SIEMENS

Data sheet

6ES7307-1EA01-0AA0



SIMATIC PS307/1AC/24VDC/5A

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

lype of the power supply network 1-phase AC supply voltage at AC Automatic range selection input voltage 1 at AC 85132 V input voltage 2 at AC 170264 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 for 8 operating condition of the mains buffering at Vin = 93/187 V line frequency 60/60 Hz line frequency 47 63 Hz ing to urrent 33 × 0 et at rated input voltage 120 V 23 A et at rated input voltage 230 V 1.2 A current limitation of invisit current at 25 °C 3 ms i21 value maximum 1.2 A^* s fuse protection type 1.3 15 A/250 V (not accessible) <	input	
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Input voltage 1 at AC 85 132 V Input voltage 2 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 50/60 Hz in frequency 2.3 A • at rated input voltage 120 V 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 at 25 °C maximum 3 ms 121 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 8 A characteristic C output voltage at DC rated value 24 V output voltage at DC rated value 24 V output voltage at DC rated value 3 % relative correll to erace of the voltage 3 % relative correll to erace of the voltage 0.1 % output voltage adjustable No; - erasimum 50 mV • on slow fluctuation of hom loading 0.5 % residual ripple </td <td>supply voltage at AC</td> <td>Automatic range selection</td>	supply voltage at AC	Automatic range selection
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• maximum 50 mV • typical 10 mV voltage peak 10 mV • maximum 150 mV • typical 20 mV		
• typical 10 mV voltage peak - • maximum 150 mV • typical 20 mV		50 mV
voltage peak • maximum • typical 150 mV 20 mV		
• maximum 150 mV • typical 20 mV		
• typical 20 mV		150 mV
	display version for normal operation	
behavior of the output voltage when switching on No overshoot of Vout (soft start)		No overshoot of Vout (soft start)

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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]	
 at rated output voltage for rated value of the output current typical 	18 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of	1 %
resistive load 50/100/50 % typical	
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
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	3.5 mA
• typical	0.5 mA
protection class IP	IP20
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
• CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
UKCA marking	Yes
 EAC approval 	Yes
EAC approvalNEC Class 2	Yes No
NEC Class 2	
NEC Class 2 type of certification	No
NEC Class 2 type of certification BIS	No Yes; R-41183539
NEC Class 2 type of certification BIS CB-certificate	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 CCC for bozordoup zone cooperating to CR standard	Yes		
 CCC for hazardous zone according to GB standard FM registration 	Yes		
standards, specifications, approvals marine classification	Yes; Class I, Div. 2, Group ABCD, T4		
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			
Environmental Product Declaration	Yes		
Global Warming Potential [CO2 eq]			
• total	575.4 kg		
during manufacturing	11.8 kg		
during operation	563.1 kg		
after end of life	0.38 kg		
ambient conditions			
ambient temperature			
during operation	0 60; with natural convection		
during transport	-40 +85		
during storage	-40 +85		
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 mm ² 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 × mounting height	60 mm × 205 mm		
required spacing			
• top	40 mm		
bottom	40 mm		
• left	0 mm		
● right	0 mm		
fastening method	Can be mounted onto S7 rail		
standard rail mounting	No		
• S7 rail mounting	Yes		
wall mounting	No		
housing can be lined up	Yes		
net weight	0.6 kg		
accessories			
mechanical accessories	Mounting adapter for standard mounting rail (6EP1971-1BA00)		
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com		
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud		
• to website: CAx-Download-Manager	https://siemens.com/cax		
• to website: Industry Online Support	https://support.industry.siemens.com		
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless		
	otherwise specified)		
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber		

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Classifications			
		Version	Classification
	eClass	14	27-04-07-01
	eClass	12	27-04-07-01
	eClass	9.1	27-04-07-01
	eClass	9	27-04-07-01
	eClass	8	27-04-90-02
	eClass	7.1	27-04-90-02
	eClass	6	27-04-90-02
	ETIM	9	EC002540
	ETIM	8	EC002540
	ETIM	7	EC002540
	IDEA	4	4130
	UNSPSC	15	39-12-10-04
Approvals Certificates			
General Product Approval			EMV
			•
UK Ce Confirmation	<u> </u>	COC	kà.
		LUL	
	UL		104.00

 Test Certificates
 other
 Railway
 Environment

 Type Test Certificates/Test Report
 Special Test Certificate
 Confirmation
 Special Test Certificate
 Environmental Confirmations

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