## SIEMENS

## Data sheet

## 6EP1336-3BA00-8AA0



\*\*\*\* spare part \*\*\*\* SITOP modular plus 20 A Stabilized power supply input: 120/230 V AC, output: 24 V DC/20 A Option for with protective varnish



Figure similar

Input	
type of the power supply network	1-phase and 2-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
<ul> <li>2 at AC rated value</li> </ul>	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	
<ul> <li>1 rated value</li> </ul>	50 Hz
<ul> <li>2 rated value</li> </ul>	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

	00 N/
• 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 response delay maximum	Overshoot of Vout approx. 3 % 0.1 s
voltage increase time of the output voltage	0.13
typical	50 ms
output current	50 113
rated value	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	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	23 A
product feature	
<ul> <li>bridging of equipment</li> </ul>	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	89 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output</li> </ul>	59 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid	1 %
fluctuation of the input voltage by +/- 15% typical	<b>• *</b>
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %
setting time	
<ul> <li>load step 50 to 100% typical</li> </ul>	2 ms
<ul> <li>load step 100 to 50% typical</li> </ul>	2 ms
setting time	2 110
• maximum	5 ms
Protection and monitoring	
	< 35 V
design of the overvoltage protection	< 35 V 23 A
design of the overvoltage protection • typical	23 A
design of the overvoltage protection • typical property of the output short-circuit proof	23 A Yes
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<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
<ul> <li>ULhazloc approval</li> </ul>	No
<ul> <li>FM registration</li> </ul>	No
type of certification CB-certificate	No
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
DNV GL	No
Lloyds Register of Shipping (LRS)	No
	No
Nippon Kaiji Kyokai (NK)	NU
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	0 70 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
<ul> <li>during storage</li> </ul>	-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	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 mm <sup>2</sup>
<ul> <li>for auxiliary contacts</li> </ul>	•
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 (unless otherwise specified)

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