6ES7307-1EA80-0AA0

## **Data sheet**



## SIMATIC PS307/1AC/24VDC/5A/OUTDOOR

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

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Set by means of selector switch on the device
supply voltage	
1 at AC rated value	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	93 132 V
• 2 at AC	187 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 V
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	
1 rated value	50 Hz
2 rated value	60 Hz
line frequency	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	2.1 A
<ul> <li>at rated input voltage 230 V</li> </ul>	1.2 A
current limitation of inrush current at 25 °C maximum	45 A
duration of inrush current limiting at 25 °C	
maximum	3 ms
I2t value maximum	1.8 A <sup>2</sup> ·s
fuse protection type	T 3,15 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C or from 6 A characteristic D
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
<ul> <li>at output 1 at DC rated value</li> </ul>	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
on slow fluctuation of input voltage	0.2 %
on slow fluctuation of ohm loading	0.4 %
residual ripple	

* maximum     * bypical     voltage peak     * maximum     * typical     voltage peak     * maximum     * typical     product function output voltage adjustable     type of output voltage adjustable     type of output voltage setting     display version for normal operation     behavior of the output voltage when switching on     response delay maximum     3 s     voltage increase time of the output voltage     * typical     output current     * rated value     * rated range     upplied active power typical     short-circuit during operation typical     * at short-circuit during operation typical     * at short-circuit during operation typical     * at short-circuit during operation     product feature     * bridging of equipment     * bridgin	1	450
voltage peak		
• maximum		4U mv
product function output voltage adjustable type of output voltage setting - display version for normal operation - display maximum - 3 s - voltage increase time of the output voltage - typical - 100 ms - output current - rated value - for a total value - for a		
product function output voltage adjustable type of output voltage setting display version for normal operation behavior of the output voltage when switching on response delay maximum 3 s voltage increase time of the output voltage  • typical output current • rated value • rated range supplied active power typical short-term overload current • on short-circuiting during the start-up typical duration of overloading capability for excess current • on short-circuiting during the start-up • at short-circuit during operation typical duration of overloading capability for excess current • on short-circuiting during the start-up • at short-circuit during operation product feature • bridging of equipment  Efficiency  efficiency in percent power loss [W]  o at rated output voltage for rated value of the output current typical  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time • load step 50 to 100% typical • load step 50 to 100% typical • load step 50 to 100% typical • maximum  5 ms  Protection and monitoring  design of the overvoltage protection enduring short circuit current RMS value  Electronic shutdown, automatic restart  enduring short circuit current RMS value		
type of output voltage setting display version for normal operation Dehavior of the output voltage when switching on response delay maximum 3 s voltage increase time of the output voltage • typical output current • rated value • rated range 0 5 A supplied active power typical 120 W short-term overload current • at short-circuit guring the start-up typical • at short-circuit during operation typical 20 A duration of overloading capability for excess current • on short-circuiting during the start-up • at short-circuit during operation of overloading operation typical • at short-circuit during operation of overloading operation operation of overloading operation operation of operation ope		******
display version for normal operation behavior of the output voltage when switching on response delay maximum voltage increase time of the output voltage  • typical output current • rated value • rated value • rated value • no short-circuit guing the start-up typical at short-circuit during operation typical duration of overloading capability for excess current • on short-circuit during operation typical at short-circuit during operation  product feature • bridging of equipment  Efficiency  efficiency  efficiency in percent power loss [W] • at rated output voltage for rated value of the output current typical  closed-loop control relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical olad set on 50 ms  protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit turcurent RMS value		No
behavior of the output voltage when switching on response delay maximum 3 s s voltage increase time of the output voltage   • typical		•
