## **SIEMENS**

Data sheet 6EP1336-3BA00



SITOP Modular/1AC/DC24V/20A

SITOP modular 20 A stabilized power supply input: 120/230 V AC output: 24 V DC/20 A

Figure similar

input				
type of the power supply network	1-phase AC			
supply voltage at AC	Set by means of wire jumper on the device; starting from Vin > 93/183 V			
supply voltage	120 V/230 V			
input voltage 1 at AC	85 132 V			
input voltage 2 at AC	176 264 V			
wide range input	No			
overvoltage overload capability	2.3 × Vin rated, 1.3 ms			
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	50/60 Hz			
line frequency	47 63 Hz			
input current				
<ul> <li>at rated input voltage 120 V</li> </ul>	7.7 A			
at rated input voltage 230 V	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			
fuse protection type 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				
at output 1 at DC rated value	24 V			
output voltage adjustable	Yes; via potentiometer			
adjustable output voltage	24 28.8 V			
relative overall tolerance of the voltage	3 %			
relative control precision of the output voltage				
on slow fluctuation of input voltage	0.1 %			
on slow fluctuation of ohm loading	0.1 %			
residual ripple				
• maximum	100 mV			
• typical	30 mV			
voltage peak				
• maximum	200 mV			
• typical	60 mV			

diapley version for permet an existing	Croon LED for 24 V OV	
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	20.4	
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		
on short-circuiting during the start-up typical	23 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency		
efficiency in percent	89 %	
power loss [W]		
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	59 W	
closed-loop control		
relative control precision of the output voltage with rapid	1 %	
fluctuation of the input voltage by +/- 15% typical	1 70	
relative control precision of the output voltage load step of	2 %	
resistive load 50/100/50 % typical		
setting time		
<ul> <li>load step 50 to 100% typical</li> </ul>	2 ms	
● load step 100 to 50% typical	2 ms	
setting time		
maximum	5 ms	
protection and monitoring		
design of the overvoltage protection	< 35 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 23 A or latching shutdown	
• typical	23 A	
enduring short circuit current RMS value		
• typical	23 A	
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
safety		
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
operating resource protection class	Class I	
leakage current		
• maximum	3.5 mA	
• typical	0.4 mA	
protection class IP	IP20	
EMC		
standard		
• for emitted interference	EN 55022 Class B	
<ul> <li>for mains harmonics limitation</li> </ul>	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	
<ul><li>UL approval</li><li>CSA approval</li></ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	

EAC approval	Yes
<ul> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes
NEC Class 2	No
• SEMI F47	Yes
type of certification	
CB-certificate	No
MTBF at 40 °C	786 164 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
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
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	1 881.8 kg
<ul> <li>during manufacturing</li> </ul>	34.7 kg
<ul> <li>during operation</li> </ul>	1 846.1 kg
after end of life	0.5 kg
ambient conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	0 70 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	screw terminal
• at input	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
<ul><li>at output</li></ul>	+, -: 2 screw terminals each for 0.5 4 mm²
<ul> <li>for auxiliary contacts</li> </ul>	
mechanical data	
width × height × depth of the enclosure	160 × 125 × 125 mm
installation width × mounting height	160 mm × 225 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
standard rail mounting	Yes
<ul> <li>S7 rail mounting</li> </ul>	No
wall mounting	No
housing can be lined up	Yes
net weight	2.2 kg
accessories	
electrical accessories	Buffer module, signaling module
further information internet links	
internet link	
• to website: Industry Mall	https://mall.industry.siemens.com
to website: Industrial communication	https://siemens.com/industrial-communication
• to website: CAx-Download-Manager	https://siemens.com/cax

• to website: Industry Online Support

https://support.industry.siemens.com

## additional information

other information

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

## security information

security information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Classifications

	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 Declara-

Declaration of Conformity







**General Product Approval** 

Marine / Shipping

**Environment** 

Miscellaneous









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8/28/2024