

PRO TOP3 240W 24V 10A**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, 24 V |
| Order No. | 2467080000 |
| Type | PRO TOP3 240W 24V 10A |
| GTIN (EAN) | 4050118481983 |
| Qty. | 1 pc(s). |

Creation date December 17, 2020 2:32:06 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 | 125 mm | Depth (inches) | 4.921 inch |
| Height | 130 mm | Height (inches) | 5.118 inch |
| Net weight | 1,120 g | Weight | 965 g |
| Width | 50 mm | Width (inches) | 1.969 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 |
|------------|----------------|

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 with actuator |
| 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 | 2 - 3 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} | 10 A @ 60 °C | | |
| Output power | 240 W | | |
| Output voltage | 24 V | | |
| Output voltage | 22.5...28.8 V | | |
| Output voltage, max. | 28.8 V | | |
| Output voltage, min. | 22.5 V | | |
| 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 mV _{rms} @ 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 | 93% |
| 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 | 965 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. | 12 | Conductor cross-section, AWG/kcmil , min. | 20 |
| 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 |
| Wire connection cross section, flexible (input), max. | 2.5 mm ² | | |

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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 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 (+ + / - -) |

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 ² |
| Wire cross-section, solid , min. | 0.14 mm ² | | |

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**

| | |
|---|--|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Brochure/Catalogue | Produkt Information PROTOP DE Produkt Information PROTOP EN |
| Engineering Data | STEP |
| User Documentation | Operating instruction |

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. | 1274660000 | 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). | |

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. | 2466960000 | Communication module |
| GTIN (EAN) | 4050118481808 | |
| Qty. | 1 pc(s). | |
| Type | PRO COM IO-LINK | Version |
| Order No. | 2587360000 | Communication module |
| GTIN (EAN) | 4050118599152 | |
| Qty. | 1 pc(s). | |
| Type | PRO COM CAN OPEN | Version |
| Order No. | 2467320000 | Communication module |
| GTIN (EAN) | 4050118482225 | |
| Qty. | 1 pc(s). | |
| Type | PRO COM CAN OPEN EX | Version |
| Order No. | 2467340000 | 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. | 1479000000 | W-Series, End bracket |
| GTIN (EAN) | 4050118286779 | |
| Qty. | 100 pc(s). | |

| | | |
|------------|----------------------------|-----------------------|
| Type | WEW 35/1 V0 GF SW | Version |
| Order No. | 1478990000 | 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 30 MM |
| Order No. | 1461870000 |
| GTIN (EAN) | 4050118268225 |
| Qty. | 1 pc(s). |

| | | |
|------------|----------------------------|---------------|
| Type | PRO TOP BRACKETS | Version |
| Order No. | 2575900000 | Mounting foot |
| GTIN (EAN) | 4050118683059 | |
| Qty. | 1 pc(s). | |

| | | |
|------------|----------------------------|---------------------------------------|
| Type | MTA 30 MF | Version |
| Order No. | 1251320000 | Electronics housings, Mounting flange |
| GTIN (EAN) | 4050118042702 | |
| Qty. | 1 pc(s). | |