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
12t value maximum	2.24 A ² ·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

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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	
• 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	2
increasing the power	
Efficiency	20.04
efficiency in percent	93 %
power loss [W]	
at rated output voltage for rated value of the output current typical	50 W
current typical	
Closed-loop control	1.00
relative control precision of the output voltage with rapid	1 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of	3 %
resistive load 50/100/50 % typical	3 //
setting time	
• maximum	10 ms
Protection and monitoring	
Protection and monitoring design of the overvoltage protection	< 35 V
design of the overvoltage protection	< 35 V 32 A
design of the overvoltage protection response value current limitation typical	32 A
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certificate of suitability shipbuilding approval	No
shipbuilding approval	
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
DNV GL	No
	No
Lloyds Register of Shipping (LRS) Nippon Kajii Kyakaj (NK)	No
Nippon Kaiji Kyokai (NK)	NO
EMC	
standard	EN 55000 Ol D
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +70 °C; with natural convection
 during transport 	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.33 10 mm ²
 for auxiliary contacts 	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²
width of the enclosure	150 mm
height of the enclosure	125 mm
depth of the enclosure	150 mm
required spacing	
 ◆ top 	50 mm
• bottom	50 mm
• left	0 mm
● right	0 mm
net weight	3.4 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x15
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	885 739 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

