

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com







Production processes constantly need to be made more efficient. As well as performance, energy efficiency and ustainability are also playing an increasingly important role in cutting-edge industry. PROtop power supplies combine excellent performance data with exemplary sustainability, which has a positive impact on the productivity of the entire production facility.

PROtop offers a number of advantages that give you a real competitive edge. These include the permanent reduction of energy costs thanks to high efficiencies as well as the increase in plant availability due to long service life and high MTBF values. In addition, there is a high functional density due to the extremely spacesaving designs. PROtop can achieve significant savings compared to conventional power supply units. Its increased efficiency saves an average of 50 kWh per day in a mediumsized production facility with approx. 100 PROtop power supplies working in three-shift operation. This adds up to over 15,000 kWh a year and also improves the facility's carbon footprint. The service life, which is twice as long as that of standard power supplies, also sustainably reduces the costs of repurchase and exchange.

Version	Power supply, switch-mode power supply unit, 24
	V
Order No.	<u>2466870000</u>
Туре	PRO TOP1 120W 24V 5A
GTIN (EAN)	4050118481457
Qty.	1 pc(s).



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Technical data

Dimensions and weights

Depth	125 mm	Depth (inches)	4.921 inch
Height	130 mm	Height (inches)	5.118 inch
Width	35 mm	Width (inches)	1.378 inch
Net weight	850 g		

Temperatures

Storage temperature	-40 °C85 °C	Operating temperature	-25 °C70 °C
Humidity at operating temperature	595 %, no condensation		

Input

	05 055 4.0	
AC input voltage range	85277 V AC	
Connection system	PUSH IN with actuator	
Current consumption in relation to the	Voltage type	AC
input voltage	Input voltage	100 V
	Input current	2 A
	Voltage type	DC
	Input voltage	120 V
	Input current	2 A
DC input voltage range	48410 V DC (Derating 40% @ 48 V DC)	
Frequency range AC	4565 Hz	
Input fuse (internal)	Yes	
Inrush current	max. 5 A	
Nominal power consumption	131.9 VA	
Rated input voltage	110240 V AC / 120340 V DC	
Recommended back-up fuse	5 A, DI / 6 A, Char. B / 6 A, Char C	
Surge protection	Varistor	

Output

Connection system	PUSH IN with actuator		
DCL - peak load reserve	Multiple of the rated current	150 %	
	Boost duration	5 s	
	Multiple of the rated current	600 %	
	Boost duration	15 ms	
Mains failure bridge-over time	> 20 ms @ 115V AC/ 230 VAC		
Nominal output current for U _{nom}	5 A @ 60 °C		
Output power	120 W		
Output voltage, max.	28.8 V		
Output voltage, min.	22.5 V		
Output voltage, note	adjustable with potentiometer or comu	nication module	
Parallel connection option	yes, max 10		
Protection against inverse voltage	Yes		
Ramp-up time	≤ 100 ms		
Rated output voltage	24 V DC ± 1 %		
Residual ripple, breaking spikes	<50 mVss @ U _{Nenn} , Full Load		



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General data

AC failure bridging time @ I _{nom}	> 20 ms @ 230 V AC / >	Conformal coating	
	20 ms @ 115 V AC		No
Degree of efficiency	91%	Derating	> 60°C (2.5% / 1°C)
Earth leakage current, max.	3.5 mA	Housing version	Metal, corrosion resistant
Power factor (approx.)	> 0.85	Power loss, idling	5 W
Power loss, nominal load	11.8 W	Protection degree	IP20
Short-circuit protection	Yes, internal	Start-up	≥ -40 °C
Surge voltage category	III, II		

EMC / shock / vibration

Shock resistance IEC 60068-2-27	30 g in all directions	Vibration resistance IEC 60068-2-6	2.3 g (on DIN rail), 4 g (with direct mounting)
Interference immunity test acc. to	EN 55032:2015, EN 55024:2010/A1:2015, EN 55035:2017, EN 61000-3-2:2014, EN 61000-6-1:2007, EN 61000-6-2:2005, EN 61000-6-3:2007/ A1:2011, EN 61000-6-4:2007/ A1:2011	Noise emission in accordance with EN55032	Class B

