SIEMENS

Data sheet 6EP1433-2BA20



SITOP PSU300S/3AC/24VDC/5A

SITOP PSU300S 24 V/5 A Stabilized power supply input: 400-500 V 3 AC output: 24 V DC/5 A *Ex approval no longer available*

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 340 V 550 V • full-scale value 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 18 ms event of power failure minimum at Vin = 400 V operating condition of the mains buffering 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 0.45 A • at rated input voltage 500 V 0.4 A current limitation of inrush current at 25 °C maximum 20 A 12t value maximum 0.5 A2-s fuse protection type • in the feeder Required: 3-pole connected miniature circuit breaker 3 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or

Output

voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage 24 V • at output 1 at DC rated value 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 200 mV • maximum voltage peak • maximum 240 mV adjustable output voltage 24 ... 28 V product function output voltage adjustable Yes type of output voltage setting via potentiometer; max. 120 W; max. 120 W display version for normal operation Green LED for 24 V OK

3RV2711-1DD10 (UL 489-listed, DIVQ)

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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	Overshoot of Vout < 5 %
response delay maximum	1.5 s
voltage increase time of the output voltage	22
• typical	60 ms
• maximum	500 ms
output current	
rated value	5 A
• rated range	0 5 A; 6 A up to +45°C; +60 +70 °C: Derating 5%/K
supplied active power typical	120 W
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	89.5 %
power loss [W]	
at rated output voltage for rated value of the output	14 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid	1 %
fluctuation of the input voltage by +/- 15% typical	4.0/
relative control precision of the output voltage load step of	1 %
resistive load 50/100/50 % typical setting time	
S	3 ms
load step 50 to 100% typicalload step 100 to 50% typical	3 ms
relative control precision of the output voltage at load step	3 %
of resistive load 10/90/10 % typical	3 //
setting time	
● load step 10 to 90% typical	4 ms
• load step 90 to 10% typical	4 ms
maximum	10 ms
Protection and monitoring	
Protection and monitoring design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 35 V
Protection and monitoring design of the overvoltage protection • typical	protection against overvoltage in case of internal fault Vout < 35 V 6.6 A
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• C-Tick	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	No
DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (NK) 	No
EMC	
standard	
 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 0.05 2.5 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.2 2.5 mm²
 for auxiliary contacts 	13, 14 (alarm signal): 1 screw terminal each for 0.2 2.5 mm ²
width of the enclosure	50 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
net weight	0.5 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Redundancy module, buffer module, selectivity module, DC UPS
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
MTBF at 40 °C	500 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

