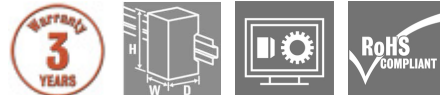


Pro-H CP T SNT 90W 24V 3,8A

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



The powerful new line of PRO-H power supplies – with ATEX and Class I Div. 2 approvals – is designed for use in Ex zones and the high-performance sector. High power reserves, a wide operating temperature range of -25 °C to +70 °C and high MTBF values (mean time between failures) of up to 1.8 million hours: these features ensure that the power supplies are suitable for all applications that require superior reliability (for example in the processing industry, power engineering, and in demanding machine construction applications).

Solutions are available to fit control voltages from 12V/24V to 48V. The product can be wired in parallel in order to increase the power capacity. A two-channel set-up with 100% load sharing can also be implemented with an optional redundancy module. This serves to increase your operational reliability. The Remote On/Off function allow you to switch the device on and off remotely. The output status can be signalled over a voltage-free relay or transistor output. The devices are equipped with pluggable connection terminals which allow them to be easily tested.

Product solutions can be custom-fit for use in different types of one-phase, and three-phase systems.

General ordering data

| | |
|---------------------|--|
| Delivery status | This article will no longer be available in the future. |
| Available until | 2019-06-30 |
| Type | CP T SNT 90W 24V 3,8A |
| Order No. | 1105790000 |
| Version | Power supply, switch-mode power supply unit, 24 V |
| GTIN (EAN) | 4032248881376 |
| Qty. | 1 pc(s). |
| Alternative product | 2466980000 |

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Technical data
Dimensions and weights

| | | | |
|------------|--------|-----------------|------------|
| Width | 35 mm | Width (inches) | 1.378 inch |
| Height | 110 mm | Height (inches) | 4.331 inch |
| Depth | 110 mm | Depth (inches) | 4.331 inch |
| Net weight | 512 g | | |

Temperatures

| | | | |
|-----------------------------|----------------------------|-----------------------------|----------------|
| Humidity | 0...95 % (no condensation) | Operating temperature, max. | 70 °C |
| Operating temperature, min. | -25 °C | Storage temperature, max. | 85 °C |
| Storage temperature, min. | -25 °C | Operating temperature | -25 °C...70 °C |
| Storage temperature | -25 °C...85 °C | | |

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

Rated data UL

| | | | |
|-------------------------|---------|----------------------|---------|
| Certificate No. (cURus) | E255651 | Certificate No. (UL) | E255651 |
|-------------------------|---------|----------------------|---------|

Input

| | | | |
|------------------------|-----------------------------------|--------------------------|------------------------------------|
| AC current consumption | 1 A @ 230 V AC, 2.1 A @ 115 V AC | AC input voltage range | 85...264 V AC |
| Connection system | Screw connection | Frequency range AC | 47...63 Hz |
| Input fuse (internal) | 4 A | Inrush current | < 20 A (230 V AC) |
| Rated input voltage | 100...240 V AC (wide-range input) | Recommended back-up fuse | 6...16 A, Char. B, circuit breaker |
| Wire connection method | Screw connection | | |

Output

| | | | |
|---|---|--------------------------------------|-------------------|
| Continuous output current @ $U_{Nominal}$ | 3.8 A @ 70 °C, 2.5 A @ 40 °C, 3.7 A @ 70 °C | Nominal output current for U_{nom} | 3.8 A @ 70 °C |
| Output power | 90 W | Output voltage | 24 V |
| Output voltage | 24...28 V (adjustable via potentiometer on front) | Output voltage type | DC |
| Parallel connection option | yes, max. 5 | Rated output voltage | 24 V DC \pm 1 % |
| Residual ripple, breaking spikes | 100 mV _{PP} @ 24 V DC, I_{nom} | Wire connection method | Screw connection |

