

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



Figure similar

| 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 110 V DC                                                         | 1 A; at 120 V DC                                                                                                                                           |
| 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.                                                           | 3.5 mA                                                                                                                                                     |
| <b>Output voltage</b>                                                           |                                                                                                                                                            |
| Type of output voltage                                                          | DC                                                                                                                                                         |
| Rated value (DC)                                                                |                                                                                                                                                            |
| • 5 V DC                                                                        | Yes                                                                                                                                                        |
| • 24 V DC                                                                       | Yes                                                                                                                                                        |
| <b>Output current</b>                                                           |                                                                                                                                                            |
| 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                                                                                                                                                        |
| <b>Power</b>                                                                    |                                                                                                                                                            |
| Active power input, typ.                                                        | 95 W                                                                                                                                                       |
| <b>Power loss</b>                                                               |                                                                                                                                                            |
| Power loss, typ.                                                                | 20 W                                                                                                                                                       |
| <b>Battery</b>                                                                  |                                                                                                                                                            |
| Backup battery                                                                  |                                                                                                                                                            |
| • 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 |
| <b>Hardware configuration</b>                                                   |                                                                                                                                                            |
| Slots                                                                           |                                                                                                                                                            |
| • required slots                                                                | 2                                                                                                                                                          |
| <b>Potential separation</b>                                                     |                                                                                                                                                            |
| primary/secondary                                                               | Yes                                                                                                                                                        |
| <b>Isolation</b>                                                                |                                                                                                                                                            |
| Overvoltage category                                                            | II                                                                                                                                                         |
| <b>EMC</b>                                                                      |                                                                                                                                                            |
| Compliance with line harmonic distortion limits                                 |                                                                                                                                                            |
| • Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3 | Yes                                                                                                                                                        |
| <b>Degree and class of protection</b>                                           |                                                                                                                                                            |
| Equipment protection class                                                      | I, with protective conductor                                                                                                                               |
| <b>Ambient conditions</b>                                                       |                                                                                                                                                            |
| Ambient temperature during operation                                            |                                                                                                                                                            |

|                                                                                                             |                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • min.                                                                                                      | -25 °C; using the external battery box SIPLUS 6AG1971-0AA00-7AA0 for buffer mode                                                                                                    |
| • max.                                                                                                      | 70 °C; using the external battery box SIPLUS 6AG1971-0AA00-7AA0 for buffer mode                                                                                                     |
| <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)                                                                                                                      |
| <b>Relative humidity</b>                                                                                    |                                                                                                                                                                                     |
| • 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                         |
| <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>Conformal coating</b>                                                                                    |                                                                                                                                                                                     |
| • Coatings for printed circuit board assemblies acc. to EN 61086                                            | Yes; Class 2 for high availability                                                                                                                                                  |
| • Protection against fouling acc. to EN 60664-3                                                             | Yes; Type 1 protection                                                                                                                                                              |
| • Military testing according to MIL-I-46058C, Amendment 7                                                   | Yes; Discoloration of coating possible during service life                                                                                                                          |

- Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Yes; Conformal coating, Class A

#### Connection method

Design of electrical connection

3x 1.5 mm<sup>2</sup>, 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

**last modified:**

03/16/2020