

CP M SNT 500W 24V 20A

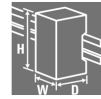
Weidmüller Interface GmbH & Co. KG

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.	8951370000
Type	CP M SNT 500W 24V 20A
GTIN (EAN)	4032248742585
Qty.	1 pc(s).
Delivery status	Discontinued
Available until	2016-06-30
Alternative product	1478140000

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Technical data

Dimensions and weights

Depth	150 mm	Depth (inches)	5.905 inch
Height	130 mm	Height (inches)	5.118 inch
Width	121 mm	Width (inches)	4.764 inch
Net weight	2,387 g		

Temperatures

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

REACH SVHC	Lead 7439-92-1
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Input

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

Output

Continuous output current @ U_{Nominal}	24 A @ 45 °C, 22.7 A @ 55 °C, 15 A @ 70 °C	Nominal output current for U_{nom}	20 A @ 60 °C
Output current	20A	Output power	500 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. 3
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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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 % at 230 V AC / > 85 % at 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.
Operating temperature	-25 °C...70 °C	Power factor (approx.)	> 0.98 @ 230 V AC / > 0.99 @ 115 V AC
Protection against over-heating	Yes	Protection against reverse voltages from the load	30...35 V DC
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

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.	10	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
Wire connection cross section, flexible (input), max.	2.5 mm ²		

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Technical data

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	10	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	5 (++ / -)		

Approbations

Certificate No. (GERMLLOYD)	94767-10	Certificate no. (cULus)	E258476
Institute (GERMLLOYD)	GERMLLOYD	Institute (cULus)	CULUS

Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	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

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E258476

Downloads

Approval/Certificate/Document of Conformity	DE_PA5200_160512_004.pdf
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Warrenty_Information_Power_Supplies.pdf Operating instructions
Catalogues	Catalogues in PDF-format

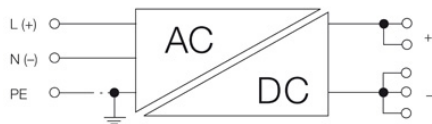
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Drawings

Electric symbol



With DC connection, note polarity