SIEMENS

Data sheet 6EP1436-2BA10



SITOP PSU300S/3AC/24VDC/20A

SITOP PSU300S 20 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/20 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
• full-scale value	550 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	6 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 	1.2 A
at rated input voltage 500 V	1 A
current limitation of inrush current at 25 °C maximum	36 A
12t value maximum	0.9 A²-s
fuse protection type	none
• in the feeder	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-listed, DIVQ)
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 	0.5 %
 on slow fluctuation of ohm loading 	1 %
residual ripple	
• maximum	150 mV
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. 480 W

deplay evalue for normal operation per of signal at output behavior of the output voltage when switching on some signal provides the evalue of the output voltage shopping organized the evalue of the output voltage shopping active power typical short-cruit during peraterin product feature short-cruit during peraterin short-cruit during short-cruit cruit cruit voltage with rapid short-cruit during short-cruit cruit cruit voltage with rapid short-cruit during short-cruit cruit cruit cruit cruit short-cruit cruit c		
Interest of the output voltage when switching on 1.5 s 1	display version for normal operation	Green LED for 24 V OK
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voltage increase time of the output voltage * typical * spical * spical * possible device * cated value * cated value * cated value * cated value * cated range * on anoth-cruding during the start-up typical * on short-foculing during the start-up * of short-foculing during the start-up * on short-foculing and short-foculing the sho	behavior of the output voltage when switching on	No overshoot of Vout (soft start)
* spical * sparamum * control current * lated value * created range * created current	response delay maximum	1.5 s
* maximum Output current * rated value * rated value power typical * at short-dirouting during the start-up typical * at short-dirouting during generation typical * rated value during operation typical * rated value during operation * rated value of the output value of the out	voltage increase time of the output voltage	
output current • rated value • rated value • rated range 0	• typical	30 ms
Interest value Interest range Inter	• maximum	500 ms
e-rated range	output current	
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	CE marking	Yes
,	UL approval	

CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	7,55,5117 52
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	NO
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	EN 01000 0 2
ambient temperature	
during operation	-25 +60 °C; with natural convection
	-40 +85 °C
during transportduring storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	Olimate class sto, 5 55 /6 fib condensation
type of electrical connection	screw-type terminals
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely
e at output	stranded
at output for a william contacts	+, -: 2 screw terminals each for 0.2 4 mm ²
• for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.05 2.5 mm ²
width of the enclosure	90 mm 145 mm
height of the enclosure depth of the enclosure	145 mm
required spacing	100 (1)
	40 mm
top bottom	40 mm
	0 mm
• left	0 mm
• right	1.6 kg
net weight	Yes
product feature of the enclosure housing can be lined up	
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)

