6ES7307-1EA01-0AA0

Data sheet



SIMATIC PS307/1AC/24VDC/5A

SIMATIC S7-300 Regulated power supply PS307 input: 120/230 V AC, output: 24 V/5 A DC

type of the power supply network 1-phase AC supply voltage AC Automatic range selection supply voltage 120 V/230 V input voltage 1 at AC 85 132 V input voltage at AC 170 264 V wide range input No overvoltage overload capability 2.3 × Vin rated, 1.3 ms buffering time for rated value of the output current in the event of power failure minimum 20 ms operating condition of the mains buffering at Vin = 93/187 V line frequency 50/60 Hz line frequency 47 63 Hz input current 4 rated input voltage 120 V • at rated input voltage 230 V 1.2 A current limitation of inrush current at 25 °C maximum 20 A duration of inrush current infilting at 25 °C 8 • maximum 1.2 A²-8 fuse protection type in the feeder Recommended miniature circuit breaker: from 6 A characteristic C output voltage at DC rated value 24 V output voltage adjustable No; - e at output 1 at DC rated value 24 V output voltage adjustable No; - <	input		
Supply voltage 14 AC 85 132 V	type of the power supply network	1-phase AC	
input vollage 1 at AC 85 132 V input vollage 2 at AC 170 264 V wide range input No overvoltage overfoad capability 2.3 x Vin rated, 1.3 ms buffering time for rated value of the output current in the event of power failure minimum 20 ms operating condition of the mains buffering at Vin = 99/187 V line frequency 50/60 Hz line frequency 4 may 63 Hz input current 2.3 A at rated input voltage 230 V 2.3 A current limitation of inrush current at 25 °C maximum 20 A duration of inrush current limiting at 25 °C 3 ms fuse protection type in the feeder 7 3.15 A/250 V (not accessible) fuse protection type in the feeder Recommended miniature circuit breaker: from 6 A characteristic C output voltage at DC rated value 24 V output voltage at DC rated value 24 V output voltage adjustable No; - relative overall tolerance of the voltage 3 % e at output 1 at DC rated value 24 V output voltage adjustable No; - e natiow fluctuation of input voltage <	supply voltage at AC	Automatic range selection	
Input vollage 2 at AC	supply voltage	120 V/230 V	
wide range input No overvoltage overload capability 2.3 × Vin rated, 1.3 ms buffering time for rated value of the output current in the event of power failure minimum 20 ms operating condition of the mains buffering at Vin = 93/187 V line frequency 47 · 63 Hz line frequency 47 · 63 Hz input current at rated input voltage 120 V a trated input voltage 230 V 1.2 A current limitation of inrush current at 25 °C maximum 20 A duration of inrush current limiting at 25 °C maximum 12 Value maximum 3 ms 12t value maximum 1.2 A *s fuse protection type T 3,15 A/250 V (not accessible) fuse protection type in the feeder Recommended miniature circuit breaker: from 6 A characteristic C output voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable No;- relative overall tolerance of the voltage 3 % e on slow fluctuation of input voltage 0.1 % e on slow fluctuation of input voltage 0.1 % e on slow	input voltage 1 at AC	85 132 V	
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at rated input voltage 230 V at rated input voltage 230 V 1.2 A 2.3 A 1.2 A 2.3 A 1.2 A 4. at rated input voltage 230 V 2.3 A 1.2 A 4. at rated input voltage 230 V 2.3 A 4. at rated input voltage 230 V 2.3 A 1.2 A 4. at rated input voltage 25 °C ■ maximum 3 ms 1.2 A²-s 1	line frequency	47 63 Hz	
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output voltage • at output 1 at DC rated value 24 V output voltage adjustable relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical • for DV • typical Green LED for 24 V OK	voltage curve at output	Controlled, isolated DC voltage	
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relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading on slow fluctuation of ohm loading residual ripple maximum typical otypical otypica	at output 1 at DC rated value	24 V	
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on slow fluctuation of ohm loading residual ripple maximum		0.1 %	
residual ripple maximum	·		
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voltage peak • maximum • typical display version for normal operation 150 mV 20 mV Green LED for 24 V OK			
 maximum typical display version for normal operation 150 mV 20 mV Green LED for 24 V OK 	•		
● typical 20 mV display version for normal operation Green LED for 24 V OK		150 mV	
display version for normal operation Green LED for 24 V OK			
	<u> </u>		

response delay maximum	2 s
voltage increase time of the output voltage	
• typical	10 ms
output current	
rated value	5 A
rated range	0 5 A
supplied active power typical	120 W
short-term overload current	
 on short-circuiting during the start-up typical 	20 A
at short-circuit during operation typical	20 A
duration of overloading capability for excess current	
on short-circuiting during the start-up	100 ms
at short-circuit during operation	100 ms
bridging of equipment	Yes
efficiency	
efficiency in percent	87 %
power loss [W]	<i>C. 18</i>
at rated output voltage for rated value of the output	18 W
current typical	
closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	4.07
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
load step 50 to 100% typical	0.3 ms
load step 100 to 50% typical	0.3 ms
protection and monitoring	
design of the overvoltage protection	Additional control loop, shutdown at < 28.8 V, automatic restart
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	5.5 6.5 A
enduring short circuit current RMS value	
maximum	7 A
safety	
galvanic isolation between input and output	Yes
	0.61
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
galvanic isolation operating resource protection class	Class I
operating resource protection class	
operating resource protection class leakage current	Class I
operating resource protection class leakage current • maximum	Class I 3.5 mA
operating resource protection class leakage current • maximum • typical	Class I 3.5 mA 0.5 mA
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA
operating resource protection class leakage current • maximum • typical protection class IP EMC	Class I 3.5 mA 0.5 mA
operating resource protection class leakage current • maximum • typical protection class IP EMC standard	Class I 3.5 mA 0.5 mA IP20
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes Yes No
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes Yes Yes No Yes; R-41183539
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes Yes Yes No Yes; R-41183539 Yes
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes Yes Yes No Yes; R-41183539
operating resource protection class leakage current	Class I 3.5 mA 0.5 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289 Yes Yes Yes Yes No Yes; R-41183539 Yes

