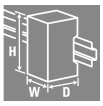
Data sheet

CP M SNT3 250W 24V 10A

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.	8951400000
Type	CP M SNT3 250W 24V 10A
GTIN (EAN)	4032248742615
Qty.	1 items
Delivery status	Discontinued
Available until	2016-06-30T00:00:00+02:00
Alternative product	PRO MAX3 240W 24V 10A

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E255651
Certificate no. (cULus)	E258476

Dimensions and weights

Depth	150 mm	Depth (inches)	5.9055 inch
Height	130 mm	Height (inches)	5.1181 inch
Width	60 mm	Width (inches)	2.3622 inch
Net weight	1293 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70

Environmental Product Compliance

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

Rated data UL

Certificate No. (cURus)	E255651

Input

Connection system	Screw connection	AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Recommended back-up fuse	2 A / DI, safety fuse 2...3 A, Char. C, circuit breaker	Frequency range AC	47...63 Hz
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)	Input fuse	Yes
Wire connection method	Screw connection	Input fuse (internal)	Yes
AC current consumption	0.5 A @ 3 x 500 V AC / 0.55 A @ 3 x 400 V AC	DC current consumption	0.35 A @ 800 V DC / 0.6 A @ 450 V DC
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)	Inrush current	max. 50 A

Output

Output power	240 W	Rated output voltage	24 V DC ± 1 %
Residual ripple, breaking spikes	< 50 mVPP @ 24 V DC, IN	Parallel connection option	yes, max. 5
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	10 A @ 60 °C	Output current	10A
Continuous output current @ UNominal	12 A @ 45 °C, 10,7 A @ 55 °C, 7,5 A @ 70 °C		

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General data

Power factor (approx.)	> 0.65 @ 3 x 500 V AC / > 0.75 @ 3 x 400 V AC	AC failure bridging time @ Inom	> 40 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
Degree of efficiency	89 % @ 3 x 500 V AC / 90 % @ 3 x 400 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	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)

Insulation coordination

Pollution severity	2	Insulation voltage	3 kV input/ouput; 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	4 for L1/L2/L3/PE
Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Wire connection cross section, flexible (input), max.	2.5 mm²	Conductor cross-section, flexible , min.	0.5 mm²
Conductor cross-section, rigid , max.	6 mm²	Conductor cross-section, rigid , min.	0.5 mm²
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.	12
Conductor cross-section, AWG/kcmil , min.	26	Conductor cross-section, flexible , max.	2.5 mm²
Conductor cross-section, flexible , min.	0.5 mm²	Conductor cross-section, rigid , max.	6 mm²
Conductor cross-section, rigid , min.	0.5 mm²	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		

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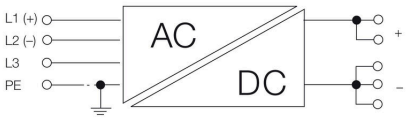
Drawings

Electric symbol



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