

SIPLUS S7-300 PS 307 10A -25 ... +70 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7307-1KA02-0AA0 . STABILIZED POWER SUPPLY PS307 INPUT: 120/230 V AC OUTPUT: 24 V DC/10 A

Supply voltage	
120 V AC	Yes ; 85 to 132 V AC
230 V AC	Yes ; 170 to 264 V AC
Overvoltage strength	2.3x Ue rated, 1.3 ms
Line frequency	
permissible frequency range, lower limit	47 Hz
permissible frequency range, upper limit	63 Hz
Mains buffering	
Mains/voltage failure stored energy time	20 ms ; min., for Ia rated and Ue = 93 / 187 V
Repeat rate, min.	1 s
Input current	
Rated value at 120 V AC	4.2 A
Rated value at 230 V AC	1.9 A
Inrush current, max.	55 A ; max. at 25 °C, duration max. 3 ms
Starting current inrush I <sub>p</sub> t	3.3 A <sup>2</sup> s
Leakage current	
Leakage current, typ.	0.6 mA
Leakage current, max.	3.5 mA
Overload capability overload current	80 ms on short circuit during startup and operation
Output voltage	
Rated value, 24 V DC	Yes ; stable at no-load max. 2.5 s
permissible range, lower limit (DC)	23.27 V
permissible range, upper limit (DC)	24.72 V
Power up time, max.	2 s
Voltage rise time, typ.	10 ms
Overvoltage protection	Additional control circuit, cutoff at < 28.8 V, automatic restart
Short-circuit strength	electronic trip, automatic restart
Output current	
Rated value	10 A ; 7 A @ > 60 °C, can be switched in parallel
short-circuit protection	Yes ; Electronic
Residual ripple	

<b>Residual ripple, typ.</b>	15 mV ; Peak - peak
<b>Residual ripple, max.</b>	50 mV ; Peak - peak
<b>Continuous short-circuit current, max.</b>	12 A
<b>Power</b>	
<b>Power consumption, typ.</b>	240 W
<b>Efficiency</b>	90 % ; approx., at U <sub>a</sub> rated, I <sub>a</sub> rated
<b>Power losses</b>	
<b>Power loss, typ.</b>	27 W ; approx., at U <sub>a</sub> rated, I <sub>a</sub> rated
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostics indication LED</b>	
<b>Output voltage 24 V DC (green)</b>	Yes ; OK for 24 V
<b>Galvanic isolation</b>	
<b>primary/secondary</b>	Yes ; SELV output voltage U <sub>a</sub> according to EN 60950-1 and EN 50178
<b>SELV</b>	Yes
<b>Isolation</b>	
<b>Isolation checked with</b>	Rated insulation voltage (24 V against L1) 250 V AC, tested with 4200 V DC
<b>EMC</b>	
<b>EMC interference immunity</b>	EN 61000-6-2
<b>EMC interference emission</b>	EN 55022 Class B
<b>Degree and class of protection</b>	
<b>IP (rear)</b>	IP20
<b>Protection class</b>	1 ; with protective conductor
<b>Standards, approvals, certificates</b>	
<b>CE mark</b>	Yes
<b>Standard for line harmonics limit</b>	EN 61000-3-2
<b>Ambient conditions</b>	
<b>Operating temperature</b>	
<b>Min.</b>	-25 °C ; = T <sub>min</sub>
<b>max.</b>	70 °C ; = T <sub>max</sub> ; 60 °C @ UL/cUL, ATEX and FM use
<b>Extended ambient conditions</b>	
<b>Relative to ambient temperature-atmospheric pressure-installation altitude</b>	T <sub>min</sub> ... T <sub>max</sub> at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
<b>Relative humidity</b>	
<b>With condensation, tested in accordance with IEC 60068-2-38, maximum</b>	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
<b>Resistance</b>	

<b>to biologically active substances/conformity with EN 60721-3-3</b>	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
<b>to chemically active substances/conformity with EN 60721-3-3</b>	Yes ; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
<b>to mechanically active substances/conformity with EN 60721-3-3</b>	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

<b>Dimensions</b>	
<b>Width</b>	80 mm
<b>Height</b>	125 mm
<b>Depth</b>	120 mm

<b>Weights</b>	
<b>Weight, approx.</b>	0.8 kg

Status Jun 6, 2014