# **SIEMENS**

Data sheet 6EP1336-3BA00



Figuresimilar

# SITOP Modular/1AC/DC24V/20A

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

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 A²-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		
<ul> <li>on slow fluctuation of input voltage</li> </ul>	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	

dienlay varsion for normal eneration	Croon LED for 24 V OK
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	
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	
<ul> <li>at short-circuit during operation typical</li> </ul>	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
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]	
at rated output voltage for rated value of the output	59 W
current typical	
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %
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
● 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
for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-3-2 EN 61000-6-2
standards, specifications, approvals	
-	
certificate of suitability	Vee
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul> <li>CSA approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
UKCA marking	Yes

<ul><li>EAC approval</li></ul>	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
• cCSAus, Class 1, Division 2	No
• FM registration	No
standards, specifications, approvals marine classification	
	Yes
shipbuilding approval	Tes
Marine classification association	V
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)      CANA	No
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product De	
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	
during operation	0 70; 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
type of electrical connection	screw terminal  I. N. PE: 1 screw terminal each for 0.2. 4 mm² single-core/finely stranded
• at input	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
<ul><li>at input</li><li>at output</li></ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm²
<ul><li>at input</li><li>at output</li><li>for auxiliary contacts</li></ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data width × height × depth of the enclosure	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -
at input     at output     for auxiliary contacts  mechanical data  width × height × depth of the enclosure installation width × mounting height	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -
at input  at output  for auxiliary contacts  mechanical data  width × height × depth of the enclosure  installation width × mounting height  required spacing	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm 160 mm × 225 mm
at input  at output  for auxiliary contacts  mechanical data  width × height × depth of the enclosure  installation width × mounting height  required spacing  top	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data width × height × depth of the enclosure installation width × mounting height required spacing <ul> <li>top</li> <li>bottom</li> </ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm
at input  at output  for auxiliary contacts  mechanical data  width × height × depth of the enclosure  installation width × mounting height  required spacing  top	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data width × height × depth of the enclosure installation width × mounting height required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data width × height × depth of the enclosure installation width × mounting height required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> </ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm 160 mm × 225 mm  50 mm 50 mm 0 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data width × height × depth of the enclosure installation width × mounting height required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm 160 mm × 225 mm  50 mm 50 mm 0 mm
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data width × height × depth of the enclosure installation width × mounting height required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> fastening method	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm 160 mm × 225 mm  50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data width × height × depth of the enclosure installation width × mounting height required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> fastening method <ul> <li>standard rail mounting</li> </ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm  50 mm  0 mm  0 mm  Snaps onto DIN rail EN 60715 35x7.5/15  Yes
at input  at output  for auxiliary contacts  mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing  top  bottom  left  right  fastening method  standard rail mounting  S7 rail mounting	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm²  -  160 × 125 × 125 mm  160 mm × 225 mm  50 mm  0 mm  0 mm  Snaps onto DIN rail EN 60715 35x7.5/15 Yes No
at input at output for auxiliary contacts  mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm 160 mm × 225 mm  50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data <ul> <li>width × height × depth of the enclosure</li> <li>installation width × mounting height</li> </ul> required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> fastening method <ul> <li>standard rail mounting</li> <li>S7 rail mounting</li> <li>wall mounting</li> </ul> housing can be lined up	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm 160 mm × 225 mm  50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data <ul> <li>width × height × depth of the enclosure</li> <li>installation width × mounting height</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> fastening method <ul> <li>standard rail mounting</li> <li>S7 rail mounting</li> <li>wall mounting</li> </ul> housing can be lined up <ul> <li>net weight</li> </ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm  50 mm  0 mm  Snaps onto DIN rail EN 60715 35x7.5/15  Yes  No  No  Yes  2.2 kg
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data width × height × depth of the enclosure <ul> <li>installation width × mounting height</li> </ul> required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> fastening method <ul> <li>standard rail mounting</li> <li>S7 rail mounting</li> <li>wall mounting</li> </ul> housing can be lined up <ul> <li>net weight</li> </ul> accessories <ul> <li>electrical accessories</li> </ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm 160 mm × 225 mm  50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes
at input at output for auxiliary contacts  mechanical data  width × height × depth of the enclosure installation width × mounting height required spacing  top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight  accessories electrical accessories further information internet links	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm  50 mm  0 mm  Snaps onto DIN rail EN 60715 35x7.5/15  Yes  No  No  Yes  2.2 kg
at input at output for auxiliary contacts  mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing  top bottom left right fastening method standard rail mounting Year ail mounting Wall mounting housing can be lined up net weight  accessories electrical accessories further information internet links internet link	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm  50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 2.2 kg  Buffer module, signaling module
<ul> <li>at input</li> <li>at output</li> <li>for auxiliary contacts</li> </ul> mechanical data <ul> <li>width × height × depth of the enclosure</li> <li>installation width × mounting height</li> <li>required spacing</li> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> fastening method <ul> <li>standard rail mounting</li> <li>S7 rail mounting</li> <li>wall mounting</li> </ul> housing can be lined up <ul> <li>net weight</li> </ul> accessories <ul> <li>electrical accessories</li> </ul> further information internet links <ul> <li>internet link</li> <li>to website: Industry Mall</li> </ul>	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm²  160 × 125 × 125 mm  160 mm × 225 mm  50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 2.2 kg  Buffer module, signaling module
at input at output for auxiliary contacts  mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing  top bottom left right fastening method standard rail mounting Year ail mounting Wall mounting housing can be lined up net weight  accessories electrical accessories further information internet links internet link	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 4 mm² -  160 × 125 × 125 mm  160 mm × 225 mm  50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 2.2 kg  Buffer module, signaling module

• 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

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# 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 Declaration Declaration of Conformity







**General Product Approval** 

Marine / Shipping

Environment

**Miscellaneous** 









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