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Show actual product details

Data sheet 6GK5923-0PS00-3AA2

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 / 1.6 A DC 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 / at rated 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

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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 %
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

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Galvanic isolation / between entrance and outlet	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 terminal 0.5 - 2.5 mm²
• at output	2x + / 2x - , screw 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
Operating current / of the signaling contacts	
• at DC / maximum	0.3 A
• at DC / at 30 V / maximum	0.3 A

Design, dimensions and weight	
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

Permitted ambient conditions	
Ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
• Note	Convection

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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	
• 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 website: Selector SIMATIC NET 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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