

**PRO TOP3 960W 48V 20A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



PROtop combines highest efficiency and compact housings with high durability and direct parallel connection without diode modules. This reduces costs and creates space in the cabinet. Due to the powerful DCL technology, even difficult loads - motors, for instance - are operated smoothly, while circuit breakers are triggered reliably. The good communication capability allows permanent condition monitoring and full integration with control systems.

**General ordering data**

Version	Power supply, switch-mode power supply unit, 48 V
Order No.	<a href="#">2467170000</a>
Type	PRO TOP3 960W 48V 20A
GTIN (EAN)	4050118482072
Qty.	1 pc(s).

Creation date December 17, 2020 2:49:49 PM CET

Catalogue status 08.12.2020 / We reserve the right to make technical changes.

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**Technical data**
**Dimensions and weights**

Depth	175 mm	Depth (inches)	6.89 inch
Height	130 mm	Height (inches)	5.118 inch
Net weight	2,490 g	Weight	2,490 g
Width	89 mm	Width (inches)	3.504 inch

**Temperatures**

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity at operating temperature	5...95 %, no condensation		

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
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**Input**

AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC	Connection system	PUSH IN
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)	Frequency range AC	45...65 Hz
Input fuse (internal)	No	Inrush current	Max. 10 A
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)	Recommended back-up fuse	6 - 8 A, Char. C
Surge protection	Varistor		

**Output**

Connection system	PUSH IN		
DCL - peak load reserve	Multiple of the rated current	150 %	
	Boost duration	5 s	
	Multiple of the rated current	400 %	
	Boost duration	15 ms	
Mains failure bridge-over time	> 20 ms @ 115V AC/ 230 VAC		
Nominal output current for $U_{nom}$	20 A @ 60 °C		
Output power	960 W		
Output voltage	48 V		
Output voltage	45...56 V		
Output voltage, max.	56 V		
Output voltage, min.	45 V		
Parallel connection option	yes, max 10		
Protection against inverse voltage	Yes		
Ramp-up time	≤ 100 ms		
Rated output voltage	48 V DC ± 1 %		
Residual ripple, breaking spikes	< 50 mV <sub>rms</sub> @ $U_{Nenn}$ , Full Load		

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**Technical data**
**General data**

AC failure bridging time @ $I_{nom}$	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Degree of efficiency	95,3 %
Derating	> 60°C (2.5% / 1°C)	Earth leakage current, max.	3.5 mA
Housing version	Metal, corrosion resistant	MTBF	> 1.000.000 h according IEC 1709 (SN29500)
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 active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load	Operating temperature	-25 °C...70 °C
Power factor (approx.)	> 0.75 @ 3x400 V AC	Short-circuit protection	Yes, internal
Surge voltage category	III, II	Weight	2,490 g

**EMC / shock / vibration**

Interference immunity test acc. to	EN 55024, EN 55032 (EN 55022), EN 61000-6-1, 2, 3, 4	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)		

**Insulation coordination**

Humidity at operating temperature	5...95 %, no condensation	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	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Protection against dangerous shock currents	Acc. to VDE0106-101	Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Safety extra-low voltage	SELV according to EN 62368-1, PELV according to EN 60204-1	Safety transformers for switch-mode power supplies	According to EN 61558-2-16

**Connection data (input)**

Conductor cross-section, AWG/kcmil , max.	4	Conductor cross-section, AWG/kcmil , min.	20
Conductor cross-section, flexible , min.	0.75 mm <sup>2</sup>	Conductor cross-section, rigid , max.	16 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.75 mm <sup>2</sup>	Connection system	PUSH IN
Wire connection cross section, flexible (input), max.	16 mm <sup>2</sup>		

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## Technical data

### Connection data (output)

Conductor cross-section, AWG/kcmil , max.	4	Conductor cross-section, AWG/kcmil , min.	20
Conductor cross-section, flexible , max.	16 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.75 mm <sup>2</sup>
Conductor cross-section, rigid , max.	16 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.75 mm <sup>2</sup>
Connection system	PUSH IN	Number of terminals	4 ( ++ / - )