response delay maximum  voltage increase time of the output voltage  • typical  output current  • rated value  • rated range  supplied active power typical  short-term overload current  • on short-circuiting during the start-up typical  • at short-circuit during operation typical  • at short-circuiting during the start-up  • on short-circuit during operation  • on short-circuit poperation  • on short-circuit poperation  • on short-circuit poperation  • on short-circuit poperation  relative control precision of the output voltage with rapid fluctuation of the input voltage by *r-* 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  • load step 50 to 100% typical  • maximum	display version for normal operation	Green LED for 24 V OK
voltage increase time of the output voltage  • typical  • typical  • rated value  • rated range  supplied active power typical  short-term overload current  • on short-circuiting during the start-up typical  • at short-circuit during operation typical  duration of overloading capability for excess current  • on short-circuitid during operation  • on short-circuit during operation  • on s	behavior of the output voltage when switching on	No overshoot of Vout (soft start)
output current  • rated value  • rated range  • on short-circuiting during the start-up typical  • at short-circuit during operation  • on short-circuit during operation  • No  Efficiency  • efficiency  • bridging of equipment  • No  Efficiency  • efficiency  • bridging of equipment  • No  Efficiency  • at atted output voltage for rated value of the output current typical  • at atted output voltage for rated value of the output current typical  • 23 W  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 501100050 % typical  • load step 50 to 100% typical  • load step 50 to 100% typical  • load step 50 to 100% typical  • load step 100 to 50% typical  • load step 100 to 50% typical  • load step 100 to 50% typical  • maximum  •	response delay maximum	3 s
output current  • rated value  • rated value  • rated range  supplied active power typical  short-term overload current  • on short-circuiting during the start-up typical  • at short-circuit during operation typical  • at short-circuit during operation typical  on short-circuiting during the start-up  • at short-circuiting during the start-up  • bridging of equipment  • bridging of equipment  • bridging of equipment  • bridging of equipment  **Efficiency**  efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical  **Closed-loop control**  relative control precision of the output voltage with rapid fluctuation of the input voltage by t-/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  • load step 50 to 100% typical  • load step 50 to 100% typical  • load step 100 to 50% typical  setting time  • maximum  • maximum   **Torotection and monitoring**  design of the output short-circuit profection  response value current limitation  property of the output short-circuit profection  electronic shutdown, automatic restart  enduring short circuit current RMS value	voltage increase time of the output voltage	
• rated value • rated range 0 5 A  supplied active power typical 120 W  short-term overload current • on short-circuiting during the start-up typical • at short-circuit during operation typical 0 at short-circuit during operation typical 20 A  duration of overloading capability for excess current • on short-circuiting during the start-up • at short-circuit during operation • on short-circuiting during the start-up • at short-circuit during operation • on short-circuiting during the start-up • at short-circuit during operation  product feature • bridging of equipment  Efficiency  efficiency  efficiency in percent  power loss [W] • at rated output voltage for rated value of the output current typical  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time • load step 50 to 100% typical • load step 50 to 100% typical • load step 100 to 50% typical  setting time • maximum  5 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation 5.56.5 A  yes  design of short-circuit protection Electronic shutdown, automatic restart enduring short circuit current RMS value	• typical	100 ms
supplied active power typical short-term overload current o on short-circuiting during the start-up typical at short-circuit during operation typical on short-circuit during operation typical at short-circuit during operation typical on short-circuiting during the start-up typical on short-circuiting during the start-up on short-circuit during operation on short-circuit protection enduring short circuit current RMS value	output current	
supplied active power typical short-term overload current on short-circuit during the start-up typical at short-circuit during operation typical duration of overloading capability for excess current on short-circuit during operation typical at short-circuit during operation short-circuit during operation at short-circuit during operation at short-circuit during operation at short-circuit during operation bridging of equipment  No  Efficiency  efficiency  efficiency in percent output voltage for rated value of the output current typical  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time load step 50 to 100% typical olad step 50 to 100% typical setting time maximum  5 ms  Protection and monitoring  design of the overvoltage protection esign of short-circuit protection elsegin of short-circuit protection elsegin of short-circuit protection enduring short circuit current RMS value	• rated value	5 A
