

SIMATIC S7-400, POWER SUPPLY PS407, 20A, WIDERANGE,  
120/230V UC, 5V DC/20A



Figure similar

| General information                 |                                     |
|-------------------------------------|-------------------------------------|
| Product type designation            | PS407, 120/230 V AC/DC, 5 V DC/20 A |
| 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                               |

|                                                                                 |                                         |
|---------------------------------------------------------------------------------|-----------------------------------------|
| • permissible range, upper limit                                                | 63 Hz                                   |
| <b>Mains buffering</b>                                                          |                                         |
| • Mains/voltage failure stored energy time                                      | 20 ms                                   |
| • Mains buffering according to NAMUR recommendation                             | 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)                                                                |                                         |
| • 5 V DC                                                                        | Yes                                     |
| • 24 V DC                                                                       | 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>                                                                    |                                         |
| Power consumption, typ.                                                         | 158 W                                   |
| <b>Power loss</b>                                                               |                                         |
| Power loss, typ.                                                                | 35 W                                    |
| <b>Battery</b>                                                                  |                                         |
| Backup battery                                                                  |                                         |
| • Backup battery (optional)                                                     | Yes; 2x lithium AA; 3.6 V / 2.3 Ah      |
| <b>Hardware configuration</b>                                                   |                                         |
| Slots                                                                           |                                         |
| • required slots                                                                | 2                                       |
| <b>Potential separation</b>                                                     |                                         |
| primary/secondary                                                               | Yes                                     |
| <b>EMC</b>                                                                      |                                         |
| Compliance with line harmonic distortion limits                                 |                                         |
| • Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3 | Yes                                     |
| <b>Degree and class of protection</b>                                           |                                         |
| Protection class                                                                | 1; with protective conductor            |

|                                    |                                                                                    |
|------------------------------------|------------------------------------------------------------------------------------|
| Standards, approvals, certificates |                                                                                    |
| FM approval                        | Yes; Ta: 0 °C to 60 °C T4                                                          |
| Connection method                  |                                                                                    |
| Connecting cables/cross-sections   | 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.                    | 1 300 g                                                                            |
| <b>last modified:</b>              | 10/28/2016                                                                         |