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

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	
wide range input	Yes	
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	50/60 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	
I2t value maximum	0.9 A²·s	
fuse protection type	none	
fuse protection type 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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	24 28 V; max. 480 W	
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	
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	1.5 s	

voltage increase time of the output voltage		
• typical	30 ms	
maximum	500 ms	
output current		
• rated value	20 A	
rated range	0 20 A	
supplied active power typical	480 W	
short-term overload current	400 VV	
	25 A	
on short-circuiting during the start-up typical	35 A	
at short-circuit during operation typical	35 A	
duration of overloading capability for excess current	400	
on short-circuiting during the start-up	100 ms	
at short-circuit during operation	100 ms	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency		
	04.0/	
efficiency in percent	91 %	
power loss [W]	47.14	
 at rated output voltage for rated value of the output current typical 	47 W	
closed-loop control		
relative control precision of the output voltage with rapid	3 %	
fluctuation of the input voltage by +/- 15% typical	5 /5	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %	
setting time		
● load step 50 to 100% typical	2 ms	
● load step 100 to 50% typical	2 ms	
relative control precision of the output voltage at load step of	3 %	
resistive load 10/90/10 % typical		
setting time		
 load step 10 to 90% typical 	2 ms	
 load step 90 to 10% typical 	2 ms	
• maximum	10 ms	
protection and monitoring		
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 35 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Electronic shutdown, automatic restart	
• typical	25.5 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
maximum	7 A	
safety		
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178, transformer acc. to EN 61558-2-16	
operating resource protection class	Class I	
leakage current	GIAGO I	
-	3.5 m∆	
• maximum	3.5 mA	
• typical	1 mA	
protection class IP	IP20	
EMC		
standard	FN FF000 Class D	
for emitted interference	EN 55022 Class B	
for mains harmonics limitation	EN 61000-3-2	
for interference immunity	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability		
CE marking	Yes	
 UL approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	

	(CSA C22.2 No. 60950-1, UL 60950-1)	
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
- LIVOA magricina	(CSA C22.2 No. 60950-1, UL 60950-1)	
UKCA marking FAC approval.	Yes	
EAC approval NEC Class 2	Yes	
SEMI F47	Yes	
type of certification	165	
BIS	Yes; R-41183539	
CB-certificate	Yes	
MTBF at 40 °C	500 000 h	
standards, specifications, approvals hazardous environments	000 000 11	
certificate of suitability		
• IECEx	No	
• ATEX	No	
ULhazloc approval	No	
• cCSAus, Class 1, Division 2	No	
• FM registration	No	
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	
Marine classification association		
American Bureau of Shipping Europe Ltd. (ABS)	Yes	
French marine classification society (BV)	No	
Det Norske Veritas (DNV)	Yes	
Lloyds Register of Shipping (LRS)	No	
standards, specifications, approvals Environmental Product Dec	claration	
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	1 500 kg	
during manufacturing	31.6 kg	
during operation	1 470 kg	
after end of life	0.48 kg	
ambient conditions		
ambient temperature		
during operation	-25 +60; with natural convection	
during transport	-40 +85	
during storage	-40 +85	
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation	
connection method		
type of electrical connection	screw terminal	
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded	
• at output	+, -: 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	
mechanical data		
width × height × depth of the enclosure	90 × 145 × 150 mm	
installation width × mounting height	90 mm × 225 mm	
required spacing		
• top	40 mm	
• bottom	40 mm	
• left	0 mm	
• right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	
DIN-rail mounting	Yes	
S7 rail mounting	No.	
wall mounting	No Voc	
housing can be lined up	Yes	
net weight	1.6 kg	
accessories	Padundanay modulo, huffar madulo, palasticity madulo, DO LIDO	
electrical accessories	Redundancy module, buffer module, selectivity module, DC UPS	
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20	

internet link

• to website: Industry Mall

• to web page: selection aid TIA Selection Tool

• to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support

https://siemens.com/cax https://support.industry.siemens.com

https://siemens.com/sitop

https://mall.industry.siemens.com

https://www.siemens.com/tstcloud

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

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	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

Manufacturer Declaration

Declaration of Conformity



General Product Approval

Marine / Shipping

Environment



BIS CRS







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