

### 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
<b>electrical data / input</b>	
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
<b>electrical data / output</b>	
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	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 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
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 <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>
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	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 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

<ul style="list-style-type: none"> <li>during transport</li> <li>note</li> </ul>	-40 ... +85 °C 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
<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 <ul style="list-style-type: none"> <li>CE marking</li> <li>C-Tick</li> </ul>	EN 61000-6-4: 2007 Yes Yes
<b>further information / internet-Links</b>	
Internet-Link <ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>last modified:</b>	12/18/2020 