

**PRO CP 20W 24V 0.8A**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)



The new PRO CP 20 W power supply unit was developed for use in buildings applications. It supplies devices that are connected to the smart meter with voltage in the 12 V or 24 V ranges. These include e.g. routers and LMN-distributors. The rating protection IP 30 and EN 60335 approval guarantee safe use without unauthorized persons coming into contact with the device. Thanks to the particularly small size of 30 millimeters, the power supply is completely hidden in the space for additional applications(RFZ).

**General ordering data**

|            |   |
|------------|---|
| Version    | Power supply, switch-mode power supply unit, 24 V |
| Order No.  | <a href="#">3033220000</a>                        |
| Type       | PRO CP 20W 24V 0.8A                               |
| GTIN (EAN) | 409998698609 1                                    |
| Qty.       | 1 items   |

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## Technical data

### Approvals

Approvals



ROHS Conform

### Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 29.5 mm | Depth (inches)  | 1.1614 inch |
| Height     | 83 mm   | Height (inches) | 3.2677 inch |
| Width      | 26.5 mm | Width (inches)  | 1.0433 inch |
| Net weight | 79 g    |                 |             |

### Temperatures

|                       |                |                                   |                       |
|-----------------------|----------------|-----------------------------------|-----------------------|
| Storage temperature   | -40 °C...90 °C | Humidity at storage temperature   | 95 %, no condensation |
| Operating temperature | -35 °C...50 °C | Humidity at operating temperature | 20 to 90% RH          |

### Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | c40c4197-e4ff-4c59-8a6f-82632592ebb9 |

### Input

|                           |                              |          |  |
|---------------------------|------------------------------|----------|--|
| Connection system         | PUSH IN with actuator        |          |  |
| AC input voltage range    | 85 ... 305 V AC              |          |  |
| Frequency range AC        | 47...63 Hz                   |          |  |
| Rated input voltage       | 100...277 V AC               |          |  |
| Input fuse                | 2 A time-lag fuse (internal) |          |  |
| Input current             | 450 mA                       |          |  |
| Start-up current          | Cold start temperature       | 25 °C    |  |
|                           | Input voltage                | 100 V    |  |
|                           | Voltage type                 | AC       |  |
|                           | Start-up current, max.       | 20 A     |  |
|                           | Cold start temperature       | 25 °C    |  |
|                           | Input voltage                | 230 V    |  |
|                           | Voltage type                 | AC       |  |
|                           | Start-up current, max.       | 40 A     |  |
|                           | Cold start temperature       | 25 °C    |  |
|                           | Input voltage                | 277 V    |  |
|                           | Voltage type                 | AC       |  |
|                           | Start-up current, max.       | 50 A     |  |
| Inrush current            | Input voltage                | 100 V    |  |
|                           | Voltage type                 | AC       |  |
|                           | Inrush current integral      | 0.15 A²s |  |
|                           | Input voltage                | 230 V    |  |
|                           | Voltage type                 | AC       |  |
|                           | Inrush current integral      | 0.3 A²s  |  |
|                           | Input voltage                | 277 V    |  |
|                           | Voltage type                 | AC       |  |
| Inrush current integral   | 0.35 A²s                     |          |  |
| Nominal power consumption | 22.99 VA                     |          |  |

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| Inrush current (typ.)  | 40 A   |
| Load regulation (typ.) | 2 %    |
| Start-up time, max.    | 150 ms |

### Output

|                                |                                      |        |
|--------------------------------|--------------------------------------|--------|
| Output power                   | 20 W                                 |        |
| Max. residual ripple           | 240 mVss                             |        |
| Rated output voltage           | 24 V DC $\pm$ 3 %                    |        |
| Overload protection            | 120 ... 180 %, switch off mode       |        |
| Output voltage, max.           | 24.72 V                              |        |
| Output voltage, min.           | 23.28 V                              |        |
| Output current, max.           | 833 mA                               |        |
| Capacitive load                | 3.000 $\mu$ F                        |        |
| Mains failure bridge-over time | Mains failure bridge-over time, min. | 8 ms   |
|                                | Input voltage type                   | AC     |
|                                | Input voltage                        | 100 V  |
|                                | Output current                       | 833 mA |
|                                | Output voltage                       | 24 V   |
|                                | Mains failure bridge-over time, min. | 30 ms  |
|                                | Input voltage type                   | AC     |
|                                | Input voltage                        | 230 V  |
|                                | Output current                       | 833 mA |
|                                | Output voltage                       | 24 V   |
|                                | Mains failure bridge-over time, min. | 50 ms  |
|                                | Input voltage type                   | AC     |
|                                | Input voltage                        | 277 V  |
|                                | Output current                       | 833 mA |
|                                | Output voltage                       | 24 V   |
| Load regulation (typ.)         | 2 %                                  |        |

