SIEMENS

Data sheet 6EP1334-3BA10



SITOP PSU200M/1-2AC/24VDC/10A

SITOP PSU200M 10 A stabilized power supply input: 120/230-500 V AC output: 24 V DC/ 10 A *Ex approval no longer available*

Input

type of the power supply network

supply voltage at AC

initial value

supply voltage

- 1 at AC
- 2 at AC

input voltage

- 1 at AC
- 2 at AC

design of input wide range input

overvoltage overload capability

operating condition of the mains buffering

buffering time for rated value of the output current in the event of power failure minimum

operating condition of the mains buffering

line frequency

- 1 rated value
- 2 rated value

line frequency

input current

- at rated input voltage 120 V
- at rated input voltage 230 V
- at rated input voltage 500 V

current limitation of inrush current at 25 °C maximum

12t value maximum

fuse protection type

• in the feeder

1-phase and 2-phase AC

Set by means of selector switch on the device

120 ... 230 V

230 ... 500 V

85 ... 264 V

176 ... 550 V

Yes

1300 Vpeak, 1.3 ms

at Vin = 120/230 V, typ. 150 ms at Vin = 400 V

25 ms

at Vin = 120/230 V, typ. 150 ms at Vin = 400 V

50 Hz

60 Hz

47 ... 63 Hz

4.4 A

2.4 A

1.1 A 35 A

4 A²·s

T 6.3 A (not accessible)

Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V

Output

voltage curve at output output voltage at DC rated value output voltage

at output 1 at DC rated value
relative overall tolerance of the voltage

relative control precision of the output voltage

• on slow fluctuation of input voltage

on slow fluctuation of ohm loading residual ripplemaximum

Controlled, isolated DC voltage

24 V

24 V 3 %

0.1 %

0.1 %

50 mV

voltage peak	
• maximum	200 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	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	1 s
voltage increase time of the output voltage	F0
• typical	50 ms
output current	10.4
• rated value	10 A
rated range	0 10 A; +60 +70 °C: Derating 2%/K (at 120 V, 230 V) or 3.5%/K (at 400 V)
supplied active power typical	240 W
short-term overload current	- 10
at short-circuit during operation typical	30 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	12 A
product feature	
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	91 %
power loss [W]	
 at rated output voltage for rated value of the output 	24 W
current typical	
 during no-load operation maximum 	6 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
	0.1 % 3 %
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	
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	
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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	3 % 2 ms
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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 • 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	2 ms 2 ms 5 ms 4 35 V 12 A Yes Alternatively, constant current characteristic approx. 12 A or latching shutdown 12 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
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CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
 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	Yes
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	750, 577 02
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	NO
<u> </u>	
standard	EN EE000 Close D
for emitted interference for explain the second is a limited to the second in	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	-25 +70 °C; With natural convection; startup tested starting from -40
	°C naminal valtage
a during transport	°C nominal voltage
during transport during storage	-40 +85 °C
during storage	-40 +85 °C -40 +85 °C
during storage environmental category according to IEC 60721	-40 +85 °C
during storage environmental category according to IEC 60721 Mechanics	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
during storage environmental category according to IEC 60721 Mechanics type of electrical connection	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals
during storage environmental category according to IEC 60721 Mechanics	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm²
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during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • for auxiliary contacts width of the enclosure	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm 50 mm 50 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm 50 mm 50 mm 0 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm 50 mm 0 mm 0 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm 50 mm 50 mm 0 mm 0 mm 0 mm
during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 mm 125 mm 121 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 m
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