

CP M SNT 70W 24V 3A

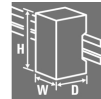
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



PRO-M = Power-Reliable-Optimized

The perfectly reliable power supply for automation technology.

The ten different versions for the 24V-DC power supply all feature a solid but thin metal housing which enables them to be installed without any side gaps. This results in less space required on the mounting rail. Wide range of AC/DC inputs and a wide temperature range enable them to be used anywhere. Because of its high efficiency, resistance to overloads and high power reserves, the PRO-M is a trusted power supply for use in any application. The three-phase PRO-M power supply modules continue to function reliably when one phase fails (i.e., in two-phase mode).

General ordering data

| | |
|---------------------|--|
| Version | Power supply, switch-mode power supply unit, 24 V |
| Order No. | 8951330000 |
| Type | CP M SNT 70W 24V 3A |
| GTIN (EAN) | 4032248742547 |
| Qty. | 1 pc(s). |
| Delivery status | This article will no longer be available in the future. |
| Available until | 2022-03-30 |
| Alternative product | 1478100000 |

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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 |
| Width | 33 mm | Width (inches) | 1.299 inch |
| Net weight | 588 g | | |

Temperatures

| | | | |
|---------------------|----------------|-----------------------|-------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 |
|---------------------|----------------|-----------------------|-------------|

Rated data UL

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

Input

| | | | |
|--------------------------|--|------------------------|--------------------------------------|
| AC current consumption | 0.6 A @ 230 V AC / 1.1 A @ 115 V AC | AC input voltage range | 85...264 V AC (derating at 100 V AC) |
| Connection system | Screw connection | DC current consumption | 0.25 A @ 370 V DC / 0.7 A @ 120 V DC |
| DC input voltage range | 80...370 V DC (Derating @ 120 V DC) | Frequency range AC | 47...63 Hz |
| Input fuse | Yes | Input fuse (internal) | Yes |
| Inrush current | max. 40 A | Rated input voltage | 100...240 V AC (wide-range input) |
| Recommended back-up fuse | 2 A / DI, safety fuse 6 A, Char. B, circuit breaker 2...4 A, Char. C circuit breaker | Wire connection method | Screw connection |

Output

| | | | |
|---|---|--------------------------------------|---|
| Continuous output current @ $U_{Nominal}$ | 3.6 A @ 45 °C, 3.2 A @ 55 °C, 2.3 A @ 70 °C | Nominal output current for U_{nom} | 3 A @ 60 °C |
| Output current | 3 A | Output power | 70 W |
| Output voltage type | DC | Output voltage, max. | 29.5 V |
| Output voltage, min. | 22.5 V | Output voltage, note | (adjustable via potentiometer on front) |
| Overload protection | Yes | Parallel connection option | yes, max. 5 |
| Rated output voltage | 24 V DC \pm 1 % | Residual ripple, breaking spikes | < 50 mV _{pp} @ 24 V DC, I_N |
| Wire connection method | Screw connection | | |

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Technical data

General data

| | | | |
|---|---|--|---|
| AC failure bridging time @ I_{nom} | > 20 ms @ 230 V AC / > 20 ms @ 115 V AC | Current limiting | > 120% I_N |
| Degree of efficiency | 90 % @ 230 V AC / 88 % @ 115 V AC | Housing version | Metal, corrosion resistant |
| Indication | Operation, green LED | Mounting position, installation notice | Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between. |
| Power factor (approx.) | > 0.6 @ 230 V AC / > 0.65 @ 115 V AC | Protection against over-heating | Yes |
| Protection against reverse voltages from the load | 30...35 V DC | Protection degree | IP20 |
| Shock wall acc. to IEC 68227 | 30 g | Short-circuit protection | Yes |

EMC / shock / vibration

| | | | |
|---|--|---|---------------------------|
| 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) | Limiting of mains voltage harmonic currents | According to EN 61000-3-2 |
| Noise emission in accordance with EN55032 | Class B | Shock resistance IEC 60068-2-27 | 30 g in all directions |
| Vibration resistance IEC 60068-2-6 | Acc. to EN50178, shock: 5g in all directions | | |

Insulation coordination

| | | | |
|------------------------------------|--|------------------------------------|--------|
| Insulation voltage | 3 kV input/output; 2 kV input/earth; 0.5 kV output/earth | Pollution severity | 2 |
| Protection class | I, with PE connection | electrical isolation, input-earth | 2 kV |
| electrical isolation, input-output | 3 kV | electrical isolation, output-earth | 0.5 kV |

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 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. | 26 |
| Conductor cross-section, flexible , min. | 0.5 mm ² | Conductor cross-section, rigid , max. | 6 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 |

Creation date August 1, 2024 8:53:23 AM CEST

Catalogue status 13.07.2024 / We reserve the right to make technical changes.

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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. | 0.5 mm ² |
| Conductor cross-section, rigid , max. | 6 mm ² | Conductor cross-section, rigid , min. | 0.5 mm ² |
| Number of terminals | 4 (+ / -) | Tightening torque, max. | 0.6 Nm |
| Tightening torque, min. | 0.5 Nm | | |

Approbations

| | | | |
|-------------------------|---------|-------------------------|---------|
| Certificate No. (cURus) | E255651 | Certificate no. (cULus) | E258476 |
| Institute (cULus) | CULUS | Institute (cURus) | CURUS |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002540 | ETIM 7.0 | EC002540 |
| ETIM 8.0 | EC002540 | ETIM 9.0 | 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 |
| ECLASS 12.0 | 27-04-07-01 | ECLASS 13.0 | 27-04-07-01 |

Environmental Product Compliance

| | |
|------------------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
| RoHS Compliance Status | Compliant |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E255651 |
| Certificate no. (cULus) | E258476 |

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | DE_PA5200_160512_004.pdf |
| Engineering Data | CAD data – STEP |
| User Documentation | Warrenty Information Power Supplies.pdf Operating instructions |
| Catalogues | Catalogues in PDF-format |

Data sheet

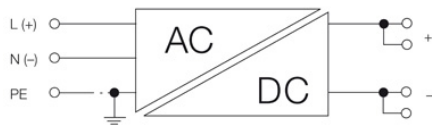
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Drawings

Electric symbol



With DC connection, note polarity