



LOGO!Power/1AC/24VDC/1.3A

LOGO!POWER 24 V / 1.3 A stabilized power supply input: 100-240 V AC output: 24 V DC / 1.3 A

| input                                                                                      |                                                                                               |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| type of the power supply network                                                           | 1-phase AC or DC                                                                              |
| supply voltage at AC                                                                       |                                                                                               |
| • minimum rated value                                                                      | 100 V                                                                                         |
| • maximum rated value                                                                      | 240 V                                                                                         |
| • initial value                                                                            | 85 V                                                                                          |
| • full-scale value                                                                         | 264 V                                                                                         |
| input voltage at DC                                                                        | 110 ... 300 V                                                                                 |
| wide range input                                                                           | Yes                                                                                           |
| overvoltage overload capability                                                            | 300 V AC for 1 s                                                                              |
| buffering time for rated value of the output current in the event of power failure minimum | 40 ms                                                                                         |
| operating condition of the mains buffering                                                 | at $V_{in} = 187\text{ V}$                                                                    |
| line frequency                                                                             | 50/60 Hz                                                                                      |
| line frequency                                                                             | 47 ... 63 Hz                                                                                  |
| input current                                                                              |                                                                                               |
| • at rated input voltage 120 V                                                             | 0.7 A                                                                                         |
| • at rated input voltage 230 V                                                             | 0.35 A                                                                                        |
| current limitation of inrush current at 25 °C maximum                                      | 25 A                                                                                          |
| $I^2t$ value maximum                                                                       | 0.8 A <sup>2</sup> s                                                                          |
| fuse protection type                                                                       | internal                                                                                      |
| fuse protection type in the feeder                                                         | Recommended miniature circuit breaker: from 6 A characteristic B or from 2 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                                                                  | 22.2 ... 26.4 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 %                                                                                         |
| residual ripple                                                                            |                                                                                               |
| • maximum                                                                                  | 200 mV                                                                                        |
| • typical                                                                                  | 30 mV                                                                                         |
| voltage peak                                                                               |                                                                                               |
| • maximum                                                                                  | 300 mV                                                                                        |
| • typical                                                                                  | 50 mV                                                                                         |

