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Data sheet 6GK5598-1AA00-3AA0

product type designation	**Power Supply PS598-1**
	SCALANCE PS598-1 Power-Supply 300 W input: 85-264 V AC IEC plug; Output: DC 24 V connecting terminals or for direct connection to SCALANCE X-500.



product brand name	SCALANCE
type of current supply	300 W, input: 85-264 V, output:DC 24
Technical Product Detail Page	https://i.siemens.com/1P6GK5598-1AA00-3AA0
electrical data	
product category	Power supply
electrical data / input	
voltage curve / at input	AC single phase
supply voltage / 1 / rated value	230 V
● supply voltage / 1 / rated value	85 ... 264 V
● type of voltage / 1 / of the supply voltage	AC
design of input / wide range input	Yes
overvoltage category	Category II (20 A rated branch circuit)
buffering time / for rated value of the output current / in the event of power failure / minimum	16 ms
line frequency	47 ... 63 Hz
input current / at rated input voltage 230 V / rated value	1.8 A
current limitation / of inrush current / at 25 °C / maximum	40 A
fuse protection type / at input	replaceable
electrical data / output	
voltage curve / at output	Controlled, isolated DC voltage
output voltage	
● 1 / at DC / rated value	24 V
display version / for normal operation	Green LED for 24 V ok and fault LED
behavior of the output voltage / when switching on	Overshoot of Ua < 5 %
startup delay time / maximum	1.5 s
voltage increase time / of the output voltage / maximum	15 ms
output current	
● rated value	12.5 A
● rated range	0 ... 12.5 A
supplied active power / typical	300 W
product feature / parallel switching of channels	Yes
number of parallel-switched equipment resources / for increasing the power	2
efficiency in percent	87 %
power loss [W]	39 W
electrical data / closed-loop control	
relative overall tolerance / of the voltage	2 %
residual ripple / maximum	0.36 V

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voltage peak / maximum	240 V
relative control precision / of the output voltage	
● on slow fluctuation of input voltage	0.2 %
● on slow fluctuation of ohm loading	0.4 %
● load step of resistive load 50/100/50 % / typical	3.25 %
● with rapid fluctuation of the input voltage by +/- 15% / typical	0.8 %
setting time	
● load step 50 to 100% / typical	2 ms
● load step 100 to 50% / typical	2 ms
electrical data / protection and monitoring	
design of the overvoltage protection / at output	< 37 V
response value current limitation / typical	1.15 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 and EN 50178
operating resource protection class	Class I
leakage current	
● maximum	3 mA
● typical	0.858 mA
interfaces	
type of electrical connection	
● at input	IEC plug
● at output	for plugging into basic device or screw terminal in accordance with specification
design, dimensions and weights	
width	446 mm
height	44 mm
depth	140 mm
net weight	1.7 kg
product feature / of the enclosure / housing can be lined up	No
fastening method	Plugged into the basic unit or rack mounted
● 19-inch installation	Yes
● wall mounting	No
● DIN-rail mounting	No
● S7-300 rail mounting	No
ambient conditions	
ambient temperature	
● during operation	60 °C
● during storage	-25 ... +70 °C
● during transport	-25 ... +70 °C
● note	Operation with integral fan, non-replaceable
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	UL 60950-1, CSA C22.2 No. 60950-1
● for emitted interference	EN 55022 (Class B)
● for interference immunity	EN 61000-6-2
certificate of suitability	EN 55022, EN 61000-6-4
● CE marking	Yes
● C-Tick	Yes
● E1 approval	No
● E1 approval	No
● railway application in accordance with EN 50155	No
● railway application in accordance with EN 50124-1	No
● IEC 61850-3	No
MTBF	17.47 a

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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

China RoHS

General Product Approval	EMV	Environment
Manufacturer Declaration		

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