

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



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 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 <sup>2</sup> ·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"> <li>Output voltage 24 V DC (green)</li> </ul>	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	
IP degree of protection	IP20
Protection class	1

Standards, approvals, certificates	
CE mark	Yes
Railway application	

- EN 50155

Yes; T1 Category 1 Class A/B horizontal mounting position

## Ambient conditions

Ambient temperature during operation	
<ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>	<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>
Extended ambient conditions	
<ul style="list-style-type: none"> <li>• relative to ambient temperature-atmospheric pressure-installation altitude</li> </ul>	<p>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)</p>
Relative humidity	
<ul style="list-style-type: none"> <li>— With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	<p>100 %; RH incl. condensation/frost (no commissioning under condensation conditions)</p>
Resistance	
<ul style="list-style-type: none"> <li>— against biologically active substances / conformity with EN 60721-3-3</li> <li>— against chemically active substances / conformity with EN 60721-3-3</li> <li>— against mechanically active substances / conformity with EN 60721-3-3</li> </ul>	<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 &lt; 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!</p> <p>Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!</p>

## Dimensions

Width	80 mm
Height	125 mm
Depth	120 mm

## Weights

Weight, approx.	740 g
<b>last modified:</b>	05/31/2017