

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



Figure similar

Supply voltage	
Rated value (AC)	
• 120 V AC	Yes; 85 to 132 V AC
• 230 V AC	Yes; 170 to 264 V AC
Overtoltage strength	2.3x Ue rated, 1.3 ms
Line frequency	
• permissible range, lower limit	47 Hz
• permissible 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
I ² t	3.3 A ² ·s
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 (DC)	24 V; 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
Residual ripple, typ.	15 mV; Peak - peak
Residual ripple, max.	50 mV; Peak - peak
Output current	
Current output (rated value)	10 A; 7 A @ > 60 °C, can be switched in parallel
Short-circuit protection	Yes; Electronic
Continuous short-circuit current, max.	12 A
Power	
Power consumption, typ.	240 W
Efficiency	90 %; approx., at U _a rated, I _a rated
Power loss	
Power loss, typ.	27 W; approx., at U _a rated, I _a rated
Interrupts/diagnostics/status information	
Diagnostics indication LED	
• Output voltage 24 V DC (green)	Yes; OK for 24 V
Potential separation	
primary/secondary	Yes; SELV output voltage U _a according to EN 60950-1 and EN 50178
SELV	Yes
Isolation	
Isolation tested with	Rated insulation voltage (24 V against L1) 250 V AC, tested with 4 200 V DC
EMC	
EMC interference immunity	EN 61000-6-2
EMC interference emission	EN 55022 Class B
Degree and class of protection	
IP degree of protection	IP20
Protection class	1; with protective conductor
Standards, approvals, certificates	
CE mark	Yes
Standard for line harmonics limit	EN 61000-3-2

Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
Extended ambient conditions	
• relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity	
— With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
— against biologically active substances / conformity with EN 60721-3-3	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!
— against chemically active substances / conformity with EN 60721-3-3	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!
— against mechanically active substances / conformity with EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	0.8 kg
last modified:	07.06.2016