SIEMENS

Data sheet

6ES7405-0KR02-0AA0



SIMATIC S7-400, power supply PS405: 10 A, wide range, 24/48/60 V DC; 5 V DC/10 A, for redundant use

Rated value (DC)	Supply voltage	
• 24 V DC • 48 V DC • 48 V DC • 80 V DC		
• 48 V DC • 60 V DC Yes 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 48 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 • 2 4 V DC Yes • 24 V DC Rated value (DC) • 5 V DC • 2 4 V DC Rated value (DC) • 5 V DC • 2 4 V DC Rated value (DC) • 5 V DC • 2 4 V DC • 2 8 V DC • 2 8 V DC • 2 9 V Yes • 24 V DC • 2 9 V Yes • 24 V DC Output current for backplane bus (6 V DC), max. for backplane bus (6 V DC), max. 10 A; no base load required for backplane bus (24 V DC), max. 11 A; idling-proof Short-circuit protection Yes Power Active power input, typ. Power loss, typ. Backup battery Powerloss • required slots • required slots 2 Potential separation primary/secondary Yes II	,	Yes
Mains buffering Mains buffering Mains buffering according to NAMUR Mains buffering according to A A Mains buffering according to NAMUR Mains buffering according to A A Mains buffering according to A A Mains buffering according to NAMUR Mains buffering according to A A Mains buffering according to NAMUR Mains buffering according		
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 Insush 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 Output current for backplane bus (5 V DC), max. for backplane bus (5 V DC), max. for backplane bus (24 V DC), max. Short-circuit protection Power Active power input, typ. Power loss, typ. Backup battery • Backup battery (optional) Primary/secondary Fes Poverloss • required slots • required slots • required slots • required slots Query overloss Powerloss • required slots • required slots Query overloads Poss • required slots Query overloads Poveroltage category II		
Mains/voltage failure stored energy time Mains buffering according to NAMUR recommendation Input current Rated value at 24 V DC		
Mains buffering according to NAMUR recommendation Input current Rated value at 24 V DC		20 ms
Rated value at 24 V DC Rated value at 48 V DC Rated value at 60 V DC Rated value voltage / leader Type of output voltage Rated value (DC) So V DC So V Yes Poutput current for backplane bus (5 V DC), max.	 Mains buffering according to NAMUR 	Yes
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 Output current for backplane bus (5 V DC), max. for backplane bus (24 V DC), max. for backplane bus (24 V DC), max. 10 A; no base load required for backplane bus (24 V DC), max. Short-circuit protection Yes Power Active power input, typ. 95 W Power loss Power loss, typ. Backup battery • Backup battery • Backup battery (optional) Hardware configuration Slots • required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category II	Input current	
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 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 • Backup battery • Backup battery • Backup battery or Backup battery or Backup sattery Potential separation primary/secondary Yes Isolation Overvoltage category II	Rated value at 24 V DC	4 A
Inrush current, max. output voltage / header Type of output voltage 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. for backplane bus (24 V DC), max. 10 A; no base load required for backplane bus (24 V DC), max. 1 A; idling-proof Short-circuit protection Power Active power input, typ. 95 W Power loss Power loss, typ. Backup battery • Backup battery • Backup battery (optional) Hardware configuration Slots • required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category II	Rated value at 48 V DC	2 A
Type of output voltage 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. for backplane bus (24 V DC), max. 1 A; idling-proof Short-circuit protection Power Active power input, typ. 95 W Power loss Power loss, typ. Backup battery • Backup battery • Backup battery • Backup battery o Backup battery Feduration Slots • required slots • required slots Potential separation primary/secondary Yes Isolation Overvoltage category II	Rated value at 60 V DC	1.6 A
Type of output voltage 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 Power Active power input, typ. Power loss Power loss, typ. Battery Backup battery • Backup battery (optional) Hardware configuration Slots • required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category Il	Inrush current, max.	18 A; Full width at half maximum 20 ms
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. 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 Power loss, typ. Backup battery • Backup battery • Backup battery (optional) Hardware configuration Slots • required slots • required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category II	output voltage / header	
