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 *Ex approval no longer available*

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	
Rated line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
 at rated input voltage 120 V 	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		
at output 1 at DC	24 24 V	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage initial value	24 V	
adjustable output voltage full-scale value	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	000 /	
• maximum	200 mV	
• typical	60 mV	
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	50	
• 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	60 A	
at short-circuit during operation typical duration of everlanding compility for every current.	00 A	
duration of overloading capability for excess current	25 mg	
at short-circuit during operation	25 ms	
on short-circuiting during the start-up typical	23 A	
. , , .	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing	res, switchable characteristic	
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		
load step 50 to 100% typical	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	
response value current limitation 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		
	EN 55022 Class B	
• for emitted interference	2.1 00022 0.000 0	
for emitted interferencefor mains harmonics limitation	EN 61000-3-2	
• for mains harmonics limitation	EN 61000-3-2	
for mains harmonics limitationfor interference immunity	EN 61000-3-2	

 UL/CSA approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259		
 UL/CSA approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259		
 certificate of suitability EAC approval 	Yes		
 certificate of suitability Regulatory Compliance Mark 	Yes		
(RCM)			
certificate of suitability NEC Class 2	No		
• CP approval	No		
CB approval MTBF at 40 °C	786 164 h		
standards, specifications, approvals hazardous environments	700 104 11		
certificate of suitability IECEx	No		
certificate of suitability ATEX	No		
certificate of suitability ULhazloc approval	No		
certificate of suitability cCSAus, Class 1, Division 2	No		
FM approval Advantage of the second of	No		
standards, specifications, approvals marine classification	V		
Marine classification association	Yes		
Marine classification association	Voc		
American Bureau of Shipping Europe Ltd. (ABS) French marine elegification againty (DV)	Yes		
French marine classification society (BV) CANDO	No		
 Det Norske Veritas (DNV) 	Yes		
Lloyds Register of Shipping (LRS)	No		
standards, specifications, approvals Environmental Product De	claration		
Environmental Product Declaration	Yes		
Global Warming Potential [CO2 eq]			
● total	1 881.8 kg		
during manufacturing	34.7 kg		
 during operation 	1 846.1 kg		
 after end of life 	0.5 kg		
ambient conditions			
ambient temperature			
 during operation 	0 70 °C; with natural convection		
 during transport 	-40 +85 °C		
during storage	-40 +85 °C		
during storage Humidity class according to EN 60721	-40 +85 °C Climate class 3K3, 5 95% no condensation		
Humidity class according to EN 60721			
Humidity class according to EN 60721			
Humidity class according to EN 60721 connection method	Climate class 3K3, 5 95% no condensation		
Humidity class according to EN 60721 connection method • Connection technology	Climate class 3K3, 5 95% no condensation screw-type terminals		
Humidity class according to EN 60721 connection method • Connection technology • Connections Supply input	Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output	Climate class 3K3, 5 95% no condensation screw-type terminals 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		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary	Climate class 3K3, 5 95% no condensation screw-type terminals 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		
Humidity class according to EN 60721 connection method • Connection technology • Connections Supply input • Connections Output • Connections Auxiliary mechanical data	Climate class 3K3, 5 95% no condensation screw-type terminals 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 -		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure	Climate class 3K3, 5 95% no condensation screw-type terminals 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 -		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height	Climate class 3K3, 5 95% no condensation screw-type terminals 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 -		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing	Screw-type terminals 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 × 225 mm		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom	Climate class 3K3, 5 95% no condensation screw-type terminals 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 × 225 mm 50 mm 50 mm		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom left	Climate class 3K3, 5 95% no condensation screw-type terminals 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 × 225 mm 50 mm 50 mm 0 mm		
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Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom left right Installation	Climate class 3K3, 5 95% no condensation screw-type terminals 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 × 225 mm 50 mm 50 mm 0 mm		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom left right Installation fastening method standard rail mounting	Screw-type terminals 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 × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom left right Installation fastening method standard rail mounting fastening method S7 rail mounting	Screw-type terminals 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 × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom left right Installation fastening method standard rail mounting fastening method wall mounting	Screw-type terminals 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		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom left right Installation fastening method standard rail mounting fastening method wall mounting housing can be lined up	screw-type terminals 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 × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom left right Installation fastening method standard rail mounting fastening method wall mounting fastening method wall mounting housing can be lined up Weight, approx.	Screw-type terminals 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		
Humidity class according to EN 60721 connection method Connection technology Connections Supply input Connections Output Connections Auxiliary mechanical data width × height × depth of the enclosure installation width × Installation height required spacing top bottom left right Installation fastening method standard rail mounting fastening method wall mounting housing can be lined up Weight, approx. accessories	Screw-type terminals 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		
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internet link

• to web page: selection aid TIA Selection Tool

• to website: Industrial communication

• to website: CAx-Download-Manager

https://siemens.com/tst

http://www.siemens.com/simatic-net

http://www.siemens.com/cax

additional information

other information

Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$ (unless otherwise specified)

security information

security information

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Classifications

	Version	Classification
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

For use in hazardous locations

Marine / Shipping

Miscellaneous





CCC-Ex





Environment



last modified: 2/13/2024

