

PROtop
PRO TOP1 72W 24V 3A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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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 |
| Order No. | 2466850000 |
| Version | Power supply, switch-mode power supply unit, 24 V |
| GTIN (EAN) | 4050118481440 |
| Qty. | 1 pc(s). |

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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 |
| Surge protection | Varistor | | |

output

| | | | |
|----------------------------------|---|---|--------------------------|
| DCL - peak load reserve | 150 % (5 s); 400 % (15 ms) | Connection system | PUSH IN with actuator |
| Mains failure bridge-over time | > 20 ms @ 115V AC/ 230 VAC | Output power | 72 W |
| Output voltage | 24 V | Output voltage | 22.5...29 V |
| Parallel connection option | Passive Current Sharing | Protection against inverse voltage | Yes |
| Ramp-up time | ≤ 100 ms | Rated (nominal) output current @ U _{Nom} | 3 A @ 60 °C |
| Rated output voltage | 24 V DC ± 1 % | Reserve capacity @ U _{Rated} | 130% permanent at ≤ 40°C |
| 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 | 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 |
| Surge voltage category | III | | |

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) |
| 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 | Shock resistance IEC 60068-2-27 | 30 g in all directions |

Insulation coordination

| | | | |
|----------------------------------|-----------------------|-----------------------------------|---------------------------|
| Class of protection | I, with PE connection | Humidity at operating temperature | 5...95 %, no condensation |
| Insulation voltage input / earth | 4 kV | Insulation voltage output / earth | 0.5 kV |
| Insulation voltage, input/output | 4 kV | Pollution severity | 2 |
| Surge voltage category | III | | |

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 acc. to EN60950, PELV acc. to EN60204 | Safety transformers for switch-mode power supplies | nach EN61558-2-16 |

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Technical data**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 |
| 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 | | |

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 (+ + / - - -) |
| Screwdriver blade | 0.6 x 3.5 | | |

Connection data (signal)

| | | | |
|--|----------------------|--|----------------------|
| Wire connection cross-section, flexible (signal), max. | 1.5 mm ² | Wire connection cross-section, flexible (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 | Wire cross-section, solid , max. | 1.5 mm ² |
| Wire cross-section, solid , min. | 0.14 mm ² | | |

Signalling

| | |
|---------------|---|
| 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 |
|---------------|---|

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 6.0 | EC002540 | eClass 6.2 | 27-04-90-04 |
| eClass 9.1 | 27-04-07-01 | | |

Product information

| | |
|--------------------------------|--|
| Descriptive text ordering data | Current technical data at catalog.weidmueller.com |
|--------------------------------|--|

Approvals

| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Engineering Data | EPLAN |
| Engineering Data | STEP |
| User Documentation | IS PRO TOP1 72W 24V 3A Operating instructions |

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Data sheet

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Drawings

