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	
initial value	Set by means of wire jumper on the device; starting from Vin > 93/183 V
supply voltage	
• 1 at AC rated value	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	
 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
• 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
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	30 1117
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 %
	0.1 s
response delay maximum	0.15
voltage increase time of the output voltage	F0 ma
• 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	CO A
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	2
the power	
Efficiency	
efficiency in percent	89 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	59 W
Closed-loop control	
relative control precision of the output voltage with rapid	1 %
fluctuation of the input voltage by +/- 15% typical	
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relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %
relative control precision of the output voltage load step of	2 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 % 2 ms
relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical	2 ms
relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical	2 ms
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relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring	2 ms 2 ms 5 ms
relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	2 ms 2 ms 5 ms
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• 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
• NEC Class 2	No
EAC approval	Yes
Regulatory Compliance Mark (RCM)	Yes
type of certification	
CB-certificate	No
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
 cCSAus, Class 1, Division 2 	No
FM registration	No
certificate of suitability shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	No
 Lloyds Register of Shipping (LRS) 	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	
ambient temperature	
during operation	0 70 °C; with natural convection
during transport	-40 +85 °C
during storage	-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 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 4 mm²
for auxiliary contacts	, 2 Solew terminals each for 0.5 4 min
width of the enclosure	- 160 mm
	125 mm
height of the enclosure	125 mm
depth of the enclosure	125 111111
required spacing	50 mm
• 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)