|                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| display version for normal operation                                                                                                                                                                        | Green LED for output voltage OK                                                                                                                                                                                                                                                                                                                                                             |
| behavior of the output voltage when switching on                                                                                                                                                            | No overshoot of Vout (soft start)                                                                                                                                                                                                                                                                                                                                                           |
| response delay maximum                                                                                                                                                                                      | 0.5 s                                                                                                                                                                                                                                                                                                                                                                                       |
| voltage increase time of the output voltage <ul style="list-style-type: none"> <li>• typical</li> </ul>                                                                                                     | 100 ms                                                                                                                                                                                                                                                                                                                                                                                      |
| output current <ul style="list-style-type: none"> <li>• rated value</li> <li>• rated range</li> </ul>                                                                                                       | 1.3 A<br>0 ... 1.3 A; +55 ... +70 °C: Derating 2%/K                                                                                                                                                                                                                                                                                                                                         |
| supplied active power typical                                                                                                                                                                               | 31.2 W                                                                                                                                                                                                                                                                                                                                                                                      |
| bridging of equipment                                                                                                                                                                                       | Yes                                                                                                                                                                                                                                                                                                                                                                                         |
| number of parallel-switched equipment resources for increasing the power                                                                                                                                    | 2                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>efficiency</b>                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                             |
| efficiency in percent                                                                                                                                                                                       | 86 %                                                                                                                                                                                                                                                                                                                                                                                        |
| power loss [W] <ul style="list-style-type: none"> <li>• at rated output voltage for rated value of the output current typical</li> <li>• during no-load operation maximum</li> </ul>                        | 5.1 W<br>0.3 W                                                                                                                                                                                                                                                                                                                                                                              |
| <b>closed-loop control</b>                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                             |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical                                                                                             | 0.2 %                                                                                                                                                                                                                                                                                                                                                                                       |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical                                                                                                          | 1 %                                                                                                                                                                                                                                                                                                                                                                                         |
| setting time <ul style="list-style-type: none"> <li>• load step 10 to 90% typical</li> <li>• load step 90 to 10% typical</li> </ul>                                                                         | 1 ms<br>1 ms                                                                                                                                                                                                                                                                                                                                                                                |
| <b>protection and monitoring</b>                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                             |
| design of the overvoltage protection                                                                                                                                                                        | Yes, according to EN 60950-1                                                                                                                                                                                                                                                                                                                                                                |
| property of the output short-circuit proof                                                                                                                                                                  | Yes                                                                                                                                                                                                                                                                                                                                                                                         |
| design of short-circuit protection <ul style="list-style-type: none"> <li>• typical</li> </ul>                                                                                                              | Constant current characteristic<br>1.7 A                                                                                                                                                                                                                                                                                                                                                    |
| overcurrent overload capability <ul style="list-style-type: none"> <li>• when switching on</li> <li>• in normal operation</li> </ul>                                                                        | 150% Iout rated typ. 200 ms<br>overload capability 150% Iout rated typ. 200 ms                                                                                                                                                                                                                                                                                                              |
| enduring short circuit current RMS value <ul style="list-style-type: none"> <li>• maximum</li> </ul>                                                                                                        | 1.7 A                                                                                                                                                                                                                                                                                                                                                                                       |
| measuring point for output current                                                                                                                                                                          | Yes; 50 mV $\Rightarrow$ 1.3 A                                                                                                                                                                                                                                                                                                                                                              |
| <b>safety</b>                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                             |
| 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 II (without protective conductor)                                                                                                                                                                                                                                                                                                                                                     |
| protection class IP                                                                                                                                                                                         | IP20                                                                                                                                                                                                                                                                                                                                                                                        |
| standard <ul style="list-style-type: none"> <li>• for emitted interference</li> <li>• for mains harmonics limitation</li> <li>• for interference immunity</li> </ul>                                        | EN 55022 Class B<br>not applicable<br>EN 61000-6-2                                                                                                                                                                                                                                                                                                                                          |
| <b>standards, specifications, approvals</b>                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                             |
| certificate of suitability <ul style="list-style-type: none"> <li>• CE marking</li> <li>• UL approval</li> <li>• CSA approval</li> <li>• EAC approval</li> <li>• NEC Class 2</li> <li>• SEMI F47</li> </ul> | Yes<br>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)<br>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)<br>Yes<br>Yes; according to UL1310, File E151273<br>Yes |
| type of certification <ul style="list-style-type: none"> <li>• BIS</li> <li>• CB-certificate</li> </ul>                                                                                                     | Yes; R-41188271<br>Yes                                                                                                                                                                                                                                                                                                                                                                      |
| MTBF at 40 °C                                                                                                                                                                                               | 3 094 996 h                                                                                                                                                                                                                                                                                                                                                                                 |

