

PRO CP 20W 24V 0.8A

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

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.	3033220000
Type	PRO CP 20W 24V 0.8A
GTIN (EAN)	409998698609 1
Qty.	1 items

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Technical data

Approvals

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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 μ 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		

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 ²	Conductor cross-section, flexible , min.	0.2 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	0.2 mm ²
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 ²
Conductor cross-section, flexible , min.	0.14 mm ²	Conductor cross-section, rigid , max.	1.5 mm ²
Conductor cross-section, rigid , min.	0.2 mm ²	Stripping length (output)	10 mm

Signalling

LED green	Operating voltage OK
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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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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.	2766910000	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	