

Siemens 6EP1334-3BA10 Manual

Brand	Siemens
Product Series	Siemens
Product Type	of the power supply network 1-phase and 2-phase AC

Description

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

input

type of the power supply network 1-phase and 2-phase AC

supply voltage at AC Set by means of selector switch on the device

supply voltage 1 at AC 120 ... 230 V

supply voltage 2 at AC 230 ... 500 V

input voltage 1 at AC 85 ... 264 V

input voltage 2 at AC 176 ... 550 V

wide range input Yes

overvoltage overload capability 1300 V_{peak}, 1.3 ms

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

25 ms

operating condition of the mains buffering at $V_{in} = 120/230$ V, typ. 150 ms at $V_{in} = 400$ V

line frequency 50/60 Hz

line frequency 47 ... 63 Hz

input current

- at rated input voltage 120 V 4.4 A
- at rated input voltage 230 V 2.4 A
- at rated input voltage 500 V 1.1 A

current limitation of inrush current at 25 °C maximum 35 A

I_{2t} value maximum 4 A²·s

fuse protection type T 6.3 A (not accessible)

fuse protection type in the feeder 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 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

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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 50 mV

voltage peak

- maximum 200 mV

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 V_{out} approx. 3 %

response delay maximum 1 s

voltage increase time of the output voltage

- typical 50 ms

output current

- 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

- 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

bridging of equipment Yes; switchable characteristic

number of parallel-switched equipment resources for increasing the power

2

efficiency

efficiency in percent 91 %

power loss [W]

- at rated output voltage for rated value of the output

current typical

24 W

- during no-load operation maximum 6 W

closed-loop control

relative control precision of the output voltage with rapid

fluctuation of the input voltage by +/- 15% typical

0.1 %

relative control precision of the output voltage load step of

resistive load 50/100/50 % typical

3 %

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

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design of short-circuit protection Alternatively, constant current characteristic approx. 12 A or latching shutdown

- typical 12 A

enduring short circuit current RMS value

- typical 12 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 0.32 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 61000-6-2

standards, specifications, approvals

certificate of suitability

- CE marking Yes
- UL approval Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
- 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)

- UKCA marking Yes
- EAC approval Yes
- Regulatory Compliance Mark (RCM) Yes
- NEC Class 2 No
- SEMI F47 Yes

type of certification

- CB-certificate Yes

MTBF at 40 °C 1 055 408 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

shipbuilding approval Yes

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS) Yes
- French marine classification society (BV) No
- Det Norske Veritas (DNV) Yes
- Lloyds Register of Shipping (LRS) No

standards, specifications, approvals Environmental Product Declaration

Environmental Product Declaration Yes

Global Warming Potential [CO2 eq]

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- total 763.9 kg
- during manufacturing 12.6 kg
- during operation 751 kg
- after end of life 0.18 kg

ambient conditions

ambient temperature

- during operation -25 ... +70 °C; With natural convection; startup tested starting from -40 °C

nominal voltage

- during transport -40 ... +85 °C
- during storage -40 ... +85 °C

environmental category according to IEC 60721 Climate class 3K3, 5 ... 95% no condensation

connection method

type of electrical connection screw terminal

- at input L, N, PE: 1 screw terminal each for 0.2 ... 2.5 mm² single-core/finely stranded
- at output +, -: 2 screw terminals each for 0.2 ... 2.5 mm²
- for auxiliary contacts 13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm²

mechanical data

width × height × depth of the enclosure 70 × 125 × 121 mm

installation width × mounting height 70 mm × 225 mm

required spacing

- top 50 mm
- bottom 50 mm
- left 0 mm
- right 0 mm

fastening method Snaps onto DIN rail EN 60721-3-1 35 mm (5/15)

- standard rail mounting Yes
- S7 rail mounting No
- wall mounting No

housing can be lined up Yes

net weight 0.8 kg

accessories

electrical accessories Buffer module

further information internet links

internet link

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