

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

Input: DC 24 V, Output: DC 54 V / 1.6 A, NEC CLASS 2

suitability for use

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 <http://www.siemens.com/snst>
- to website: Industrial communication <http://www.siemens.com/simatic-net>
- to website: Industry Mall <https://mall.industry.siemens.com>
- to website: Information and Download Center <http://www.siemens.com/industry/infocenter>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAX-Download-Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <https://support.industry.siemens.com>

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