



SIMATIC ET200PRO PS/3AC/24VDC/8A/IP67

SIMATIC ET200pro PS Regulated power supply in protection type IP67 input: 3 AC 400-480 V output: 24 V/8 A DC

| General information | |
|--|---|
| Technical Product Detail Page | https://l.siemens.com/1P6ES7148-4PC00-0HA0 |
| input | |
| type of the power supply network | 3-phase AC |
| supply voltage at AC | |
| • minimum rated value | 400 V |
| • maximum rated value | 480 V |
| • initial value | 340 V |
| • full-scale value | 550 V |
| supply voltage at AC | 320 ... 340 V for max. 1 min |
| wide range input | Yes |
| overvoltage overload capability | Implemented internally with varistors |
| buffering time for rated value of the output current in the event of power failure minimum | 15 ms |
| operating condition of the mains buffering | at $V_{in} = 400\text{ V}$ |
| line frequency | 50/60 Hz |
| line frequency | 45 ... 66 Hz |
| input current | |
| • at rated input voltage 400 V | 0.5 A |
| current limitation of inrush current at 25 °C maximum | 40 A |
| I ² t value maximum | 3.5 A ² ·s |
| fuse protection type | T 4 A |
| fuse protection type in the feeder | Required: Circuit breaker 3RV2011-1DA10 or 3RV2711-1DD10 (UL 489) |
| 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 | No; - |
| relative overall tolerance of the voltage | 3 % |
| relative control precision of the output voltage | |
| • on slow fluctuation of input voltage | 0.5 % |
| • on slow fluctuation of ohm loading | 0.5 % |
| residual ripple | |
| • maximum | 200 mV |
| voltage peak | |
| • maximum | 250 mV |
| display version for normal operation | Green LED for 24 V OK |
| type of signal at output | max. 30 V, 10 mA; Power-Good (High-Pegel 1L+ for V_{out} in range 21.3 ... 29 |

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|---|---|
| | V); Overtemperature warning at least 30 s before switch-off (high level 1L+ when the max. internal temperature is exceeded) |
| behavior of the output voltage when switching on | Overshoot of $V_{out} < 2\%$ |
| response delay maximum | 1.5 s |
| voltage increase time of the output voltage | |
| • typical | 40 ms |
| output current | |
| • rated value | 8 A |
| • rated range | 0 ... 8 A |
| supplied active power typical | 192 W |
| short-term overload current | |
| • on short-circuiting during the start-up typical | 50 A |
| • at short-circuit during operation typical | 50 A |
| duration of overloading capability for excess current | |
| • on short-circuiting during the start-up | 100 ms |
| • at short-circuit during operation | 100 ms |
| bridging of equipment | No |
| efficiency | |
| efficiency in percent | 88 % |
| power loss [W] | |
| • at rated output voltage for rated value of the output current typical | 25 W |
| closed-loop control | |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.5 % |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical | 1 % |
| setting time | |
| • maximum | 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 | Electronic shutdown, automatic restart |
| • typical | 9.4 A |
| enduring short circuit current RMS value | |
| • maximum | 10 A |
| safety | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7) |
| operating resource protection class | Class I |
| leakage current | |
| • maximum | 3.5 mA |
| • typical | 0.4 mA |
| protection class IP | IP67 |
| EMC | |
| standard | |
| • for emitted interference | EN 55022 Class A |
| • for mains harmonics limitation | - |
| • for interference immunity | EN 61000-6-2 |
| standards, specifications, approvals | |
| certificate of suitability | |
| • CE marking | Yes |
| • UL approval | Yes; UL-Listed (UL 508) according to NFPA compatibility (National Fire Protection Association), see operating instructions |
| • EAC approval | Yes |
| • NEC Class 2 | No |
| type of certification | |
| • CB-certificate | Yes |
| MTBF at 40 °C | 196 354 h |
| standards, specifications, approvals hazardous environments | |

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| certificate of suitability | |
| <ul style="list-style-type: none"> • IECEx • ATEX • ULhazloc approval • FM registration | <p>No</p> <p>No</p> <p>No</p> <p>No</p> |
| standards, specifications, approvals marine classification | |
| shipbuilding approval | No |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) | <p>No</p> <p>No</p> <p>No</p> <p>No</p> |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during transport • during storage | <p>-25 ... +55 °C; with natural convection</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| connection method | |
| type of electrical connection | screw terminal |
| <ul style="list-style-type: none"> • at input • at output • for auxiliary contacts | <p>L1, L2, L3, PE: Plug connector HAN Q4/2 (counterpart see "Electrical accessories")</p> <p>L+, M: 2 x 1.5 mm² each (4-pole cable for +/- with open, labeled ends, 4 x 1.5 mm²)</p> <p>Alarm signals: M12 plug-in connector 5-pin</p> |
| mechanical data | |
| width × height × depth of the enclosure | 310 × 135 × 90 mm |
| fastening method | Can be mounted onto ET200pro mounting rail |
| <ul style="list-style-type: none"> • DIN-rail mounting • S7 rail mounting • wall mounting | <p>No</p> <p>No</p> <p>Yes</p> |
| housing can be lined up | No |
| net weight | 2.8 kg |
| accessories | |
| electrical accessories | Power connector (Input: 3RK1911-2BE30 (6 mm ²)) (Output: 3RK1911-2BF10 (4 mm ²)) |
| further information internet links | |
| internet link | |
| <ul style="list-style-type: none"> • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support | <p>https://mall.industry.siemens.com</p> <p>https://www.siemens.com/tstcloud</p> <p>https://siemens.com/sitop</p> <p>https://siemens.com/cax</p> <p>https://support.industry.siemens.com</p> |
| additional information | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| security information | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, |

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Classifications

| | Version | Classification |
|--------|---------|----------------|
| eClass | 14 | 27-04-07-01 |
| eClass | 12 | 27-04-07-01 |
| eClass | 9.1 | 27-04-07-01 |
| eClass | 9 | 27-04-07-01 |
| eClass | 8 | 27-04-90-02 |
| eClass | 7.1 | 27-04-90-02 |
| eClass | 6 | 27-04-90-02 |
| ETIM | 10 | EC002540 |
| ETIM | 9 | EC002540 |
| ETIM | 8 | EC002540 |
| ETIM | 7 | EC002540 |
| IDEA | 4 | 4130 |
| UNSPSC | 15 | 39-12-10-04 |

Approvals Certificates

General Product Approval

[Manufacturer Declaration](#)

[Declaration of Conformity](#)

[Miscellaneous](#)



[China RoHS](#)

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