

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.



Figure similar

Supply voltage	
Rated value (AC)	
<ul style="list-style-type: none"> <li>• 120 V AC</li> <li>• 230 V AC</li> </ul>	<p>Yes; 85 to 132 V AC</p> <p>Yes; 170 to 264 V AC</p>
Overvoltage strength	2.3x Ue rated, 1.3 ms
Line frequency	
<ul style="list-style-type: none"> <li>• permissible range, lower limit</li> <li>• permissible range, upper limit</li> </ul>	<p>47 Hz</p> <p>63 Hz</p>
Mains buffering	
<ul style="list-style-type: none"> <li>• Mains/voltage failure stored energy time</li> <li>• Repeat rate, min.</li> </ul>	<p>20 ms; min., for I<sub>a</sub> rated</p> <p>1 s</p>
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
I <sup>2</sup> t	1.2 A <sup>2</sup> ·s
Leakage current, typ.	0.5 mA

Leakage current, max.	3.5 mA
<b>Output voltage</b>	
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.	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.	10 mV; Peak - peak
Residual ripple, max.	50 mV; Peak - peak
<b>Output current</b>	
Current output (rated value)	5 A; 3 A @ > 60 °C, can be switched in parallel
<b>Power</b>	
Active power input, typ.	138 W
<b>Power loss</b>	
Power loss, typ.	18 W; approx., at U <sub>a</sub> rated, I <sub>a</sub> rated
<b>Interrupts/diagnostics/status information</b>	
Diagnostics indication LED	
• Output voltage 24 V DC (green)	Yes; OK for 24 V
<b>Potential separation</b>	
primary/secondary	Yes; SELV output voltage U <sub>a</sub> according to EN 60950-1 and EN 50178
SELV	Yes
<b>Isolation</b>	
Isolation tested with	Rated insulation voltage (24 V against L1) 250 V AC, tested with 4 200 V DC
<b>EMC</b>	
EMC interference immunity	EN 61000-6-2
EMC interference emission	EN 55022 Class B
<b>Degree and class of protection</b>	
Degree of protection acc. to EN 60529	IP20
Equipment protection class	I
<b>Standards, approvals, certificates</b>	
CE mark	Yes
Standard for line harmonics limit	EN 61000-3-2
<b>Ambient conditions</b>	
Ambient temperature during operation	
• min.	-25 °C; = T <sub>min</sub>

• max.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
<b>Altitude during operation relating to sea level</b>	
• Installation altitude above sea level, max.	2 000 m
• Ambient air temperature-barometric pressure-altitude	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
<b>Relative humidity</b>	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
<b>Resistance</b>	
<b>Use in stationary industrial systems</b>	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
<b>Use on land craft, rail vehicles and special-purpose vehicles</b>	
— to biologically active substances according to EN 60721-3-5	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request
— to chemically active substances according to EN 60721-3-5	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *
— to mechanically active substances according to EN 60721-3-5	Yes; Class 5S3 incl. sand, dust; *
<b>from supply voltage 1L+</b>	
— Note regarding classification of environmental conditions acc. to EN 60721	* The supplied plug covers must remain in place over the unused interfaces during operation!
<b>Dimensions</b>	
Width	60 mm
Height	125 mm
Depth	120 mm
<b>Weights</b>	
Weight, approx.	0.6 kg
<b>last modified:</b>	05/17/2018