## **SIEMENS**

Data sheet 6EP1336-3BA00



## SITOP MODULAR/1AC/24VDC/20A

SITOP modular 20 A Stabilized power supply input: 120/230 V AC output: 24 V DC/20 A \*Ex approval no longer available\*

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Set by means of wire jumper on the device; starting from Vin > 93/183 V
supply voltage	
<ul> <li>1 at AC rated value</li> </ul>	120 V
• 2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	176 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 230 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 = 230 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 120 V</li> </ul>	7.7 A
<ul> <li>at rated input voltage 230 V</li> </ul>	3.5 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	9.9 A <sup>2</sup> ·s
fuse protection type	Yes
• in the feeder	Recommended miniature circuit breaker at 1-phase operation: 10 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2411-1JA10 (120 V) or 3RV2411-1FA10 (230 V)
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
<ul> <li>at output 1 at DC rated value</li> </ul>	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 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.1 %

residual ripple	
• maximum	100 mV
• typical	30 mV
voltage peak	
• maximum	200 mV
• typical	60 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	via signaling module (6EP1961-3BA10)
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	0.1 s
voltage increase time of the output voltage	
• typical	50 ms
output current	
<ul> <li>rated value</li> </ul>	20 A
rated range	0 20 A; +60 +70 °C: Derating 3.5%/K
supplied active power typical	480 W
short-term overload current	
at short-circuit during operation typical	60 A
duration of overloading capability for excess current	
at short-circuit during operation	25 ms
constant overload current	
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 increasing the power	2
Efficiency	
efficiency in percent	89 %
efficiency in percent power loss [W]	89 %
power loss [W]  • at rated output voltage for rated value of the output	89 % 59 W
power loss [W]  • at rated output voltage for rated value of the output current typical	
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Approvals	
certificate of suitability	
• CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• cCSAus, Class 1, Division 2	No
ATEX	No
certificate of suitability	110
IECEx	No
NEC Class 2	No No
	No No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	No No
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, GL
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	No
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	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	214 01000 0 2
ambient temperature	
during operation	0 70 °C; with natural convection
	-40 +85 °C
during transport	
during storage	40 +85 °C
environmental category acc. to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
at input	L, N, PE: 1 screw terminal each for 0.2 4 mm <sup>2</sup> single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.5 4 mm²
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	2.2 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	786 164 h
other information	Specifications at rated input voltage and ambient temperature +25 °C
one mornator	(unless otherwise specified)

