## **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 / in the event of power failure / minimum	16 ms
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 %
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
voltage peak / maximum	240 V
relative control precision / of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.2 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.4 %
<ul> <li>load step of resistive load 50/100/50 % / typical</li> </ul>	3.25 %

<ul> <li>with rapid fluctuation of the input voltage by +/- 15% / typical</li> </ul>	0.8 %
setting time	
<ul><li>load step 50 to 100% / typical</li></ul>	2 ms
<ul> <li>load step 100 to 50% / typical</li> </ul>	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	0.000
maximum	3 mA
• typical	0.858 mA
interfaces	0.000 Ha (
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	for plugging into basic device of screw terminal in accordance with specification
width	446 mm
	44 mm
height	140 mm
depth	1.7 kg
net weight	No
product feature / of the enclosure / housing can be lined up fastening method	
19-inch installation	Plugged into the basic unit or rack mounted Yes
	No
<ul><li>wall mounting</li><li>standard rail mounting</li></ul>	No
• S7-300 rail mounting	No
ambient conditions	NO
ambient temperature	60 °C
during operation     during storage	-25 +70 °C
during storage     during transport	-25 +70 °C
<ul><li>during transport</li><li>note</li></ul>	Operation with integral fan, non-replaceable
	Climate class 3K3, without condensation
environmental category / according to IEC 60721 protection class IP	IP20
standards, specifications, approvals	11 20
standard	LII 60050 1 CCA C22 2 No. 60050 1
<ul> <li>for safety / from CSA and UL</li> <li>for emitted interference</li> </ul>	UL 60950-1, CSA C22.2 No. 60950-1 EN 55022 (Class B)
for interference immunity     certificate of suitability	EN 61000-6-2 EN 55022, EN 61000-6-4
•	Yes
CE marking     C-Tick	Yes
E1 approval	No
E1 approval     E1 approval	No
<ul> <li>railway application in accordance with EN 50155</li> </ul>	No
railway application in accordance with EN 50155     railway application in accordance with EN 50124-1	No
IEC 61850-3      IEC 61850-3	No
MTBF	17.47 a
further information / internet links	11. <del>1</del> 7
internet link	http://www.gigmong.com/onet
to web page: selection aid TIA Selection Tool     to website: Industrial communication	http://www.siemens.com/snst
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall     to website: Information and Download Contact	https://mall.industry.siemens.com
to website: Information and Download Center     to website: Image database	http://www.siemens.com/industry/infocenter
to website: Image database	http://automation.siemens.com/bilddb

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