



Figure similar

\*\*\*spare part\*\*\* SIPLUS S7-300 PS 307 based on 6ES7307-1EA01-0AA0 with conformal coating, -25...+70 °C, stabilized power supply input: 120/230 V AC output: 24 V DC/5 A

General information	
based on	<a href="#">6ES7307-1EA01-0AA0</a>
Supply voltage	
Rated value (AC)	
<ul style="list-style-type: none"> <li>120 V AC</li> <li>230 V AC</li> </ul>	Yes; 85 to 132 V AC Yes; 170 to 264 V AC
Overvoltage strength	2.3x U <sub>e</sub> 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>	47 Hz 63 Hz
Mains buffering	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> <li>Repeat rate, min.</li> </ul>	20 ms; min., for I <sub>a</sub> rated 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
I <sup>2</sup> t	1.2 A <sup>2</sup> ·s
Leakage current, typ.	0.5 mA
Leakage current, max.	3.5 mA
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.	2 s
Voltage rise time, typ.	10 ms
Overvoltage protection	Additional control circuit, cutoff at < 28.8 V, automatic restart
short-circuit protection	electronic trip, automatic restart
Residual ripple, typ.	10 mV; Peak - peak
Residual ripple, max.	50 mV; Peak - peak
Output current	
Current output (rated value)	5 A; 3 A @ > 60 °C, can be switched in parallel
Power	
Active power input, typ.	138 W
Efficiency	87 %; approx., at U <sub>a</sub> rated, I <sub>a</sub> rated
Power loss	
Power loss, typ.	18 W; approx., at U <sub>a</sub> rated, I <sub>a</sub> rated
Interrupts/diagnostics/status information	

<b>Diagnostics indication LED</b>		
• Status indicator output 24 V OK (green)	Yes	
<b>Potential separation</b>		
primary/secondary	Yes; SELV output voltage Ua according to EN 60950-1 and EN 50178	
<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>		
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>		
<b>Ambient temperature during operation</b>		
• min.	-25 °C; = Tmin	
• 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 ships/at sea</b>		
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *	
<b>Usage in industrial process technology</b>		
— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)	
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	
<b>Remark</b>		
— 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!	
<b>Dimensions</b>		
Width	60 mm	
Height	125 mm	
Depth	120 mm	
<b>Weights</b>		
Weight, approx.	0.6 kg	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
eClass	14	27-24-22-09
eClass	12	27-24-22-09
eClass	9.1	27-24-22-09

eClass	9	27-24-22-09
eClass	8	27-24-22-09
eClass	7.1	27-24-22-09
eClass	6	27-24-22-09
ETIM	10	EC000599
ETIM	9	EC000599
ETIM	8	EC000599
ETIM	7	EC000599
IDEA	4	3575
UNSPSC	15	32-15-17-06

**Approvals / Certificates**

**General Product Approval**



[Manufacturer Declaration](#)

[China RoHS](#)



**General Product Approval      EMV      For use in hazardous locations**



[CCC-Ex](#)



**For use in hazardous locations**



last modified:

5/29/2024