

SIMATIC S7-400, Power supply PS407; 10 A, wide range, UC  
120/230V, 5 V DC/10 A, for redundant use



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  |

|                                                                                 |                                       |
|---------------------------------------------------------------------------------|---------------------------------------|
| • 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 A; at 120 V DC                      |
| Rated value at 230 V DC                                                         | 0.5 A                                 |
| Rated value at 120 V AC                                                         | 0.9 A                                 |
| Rated value at 230 V AC                                                         | 0.5 A                                 |
| Inrush current, max.                                                            | 63 A; Full width at half maximum 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.                                                | 10 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.                                                        | 95 W                                  |
| <b>Power loss</b>                                                               |                                       |
| Power loss, typ.                                                                | 20 W                                  |
| <b>Battery</b>                                                                  |                                       |
| Backup battery                                                                  |                                       |
| • Backup battery (optional)                                                     | Yes; 1x lithium AA; 3.6 V / 2.2 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>                                           |                                       |
| 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

|                                 |                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------|
| Design of electrical connection | 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. | 1 200 g |
|-----------------|---------|

|                       |            |
|-----------------------|------------|
| <b>last modified:</b> | 08/15/2019 |
|-----------------------|------------|