

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



Figure similar

General information	
Product type designation	PS 407
Supply voltage	
Rated value (DC)	
• 120 V DC	Yes
• 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

<ul style="list-style-type: none"> <li>permissible range, upper limit</li> </ul>	63 Hz
<b>Mains buffering</b>	
<ul style="list-style-type: none"> <li>Mains/voltage failure stored energy time</li> </ul>	20 ms
<ul style="list-style-type: none"> <li>Mains buffering according to NAMUR recommendation</li> </ul>	Yes
<b>Input current</b>	
Rated value at 110 V DC	1.4 A; at 120 V DC
Rated value at 230 V DC	0.7 A
Rated value at 120 V AC	1.4 A
Rated value at 230 V AC	0.7 A
Inrush current, max.	88 A; Full width at half maximum 1.1 ms
<b>Output voltage</b>	
Type of output voltage	DC
Rated value (DC)	
<ul style="list-style-type: none"> <li>5 V DC</li> </ul>	Yes
<ul style="list-style-type: none"> <li>24 V DC</li> </ul>	Yes
<b>Output current</b>	
for backplane bus (5 V DC), max.	20 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.	158 W
<b>Power loss</b>	
Power loss, typ.	35 W
<b>Battery</b>	
Backup battery	
<ul style="list-style-type: none"> <li>Backup battery (optional)</li> </ul>	Yes; 1x lithium AA; 3.6 V / 2.2 Ah
<b>Hardware configuration</b>	
Slots	
<ul style="list-style-type: none"> <li>required slots</li> </ul>	2
<b>Potential separation</b>	
primary/secondary	Yes
<b>EMC</b>	
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
<b>Degree and class of protection</b>	
Equipment protection class	I, with protective conductor

## Standards, approvals, certificates

FM approval Yes; Ta: 0 °C to 70 °C T4

## Ambient conditions

### Ambient temperature during operation

- min. 0 °C
- max. 60 °C

## Connection method

Connecting cables/cross-sections 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. 1 300 g

**last modified:** 08/13/2018