

FP SOL TOP3 24/10 2 001

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

www.weidmueller.com



PROtop power supplies offer a wide range of functions with many advantages. These include high energy efficiency, outstanding power reserves, high reliability and optional communication capability. PROtop also supports direct parallel connection with load balancing. With the possibility of integrating our PROtop power supplies into the FieldPower® system, the entire range of functions becomes available in the field – with all the advantages of the FieldPower® modular system.

General ordering data

Version	FieldPower® power supply unit, IP65, 3 x 4 A NEC Class 2, 24 V, DC, PUSH IN, M12, A-coded
Order No.	8000050554
Type	FP SOL TOP3 24/10 2 001
GTIN (EAN)	4050118741858
Qty.	1 items

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Technical data

Approvals

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ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E223801

Dimensions and weights

Depth	220 mm	Depth (inches)	8.6614 inch
Height	215 mm	Height (inches)	8.4645 inch
Width	240 mm	Width (inches)	9.4488 inch
Net weight	5153.01 g		

Temperatures

Storage temperature	-10 °C...60 °C	Operating temperature	-20 °C...40 °C
Operating temperature range	-25...50 °C	Start-up	≥ -40 °C
Humidity	35...85%, non condensing and non freezing		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1, Potassium perfluorobutane sulfonate 29420-49-3
SCIP	7645f3b1-6db9-495d-9e21-ab1d894aff05

Input

AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC	Recommended back-up fuse	2 - 3 A, Char. C
Frequency range AC	45...65 Hz	Type of connection	PUSH IN
Wire connection method	PUSH IN	Surge protection	Suppressor diode
Input fuse (internal)	2.5 A 50 kA / 500 V AC (6.3 x 32 mm)	AC current consumption	0,7 A @ 400 V DC / 0,8 A @ 320 V AC
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)	Inrush current	Max. 10 A

Output

Output power	240 W	Connection system	PUSH IN
Rated output voltage	24 V DC ± 1 %	Output voltage, max.	28.8 V
Output voltage, min.	22.5 V	Wire connection method	PUSH IN
Surge protection	Suppressor diode	Output voltage type	DC
Output voltage, note	(adjustable via potentiometer), adjusted to 25 V	Nominal output current for Unom	3 x 3.8 A @ 40 °C
Switch-on delay	1 s	Output current at 40 °C	3 x 3.8 A
Output current	3 x 4 A NEC Class 2	Capacitive load	4.700 µF
Adjustable rated current	No	Output voltage	24 V
Triggering characteristic	see characteristic curve		

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General data

Installation advice	Lid screws included	Humidity	35...85%, non condensing and non freezing
Protection degree	IP65	Surge voltage category	II, III
Short-circuit protection	Yes, internal		

Insulation coordination

Surge voltage category	II, III
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Connection data (output)

Connection system	PUSH IN	Number of terminals	3 x 2 (+ / -)
Conductor cross-section, AWG/kcmil , max.	26	Conductor cross-section, AWG/kcmil , min.	12
Conductor cross-section, flexible , max.	2.5 mm ²	Conductor cross-section, flexible , min.	0.14 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	0.14 mm ²

Cable gland

Number of cable glands	4	Cable gland clamping area, min.	6 mm
Cable gland material	Polyamide 6	Cable gland clamping area, max.	12 mm

Input

AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC	Recommended back-up fuse	2 - 3 A, Char. C
Frequency range AC	45...65 Hz	Surge protection	Suppressor diode
AC current consumption	0,7 A @ 400 V DC / 0,8 A @ 320 V AC	DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
Inrush current	Max. 10 A	Input fuse (internal)	2.5 A 50 kA / 500 V AC (6.3 x 32 mm)

Output

Output power	240 W	Number of terminals	3 x 2 (+ / -)
Output voltage, max.	28.8 V	Output voltage, min.	22.5 V
Output voltage type	DC	Output voltage, note	(adjustable via potentiometer), adjusted to 25 V
Switch-on delay	1 s	Output current	3 x 4 A NEC Class 2
Capacitive load	4.700 µF	Adjustable rated current	No
Output voltage	24 V	Triggering characteristic	see characteristic curve
Rated output voltage	24 V DC ± 1 %	Nominal output current for Unom	3 x 3.8 A @ 40 °C

