SIEMENS

Data sheet

6AG1405-0KA02-7AA0



SIPLUS S7-400 PS 405 10 A based on 6ES7405-0KA02-0AA0 with conformal coating, -25...+70 $^{\circ}$ C, power supply, wide range 10 A, 24/48/60 V DC; 5 V DC/10 A

Figure similar

Based on	General information		
Rated value (DC)	based on	6ES7405-0KA02-0AA0	
• 24 ∨ DC • 48 ∨ DC • 48 ∨ DC • 80 ∨ DC	Supply voltage		
• 48 V DC • 60 V DC Ves • 60 V DC Mains buffering • Mains buffering according to NAMUR recommendation Input current Rated value at 24 V DC Rated value at 48 V DC Rated value at 60 V DC Inub current, max. 1 5 A; Full width at half maximum 20 ms output voltage header Type of output voltage DC Rated value (DC) • 5 V DC • 2 4 V DC Ves • 24 V DC Ves Output current for backplane bus (5 V DC), max. 10 A; 7A @ > 60 °C, no base load necessary for backplane bus (24 V DC), max. 1 A; idling-proof Short-circuit protection Yes Power loss Power loss Power loss, typ. 95 W Potential separation Financy secondary Pes Potential separation primary/secondary Yes Isolation	Rated value (DC)		
Mains buffering	• 24 V DC	Yes	
Mains buffering • Mains/voltage failure stored energy time • Mains buffering according to NAMUR recommendation Input current Rated value at 24 V DC Rated value at 48 V DC Rated value at 60 V DC Inrush current, max. 18 A; Full width at half maximum 20 ms output voltage / header Type of output voltage Rated value (DC) • 5 V DC • 24 V DC Ves • 24 V DC Ves • 24 V DC Output current for backplane bus (5 V DC), max. Short-circuit protection Yes Power Active power input, typ. 95 W Power loss, typ. 85 W Power loss, typ. 80 W Battery Backup battery • Backup battery • Backup battery • Backup battery • Packer and some some some some some some some some	• 48 V DC	Yes	
Mains/voltage failure stored energy time Mains buffering according to NAMUR recommendation Input current Rated value at 24 V DC At A Rated value at 48 V DC At A Rated value at 60 V DC Inrush current, max At A; Full width at half maximum 20 ms output voltage / header Type of output voltage Rated value (DC) ◆5 V DC ◆2 V DC ◆2 V DC ◆2 V DC ★9 S Output current for backplane bus (5 V DC), max. Short-circuit protection Yes Power Active power input, typ. 95 W Power loss, typ. 3 attory Backup battery Backup battery Backup battery Backup battery Backup battery Backup battery Backup battery (optional) Yes Yes 2 Counting Failure stored energy time Yes Solation Yes Potential separation primary/secondary Yes I A A Yes Solation	• 60 V DC	Yes	
Mains buffering according to NAMUR recommendation Input current Rated value at 24 V DC Rated value at 48 V DC Rated value at 60 V DC Inrush current, max 18 A; Full width at half maximum 20 ms output voltage / header Type of output voltage Rated value (DC) 5 V DC 24 V DC Yes 24 V DC Ves 24 V DC Nax 10 A; 7A @ > 60 °C, no base load necessary for backplane bus (5 V DC), max. 11 A; idling-proof Short-circuit protection Power Active power input, typ. Power loss Power loss, typ. Backup battery Backup battery Backup battery Page value on the page of t	Mains buffering		
Input current Rated value at 24 V DC	 Mains/voltage failure stored energy time 	20 ms	
Rated value at 24 V DC 4 A Rated value at 80 V DC 1.6 A Inrush current, max. 18 A; Full width at half maximum 20 ms output voltage / header DC Type of output voltage DC Rated value (DC)	 Mains buffering according to NAMUR recommendation 	Yes	
Rated value at 48 V DC 2 A Rated value at 60 V DC 1.6 A Inrush current, max. 18 A; Full width at half maximum 20 ms output voltage / header DC Type of output voltage DC Rated value (DC) Yes • 24 V DC Yes Output current Yes for backplane bus (5 V DC), max. 10 A; 7A @ > 60 °C, no base load necessary for backplane bus (24 V DC), max. 1 A; idling-proof Short-circuit protection Yes Power Yes Power loss 20 W Bactup battery Backup battery • Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration 2 Potential separation 2 primary/secondary Yes Isolation Yes	Input current		
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output voltage / header Type of output voltage DC Rated value (DC) • 5 V DC • 24 V DC Output current for backplane bus (5 V DC), max. for backplane bus (24 V DC), max. Short-circuit protection Yes Power Active power input, typ. 95 W Power loss Power loss, typ. Battery Backup battery • Backup battery (optional) Hardware configuration Slots • required slots 2 Potential separation primary/secondary Yes I A; idling-proof Yes 95 W Power loss, typ. 20 W Battery • Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah	Rated value at 60 V DC	1.6 A	
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Slots	 Backup battery (optional) 	Yes; 2x lithium AA; 3.6 V / 2.3 Ah	
● required slots 2 Potential separation primary/secondary Yes Isolation	Hardware configuration		
Potential separation primary/secondary Isolation Yes	Slots		
primary/secondary Yes Isolation	 required slots 	2	
Isolation	Potential separation		
	primary/secondary	Yes	
Overvoltage category II	Isolation		
	Overvoltage category	II	

Degree and class of protection	
Equipment protection class	I, with protective conductor
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 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)
Relative humidity	
 With condensation, tested in accordance with IEC 60068- 2-38, max. 	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
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	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 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 mm², 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.	1.2 kg

last modified:

5/29/2024