

## CP M SNT 500W 24V 20A

**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com



PRO-M = Power-Reliable-Optimized

The optimal and reliable power supply in automation technology. The solid, very narrow metal housing of the 10 different versions of the 24 V DC supply enable installation without lateral spacing, thereby saving space on the DIN rail. AC and DC wide-range inputs and a broad temperature range allow universal use. Thanks to its high efficiency, overload resistance and high performance reserves, the PRO-M is the reliable power supply in all applications. The 3-phase PRO-M power supply modules continue to work reliable even if one phase fail, i.e. in two-phase operation.

### General ordering data

|                  |                                             |
|------------------|---------------------------------------------|
| Order No.        | <a href="#">8951370000</a>                  |
| Part designation | CP M SNT 500W 24V 20A                       |
| Version          | Power supply, switch-mode power supply unit |
| GTIN (EAN)       | 4032248742585                               |
| Qty.             | 1 pc(s).                                    |

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## Technical data

### Dimensions (1)

|        |        |        |        |
|--------|--------|--------|--------|
| Weight | 2.2 kg | Length | 150 mm |
| Width  | 121 mm | Height | 130 mm |

### temperature

|                                   |                 |                     |                 |
|-----------------------------------|-----------------|---------------------|-----------------|
| Ambient temperature (operational) | -25 °C...+70 °C | Storage temperature | -40 °C...+85 °C |
|-----------------------------------|-----------------|---------------------|-----------------|

### Input

|                          |                                                                                              |                             |                                     |
|--------------------------|----------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|
| AC current consumption   | 2.4 A @ 230 V AC / 4.8 A @ 115 V AC                                                          | Conductor connection system | Screw connection                    |
| DC current consumption   | 1.5 A @ 370 V DC / 4.6 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                                                                                          | Input voltage AC, max.      | 264 V                               |
| Input voltage AC, min.   | 85 V                                                                                         | Input voltage DC, max.      | 370 V                               |
| Input voltage DC, min.   | 80 V                                                                                         | Input voltage range AC      | 85...264 V AC (Derating @ 100 V AC) |
| Recommended back-up fuse | 6 A / DI, safety fuse<br>16 A, Char. B, circuit breaker<br>6...8 A, Char. C, circuit breaker | making current              | max. 5 A                            |
| rated input voltage      | 100...240 V AC (wide-range input)                                                            |                             |                                     |

### output

|                                                   |                                         |                                     |                                                 |
|---------------------------------------------------|-----------------------------------------|-------------------------------------|-------------------------------------------------|
| Conductor connection system                       | Screw connection                        | Output current                      | 20 A                                            |
| Output voltage                                    | (adjustable via potentiometer on front) | Output voltage type                 | DC                                              |
| Output voltage, max.                              | 29.5 V                                  | Output voltage, min.                | 22.5 V                                          |
| Parallel connection option                        | yes, max. 3                             | Powerboost @ 24 V DC, 60 °C         | 24 A for 1 min, ED = 5 %                        |
| Rated (nominal) output current @ U <sub>Nom</sub> | 20 A @ 60 °C                            | continuous output current @ 24 V DC | 24 A @ 45 °C 22.7 A @ 55 °C 15 A @ 70 °C        |
| rated output voltage                              | 24 V DC ± 1 %                           | residual ripple, breaking spikes    | < 50 mV <sub>PP</sub> @ 24 V DC, I <sub>N</sub> |

### General data

|                                                   |                                                                                                                                                        |                                   |                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
| AC failure bridging time @ I <sub>Nom</sub>       | > 20 ms @ 230 V AC / > 20 ms @ 115 V AC                                                                                                                | Ambient temperature (operational) | -25 °C...+70 °C                        |
| Current limiting                                  | > 120 % I <sub>N</sub>                                                                                                                                 | DIN Rail compatibility            | TS 35                                  |
| Degree of efficiency                              | 90 % at 230 V AC / > 85 % at 115 V AC                                                                                                                  | Housing version                   | Metal, corrosion resistant             |
| Indication                                        | Operation, green LED                                                                                                                                   | MTBF                              | > 500,000 h acc. to IEC 1709 (SN29500) |
| Mounting position, installation notice            | Horizontal on TS35 mounting rail, with 50 mm of clearance at top and bottom for air circulation. Can be mounted side by side with no space in between. | Power factor (approx.)            | > 0.98 @ 230 V AC / > 0.99 @ 115 V AC  |
| Protection against reverse voltages from the load | 30...35 V DC                                                                                                                                           |                                   |                                        |

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## Technical data

### Insulation coordination

|                                    |                       |                                    |                                                          |
|------------------------------------|-----------------------|------------------------------------|----------------------------------------------------------|
| Class of protection                | I, with PE connection | Insulation voltage                 | 3 kV input/output; 2 kV input/earth; 0.5 kV output/earth |
| Pollution severity                 | 2                     | Protection class                   | IP 20                                                    |
| electrical isolation, input-earth  | 2 kV                  | electrical isolation, input-output | 3 kV                                                     |
| electrical isolation, output-earth | 0.5 kV                |                                    |                                                          |

### Approvals

|                      |                          |
|----------------------|--------------------------|
| Approvals institutes | CE; CURUS; CULUS; C-Tick |
|----------------------|--------------------------|

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| eClass 5.1 | 27-04-90-02 | eClass 6.0 | 27-04-90-04 |
|------------|-------------|------------|-------------|

### Notes

|                      |                                                                                                                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note, technical data | *) Recommendation applies only for AC operation; the max. permissible operating voltage must be observed in all cases! The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system. |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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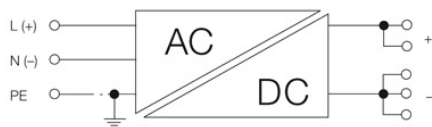
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## Drawings

### Electric symbol



With DC connection, note polarity