|                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>standards, specifications, approvals hazardous environments</b>            |                                                                                                                                                                                                                                                                                                                                                                                                |
| certificate of suitability                                                    |                                                                                                                                                                                                                                                                                                                                                                                                |
| • IECEx                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                             |
| • ATEX                                                                        | No                                                                                                                                                                                                                                                                                                                                                                                             |
| • ULhazloc approval                                                           | No                                                                                                                                                                                                                                                                                                                                                                                             |
| • cCSAus, Class 1, Division 2                                                 | No                                                                                                                                                                                                                                                                                                                                                                                             |
| • FM registration                                                             | No                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>standards, specifications, approvals marine classification</b>             |                                                                                                                                                                                                                                                                                                                                                                                                |
| shipbuilding approval                                                         | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| Marine classification association                                             |                                                                                                                                                                                                                                                                                                                                                                                                |
| • American Bureau of Shipping Europe Ltd. (ABS)                               | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| • French marine classification society (BV)                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| • Det Norske Veritas (DNV)                                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| • Lloyds Register of Shipping (LRS)                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>standards, specifications, approvals Environmental Product Declaration</b> |                                                                                                                                                                                                                                                                                                                                                                                                |
| Environmental Product Declaration                                             | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| Global Warming Potential [CO2 eq]                                             |                                                                                                                                                                                                                                                                                                                                                                                                |
| • total                                                                       | 162 kg                                                                                                                                                                                                                                                                                                                                                                                         |
| • during manufacturing                                                        | 2.4 kg                                                                                                                                                                                                                                                                                                                                                                                         |
| • during operation                                                            | 159.6 kg                                                                                                                                                                                                                                                                                                                                                                                       |
| • after end of life                                                           | 0.08 kg                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ambient conditions</b>                                                     |                                                                                                                                                                                                                                                                                                                                                                                                |
| ambient temperature                                                           |                                                                                                                                                                                                                                                                                                                                                                                                |
| • during operation                                                            | -25 ... +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                                                                                                                                                                                                                                                                                                                                                   |
| <b>connection method</b>                                                      |                                                                                                                                                                                                                                                                                                                                                                                                |
| type of electrical connection                                                 | screw terminal                                                                                                                                                                                                                                                                                                                                                                                 |
| • at input                                                                    | L, N: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded                                                                                                                                                                                                                                                                                                        |
| • at output                                                                   | +, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                    |
| • for auxiliary contacts                                                      | -                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mechanical data</b>                                                        |                                                                                                                                                                                                                                                                                                                                                                                                |
| width × height × depth of the enclosure                                       | 36 × 90 × 53 mm                                                                                                                                                                                                                                                                                                                                                                                |
| installation width × mounting height                                          | 36 mm × 130 mm                                                                                                                                                                                                                                                                                                                                                                                 |
| required spacing                                                              |                                                                                                                                                                                                                                                                                                                                                                                                |
| • top                                                                         | 20 mm                                                                                                                                                                                                                                                                                                                                                                                          |
| • bottom                                                                      | 20 mm                                                                                                                                                                                                                                                                                                                                                                                          |
| • left                                                                        | 0 mm                                                                                                                                                                                                                                                                                                                                                                                           |
| • right                                                                       | 0 mm                                                                                                                                                                                                                                                                                                                                                                                           |
| fastening method                                                              | Snap onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions                                                                                                                                                                                                                                                                                                         |
| • standard rail mounting                                                      | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| • S7 rail mounting                                                            | No                                                                                                                                                                                                                                                                                                                                                                                             |
| • wall mounting                                                               | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| housing can be lined up                                                       | Yes                                                                                                                                                                                                                                                                                                                                                                                            |
| net weight                                                                    | 0.12 kg                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>further information internet links</b>                                     |                                                                                                                                                                                                                                                                                                                                                                                                |
| internet link                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                |
| • to website: Industry Mall                                                   | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                              |
| • to website: Industrial communication                                        | <a href="https://siemens.com/industrial-communication">https://siemens.com/industrial-communication</a>                                                                                                                                                                                                                                                                                        |
| • to website: CAX-Download-Manager                                            | <a href="https://siemens.com/cax">https://siemens.com/cax</a>                                                                                                                                                                                                                                                                                                                                  |
| • to website: Industry Online Support                                         | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                        |
| <b>additional information</b>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                |
| other information                                                             | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)                                                                                                                                                                                                                                                                                              |
| <b>security information</b>                                                   |                                                                                                                                                                                                                                                                                                                                                                                                |
| 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 |

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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   | 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](#)



General Product Approval      Marine / Shipping



[BIS CRS](#)



Marine / Shipping      Environment



last modified: 6/26/2024