General data

| | | | |
|--------------------------------------|--|--|--|
| AC failure bridging time @ I_{nom} | min. 20 ms @ 230 V AC, min. 10 ms @ 115 V AC | Current limiting | > 100 % I_N |
| Degree of efficiency | Typ.: 85 % @ 230 V AC | Housing version | Metal, corrosion resistant |
| Humidity | 0...95 % (no condensation) | Indication | Dual LED Operational: green LED, Error: red LED |
| MTBF | > 1.8 mill. h | Mounting position, installation notice | Horizontal on TS35 rail, with 80 mm of clearance at top and bottom for air circulation; can be aligned side-by-side with 50 mm gap in between. |
| Operating temperature | -25 °C...70 °C | Protection degree | IP20 |
| Short-circuit protection | Yes | | |

Creation date April 13, 2020 8:05:08 AM CEST

Catalogue status 03.04.2020 / We reserve the right to make technical changes.

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Technical data
EMC / shock / vibration

| | | | |
|---|--|---|---|
| Limiting of mains voltage harmonic currents | According to EN 61000-3-2 | Noise emission in accordance with EN55032 | Class B |
| Vibration resistance IEC 60068-2-6 | | Interference immunity test acc. to | EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips) |
| | 3 axes, sinus, 10...55 Hz, 1 g, 1 oct/min. | | |
| Shock resistance IEC 60068-2-27 | 3 axes, half sinus, 15 g, 11 ms | | |

Insulation coordination

| | | | |
|--------------------|-----------------------|--------------------|---|
| Insulation voltage | 4 kV (input / output) | Pollution severity | 2 |
| Protection class | I, with PE connection | | |

Electrical safety (applied standards)

| | | | |
|------------------------------|----------------------------|--|---------------------------|
| Electrical machine equipment | Acc. to EN60204 | For use with electronic equipment | Acc. to EN50178 / VDE0160 |
| Safety extra-low voltage | SELV according to EN 60950 | Safety transformers for switch-mode power supplies | According to EN 61558-2-4 |

Connection data (input)

| | | | |
|---|---------------------|---|---------------------|
| Conductor cross-section, AWG/kcmil , max. | 12 | Conductor cross-section, AWG/kcmil , min. | 24 |
| Conductor cross-section, flexible , min. | 0.5 mm ² | Conductor cross-section, rigid , max. | 2.5 mm ² |
| Conductor cross-section, rigid , min. | 0.5 mm ² | Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE | Tightening torque, max. | 0.6 Nm |
| Tightening torque, min. | 0.5 Nm | 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. | 24 |
| Conductor cross-section, flexible , max. | 2.5 mm ² | Conductor cross-section, flexible , min. | 0.5 mm ² |
| Conductor cross-section, rigid , max. | 2.5 mm ² | Conductor cross-section, rigid , min. | 1 mm ² |
| Number of terminals | 2 (+ / -) | Tightening torque, max. | 0.6 Nm |
| Tightening torque, min. | 0.5 Nm | | |

Connection data (signal)

| | | | |
|--------------------------------------|---------------------|--------------------------------------|----------------------------|
| Number of terminals | 3 | Wire connection method | Pluggable screw connection |
| Wire cross-section, AWG/kcmil , max. | 12 | Wire cross-section, AWG/kcmil , min. | 32 |
| Wire cross-section, solid , max. | 2.5 mm ² | Wire cross-section, solid , min. | 0.2 mm ² |

Signalling

| | | | |
|----------------------|-------------------------------|-------------------|----------------------------|
| Active output signal | 22 V DC ± 2 V DC / max. 10 mA | Power Good Signal | Trigger point 18...22 V DC |
|----------------------|-------------------------------|-------------------|----------------------------|



Data sheet

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Technical data

Approvals

| | | | |
|-------------------|---|-------------------------|----------------|
| Institute (CSA) |  | Certificate No. (CSA) | 246286-2148800 |
| Institute (UL) |  | Certificate No. (UL) | E255651 |
| Institute (cURus) |  | Certificate No. (cURus) | E255651 |

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

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | DE_PA5200_160421_001.pdf |
| Brochure/Catalogue | CAT 4.3 ELECTR 15/16 EN |
| Engineering Data | EPLAN_WSCAD |
| Engineering Data | STEP |
| User Documentation | Warrenty_Information_Power_Supplies.pdf Operating Instructions |