## **SIEMENS**

## 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
Type of current supply	300 W, input: 85-264 V, output:DC 24

Electrical data / Input	
Voltage curve / at input	AC single phase
Supply voltage / at AC	85 264 V
Supply voltage / 1 / at AC / Rated value	230 V
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 /	16 ms
in the event of power failure / minimum	
Line frequency	
• 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	1.8 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 / 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 %
ON-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 resources / for	2
increasing the power	
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		
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 %		
	0.8 %		
<ul> <li>with rapid fluctuation of the input voltage by +/- 15% / typical</li> </ul>	0.0 //		
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 entrance and outlet	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		
Signal inputs/outputs			
Width	446 mm		
Height	44 mm		
Depth	140 mm		
Net weight	1.7 kg		
Product feature / of the enclosure / housing for side- by-side mounting	No		
Mounting type	Plugged into the basic unit or rack mounted		
• 19-inch installation	Yes		
wall mounting	No		
wan mounting			

Standard rail mounting	No
● S7-300 rail mounting	No

Ambient conditions	
Ambient temperature	
<ul><li>during operation</li></ul>	60 °C
during storage	-25 +70 °C
during transport	-25 +70 °C
• Note	Operation with integral fan, non-replaceable
Environmental category / acc. to IEC 60721	Climate class 3K3, without condensation
Protection class IP	IP20

Standards, specifications, approvals	
Standard	
<ul><li>for safety / from CSA and UL</li></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
<ul> <li>Railway application in accordance with EN 50155</li> </ul>	No
<ul> <li>Railway application in accordance with EN 50124-1</li> </ul>	No
• IEC 61850-3	No

Further	inform	ation	/ Intern	et-l inks

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
<ul> <li>to website: Industrial communication</li> </ul>	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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