

CP M SNT 250W 24V 10A

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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. | 8951360000 |
| Part designation | CP M SNT 250W 24V 10A |
| Version | Power supply, switch-mode power supply unit |
| GTIN (EAN) | 4032248742578 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions (1)

| | | | |
|--------|--------|--------|--------|
| Weight | 1.2 kg | Length | 150 mm |
| Width | 60 mm | Height | 130 mm |

temperature

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

Input

| | | | |
|------------------------|-------------------------------------|-----------------------------|--|
| AC current consumption | 1.2 A @ 230 V AC / 2.4 A @ 115 V AC | Conductor connection system | Screw connection |
| DC current consumption | 0.8 A @ 370 V DC / 2.3 A @ 120 V DC | DC input voltage range | 80...370 V DC (Derating @ 120 V DC) |
| Frequency range AC | 47...63 Hz | 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 | 4 A / DI,safety fuse 16 A, Char. B, circuit breaker 5...10 A, Char. C, circuit breaker |
| making current | max. 12 A | rated input voltage | 100...240 V AC (wide-range input) |

output

| | | | |
|---|---|-------------------------------------|---|
| Conductor connection system | Screw connection | Output current | 10 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. 5 | Powerboost @ 24 V DC, 60 °C | 12 A for 1 min, ED = 5 % |
| Rated (nominal) output current @ U _{Nom} | 10 A @ 60 °C | continuous output current @ 24 V DC | 12 A @ 45 °C, 10.7 A @ 55 °C, 7.5 A @ 70 °C |
| rated output voltage | 24 V DC ± 1 % | residual ripple, breaking spikes | < 50 mV _{PP} @ 24 V DC, I _N |

General data

| | | | |
|---|--|-----------------------------------|--|
| AC failure bridging time @ I _{Nom} | > 20 ms @ 230 V AC / > 20 ms @ 115 V AC | Ambient temperature (operational) | -25 °C...+70 °C |
| Current limiting | > 120 % I _N | DIN Rail compatibility | TS 35 |
| Degree of efficiency | 90 % @ 230 V AC / 87 % @ 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.) | > 0.99 @ 230 V AC / > 0.97 @ 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.

Datasheet

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Drawings

Electric symbol



With DC connection, note polarity
