



Figure similar

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 | 6ES7307-1EA01-0AA0 |
| Supply voltage | |
| Rated value (AC) | |
| • 120 V AC | Yes; 85 to 132 V AC |
| • 230 V AC | Yes; 170 to 264 V AC |
| Overvoltage strength | 2.3x Ue rated, 1.3 ms |
| Line frequency | |
| • permissible range, lower limit | 47 Hz |
| • permissible range, upper limit | 63 Hz |
| Mains buffering | |
| • Mains/voltage failure stored energy time | 20 ms; min., for I _a rated |
| • Repeat rate, min. | 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 ² t | 1.2 A ² ·s |
| Leakage current, typ. | 0.5 mA |
| Leakage current, max. | 3.5 mA |
| output voltage / header | |
| 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 _a rated, I _a rated |
| Power loss | |
| Power loss, typ. | 18 W; approx., at U _a rated, I _a rated |
| Interrupts/diagnostics/status information | |
| Diagnostics indication LED | |

| | | |
|---|--|-----------------------|
| • Status indicator output 24 V OK (green) | Yes | |
| 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 L1) 250 V AC, tested with 4 200 V DC | |
| EMC | | |
| EMC interference immunity | EN 61000-6-2 | |
| EMC interference emission | EN 55022 Class B | |
| Degree and class of protection | | |
| Equipment protection class | I | |
| Standards, approvals, certificates | | |
| CE mark | Yes | |
| Standard for line harmonics limit | EN 61000-3-2 | |
| Ambient conditions | | |
| Ambient temperature during operation | | |
| • min. | -25 °C; = T _{min} | |
| • max. | 70 °C; = T _{max} ; 60 °C @ UL/cUL, ATEX and FM use | |
| Altitude during operation relating to sea level | | |
| • Installation altitude above sea level, max. | 2 000 m | |
| • Ambient air temperature-barometric pressure-altitude | T _{min} ... T _{max} at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // T _{min} ... (T _{max} - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // T _{min} ... (T _{max} - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m); above 2 000 m max. 75 V DC | |
| Relative humidity | | |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) | |
| Resistance | | |
| Use in stationary industrial systems | | |
| — 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; * | |
| Use on ships/at sea | | |
| — 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; * | |
| Usage in industrial process technology | | |
| — 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) | |
| 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 | 60 mm | |
| Height | 125 mm | |
| Depth | 120 mm | |
| Weights | | |
| Weight, approx. | 0.6 kg | |
| Classifications | | |
| | Version | Classification |
| 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 | 9 | EC000599 |
| ETIM | 8 | EC000599 |
| ETIM | 7 | EC000599 |
| IDEA | 4 | 3575 |
| UNSPSC | 15 | 32-15-17-06 |

Approvals / Certificates

| | |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|

[Miscellaneous](#)



[Manufacturer Declaration](#)



[KC](#)

| | |
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| EMV | For use in hazardous locations |
|-----|--------------------------------|



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