short-term overload current  on short-circuiting during the start-up typical at short-circuit during operation typical considering capability for excess current on short-circuiting during the start-up at short-circuiting during operation at short-circuiting during operation at short-circuiting operation at short-circuiting operation by maximum  reduction in product feature bridging of equipment  Short  S	rated range	0 5 A
on short-circuiting during the start-up typical     at short-circuit during operation typical     duration of overloading capability for excess current     on short-circuiting during the start-up     at short-circuit during operation     on short-circuit during operation     on short-circuit during operation     on short-circuit during operation     product feature     obridging of equipment     No  Efficiency  efficiency  efficiency in percent     power loss [W]     on at rated output voltage for rated value of the output current typical  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     olad step 50 to 100% typical     olad step 100 to 50% typical     olad step 100 to 50% typical     olad step 100 to 50% typical     one maximum	supplied active power typical	120 W
e at short-circuit during operation typical  duration of overloading capability for excess current  e on short-circuiting during the start-up e at short-circuit during operation product feature e bridging of equipment  No  Efficiency  efficiency in percent power loss [W] e at rated output voltage for rated value of the output current typical  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time e load step 100 to 50% typical  o load step 100 to 50% typical  setting time e maximum  protection and monitoring  design of the overvoltage protection response value current limitation property of the output short-circuit protection enduring short circuit current RMS value  180 ms 80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80 ms  80	short-term overload current	
duration of overloading capability for excess current  on short-circuiting during the start-up  other start of the output voltage for rated value of the output current typical  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  olad step 50 to 100% typical  elad step 100 to 50% typical  setting time  olad step 50 to 100% typical  olad step	<ul> <li>on short-circuiting during the start-up typical</li> </ul>	20 A
duration of overloading capability for excess current  on short-circuiting during the start-up  other start of the output voltage for rated value of the output current typical  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  olad step 50 to 100% typical  elad step 100 to 50% typical  setting time  olad step 50 to 100% typical  olad step		20 A
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at short-circuit during operation product feature bridging of equipment  No  Efficiency  efficiency  efficiency  efficiency    efficiency    efficiency    efficiency    efficiency    efficiency    efficiency    efficiency    efficiency    efficiency    eat rated output voltage for rated value of the output current typical    23 W      23 W      23 W      24 Closed-loop control    relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time   load step 50 to 100% typical      load step 100 to 50% typical    e load step 100 to 50% typical    e maximum    Protection and monitoring    design of the overvoltage protection    response value current limitation    property of the output short-circuit proof    design of short-circuit protection    enduring short circuit current RMS value		180 ms
product feature		
bridging of equipment  Efficiency  efficiency in percent  power loss [W]     • at rated output voltage for rated value of the output current typical  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time     • load step 50 to 100% typical     • load step 100 to 50% typical  setting time     • maximum      Frotection and monitoring  design of the overvoltage protection     response value current limitation     response value current limitation     property of the output short-circuit proof     design of short-circuit protection     enduring short circuit current RMS value		
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efficiency in percent power loss [W]		
power loss [W]  • at rated output voltage for rated value of the output current typical  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage by symbol delivers on the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  • load step 50 to 100% typical  • load step 100 to 50% typical  • maximum  5 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation  property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value		84 %
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current typical  Closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  • load step 50 to 100% typical  • load step 100 to 50% typical  setting time  • maximum  5 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value		22.14/