Insulation coordination

Insulation voltage input / earth	3.2 kV	Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	3.5 kV	Pollution severity	2
Protection class	I, with PE connection	Surge voltage category	III, II

Electrical safety (applied standards)

Electrical machine equipment		For use with electronic equipment	Acc. to EN50178 /
	Acc. to EN60204		VDE0160
Protection against dangerous shock	ck cur-	Protective separation / protection	VDE0100-410 / acc. to
rents	Acc. to VDE0106-101	against electrical shock	DIN57100-410
Safety extra-low voltage	SELV acc. to IEC 60950-1,	Safety transformers for switch-mode	
	PELV according to EN	power supplies	According to EN
	60204-1		61558-2-16

Connection data (input)

Conductor cross-section, AWG/kcmil,		Conductor cross-section, AWG/kcmil,	
max.	12 AWG	min.	20 AWG
Conductor cross-section, flexible , min.	0.5 mm ²	Conductor cross-section, rigid , max.	1.5 mm ²
Conductor cross-section, rigid , min.	0.5 mm ²	Connection system	PUSH IN with actuator
Number of terminals	3 for L/N/PE	Screwdriver blade	0.6 x 3.5
Wire connection cross section, flexible			
(input), max.	2.5 mm ²		



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Connection data (output)

Conductor cross-section, AWG/kcmil,		Conductor cross-section, AWG/kcmil,	
max.	12 AWG	min.	26 AWG
Conductor cross-section, flexible, 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
Connection system	PUSH IN with actuator	Number of terminals	5 (+ + /)
Screwdriver blade	0.6 x 3.5		

Connection data (signal)

Wire connection cross-section, flexible		Wire connection cross-section, flexible	
(signal), max.	1.5 mm ²	(signal), min.	0.14 mm ²
Wire connection method	PUSH IN	Wire cross-section, AWG/kcmil , max.	16
Wire cross-section, AWG/kcmil , min.	26 mm ²	Wire cross-section, solid , max.	1.5 mm ²
Wire cross-section, solid, min.	0.14 mm ²		

Signalling

Yes	LED green/red	Green: Operation (fail- ure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: over- load/error
Output voltage OK (30 V		,
	Yes Output voltage OK (30 V DC / 1 A)	Yes Output voltage OK (30 V

Approbations

Certificate no. (cULus)	E258476	Certificate no. (cULusEX)	E470829	
Institute (cULus)	CULUS	Institute (cULusEX)	CULUSEX	

Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	EC002540	ETIM 9.0	EC002540
ECLASS 9.0	27-04-07-01	ECLASS 9.1	27-04-07-01
ECLASS 10.0	27-04-07-01	ECLASS 11.0	27-04-07-01
ECLASS 12.0	27-04-07-01	ECLASS 13.0	27-04-07-01

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	6d8cdf22-8230-4af8-86c8-3558c716666d



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Approvals

Approvals



















ROHS	Conform	
UL File Number Search	UL Website	
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Certificate no. (cULusEX)	E470829	

Downloads

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	UL 62368-1 Certificate.pdf
	Declaration of Conformity
	UK Conformity Assessed
Engineering Data	CAD data – STEP
User Documentation	Operating instruction
	IO-Link Register Description PROtop
Catalogues	Catalogues in PDF-format
Brochures	Produkt Information PROTOP DE
	Produkt Information PROTOP EN

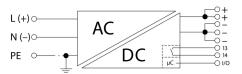


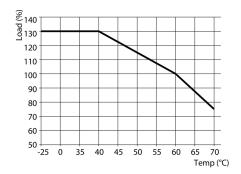
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Drawings







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Accessories

Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

Type SDIS SLIM 0.6X3.5X100

Order No. <u>2749610000</u>

GTIN (EAN) 4050118896350

Qty. 1 pc(s).

Version

Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade

thickness (A): 0.6 mm

Installation



Mounting accessory for Weidmüller Power Supplys.

General ordering data

Type CP A WALLADAPTER 30 MM

Order No. <u>1461870000</u> GTIN (EAN) 4050118268225

Qty. 1 pc(s).

Type MTA 30 MF

Order No. 1251320000 Electronics housings, Mounting flange

Version

GTIN (EAN) 4050118042702

Qty. 20 pc(s).

