

SIPLUS S7-300 PS 307 -25 ... +70 DGR C WITH
CONFORMAL COATING BASED ON 6ES7307-1EA01-
0AA0 . STABILIZED POWER SUPPLY INPUT: 120/230 V
AC OUTPUT: 24 V DC/5 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
Repeat rate, min.	1 s
Input current	
Rated value at 120 V AC	2.3 A
Rated value at 230 V AC	1.2 A
Inrush current, max.	20 A ; max. at 25 °C, duration max. 3 ms
Starting current inrush I _{st}	1.2 A ² ·s
Leakage current	
Leakage current, typ.	0.5 mA
Leakage current, max.	3.5 mA
Output voltage	
Rated value, 24 V DC	Yes
permissible range, lower limit (DC)	23.27 V
permissible range, upper limit (DC)	24.72 V
Power up time, max.	2 ms
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	5 A ; 3 A @ > 60 °C, can be switched in parallel
Residual ripple	
Residual ripple, typ.	10 mV ; Peak - peak
Residual ripple, max.	50 mV ; Peak - peak

Power	
Power consumption, typ.	138 W
Power loss	
Power loss, typ.	18 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
Galvanic isolation	
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 4200 V DC
EMC	
EMC interference immunity	EN 61000-6-2
EMC interference emission	EN 55022 Class B
Degree and class of protection	
IP (rear)	IP20
Protection class	1
Standards, approvals, certificates	
CE mark	Yes
Standard for line harmonics limit	EN 61000-3-2
Ambient conditions	
Operating temperature	
min.	-25 °C ; = T _{min}
max.	70 °C ; = T _{max} ; 60 °C @ UL/cUL, ATEX and FM use
Extended ambient conditions	
relative to ambient temperature-atmospheric pressure-installation altitude	T _{min} ... T _{max} at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity	
with condensation, tested in accordance with IEC 60068-2-38, maximum	100 % ; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
to 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!
to 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!

to 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	60 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	0.6 kg
Status	Jul 7, 2014