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  • load step 50 to 100% typical  • load step 100 to 50% typical  setting time  • maximum  5 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value		25 VV
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relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time  • load step 50 to 100% typical  • load step 100 to 50% typical  setting time  • maximum  5 ms  Protection and monitoring  design of the overvoltage protection response value current limitation property of the output short-circuit proof  design of short-circuit protection enduring short circuit current RMS value  3 %  3 %  3 %  3 %	relative control precision of the output voltage with rapid	0.3 %
resistive load 50/100/50 % typical  setting time  load step 50 to 100% typical  load step 100 to 50% typical  maximum  setting time  maximum  frotection and monitoring  design of the overvoltage protection  response value current limitation  property of the output short-circuit proof  design of short-circuit protection  response value current RMS value  enduring short circuit current RMS value		
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<ul> <li>load step 50 to 100% typical</li> <li>load step 100 to 50% typical</li> <li>setting time</li> <li>maximum</li> <li>maximum</li> <li>5 ms</li> <li>Protection and monitoring</li> <li>design of the overvoltage protection</li> <li>response value current limitation</li> <li>property of the output short-circuit proof</li> <li>design of short-circuit protection</li> <li>Electronic shutdown, automatic restart</li> <li>Electronic shutdown, automatic restart</li> </ul>		
● load step 100 to 50% typical  setting time  ● maximum  5 ms  Protection and monitoring  design of the overvoltage protection  response value current limitation  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value  0.2 ms  5 ms  Protection and monitoring  Additional control loop, shutdown at approx. 30 V, automatic restart  5.5 6.5 A  Yes  Electronic shutdown, automatic restart	•	0.2 ms
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design of the overvoltage protection  Additional control loop, shutdown at approx. 30 V, automatic restart response value current limitation  5.5 6.5 A  property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value		01110
response value current limitation 5.5 6.5 A property of the output short-circuit proof Yes design of short-circuit protection Electronic shutdown, automatic restart enduring short circuit current RMS value		Additional control loop, chutdour et anneu 201/ automotic restort
property of the output short-circuit proof  design of short-circuit protection  enduring short circuit current RMS value  Yes  Electronic shutdown, automatic restart		
design of short-circuit protection  Electronic shutdown, automatic restart  enduring short circuit current RMS value	· ·	
enduring short circuit current RMS value		
		Electronic shutdown, automatic restart
	-	
• maximum 5 A		5 A
Safety		
galvanic isolation between input and output  Yes	galvanic isolation between input and output	Yes
galvanic isolation  Safety extra low output voltage Vout according to EN 60950-1 and EN 50178, creepage distances and clearances > 5 mm	galvanic isolation	
operating resource protection class  Class I	operating resource protection class	·
leakage current		
• maximum 3.5 mA	G	3.5 mA
• typical 0.3 mA		
protection class IP IP20		
Approvals	·	
certificate of suitability	·	Vac
CE marking  Yes  You I'll Find (I'll F00) File F1433000 CSA (CSA C33 3 No. 143)	-	
• UL approval  Yes; UL-Listed (UL 508), File E143289; CSA (CSA C22.2 No. 142)		
CSA approval  Yes; UL-Listed (UL 508), File E143289, CSA (CSA C22.2 No. 142)	USA approval	res; ut-listed (ut 508), File E143289, USA (CSA C22.2 No. 142)

<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
<ul> <li>ULhazloc approval</li> </ul>	No
FM registration	No
type of certification CB-certificate	No
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>French marine classification society (BV)</li> </ul>	No
DNV GL	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55011 Class A
for mains harmonics limitation	
for interference immunity	EN 61000-6-2
environmental conditions	EN 01000 0 2
ambient temperature	
·	25 ±70 °C; with natural convection
during peration     during transport	-25 +70 °C; with natural convection -40 +85 °C
during transport	-40 +85 °C
during storage  Applicant and the storage applicants IFO 60724	
environmental category according to IEC 60721	Climate class 3K5, transient condensation permitted
Mechanics	
type of electrical connection	screw-type terminals
• at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded
• at output	L+, M: 3 screw terminals each for 0.5 2.5 mm <sup>2</sup>
for auxiliary contacts	-
width of the enclosure	80 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
● right	0 mm
net weight	0.57 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Can be mounted onto S7 rail
mechanical accessories	Mounting adapter for standard mounting rail (6ES7390-6BA00-0AA0)
MTBF at 40 °C	2 231 610 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