### General data

|                             |            |  |  |
|-----------------------------|------------|--|--|
| Standards                   | EN 60335-1 | Protection degree                      | IP30   |
| Surge voltage category      | III        | Building Width                         | 26.5 mm  |
| Building height             | 83 mm      | Mounting position, installation notice | Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring subassemblies., On TS 35 mounting rail, 50 mm clearance above and below for free air supply. |
| Degree of efficiency (typ.) | 87 %       | Power loss, idling                     | 100 mW   |
| Short-circuit protection    | Yes        | Operating altitude                     | $\leq$ 3000 m  |

### Insulation coordination

|                        |     |                                  |                       |
|------------------------|-----|----------------------------------|-----------------------|
| Surge voltage category | III | Humidity at storage temperature  | 95 %, no condensation |
| Protection class       | II  | Insulation voltage, input/output | 4 kV                  |

### Electrical safety (applied standards)

|                          |                              |  |                            |
|--------------------------|------------------------------|--|----------------------------|
| Safety extra-low voltage | SELV according to EN 62368-1 | Safety transformers for switch-mode power supplies | According to EN 61558-2-16 |
|--------------------------|------------------------------|--|----------------------------|

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### Connection data (input)

|   |                       |   |                     |
|---|-----------------------|---|---------------------|
| Connection system                                     | PUSH IN with actuator | Number of terminals                       | 2 (L,N)             |
| Conductor cross-section, AWG/kcmil , max.             | 12 AWG                | Conductor cross-section, AWG/kcmil , min. | 26 AWG              |
| Wire connection cross section, flexible (input), max. | 2.5 mm <sup>2</sup>   | Conductor cross-section, flexible , min.  | 0.2 mm <sup>2</sup> |
| Conductor cross-section, rigid , max.                 | 2.5 mm <sup>2</sup>   | Conductor cross-section, rigid , min.     | 0.2 mm <sup>2</sup> |
| Stripping length (input)                              | 10 mm                 |   |                     |

### Connection data (output)

|   |                      |   |                     |
|---|----------------------|---|---------------------|
| Number of terminals                       | 2 (+ / -)            | Conductor cross-section, AWG/kcmil , max. | 14 AWG              |
| Conductor cross-section, AWG/kcmil , min. | 28 AWG               | Conductor cross-section, flexible , max.  | 1.5 mm <sup>2</sup> |
| Conductor cross-section, flexible , min.  | 0.14 mm <sup>2</sup> | Conductor cross-section, rigid , max.     | 1.5 mm <sup>2</sup> |
| Conductor cross-section, rigid , min.     | 0.2 mm <sup>2</sup>  | Stripping length (output)                 | 10 mm               |

### Signalling

|           |                      |
|-----------|----------------------|
| LED green | Operating voltage OK |
|-----------|----------------------|

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002540    | ETIM 9.0    | EC002540    |
| ETIM 10.0   | EC002540    | ECLASS 14.0 | 27-04-07-01 |
| ECLASS 15.0 | 27-04-07-01 |             |             |

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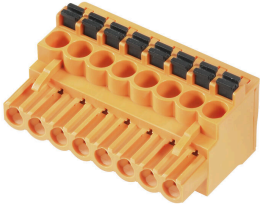
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## Accessories

## BLF 5.08HC/90 SN



Just as reliable as the millionfold proven original and featuring innovative details:

The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.

In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | BLF 5.08HC/03/90 SN OR ... | Version  |
| Order No.  | <a href="#">2766910000</a> | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3, |
| GTIN (EAN) | 4064675022527              | 90°, PUSH IN with actuator, Clamping range, max. : 3.31 mm², Box |
| Qty.       | 120 ST                     |  |