SIEMENS

Data sheet 6EP1436-3BA00



SITOP MODULAR/3AC/24VDC/20A

SITOP modular 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 supply voltage at AC

- minimum rated value
- maximum rated value
- initial value
- full-scale value

design of input wide range input overvoltage overload capability

operating condition of the mains buffering

buffering time for rated value of the output current in the event of power failure minimum

operating condition of the mains buffering

line frequency

- 1 rated value
- 2 rated value

line frequency input current

- at rated input voltage 400 V
- at rated input voltage 500 V

current limitation of inrush current at 25 °C maximum

I2t value maximum fuse protection type

• in the feeder

3-phase AC

400 V

500 V

320 V; Starting from Vin > 340 V

550 V

Yes

2.3 × Vin rated, 1.3 ms

at Vin = 400 V

6 ms

at Vin = 400 V

50 Hz

60 Hz

47 ... 63 Hz

1.1 A

0.9 A

35 A 0.7 A²·s

none

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)

Output

voltage curve at output

output voltage at DC rated value

output voltage

• at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage

• on slow fluctuation of input voltage

• on slow fluctuation of ohm loading

residual ripple

maximum

voltage peak

maximum

adjustable output voltage

product function output voltage adjustable

type of output voltage setting

Controlled, isolated DC voltage

24 V

24 V

3 %

0.1 % 0.2 %

100 mV

200 mV

24 ... 28.8 V

Yes

via potentiometer; max. 480 W

display version for normal operation	Green LED for 24 V OK
type of signal at output	via signaling module (6EP1961-3BA10)
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	20 A
rated range	0 20 A; +60 +70 °C: Derating 2%/K
supplied active power typical	480 W
short-term overload current	100 11
	60 A
at short-circuit during operation typical duration of everlanding appailing for everyone.	00 A
duration of overloading capability for excess current	05
at short-circuit during operation	25 ms
constant overload current	00.4
on short-circuiting during the start-up typical	23 A
product feature	
 bridging of equipment 	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	90 %
power loss [W]	
 at rated output voltage for rated value of the output 	53 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid	1 %
fluctuation of the input voltage by +/- 15% typical	1 /0
relative control precision of the output voltage load step of	2 %
resistive load 50/100/50 % typical	
setting time	
● load step 50 to 100% typical	4 ms
	4 770
 load step 100 to 50% typical 	4 ms
 load step 100 to 50% typical setting time 	4 ms
setting time	10 ms
setting time • maximum	
setting time • maximum Protection and monitoring	10 ms
setting time • maximum Protection and monitoring design of the overvoltage protection	10 ms < 35 V
setting time	10 ms < 35 V 23 A
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emaximum Protection and monitoring design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability • CE marking • UL approval • CSA approval • CCSAus, Class 1, Division 2	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 Yes Yes Yes Yes Suffety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA IP20 Yes
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• EM registration	No
FM registration Type of partification CR contificate	No
type of certification CB-certificate	NO
certificate of suitability	Yes
EAC approval Actificate of quitability abin building approval	Yes
certificate of suitability shipbuilding approval	
shipbuilding approval Marine classification association	ABS, GL
	Yes
American Bureau of Shipping Europe Ltd. (ABS) French marine classification againty (RV)	
 French marine classification society (BV) DNV GL 	No Yes
	No
Lloyds Register of Shipping (LRS)Nippon Kaiji Kyokai (NK)	No
EMC	110
standard	EN 55022 Class P
for emitted interference 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	0 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 4 mm ²
 for auxiliary contacts 	-
width of the enclosure	160 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
 top 	50 mm
bottom	50 mm
• left	0 mm
• right	0 mm
net weight	2 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	Buffer module, signaling module
MTBF at 40 °C	711 213 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