### Connection data (signal)

Wire connection method	PUSH IN	Wire cross-section, AWG/kcmil , max.	16
Wire cross-section, AWG/kcmil , min.	26	Wire cross-section, solid , max.	1.5 mm <sup>2</sup>
Wire cross-section, solid , min.	0.14 mm <sup>2</sup>		

### Signalling

Floating contact	LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Status relay (max. load)	Yes Output voltage OK (30 V DC / 1 A)	

### Approvals

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

### Classifications

ETIM 6.0	EC002540	ETIM 7.0	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

### Approvals

Approvals



ROHS	Conform
UL File Number Search	E258476

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**Technical data****Downloads**

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Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">Produkt Information PROTOP DE</a> <a href="#">Produkt Information PROTOP EN</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Operating instruction</a>

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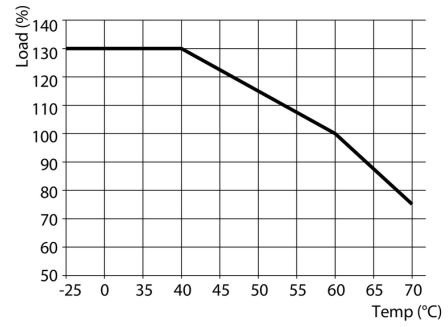
**Data sheet**

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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 SL 0.6X3.5X100	Version
Order No.	<a href="#">1274660000</a>	Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118072631	thickness (A): 0.6 mm
Qty.	1 pc(s).	

### Communication modules



The power supply products can also be used universally in conjunction with our Industrial Ethernet, lightning and surge protection, relays and semiconductor switches, and can be combined to form many complete solutions.

### General ordering data

Type	PRO COM DISPLAY 7S	Version
Order No.	<a href="#">2466960000</a>	Communication module
GTIN (EAN)	4050118481808	
Qty.	1 pc(s).	
Type	PRO COM IO-LINK	Version
Order No.	<a href="#">2587360000</a>	Communication module
GTIN (EAN)	4050118599152	
Qty.	1 pc(s).	
Type	PRO COM CAN OPEN	Version
Order No.	<a href="#">2467320000</a>	Communication module
GTIN (EAN)	4050118482225	
Qty.	1 pc(s).	
Type	PRO COM CAN OPEN EX	Version
Order No.	<a href="#">2467340000</a>	Communication module
GTIN (EAN)	4050118481822	
Qty.	1 pc(s).	

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# Accessories

## W-Series



### Klippon® Connect with clamping yoke Technology

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

### General ordering data

Type	WEW 35/2 V0 GF SW	Version
Order No.	<a href="#">1479000000</a>	W-Series, End bracket
GTIN (EAN)	4050118286779	
Qty.	100 pc(s).	
Type	WEW 35/1 V0 GF SW	Version
Order No.	<a href="#">1478990000</a>	W-Series, End bracket
GTIN (EAN)	4050118286892	
Qty.	50 pc(s).	

## Installation



Due to the wide range of variants with output voltages of 5, 12, 24, and 48 V and extensive international approvals, they are suitable for use in many applications. The power range extends from 35 W to 350 W. The individual adaptability makes PRO-PM the right choice for many standard machines.

### General ordering data

Type	CP A WALLADAPTER 45MM	
Order No.	<a href="#">1461850000</a>	
GTIN (EAN)	4050118268010	
Qty.	1 pc(s).	
Type	PRO TOP BRACKETS	Version
Order No.	<a href="#">2575900000</a>	Mounting foot
GTIN (EAN)	4050118683059	
Qty.	1 pc(s).	
Type	MTA 45 MF	Version
Order No.	<a href="#">1251310000</a>	Electronics housings, Mounting flange
GTIN (EAN)	4050118042719	
Qty.	1 pc(s).	