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	
 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
standard rail mounting	No
• S7-300 rail mounting	No
ambient conditions	140
ambient temperature	60 °C
during operationduring storage	-25 +70 °C
during storage during transport	-25 +70 °C
• note	Operation with integral fan, non-replaceable
environmental category / according to IEC 60721	Climate class 3K3, without condensation
	IP20
protection class IP standards, specifications, approvals	II ZV
standard	III 60050 1 CSA C22 2 No. 60050 1
 for safety / from CSA and UL for emitted interference 	UL 60950-1, CSA C22.2 No. 60950-1
	EN 55022 (Class B) EN 61000-6-2
for interference immunity certificate of suitability	
certificate of suitability	EN 55022, EN 61000-6-4 Yes
CE markingC-Tick	Yes
• E1 approval	No No
E1 approval railway application in accordance with EN 50155.	No.
railway application in accordance with EN 50155 railway application in accordance with EN 50124.1	No No
railway application in accordance with EN 50124-1 IEC 61850.3	No No
• IEC 61850-3	No 17.47.0
MTBF	17.47 a
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-Managerto website: Industry Online Support

http://www.siemens.com/cax https://support.industry.siemens.com

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