

SIPLUS S7-300 PS 305 -25...+70 °C with conformal coating according to EN 50155 T1 Cat 1 CI A/B based on 6ES7305-1BA80-0AA0 . Stabilized power supplies Input: 24-110 V DC Output: 24 V DC/2 A



Figure similar

Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
• 48 V DC	Yes
• 72 V DC	Yes
• 96 V DC	Yes
• 120 V DC	Yes; Rated value 110 V DC
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; Corresponds to S2 and C1 of EN 50155
• 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
I^2t	5 A ² ·s
Leakage current, typ.	0.7 mA
Leakage current, max.	3.5 mA
Overcurrent overload capability	270 ms on short circuit during startup and operation

Output voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	23.27 V
permissible range, upper limit (DC)	24.72 V
Power up time, max.	3 s
Residual ripple, typ.	30 mV; Peak - peak
Residual ripple, max.	150 mV; Peak - peak

Output current	
Current output (rated value)	2 A; 2 for connection in parallel
Short-circuit protection	Yes; Electronic

Power	
Active power input, typ.	64 W
Efficiency	75 %

Power loss	
Power loss, typ.	16 W

Interrupts/diagnostics/status information	
Diagnostics indication LED	
<ul style="list-style-type: none"> 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

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	
Degree of protection acc. to EN 60529	IP20
Equipment protection class	I

Standards, approvals, certificates	
CE mark	Yes
Railway application	

- EN 50155

Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007

Ambient conditions

Ambient temperature during operation	
<ul style="list-style-type: none"> • min. • max. 	<p>-25 °C; = Tmin</p> <p>70 °C; = Tmax; for use on railway vehicles according to EN 50155, the rated temperature range -25 ... +55 °C (T1) or 60 °C @ UL/UL hazardous use applies</p>
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude 	<p>2 000 m</p> <p>Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m); above 2 000 m max. 75 V DC</p>
Relative humidity	
<ul style="list-style-type: none"> • With condensation, tested in accordance with IEC 60068-2-38, max. 	<p>100 %; RH incl. condensation/frost (no commissioning under condensation conditions)</p>
Resistance	
Use in stationary industrial systems	
<ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 	<p>Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request</p> <p>Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 3S4 incl. sand, dust, *</p>
Use on land craft, rail vehicles and special-purpose vehicles	
<ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-5 — to chemically active substances according to EN 60721-3-5 — to mechanically active substances according to EN 60721-3-5 	<p>Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request</p> <p>Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *</p> <p>Yes; Class 5S3 incl. sand, dust; *</p>
Use on ships/at sea	
<ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 	<p>Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request</p> <p>Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>Yes; Class 6S3 incl. sand, dust; *</p>
Usage in industrial process technology	
<ul style="list-style-type: none"> — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	<p>Yes</p> <p>Yes</p>

Remark

— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04

* The supplied plug covers must remain in place over the unused interfaces during operation!

Dimensions

Width	80 mm
Height	125 mm
Depth	120 mm

Weights

Weight, approx.	740 g
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