Clamping capacity

Connection data - terminal strip	Wire connection method	PUSH IN
	Conductor connection cross-section, solid, max.	2.5 mm ²
	Conductor connection cross-section, solid, min.	0.14 mm ²
	Conductor connection cross-section, stranded, max.	2.50 mm ²
	Conductor connection cross-section, stranded, min.	0.14 mm ²
	Conductor connection cross-section, finely stranded, max.	2.50 mm ²
	Conductor connection cross-section, finely stranded, min.	0.14 mm ²

Technical data

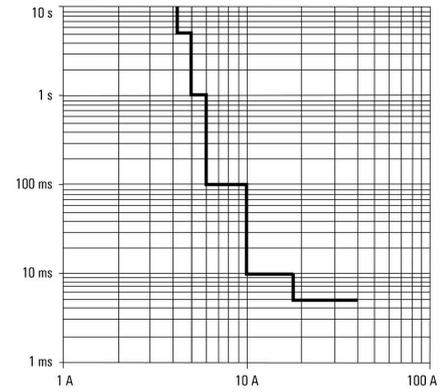
Conductor connection cross-section, finest stranded, max.	2.50 mm ²	
Conductor connection cross-section, finest stranded, min.	0.14 mm ²	
Conductor connection cross-section with wire end ferrule	Type of wire end ferrule	12 mm with plastic collar
	Standard	DIN 46228/1
	Cross-section, min.	0.14 mm ²
	Cross-section, max.	2.5 mm ²
	Type of wire end ferrule	8 mm with plastic collar ferrule
	Standard	DIN 46228/4
	Cross-section, min.	0.14 mm ²
	Cross-section, max.	2.5 mm ²
	Standard	DIN 46228/1
	Cross-section, min.	0.14 mm ²
	Cross-section, max.	2.5 mm ²
	Type of wire end ferrule	Twin wire-end ferrules
Cross-section, min.	0.14 mm ²	
Cross-section, max.	2.5 mm ²	

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		



Tripping characteristic normal



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Accessories

Bits E6,3 - Torx®



The Weidmüller bits are standard bits which are highly popular with users thanks to their good quality, large range and efficiency. The computer-controlled hardening method enables Weidmüller to guarantee a consistently high standard of quality.

The high-quality raw materials used make it possible to reach torques far higher than any of those specified in the relevant DIN standards:

- DIN 5261 for PH/PZ bits,
- DIN 5263 for slotted bits,
- Camcar standard for TORX bits

That means a long life at high torques and hence ideal conditions for standard situations.

The benefits:

- Suitable for all types of screws. Because of their excellent hardness values of 59-61 HRC, they are suitable for use with both manual and power tools.
- Good wearing resistance and thus a long life expectancy.
- Optimum fit in all DIN screws means low wear and optimum torque transmission.
- Manufactured to meet professional quality criteria according to relevant ISO standards with a consistently high standard of quality.

General ordering data

Type	BIT E6,3 T20 X 150	Version	
Order No.	2821510000	Mounting tool	
GTIN (EAN)	4064675359050		
Qty.	5 ST		

DMS PRO



Weidmüller torque screwdrivers have an ergonomic design and are therefore ideal for use with one hand. They can be used without causing fatigue in all installation positions. Apart from that, they incorporate an automatic torque limiter and have a good reproducibility accuracy.

General ordering data

Type	DMS PRO	Version	
Order No.	1479120000	Mounting tool	
GTIN (EAN)	4050118287011		
Qty.	1 ST		

Accessories

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.6X3.5X100	Version	
Order No.	2749340000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm	
GTIN (EAN)	4050118895568		
Qty.	1 ST		

Tools



Sheathing stripper for PVC cables

General ordering data

Type	AM 25	Version	
Order No.	9001540000	Tools, Sheathing strippers	
GTIN (EAN)	4008190138271		
Qty.	1 ST		
Type	AM 16	Version	
Order No.	9204190000	Tools, Sheathing strippers	
GTIN (EAN)	4032248608133		
Qty.	1 ST		