• IECEx	Yes; IECEx Ex nA nC IIC T3 Gc	
• ATEX	Yes; ATEX (EX) II 3G Ex nA nC IIC T3 Gc	
ULhazloc approval	Yes	
• cCSAus, Class 1, Division 2	No	
• UKEX	Yes	
 CCC for hazardous zone according to GB standard 	Yes	
FM registration	Yes; Class I, Div. 2, Group ABCD, T4	
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	
Marine classification association		
 American Bureau of Shipping Europe Ltd. (ABS) 	No	
French marine classification society (BV)	No	
Det Norske Veritas (DNV)	Yes	
Lloyds Register of Shipping (LRS)	Yes	
standards, specifications, approvals Environmental Product De	claration	
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]	100	
• total	504.2 kg	
during manufacturing	11.3 kg	
during manufacturing during operation	492.3 kg	
after end of life	0.41 kg	
ambient conditions	U.TI Ng	
ambient temperature	0 CO °C with netweet converti-	
during operation	0 60 °C; with natural convection	
during transport	-40 +85 °C	
during storage	-40 +85 °C	
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation	
connection method		
type of electrical connection	screw terminal	
• at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded	
• at output	L+, M: 3 screw terminals each for 0.5 2.5 mm ²	
for auxiliary contacts	-	
mechanical data		
width × height × depth of the enclosure	60 × 125 × 120 mm	
installation width y mounting height	60 mm × 205 mm	
installation width × mounting height		
required spacing		
	40 mm	
required spacing	40 mm 40 mm	
required spacing • top		
required spacing • top • bottom	40 mm	
required spacing • top • bottom • left	40 mm 0 mm	
required spacing	40 mm 0 mm 0 mm	
required spacing	40 mm 0 mm Can be mounted onto S7 rail	
required spacing	40 mm 0 mm 0 mm Can be mounted onto S7 rail	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes 0.6 kg	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories mechanical accessories	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting • wall mounting housing can be lined up net weight accessories mechanical accessories further information internet links	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes 0.6 kg	
required spacing	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes O.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00)	
required spacing	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes O.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00)	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories mechanical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes O.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00) https://mall.industry.siemens.com https://www.siemens.com/tstcloud	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories mechanical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to website: CAx-Download-Manager	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes O.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00) https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories mechanical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to website: CAx-Download-Manager • to website: Industry Online Support	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes O.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00) https://mall.industry.siemens.com https://www.siemens.com/tstcloud	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories mechanical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to website: CAx-Download-Manager • to website: Industry Online Support additional information	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes 0.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00) https://mall.industry.siemens.com https://siemens.com/cax https://support.industry.siemens.com	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight accessories mechanical accessories further information internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to website: CAx-Download-Manager • to website: Industry Online Support	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes 0.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00) https://mall.industry.siemens.com https://siemens.com/cax https://support.industry.siemens.com Specifications at rated input voltage and ambient temperature +25 °C (unless	
required spacing	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes 0.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00) https://mall.industry.siemens.com https://siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com	
required spacing	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes 0.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00) https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/cax https://support.industry.siemens.com Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	
required spacing • top • bottom • left • right fastening method • DIN-rail mounting • S7 rail mounting • wall mounting • to weight accessories mechanical accessories further information internet links • to website: Industry Mall • to website: Industry Mall • to website: CAx-Download-Manager • to website: Industry Online Support additional information other information	40 mm 0 mm 0 mm Can be mounted onto S7 rail No Yes No Yes 0.6 kg Mounting adapter for standard mounting rail (6EP1971-1BA00) https://mall.industry.siemens.com https://siemens.com/cax https://support.industry.siemens.com Specifications at rated input voltage and ambient temperature +25 °C (unless	

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)

Version	Classification
14	27-04-07-01
12	27-04-07-01
9.1	27-04-07-01
9	27-04-07-01
8	27-04-90-02
7.1	27-04-90-02
6	27-04-90-02
9	EC002540
8	EC002540
7	EC002540
4	4130
15	39-12-10-04
	14 12 9.1 9 8 7.1 6 9 8 7

Approvals Certificates

General Product Approval









<u>KC</u>



EMV

Functional Saftey

Test Certificates

Maritime application



Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>





Maritime application

other







Confirmation

Miscellaneous

Confirmation

other

Railway

Environment

Miscellaneous

Special Test Certific-<u>ate</u>



EcoTech



Environmental Confirmations

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4/4/2025



