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Data sheet 6GK5924-0PS00-1AA2

product type designation	**Power Supply SCALANCE PS924 PoE**
	SCALANCE PS924 PoE power supply for power over Ethernet, input: 24 V DC output: 54 V DC/1.6 A NEC Class 2.



type of current supply	Input: DC 24 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	DC
supply voltage / rated value	24 V
supply voltage / rated value	19.2 ... 28.8 V
type of voltage / of the supply voltage	DC
consumed current / at rated supply voltage / maximum	4.1 A
design of input / wide range input	No
buffering time / for rated value of the output current / in the event of power failure / minimum	5 ms
current limitation / of inrush current / at 25 °C / maximum	10 A
fuse protection type / at input	Fuse T 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	86 %
power loss [W]	14 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	

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● 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 III
leakage current	
● maximum	3.5 mA
● typical	0 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	FE / + / - 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	483 mm
height	43.6 mm
depth	150 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
● 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

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further information / internet links	
internet link	
● to web page: selection aid TIA 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

last modified: 9/1/2023

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