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
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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	1.8 A
value	
Current limitation / of inrush current / at 25 °C /	40 A
maximum	
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 /	15 ms
maximum	
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 %
 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 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
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Type of electrical connection • at input • at output for plugging into basic device or screw terminal in accordance with specification

Design, dimensions and weight	
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
Standard rail mounting	No
• S7-300 rail mounting	No

Permitted 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 / acc. 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

Further Information / Internet Links

Internet-Link

last modified:

• to website: Selector SIMATIC NET

SELECTION TOOL

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

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