

## CP M SNT 500W 24V 20A

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

[www.weidmueller.com](http://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.	<a href="#">8951370010</a>
Type	CP M SNT 500W 24V 20A
GTIN (EAN)	4050118143645
Qty.	1 items
Delivery status	Discontinued
Available until	2016-06-30T00:00:00+02:00
Alternative product	<a href="#">PRO MAX 480W 24V 20A</a>

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**Technical data**

**Approvals**

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ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate no. (cULus)	E258476

**Dimensions and weights**

Depth	150 mm	Depth (inches)	5.9055 inch
Height	130 mm	Height (inches)	5.1181 inch
Width	121 mm	Width (inches)	4.7638 inch
Net weight	2660 g		

**Temperatures**

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70
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**Environmental Product Compliance**

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

**Input**

Connection system	Screw connection	AC input voltage range	85...264 V AC (derating at 100 V AC)
Recommended back-up fuse	6 A / DI, safety fuse 16 A, char. B, circuit breaker 10...12 A, char. C, circuit breaker	Frequency range AC	47...63 Hz
Rated input voltage	100...240 V AC (wide-range input)	Input fuse	Yes
Wire connection method	Screw connection	Input fuse (internal)	Yes
AC current consumption	2.4 A @ 230 V AC / 4.8 A @ 115 V AC	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)	Inrush current	max. 5 A

**Output**

Output power	500 W	Rated output voltage	24 V DC ± 1 %
Residual ripple, breaking spikes	< 50 mVPP @ 24 V DC, IN	Parallel connection option	yes, max. 3
Overload protection	Yes	Output voltage, max.	29.5 V
Output voltage, min.	22.5 V	Wire connection method	Screw connection
Output voltage type	DC	Output voltage, note	(adjustable via potentiometer on front)
Nominal output current for Unom	20 A @ 60 °C	Output current	20A
Protection against inverse voltage	Yes	Continuous output current @ UNominal	24 A @ 45 °C, 22.7 A @ 55 °C, 15 A @ 70 °C

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## Technical data

### General data

Power factor (approx.)	> 0.98 @ 230 V AC / > 0.99 @ 115 V AC	AC failure bridging time @ Inom	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Degree of efficiency	90 % at 230 V AC / > 85 % at 115 V AC	Protection degree	IP20
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.	Housing version	Metal, corrosion resistant
Protection against reverse voltages from the load	30...35 V DC	Indication	Operation, green LED
Current limiting	> 120% IN	Clip-in foot	metal
Short-circuit protection	Yes	Protection against over-heating	Yes

### EMC / shock / vibration

Limiting of mains voltage harmonic currents	According to EN 61000-3-2	Shock resistance IEC 60068-2-27	30 g in all directions
Noise emission in accordance with EN55032	Class B	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)
Vibration resistance IEC 60068-2-6	1 g according to EN 50178		

### Insulation coordination

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

### Electrical safety (applied standards)

For use with electronic equipment	Acc. to EN50178 / VDE0160	Electrical machine equipment	Acc. to EN60204
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)

Connection system	Screw connection	Number of terminals	3 for L/N/PE
Conductor cross-section, AWG/kcmil, max.	10	Conductor cross-section, AWG/kcmil, min.	26
Wire connection cross section, flexible (input), max.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible, min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid, max.	6 mm <sup>2</sup>	Conductor cross-section, rigid, min.	0.5 mm <sup>2</sup>
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm

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## Technical data

### Connection data (output)

Number of terminals	5 (++) / (-)	Conductor cross-section, AWG/kcmil , max.	10
Conductor cross-section, AWG/kcmil , min.	26	Conductor cross-section, flexible , max.	2.5 mm <sup>2</sup>
Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>	Conductor cross-section, rigid , max.	6 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.6 Nm		

### Classifications

ETIM 8.0	EC002540	ETIM 9.0	EC002540
ETIM 10.0	EC002540	ECLASS 14.0	27-04-07-01
ECLASS 15.0	27-04-07-01		