



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 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.	3.5 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"> <li>Backup battery (optional)</li> </ul>	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"> <li>required slots</li> </ul>	2
Potential separation	
primary/secondary	Yes
Isolation	
Overvoltage category	II
EMC	
Compliance with line harmonic distortion limits	
<ul style="list-style-type: none"> <li>Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3</li> </ul>	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"> <li>min.</li> <li>max.</li> </ul>	-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"> <li>Installation altitude above sea level, max.</li> <li>Ambient air temperature-barometric pressure-altitude</li> </ul>	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"> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	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	
<ul style="list-style-type: none"> <li>— to biologically active substances according to EN 60721-3-3</li> <li>— to chemically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul style="list-style-type: none"> <li>— to biologically active substances according to EN 60721-3-6</li> <li>— to chemically active substances according to EN 60721-3-6</li> <li>— to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul style="list-style-type: none"> <li>— Against chemically active substances acc. to EN 60654-4</li> <li>— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	Yes; Class 3 (excluding trichlorethylene) 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	
<ul style="list-style-type: none"> <li>— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
<ul style="list-style-type: none"> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> <li>Protection against fouling acc. to EN 60664-3</li> <li>Military testing according to MIL-I-46058C,</li> </ul>	Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life

Amendment 7

- 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:**      2/7/2021 