

product type designation



Power Supply SCALANCE PS924 PoE

SCALANCE PS924 PoE power supply for power over Ethernet, input: 24 V DC output: 54 V DC/1.6 A NEC Class 2.

type of current supply
suitability for use

Input: DC 24 V, Output: DC 54 V / 1.6 A, NEC CLASS 2
Power supply for PoE

electrical data / input

| | |
|--|---------------------|
| voltage curve / at input | DC |
| supply voltage / rated value | 24 V |
| supply voltage / rated value | 19.2 ... 28.8 V |
| type of voltage / of the supply voltage | DC |
| consumed current / at rated supply voltage / maximum | 4.1 A |
| design of input / wide range input | No |
| buffering time / for rated value of the output current / in the event of power failure / minimum | 5 ms |
| current limitation / of inrush current / at 25 °C / maximum | 10 A |
| fuse protection type / at input | Fuse T 15A soldered |

electrical data / output

| | |
|--|---|
| voltage curve / at output | Controlled, isolated DC voltage, adjustable from 48 V to 54 V |
| output voltage / at DC / rated value | 54 V |
| display version / for normal operation | LED green for DC ok |
| behavior of the output voltage / when switching on | Overshoot of $U_a < 2\%$ |
| startup delay time / maximum | 1.5 s |
| voltage increase time / of the output voltage / maximum | 15 ms |
| output current | |
| • rated value | 1.6 A |
| • rated range | 0 ... 1.8 A |
| supplied active power / typical | 86 W |
| product feature / parallel switching of channels | No |
| number of parallel-switched equipment resources / for increasing the power | 0 |
| efficiency in percent | 86 % |
| power loss [W] | 14 W |

electrical data / closed-loop control

| | |
|--|--------|
| relative overall tolerance / of the voltage | 1 % |
| residual ripple / maximum | 0.05 V |
| voltage peak / maximum | 0.2 V |
| relative control precision / of the output voltage | |
| • on slow fluctuation of input voltage | 0.2 % |
| • on slow fluctuation of ohm loading | 0.5 % |
| • load step of resistive load 50/100/50 % / typical | 0.5 % |
| • with rapid fluctuation of the input voltage by +/- 15% / typical | 0.3 % |
| setting time | |
| • load step 50 to 100% / typical | 0.5 ms |

| | |
|--|---|
| • load step 100 to 50% / typical | 0.5 ms |
| electrical data / protection and monitoring | |
| design of the overvoltage protection / at output | < 60 V |
| response value current limitation / typical | 1.7 A |
| property of the output / short-circuit proof | Yes |
| design of short-circuit protection | Electronic shutdown, automatic restart |
| electrical data / safety | |
| galvanic isolation / between input and output | Yes |
| galvanic isolation | Safety extra-low output voltage U _{out} acc. to EN 60950-1 |
| operating resource protection class | Class III |
| leakage current | |
| • maximum | 3.5 mA |
| • typical | 0 mA |
| interfaces | |
| number of electrical connections | |
| • for power supply | 3 |
| • for signaling contact | 2 |
| type of electrical connection | |
| • for signaling contact | Screw terminal 0.5 - 2.5 mm ² |
| • at input | FE / + / - screw-type terminal 0,5 - 2,5 mm ² |
| • at output | 2x + / 2x - , screw-type terminal 0.5 - 2.5 mm ² |
| signal inputs/outputs | |
| product component / signaling contact | Yes |
| relay design | Normal open contact (N/O) |
| operating voltage / of the signaling contacts | |
| • at DC / rated value | 24 V |
| • at DC / maximum | 60 V |
| operational current / of the signaling contacts | |
| • at DC / maximum | 0.3 A |
| • at DC / at 30 V / maximum | 0.3 A |
| design, dimensions and weights | |
| width | 483 mm |
| height | 43.6 mm |
| depth | 150 mm |
| net weight | 0.5 kg |
| product feature / of the enclosure / housing can be lined up | Yes |
| fastening method | |
| • 19-inch installation | No |
| • wall mounting | No |
| • 35 mm top hat DIN rail mounting | Yes |
| • S7-300 rail mounting | No |
| ambient conditions | |
| ambient temperature | |
| • during operation | -40 ... +70 °C |
| • during storage | -40 ... +85 °C |
| • during transport | -40 ... +85 °C |
| • note | Convection |
| relative humidity / at 25 °C / without condensation / during operation / maximum | 95 % |
| environmental category / according to IEC 60721 | Climate class 3K3, without condensation |
| protection class IP | IP20 |
| standards, specifications, approvals | |
| standard | |
| • for safety / from CSA and UL | cULus listed (UL508, CSA C22.2 No. 107.1) |
| • for emitted interference | EN 61000-6-4: 2007 |
| • for interference immunity | EN 61000-6-2 |
| certificate of suitability | EN 61000-6-4: 2007 |
| • CE marking | Yes |
| • C-Tick | Yes |
| further information / internet-Links | |
| Internet-Link | |

- to web page: selection aid TIA Selection Tool
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAX-Download-Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>
<http://www.siemens.com/simatic-net>
<https://mall.industry.siemens.com>
<http://www.siemens.com/industry/infocenter>
<http://automation.siemens.com/bilddb>
<http://www.siemens.com/cax>
<https://support.industry.siemens.com>

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