SIEMENS

Data sheet 6EP1336-3BA00

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Figuresimilar

SITOP MODULAR/1AC/24VDC/20A

SITOP modular 20 A Stabilized power supply input: 120/230 V AC output: 24 V DC/20 A *Ex approval no longer available*

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
supply voltage	
• 1 at AC ratedvalue	120 V
• 2 at AC ratedvalue	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 x 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 %



บริษัท เอดีดี เฟอร์เนส จำกัด

ADD FURNACE CO.,LTD.

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nttps://www.add-turn	
residual ripple	
maximum	100 mV
• 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	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	- 100 11
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	20 110
on short-circuiting during the start-up typical	23 A
product feature	207
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	2
Efficiency	
efficiency in percent	89 %
efficiency in percent power loss [W]	89 %
power loss [W]	
	89 % 59 W
power loss [W] • at rated output voltage for rated value of the output	
power loss [W] • at rated output voltage for rated value of the output currenttypical Closed-loop control	
power loss [W] • at rated output voltage for rated value of the output current typical Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	59 W
power loss [W] • at rated output voltage for rated value of the output current typical Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of	59 W
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power loss [W] • at rated output voltage for rated value of the output current typical Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical 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 design of the overvoltage protection response value current limitation typical	1 % 2 % 2 ms 2 ms 5 ms 5 ms < 35 V 23 A Yes Alternatively, constant current characteristic approx. 23 A or latching
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power loss [W] • at rated output voltage for rated value of the output currenttypical Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value	1 % 2 % 2 ms 2 ms 5 ms 5 ms < 35 V 23 A Yes Alternatively, constant current characteristic approx. 23 A or latching
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power loss [W] • at rated output voltage for rated value of the output currenttypical Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical 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 design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	1 % 2 % 2 ms 2 ms 5 ms



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Approvals	
certificate of suitability	
CE marking	Yes
ULapproval	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
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	No
certificate of suitability	
• EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, GL
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	No
Nippon Kaiji Kyokai (NK)	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
- atmpat	stranded
• at output	+, -: 2 screw terminals each for 0.5 4 mm ²
for auxiliary contacts	-
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)