SIEMENS

Data sheet 6GK5923-0PS00-3AA2

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
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 Ua < 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 Uout 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 mm²
● at input	PE / L / N screw-type terminal 0.5 - 2.5 mm²
● at output	2x + / 2x - , screw-type terminal 0.5 - 2.5 mm²
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 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
reference code	
● according to IEC 81346-2:2019	TBA

standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	595.15 kg
● during manufacturing	62.11 kg
● during operation	532.64 kg
● after end of life	0.4 kg

further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

security information	
security information	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 www.siemens.com/cybersecurity-industry. 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 https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval

Declaration of Conformity

Environment

Confirmation

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