



Figure similar

SIPLUS S7-400 PS 407 10 A based on 6ES7407-0KA02-0AA0 with conformal coating, -25...+70 °C, 10 A, wide range, 120/230 V UC; 5 V DC/10 A

| General information | |
|---|---------------------------------------|
| based on | 6ES7407-0KA02-0AA0 |
| Supply voltage | |
| Rated value (DC) | |
| • 120 V DC | Yes |
| • 230 V DC | Yes |
| Rated value (AC) | |
| • 120 V AC | Yes |
| • 230 V AC | Yes |
| Line frequency | |
| • Rated value 50 Hz | Yes |
| • Rated value 60 Hz | Yes |
| • permissible range, lower limit | 47 Hz |
| • permissible range, upper limit | 63 Hz |
| Mains buffering | |
| • Mains/voltage failure stored energy time | 20 ms |
| • Mains buffering according to NAMUR recommendation | Yes |
| Input current | |
| Rated value at 120 V DC | 1 A |
| Rated value at 230 V DC | 0.5 A |
| Rated value at 120 V AC | 0.9 A |
| Rated value at 230 V AC | 0.5 A |
| Inrush current, max. | 63 A; Full width at half maximum 1 ms |
| Leakage current, max. | 5 mA |
| Output voltage | |
| Type of output voltage | DC |
| Rated value (DC) | |
| • 5 V DC | Yes |
| • 24 V DC | Yes |
| Output current | |
| for backplane bus (5 V DC), max. | 10 A; no base load required |
| for backplane bus (24 V DC), max. | 1 A; idling-proof |
| Short-circuit protection | Yes |
| Power | |
| Active power input, typ. | 95 W |
| Power loss | |
| Power loss, typ. | 20 W |
| Battery | |

| | |
|---|---|
| Backup battery | |
| <ul style="list-style-type: none"> Backup battery (optional) | Yes; 0 °C to +60 °C: 2x lithium AA; 3.6 V/2.3 Ah // -25 °C to +70 °C and/or 100 % RH: 2x external battery box 6AG1971-0AA00-7AA0 and 2x MONO cell design D |
| Hardware configuration | |
| Slots | |
| <ul style="list-style-type: none"> required slots | 2 |
| Potential separation | |
| primary/secondary | Yes |
| Isolation | |
| Overvoltage category | II |
| EMC | |
| Compliance with line harmonic distortion limits | |
| <ul style="list-style-type: none"> Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3 | Yes |
| Degree and class of protection | |
| Equipment protection class | I, with protective conductor |
| Ambient conditions | |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> min. max. | -25 °C; using the external battery box SIPLUS 6AG1971-0AA00-7AA0 for buffer mode 70 °C; using the external battery box SIPLUS 6AG1971-0AA00-7AA0 for buffer mode |
| 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 | 2 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) |
| Relative humidity | |
| <ul style="list-style-type: none"> With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning if there is condensation). In buffer mode, use battery box SIPLUS 6AG1971-0AA00-7AA0 for high humidity |
| 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! |
| Conformal coating | |
| <ul style="list-style-type: none"> Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A |
| Connection method | |
| Design of electrical connection | 3x 1.5 mm ² , solid or stranded wire with end sleeve, external diameter 3 mm to 9 |

| | |
|------------------------|---------|
| | mm |
| Dimensions | |
| Width | 50 mm |
| Height | 290 mm |
| Depth | 217 mm |
| Weights | |
| Weight, approx. | 1 200 g |
| 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 | 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

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