

Product type designation

Power Supply SCALANCE PS924 PoE

SCALANCE PS9230 PoE power supply for Power-over-Ethernet,
Input: 120/230 V AC, Output: 54 V DC/1.6 A NEC Class 2



Type of current supply	Input: AC 120 / 230 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	AC single phase
Supply voltage / Rated value	230 V
Supply voltage / rated value	85 ... 264 V
Type of voltage / of the supply voltage	AC
Consumed current / at rated supply voltage / maximum	1 A
Design of input / wide range input	Yes
Overvoltage category	Category II
Buffering time / for rated value of the output current / in the event of power failure / minimum	50 ms
Line frequency	
• 50 Hz	Yes
• 60 Hz	Yes
• 1 / Rated value	50 Hz
• 2 / Rated value	60 Hz

Line frequency	47 ... 63 Hz
Input current / at rated input voltage 230 V / Rated value	1 A
Current limitation / of inrush current / at 25 °C / maximum	35 A
Fuse protection type / at input	Fuse T 3.15A 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 $U_a < 2\%$
ON-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 resources / for increasing the power	0
Efficiency in percent	89 %
Power loss [W]	11 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 entrance and outlet	Yes
Galvanic isolation	Safety extra-low output voltage U _{out} acc. to EN 60950-1
Operating resource protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	2 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	PE / L / N 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
Operating 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	42 mm
Height	125 mm
Depth	125 mm
Net weight	0.5 kg
Product feature / of the enclosure / housing for side-by-side mounting	Yes
Mounting type	
• 19-inch installation	No
• wall mounting	No
• 35 mm 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 / acc. to IEC 60721	Climate class 3K3, without condensation
Protection class IP	IP20

Standards, specifications, approvals

Standard	
<ul style="list-style-type: none"> • for safety / from CSA and UL • for emitted interference • for interference immunity 	<p>cULus listed (UL508, CSA C22.2 No. 107.1)</p> <p>EN 61000-6-4: 2007</p> <p>EN 61000-6-2</p>
Certificate of suitability	EN 61000-6-4: 2007
<ul style="list-style-type: none"> • CE marking • C-Tick 	<p>Yes</p> <p>Yes</p>

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET 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 	<p>http://www.siemens.com/snst</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
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