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 Power Active power input, typ. Power loss Power loss Power loss Power loss Packup battery Backup battery Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots required slots required slots Potential separation primary/secondary Yes Isolation Overvoltage category II	Type of output voltage	DC
Output current for backplane bus (5 V DC), max. for backplane bus (24 V DC), max. for backplane bus (24 V DC), max. Short-circuit protection Power Active power input, typ. Power loss Power loss, typ. Backup battery Backup battery Backup battery (optional) Hardware configuration Slots required slots required slots Potential separation primary/secondary Yes Isolation Overvoltage category Il	Rated value (DC)	
Output current for backplane bus (5 V DC), max. for backplane bus (24 V DC), max. Short-circuit protection Power Active power input, typ. Power loss Power loss, typ. Backup battery Backup battery (optional) Hardware configuration Slots • required slots Potential separation primary/secondary Pes 10 A; no base load required 1 A; idling-proof Yes 2 W Power 1 A; idling-proof Yes 2 W Power 1 A; idling-proof Yes 2 W Power 2 U W Backup battery 1 Exercise 1 Exercise 2	• 5 V DC	Yes
for backplane bus (5 V DC), max. for backplane bus (24 V DC), max. Short-circuit protection Power Active power input, typ. Power loss Power loss, typ. Battery Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots • required slots 2 Potential separation primary/secondary Press Yes Slota Overvoltage category II	• 24 V DC	Yes
for backplane bus (24 V DC), max. Short-circuit protection Power Active power input, typ. Power loss Power loss, typ. Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots • required slots • required slots primary/secondary Power loss, typ. 1 A; idling-proof Yes 95 W 20 W 20 W 20 W 21 Secondary Yes; 2x lithium AA; 3.6 V / 2.3 Ah Potential separation Primary/secondary Yes Isolation Overvoltage category II	Output current	
Short-circuit protection Power Active power input, typ. 95 W Power loss Power loss, typ. 20 W Battery Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots required slots Potential separation primary/secondary Yes Isolation Overvoltage category II	for backplane bus (5 V DC), max.	10 A; no base load required
Power Input, typ. 95 W Power loss Power loss, typ. 20 W Battery Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category II	for backplane bus (24 V DC), max.	1 A; idling-proof
Active power input, typ. Power loss Power loss, typ. Battery Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots required slots Potential separation primary/secondary Isolation Overvoltage category II	Short-circuit protection	Yes
Power loss Power loss, typ. 20 W Battery Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category II	Power	
Power loss, typ. 20 W Battery Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category II	Active power input, typ.	95 W
Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots Potential separation primary/secondary Yes Isolation Overvoltage category II	Power loss	
Backup battery Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots required slots Potential separation primary/secondary Yes Isolation Overvoltage category II	Power loss, typ.	20 W
Backup battery (optional) Yes; 2x lithium AA; 3.6 V / 2.3 Ah Hardware configuration Slots required slots Potential separation primary/secondary Yes Isolation Overvoltage category Il	Battery	
Hardware configuration Slots • required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category II	Backup battery	
Slots	Backup battery (optional)	Yes; 2x lithium AA; 3.6 V / 2.3 Ah
● required slots 2 Potential separation primary/secondary Yes Isolation Overvoltage category II	Hardware configuration	
Potential separation primary/secondary Yes Isolation Overvoltage category II	Slots	
primary/secondary Isolation Overvoltage category II	• required slots	2
Isolation Overvoltage category II	Potential separation	
Overvoltage category II	primary/secondary	Yes
	Isolation	
	Overvoltage category	II

Equipment protection class	I, with protective conductor
Standards, approvals, certificates	
FM approval	Yes; Ta: 0 °C to 60 °C T4
CCC	Yes
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
• max.	60 °C
connection method / header	
Design of electrical connection	3x 1.5 mm ² , solid or stranded wire with end sleeve, external diameter 3
Design of electrical conflection	mm to 9 mm
Dimensions	
Dimensions	mm to 9 mm
Dimensions Width	mm to 9 mm 50 mm
Dimensions Width Height	mm to 9 mm 50 mm 290 mm
Dimensions Width Height Depth	mm to 9 mm 50 mm 290 mm