

Siemens 6EP1334-2AA01-0AB0 Manual

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

Description

6EP1334-2AA01-0AB0

SITOP SMART/1AC/24VDC/10A/wall mounting

SITOP smart 240 W Stabilized power supply input: 120/230 V AC, output: DC 24

V/10 A Option for for wall mounting

input

type of the power supply network 1-phase AC

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

supply voltage 120 V/230 V

input voltage 1 at AC 85 ... 132 V

input voltage 2 at AC 170 ... 264 V

wide range input No

overvoltage overload capability 2.3 A I_{2t} at rated I_{2t} 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 $V_{in} = 93/187$ V

line frequency 50/60 Hz

line frequency 47 ... 63 Hz

input current

- at rated input voltage 120 V 4.1 A

- at rated input voltage 230 V 2.4 A

current limitation of inrush current at 25 °C maximum 65 A

duration of inrush current limiting at 25 °C

- typical 3 ms

I_{2t} value maximum 3.3 A²s

fuse protection type T 6.3 A/250 V (not accessible)

fuse protection type in the feeder Recommended miniature circuit breaker: from 10 A characteristic C

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 22.8 ... 28 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 0.5 %

residual ripple

- maximum 150 mV
- typical 50 mV

voltage peak

- maximum 240 mV
- typical 150 mV

display version for normal operation Green LED for 24 V OK

behavior of the output voltage when switching on Overshoot of Vout approx. 4 %

response delay maximum 0.1 s

voltage increase time of the output voltage

- typical 50 ms

output current

- rated value 10 A
- rated range 0 ... 12 A; 12 A up to +45 °C

supplied active power typical 288 W

short-term overload current

- on short-circuiting during the start-up typical 30 A
- at short-circuit during operation typical 33 A

duration of overloading capability for excess current

- on short-circuiting during the start-up 100 ms
- at short-circuit during operation 200 ms

bridging of equipment Yes

number of parallel-switched equipment resources for increasing

the power

2

efficiency

efficiency in percent 90 %

power loss [W]

- at rated output voltage for rated value of the output

current typical

27 W

closed-loop control

relative control precision of the output voltage with rapid

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

0.3 %

relative control precision of the output voltage load step of

resistive load 50/100/50 % typical

1 %

setting time

- load step 50 to 100% typical 0.2 ms
- load step 100 to 50% typical 0.2 ms

protection and monitoring

design of the overvoltage protection < 33 V

property of the output short-circuit proof Yes

design of short-circuit protection Constant current characteristic

response value current limitation 12.5 ... 13.5 A

enduring short circuit current RMS value

- typical 16 A

safety

galvanic isolation between input and output Yes

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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 0.8 mA

protection class IP IP20

EMC

standard

- for emitted interference EN 55022 Class B
- for mains harmonics limitation -
- 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
- UKCA marking Yes
- EAC approval Yes
- NEC Class 2 No

type of certification

- CB-certificate Yes

MTBF at 40 °C 1 460 803 h

standards, specifications, approvals hazardous environments

certificate of suitability

- IECEx No
- ATEX No
- ULhazloc approval No
- FM registration No

standards, specifications, approvals marine classification

shipbuilding approval Yes

Marine classification association

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

ambient conditions

ambient temperature

- during operation 0 ... 60 °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

connection method

type of electrical connection screw terminal

- at input L, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
- at output L+, M: 2 screw terminals each for 0.5 ... 2.5 mm²
- for auxiliary contacts -

mechanical data

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

installation width × mounting height 70 mm × 225 mm

required spacing

- top 50 mm

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- bottom 50 mm

- left 0 mm

- right 0 mm

fastening method Wall mounting

- DIN-rail mounting No

- S7 rail mounting No

- wall mounting Yes

housing can be lined up Yes

net weight 0.85 kg

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