## **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	
<ul> <li>at rated input voltage 400 V</li> </ul>	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	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	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 3.	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

<ul> <li>French marine classification society (BV)</li> </ul>	No
• DNV GL	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	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 mm² single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.33 10 mm <sup>2</sup>
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>
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)

