

SIMATIC S7-400, Power supply PS407, 20 A, UC 120/230V, 5 V DC/20 A

Supply voltage	
Rated value (DC)	
• 120 V DC	Yes; Rated value 110 V DC
• 230 V DC	Yes
permissible range, lower limit (DC)	88 V
permissible range, upper limit (DC)	300 V
Rated value (AC)	
• 120 V AC	Yes
• 230 V AC	Yes
permissible range, lower limit (AC)	85 V
permissible range, upper limit (AC)	264 V
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	1.5 A
Rated value at 230 V DC	0.8 A
Rated value at 120 V AC	1.5 A
Rated value at 230 V AC	0.8 A
Inrush current, max.	48 A; Full width at half maximum 1.5 ms
Output voltage	
Rated value (DC)	
• 5 V DC	Yes
• 24 V DC	Yes
Output current	
for backplane bus (5 V DC), max.	20 A; 200 mA base load required
for backplane bus (24 V DC), max.	1 A; idling-proof
Short-circuit protection	Yes

Power	
Active power input, typ.	168 W
Power loss	
Power loss, typ.	44 W
Battery	
Backup battery	
• Backup battery (optional)	Yes; 2x lithium AA; 3.6 V / 1.9 Ah
Hardware configuration	
Slots	
• required slots	3
Potential separation	
primary/secondary	Yes
EMC	
Compliance with line harmonic distortion limits	
• 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
Standards, approvals, certificates	
FM approval	Yes; up to 40 °C: T4
Connection method	
Connecting cables/cross-sections	3x 1.5 mm ² , solid or stranded wire with end sleeve, external diameter 3 mm to 9 mm
Dimensions	
Width	75 mm
Height	290 mm
Depth	217 mm
Weights	
Weight, approx.	2 200 g
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