

SIPLUS S7-300 PS305 -25...+60 DGR C WITH
CONFORMAL COATING ACCORD. EN50155 T1 KAT 1 KL
A/B BASED ON 6ES7305-1BA80-0AA0 . STABILIZED
POWER SUPPLY INPUT: 24-110 V DC OUTPUT: 24 V/2 A
DC

Supply voltage	
Rated value, 24 V DC	Yes
Rated value, 48 V DC	Yes
Rated value, 72 V DC	Yes
Rated value, 96 V DC	Yes
Rated value, 110 V DC	Yes
permissible range, lower limit (DC)	16.8 V
permissible range, upper limit (DC)	138 V
Mains buffering	
Mains/voltage failure stored energy time	10 ms
Repeat rate, min.	1 s
Input current	
Rated value at 24 V DC	2.7 A
Rated value at 48 V DC	1.3 A
Rated value at 72 V DC	0.9 A
Rated value at 96 V DC	0.65 A
Rated value at 110 V DC	0.6 A
Inrush current, max.	20 A
Starting current inrush I^2t	5 A ² ·s
Leakage current	
Leakage current, typ.	0.7 mA
Leakage current, max.	3.5 mA
Overload capability overload current	270 ms on short circuit during startup and operation
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.	3 s
Output current	
Rated value	2 A ; can be switched in parallel

Short-circuit protection	Yes ; Electronic
Residual ripple	Max. 150 mVpp
Residual ripple, typ.	30 mV ; Peak - peak
Residual ripple, max.	150 mV ; Peak - peak
Power	
Power consumption, typ.	64 W
Efficiency	75 %
Power loss	
Power loss, typ.	16 W
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 Ua according to EN 60950-1 and EN 50178
Isolation	
Isolation tested with	Rated insulation voltage (24 V against input): 150 V AC tested with: 2800 V DC
EMC	
EMC interference immunity	EN 61000-6-2
EMC interference emission	EN 55011 Class A
Degree and class of protection	
IP (rear)	IP20
Protection class	1
Standards, approvals, certificates	
CE mark	Yes
EN 50155	Yes ; T1 Cat. 1 Cl. A/B horizontal mounting position
Ambient conditions	
Operating temperature	
min.	-25 °C ; = Tmin
max.	70 °C ; = Tmax; for use on railway vehicles according to EN50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/UL hazardous use applies
Extended ambient conditions	
relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	
with condensation, 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	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	740 g
Status	Jul 7, 2014