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6EP1331-1SH03 LOGO!POWER 24 V/1,3 A

Technical / CAx data

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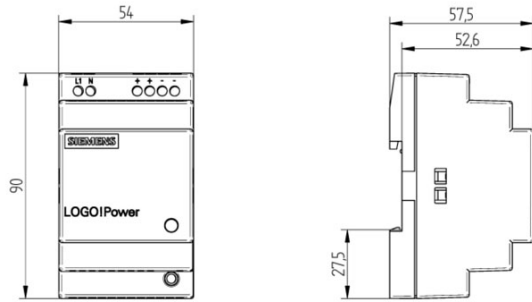

LOGO!POWER 24 V STABILIZED
POWER SUPPLY INPUT: 100-240 V
AC (110-300 V DC) OUTPUT: 24 V/1.3
A DC

Technical specifications

| | |
|---|---|
| Product | LOGO!Power |
| Power supply, type | 24 V/1.3 A |
| Input | |
| Input | 1-phase AC or DC |
| Rated voltage value V_{in} rated | 100...240 V |
| Voltage range | 85...264 V |
| Input voltage / at DC | 110...300 V |
| Wide-range input | Yes |
| Oversoltage resistance | $2.3 \times V_{in}$ rated, 1.3 ms |
| Mains buffering at I_{out} rated, min. | 40 ms |
| Mains buffering | at $V_{in} = 187$ V |
| Rated line frequency | 50/60 Hz |
| Rated line range | 47...63 Hz |
| Input current / at nominal level of the input voltage 120 V | 0.7 A |
| Input current / at nominal level of the input voltage 230 V | 0.35 A |
| Switch-on current limiting (+25 °C), max. | 25 A |
| I^2t , max. | 0.8 A ² ·s |
| Built-in incoming fuse | internal |
| Protection in the mains power input (IEC 898) | Recommended miniature circuit breaker: from 16 A, characteristic B or from 10 A, characteristic C |
| Output | |
| Output | Controlled, isolated DC voltage |

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| Rated voltage Vout DC | 24 V |
| Total tolerance, static ± | 3 % |
| Static mains compensation, approx. | 0.1 % |
| Static load balancing, approx. | 1.5 % |
| Residual ripple peak-peak, max. | 200 mV |
| Residual ripple peak-peak, typ. | 10 mV |
| Spikes peak-peak, max. (bandwidth: 20 MHz) | 300 mV |
| Spikes peak-peak, typ. (bandwidth: 20 MHz) | 20 mV |
| Adjustment range | 22.2...26.4 V |
| Product feature / output voltage adjustable | Yes |
| Output voltage setting | via potentiometer |
| Status display | Green LED for output voltage OK |
| On/off behavior | No overshoot of Vout (soft start) |
| Startup delay, max. | 0.5 s |
| Voltage rise, typ. | 15 ms |
| Rated current value Iout rated | 1.3 A |
| Current range | 0...1.3 A |
| • Note | 1.3 A up to +55 °C, 0.9 A up to +70 °C |
| delivered active power / typ. | 30 W |
| Parallel switching for enhanced performance | Yes |
| Numbers of parallel switchable units for enhanced performance | 2 |
| Efficiency | |
| Efficiency at Vout rated, Iout rated, approx. | 85 % |
| Power loss at Vout rated, Iout rated, approx. | 6 W |
| Closed-loop control | |
| Dynamic mains compensation (Vin rated ±15 %), max. | 0.2 % |
| Dynamic load smoothing (Iout: 10/90/10 %), Uout ± typ. | 1 % |
| Load step setting time 10 to 90%, typ. | 1 ms |
| Load step setting time 90 to 10%, typ. | 1 ms |
| Protection and monitoring | |
| Output overvoltage protection | Yes, according to EN 60950 |
| Current limitation, typ. | 1.7 A |
| Characteristic feature of the output / short-circuit protected | Yes |
| Short-circuit protection | Constant current characteristic |
| Enduring short circuit current / Effective level / maximum | 2.4 A |
| Overload/short-circuit indicator | - |
| Safety | |
| Primary/secondary isolation | Yes |
| Potential separation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| Protection class | Class II (without protective conductor) |
| CE mark | Yes |
| UL/CSA approval | Yes |
| UL/cUL (CSA) approval | cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-recognized (UL 60950, CSA C22.2 No. |

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| | 60950), File E151273 |
| Explosion protection | ATEX (EX) II 3G Ex nA IIC T3; cCSAus (CSA E60079, UL 60079), Class I, Div. 2, Group ABCD, T4 |
| FM approval | Class I, Div. 2, Group ABCD, T4 |
| CB approval | Yes |
| Marine approval | GL (ABS, BV, DNV, LRS in process) |
| Degree of protection (EN 60529) | IP20 |
| EMC | |
| Emitted interference | EN 55022 Class B |
| Supply harmonics limitation | not applicable |
| Noise immunity | EN 61000-6-2 |
| Operating data | |
| Ambient temperature / in operation | -20...+70 °C |
| <ul style="list-style-type: none"> Note | with natural convection |
| Ambient temperature / on transport | -40...+85 °C |
| Ambient temperature / in storage | -40...+85 °C |
| Humidity class according to EN 60721 | Climate class 3K3, no condensation |
| Mechanics | |
| Connection technology | screw-type terminals |
| Connections / Supply input | L, N: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded |
| Connections / Output | +, -: 2 screw terminals each for 0.5 ... 2.5 mm ² |
| Connections / Auxiliary | - |
| Width / of the housing | 54 mm |
| Height / of the housing | 90 mm |
| Depth / of the housing | 55 mm |
| Installation width | 54 mm |
| Mounting height | 130 mm |
| Weight, approx. | 0.17 kg |
| Product feature / of the housing / housing for side-by-side mounting | Yes |
| Type of mounting / wall mounting | No |
| Type of fixing / cap rail mounting | Yes |
| Type of mounting / S7-300 rail mounting | No |
| Installation | Snaps onto DIN rail EN 60715 35x7.5/15 |
| Other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |



letzte Änderung:

May 24, 2012