

**PROtop  
PRO TOP1 72W 24V 3A F**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



High-end power supplies must perform efficiently and reliably, even in challenging industrial environments. This requires high power reserves, a long service life and optimal protection against overvoltage, vibration and extreme temperature conditions.

New DCL technology gives PROtop an outstanding dynamic range. This can be used for the reliable triggering of circuit breakers or for powerful motor starts.

**General ordering data**

Type	PRO TOP1 72W 24V 3A F
Order No.	<a href="#">2568970000</a>
Version	Power supply, switch-mode power supply unit, 24 V
GTIN (EAN)	4050118579550
Qty.	1 pc(s).

Creation date May 2, 2020 3:25:15 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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

Width	35 mm	Width (inches)	1.378 inch
Height	130 mm	Height (inches)	5.118 inch
Depth	125 mm	Depth (inches)	4.921 inch
Net weight	650 g		

**Temperatures**

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

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Input**

AC input voltage range	85...277 V AC	Connection system	PUSH IN with actuator
DC input voltage range	80 ... 410 V DC	Dielectric strength	max. 300 V AC ≤ 15 s
Frequency range AC	45...65 Hz	Input fuse (internal)	Yes
Inrush current	max. 5 A	Rated input voltage	100 - 240 V AC / 120 - 340 V DC
Recommended back-up fuse	5 A, DI / 6 A, Char. B / 6 A, Char C	Surge protection	Varistor

**Output**

DCL - peak load reserve	150 % (5 s); 400 % (15 ms)	Connection system	PUSH IN with actuator
Nominal output current for $U_{nom}$	3 A @ 60 °C	Output power	72 W
Output voltage	24 V	Output voltage	22.5...28.8 V
Parallel connection option	yes, max 10	Protection against inverse voltage	Yes
Ramp-up time	≤ 100 ms	Rated output voltage	24 V DC ± 1 %
Reserve capacity @ $U_{Nominal}$	130% permanent at ≤ 40°C, 150 % (5 s)	Residual ripple, breaking spikes	< 50 mVss @ $U_{Nenn}$ , Full Load
Triggerable circuit breakers	B2		

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

AC failure bridging time @ $I_{nom}$	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Conformal coating	No
Degree of efficiency	89%	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.)	> 0.5
Power loss, idling	5 W	Power loss, nominal load	8.9 W
Protection degree	IP20	Series switching capability	Yes
Short-circuit protection	Yes, internal	Start-up	≥ -40 °C
Surge voltage category	III, II		

**EMC / shock / vibration**

Noise emission in accordance with EN55032	Class B	Vibration resistance IEC 60068-2-6	2.3 g (on DIN rail), 4 g (with direct mounting)
Shock resistance IEC 60068-2-27	30 g in all directions		

**Insulation coordination**

Humidity at operating temperature	5...95 %, no condensation	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	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 60950, PELV according to EN 60204	Safety transformers for switch-mode power supplies	According to EN 61558-2-16

**Connection data (input)**

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	20
Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>	Conductor cross-section, rigid , max.	1.5 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>	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 <sup>2</sup>		

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## Technical data

### Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , 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>
Connection system	PUSH IN with actuator	Number of terminals	4 ( ++ / - )
Screwdriver blade	0.6 x 3.5		

### Connection data (signal)

Wire connection cross-section, flexible (signal), max.	1.5 mm <sup>2</sup>	Wire connection cross-section, flexible (signal), min.	0.14 mm <sup>2</sup>
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

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

### 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		

### Approvals

Approvals				
ROHS	Conform			

**Data sheet****PROtop**  
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Approval/Certificate/Document of Conformity	<a href="#">DE_PA5600_180206_001.pdf</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Operating instruction</a>

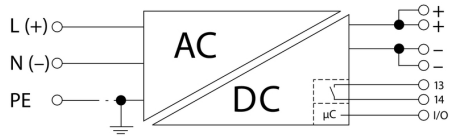
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**Data sheet**

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**Drawings**



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**Accessories**

**End brackets**



**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).	

**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 thickness (A): 0.6 mm
GTIN (EAN)	4050118072631	
Qty.	1 pc(s).	

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## Accessories

### Installation



Power supplies from Weidmüller have long since proved their worth in supplying electrical modules. They can therefore be used safely in harsh industrial environments, in small businesses and in living areas, and have been granted international approvals. Weidmüller provides power supplies and additional components for industrial applications:

- Switched-mode power supply units
- DC/DC converters
- UPS control modules
- Electronic fuses

### General ordering data

Type	PRO TOP BRACKETS	Version
Order No.	<a href="#">2575900000</a>	Mounting foot
GTIN (EAN)	4050118683059	
Qty.	1 pc(s).	
Type	MTA 30 MF	Version
Order No.	<a href="#">1251320000</a>	Electronics housings, Mounting flange
GTIN (EAN)	4050118042702	
Qty.	1 pc(s).	
Type	CP A WALLADAPTER 30 MM	
Order No.	<a href="#">1461870000</a>	
GTIN (EAN)	4050118268225	
Qty.	1 pc(s).	

### Communication modules



Power supplies from Weidmüller have long since proved their worth in supplying electrical modules. They can therefore be used safely in harsh industrial environments, in small businesses and in living areas, and have been granted international approvals. Weidmüller provides power supplies and additional components for industrial applications:

- Switched-mode power supply units
- DC/DC converters
- UPS control modules
- Electronic fuses

### General ordering data

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**

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