35 V
• typical	32 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 32 A or latching shutdown
enduring short circuit current RMS value	
• typical	32 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	2.5 mA
• maximum	3.5 mA
protection class IP	IP20
Approvals	
certificate of suitability	Voo
CE marking	Yes
UL approval CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval CSSAva Class 1. Division 2.	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• cCSAus, Class 1, Division 2	No No
ATEX Contificate of quitability.	No
certificate of suitability	Me
• IECEX	No No
NEC Class 2 Ul hazlag approval	No No
ULhazloc approval FM registration	No No
FM registration Three of cartification CP, cartificate	No No
type of certification CB-certificate	No
certificate of suitability	Von
EAC approval cortificate of suitability shiphuilding approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval Marine classification association	-
	No
American Bureau of Shipping Europe Ltd. (ABS)	No

No
No
No
No
EN 55022 Class B
EN 61000-3-2
EN 61000-6-2
-25 +70 °C; with natural convection
-40 +85 °C
-40 +85 °C
Climate class 3K3, 5 95% no condensation
screw-type terminals
L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
+, -: 2 screw terminals each for 0.33 10 mm ²
13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²
150 mm
125 mm
150 mm
50 mm
50 mm
0 mm
0 mm
3.4 kg
Yes
Snaps onto DIN rail EN 60715 35x15
Buffer module
Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
885 739 h
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

