MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7307-1EA01-0AA0

FIVE-AMPERE REGULATED POWER SUPPLY

Used with the applicable SIMATIC S7-300 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens documentation from 6ES7307-1EA01-0AA0.pdf

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productdatablad 6ES7307-1EA01-0AA0



SIMATIC S7-300 STABILIZED POWER SUPPLY PS307
INPUT: 120/230 V AC OUTPUT: DC 24 V DC/5 A

Technical specifications	
Input	
Supply voltage / 1 / at AC / nominal value	120 V
Supply voltage / 2 / at AC / nominal value	230 V
Input voltage / 1 / at AC	85 … 132 V
Input voltage / 2 / at AC	170 … 264 V
Wide-range input	Nee
Mains buffering at Iout rated, min.	20 ms
Netfrequentie	50 / 60 Hz
Rated line range	47 ... 63 Hz
Input current / at nominal level of the input voltage 120 V	2,3 A
Ingangsstroom / bij nominale waarde van de ingangsspanning 230 V	1,2 A
Switch-on current limiting (+25 °C), max.	20 A
Duration of current limiting / at 25 °C / maximum	3 ms
I2t-waarde	1,2 $A^2 \cdot s$
Output	
Curvevorm van de spanning	Geregelde, potentiaalvrije gelijkspanning
Uitgangsspanning	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0,1 %

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Static load balancing, approx.	0,5 %
Residual ripple peak-peak, max.	50 mV
Residual ripple peak-peak, typ.	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	150 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV
Product feature / output voltage adjustable	Nee
Uitvoering van de weergave	LED groen voor 24 V O.K.
Aanspreekvertragingstijd	2 s
Spanningsstijgingstijd	10 ms
Rated current value Iout rated	5 A
Uitgangsstroom	0 … 5 A
delivered active power / typ.	120 W
short-term overload current / at short-circuit during run-up / typical	20 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	100 ms
short-term overload current / at short-circuit during operation / typical	20 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	100 ms
Producteigenschap	Ja
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	87 %
Power loss at Vout rated, Iout rated, approx.	18 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0,1 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout ± typ.	1 %
Load step setting time 50 to 100%, typ.	0,3 ms
Load step setting time 100 to 50%, typ.	0,3 ms
Protection and monitoring	
Current limitation	5,5 … 6,5 A
Eigenschap van de uitgang / kortsluitvast	Ja
Enduring short circuit current / Effective level / maximum	7 A
Safety	
Potentiaalscheiding	Ja
Potentiaalscheiding	ZLBS-uitgangsspanning Ua volgens EN 60950-1 en EN 50178
stray current / maximum	3,5 mA
stray current / typical	0,5 mA
Geschiktheidsbewijs	Ja
Geschiktheidsbewijs	Ja
CB approval	Nee
Beschermingsklasse IP	IP20

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EMC	
Operating data	
Ambient temperature / in operation	0 … 60 °C
Ambient temperature / on transport	-40 … +85 °C
Ambient temperature / in storage	-40 … +85 °C
Mechanics	
Uitvoering elektrische aansluiting	schroefaansluiting
Breedte / van de behuizing	60 mm
Hoogte / van de behuizing	125 mm
Diepte / van de behuizing	120 mm
Inbouwbreedte	60 mm
Inbouwhoogte	205 mm
Nettogewicht	0,6 kg
Producteigenschap / van de behuizing / aaneenschakelbare behuizing	Ja
Bevestigingswijze / wandmontage	Nee
Bevestigingswijze / DIN-railmontage	Nee
Mounting type / S7 rail mounting	Ja

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