 Type
 PRO TOP BRACKETS
 Version

 Order No.
 2575900000
 Mounting foot

GTIN (EAN) 4050118683059

Qty. 1 pc(s).

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Accessories

Communication modules



Weidmüller's plug-in communication modules enable individual components to exchange relevant data with the cloud. This lays the foundation for targeted process optimization using condition monitoring and remote controllability - factors that play a decisive role in increasing efficiency, quality, process stability and availability can contribute. The communication modules are designed according to IP20 protected, can be operated without tools and can be flexibly adapted to different customisable communication protocols.

General ordering data

Туре	PRO COM CAN OPEN EX	Version
Order No.	2467340000	Communication module
GTIN (EAN)	4050118481822	
Qty.	1 pc(s).	
Туре	PRO COM IO-LINK	Version
Order No.	2587360000	Communication module
GTIN (EAN)	4050118599152	
Qty.	1 pc(s).	
Туре	PRO COM CAN OPEN	Version
Type Order No.	PRO COM CAN OPEN 2467320000	Version Communication module
Order No.	2467320000	
Order No. GTIN (EAN)	2467320000 4050118482225	
Order No. GTIN (EAN) Oty.	2467320000 4050118482225 1 pc(s).	Communication module
Order No. GTIN (EAN) Oty. Type	2467320000 4050118482225 1 pc(s). PRO COM DISPLAY 7S	Communication module Version

BLF 5.00HC/180 SN



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

The BLF 5.00HC PUSH IN version of the BLZ 5.00HC female connector features a new connection system and 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 5.00HC offers just as much as the older versions:

- 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

Туре	BLF 5.00HC/05/180 SN BK	Version	Product data	Packaging
Order No.	<u>1017710000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 5,	IEC: 400 V / 23 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248728817	$180^{\circ}\text{, PUSH IN}$ with actuator, Clamping range, max. : $3.31~\text{mm}^2\text{, Box}$	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).		12	



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Accessories

BLF 5.08HC/180F 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

Туре	BLF 5.08HC/03/180F SN B	Version	Product data	Packaging
Order No.	1012650000	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 3,	IEC: 400 V / 24 A / 0.2 - 2.5 mm ²	Box
GTIN (EAN)	4032248720309	$180^{\circ}\text{, PUSH IN}$ with actuator, Clamping range, max. : $3.31~\text{mm}^2\text{, Box}$	UL: 300 V / 18.5 A / AWG 26 - AWG	
Qty.	72 pc(s).		12	

BCF 3.81/180F



PUSH IN - Weidmüller's innovative connection system simplifies the wire connection process.

The benefits for users and applications:

- High packaging density due to very low component height. Simply insert the prepared wire - finished
- High component density with the compact SCDN / SCDN-THR two-tier pin header
- Simplified processing due to integrated push buttons for opening the clamping unit
- Intuitive handling since the wire-entry area and handling area are clearly separated
- tool-free locking and releasing when using Weidmüller's patented release latch (LR)

The Weidmüller plug-in connectors, pitch 3.81 mm (0.15 inch), are compatible with the layout of customary plug-in connectors, can be coded and provide space for printing.

Туре	BCF 3.81/03/180F SN BK	Version	Product data	Packaging
Order No.	<u>1971570000</u>	PCB plug-in connector, female plug, 3.81 mm, Number of poles: 3,	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm ²	Box
GTIN (EAN)	4032248680504	180°, PUSH IN with actuator, Clamping range, max. : 1.5 mm², Box	UL: 300 V / 10 A / AWG 26 - AWG 1	6
Qty.	50 pc(s).			



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Accessories

W-Series



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

Туре	WEW 35/1 V0 GF SW	Version
Order No.	<u>1478990000</u>	End bracket, Wemid, black, Rail: TS 35, when screwed in
GTIN (EAN)	4050118286892	
Qty.	50 pc(s).	
Туре	WEW 35/2 V0 GF SW	Version
Order No.	<u>1479000000</u>	End bracket, Wemid, black, Rail: TS 35, when screwed in
GTIN (EAN)	4050118286779	
GIIIV (LAIV)	4030110200773	