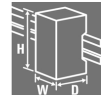


CP M SNT3 500W 24V 20A**Weidmüller Interface GmbH & Co. KG**

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.	8951410000
Type	CP M SNT3 500W 24V 20A
GTIN (EAN)	4032248742622
Qty.	1 pc(s).
Delivery status	Discontinued
Available until	2016-06-30
Alternative product	1478190000

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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	2,303 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
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Rated data UL

Certificate No. (cURus)	E255651
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Input

AC current consumption	0.9 A @ 3 x 500 V AC / 0.95 A @ 3 x 400 V AC	AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Connection system	Screw connection	DC current consumption	0.7 A @ 800 V DC / 1.2 A @ 450 V DC
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)	Frequency range AC	47...63 Hz
Input fuse	Yes	Input fuse (internal)	Yes
Inrush current	max. 50 A	Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Recommended back-up fuse	4 A / DI, safety fuse 3...5 A, Char. C, circuit breaker	Wire connection method	Screw connection

Output

Continuous output current @ $U_{Nominal}$	24 A @ 45 °C, 21.3 A @ 55 °C, 15 A @ 70 °C	Nominal output current for U_{nom}	20 A @ 60 °C
Output current	20A	Output power	480 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		

General data

AC failure bridging time @ I_{nom}	> 25 ms at 3 x 500 V AC / > 20 ms at 3 x 400 V AC	Current limiting	> 120% I_N
Degree of efficiency	89 % @ 3 x 500 V AC / 90 % @ 3 x 400 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.)	< 0.69 @ 3 x 500 V AC / > 0.82 @ 3 x 400 V AC	Protection against over-heating	Yes
Protection against reverse voltages from the load	30...35 V DC	Protection degree	IP20
Short-circuit protection	Yes		

Creation date March 4, 2024 8:13:21 PM CET

Catalogue status 24.02.2024 / We reserve the right to make technical changes.

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Technical data

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 mm ²		

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. (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	27-04-90-02

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Technical data

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

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
User Documentation	Warrenty Information Power Supplies.pdf Operating instructions
Catalogues	Catalogues in PDF-format

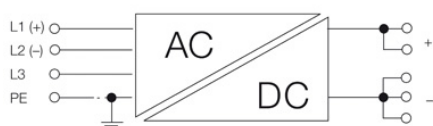
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Drawings

Electric symbol



With DC connection, note polarity
Two-phase operation also possible