

product type designation



**Power Supply SCALANCE PS9230 PoE**

SCALANCE PS9230PoE 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
Technical Product Detail Page	<a href="https://l.siemens.com/1P6GK5923-0PS00-3AA2">https://l.siemens.com/1P6GK5923-0PS00-3AA2</a>
suitability for use	Power supply for PoE
<b>electrical data / input</b>	
voltage curve / at input	AC single phase
<b>supply voltage / 1 / rated value</b>	230 V
• supply voltage / 1 / rated value	85 ... 264 V
• consumed current / 1 / 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
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
<b>electrical data / output</b>	
voltage curve / at output	Controlled, isolated DC voltage, adjustable from 48 V to 54 V
output voltage	
• 1 / 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	89 %
power loss [W]	11 W
<b>electrical data / closed-loop control</b>	
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
<b>electrical data / protection and monitoring</b>	
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
<b>electrical data / safety</b>	
galvanic isolation / between input and output	Yes
galvanic isolation	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	2 mA
<b>interfaces</b>	
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 <sup>2</sup>
• at input	PE / L / N screw-type terminal 0.5 - 2.5 mm <sup>2</sup>
• at output	2x + / 2x - , screw-type terminal 0.5 - 2.5 mm <sup>2</sup>
<b>signal inputs/outputs</b>	
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
<b>design, dimensions and weights</b>	
width	42 mm
height	125 mm
depth	125 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 DIN-rail mounting	Yes
• S7-300 rail mounting	No
<b>ambient conditions</b>	
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
<b>standards, specifications, approvals</b>	
standard	
<ul style="list-style-type: none"> <li>• for safety / from CSA and UL</li> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	cULus listed (UL508, CSA C22.2 No. 107.1) EN 61000-6-4: 2007 EN 61000-6-2
certificate of suitability	EN 61000-6-4: 2007
<ul style="list-style-type: none"> <li>• CE marking</li> <li>• C-Tick</li> </ul>	Yes Yes
MTBF	115 a

**standards, specifications, approvals / Environmental Product Declaration**

Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>• total</li> <li>• during manufacturing</li> <li>• during operation</li> <li>• after end of life</li> </ul>	595.15 kg 62.11 kg 532.64 kg 0.4 kg

**further information / internet links**

internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

**security information**

security information	<p>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 solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
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**Approvals / Certificates**

**General Product Approval**

[Declaration of Conformity](#)



[China RoHS](#)

**General Product Approval Environment**



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