

CP M SNT3 1000W 24V 40A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

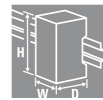
D-32758 Detmold

Germany

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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

Order No.	8951420000
Type	CP M SNT3 1000W 24V 40A
Version	Power supply, switch-mode power supply unit
GTIN (EAN)	4032248742646
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	150 mm	Width	180 mm
Height	130 mm	Depth	150 mm
Weight	4 kg	Net weight	4,230 g

Temperatures

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

AC current consumption	2.0 A @ 3 x 500 V AC / 2.5 A @ 3 x 400 V AC	Conductor connection system	Screw connection
DC current consumption	1.3 A @ 800 V DC / 2.4 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	No
Input fuse (internal)	No	Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Recommended back-up fuse	6 A / DI, safety fuse 10 A, Char. B, circuit breaker 6...8 A, Char. C, circuit breaker	making current	max. 60 A
rated input voltage	3 x 400...3 x 500 V AC (wide-range input)		

output

Conductor connection system	Screw connection	Output current	40 A
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
Powerboost @ 24 V DC, 60 °C	48 A for 1 min, ED = 5 %	Rated (nominal) output current @ U_{Nom}	40 A @ 60 °C
continuous output current @ 24 V DC	48 A @ 45 °C, 42.7 A @ 55 °C, 30 A @ 70 °C	output power	960 W
rated output voltage	24 V DC $\pm$ 1 %	residual ripple, breaking spikes	< 50 mV _{SS} @ 24 V DC, I_N

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	91 % @ 3 x 500 V AC / 91 % @ 3 x 400 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.	Operating temperature	-25 °C...+70 °C
Power factor (approx.)	> 0.6 @ 3 x 500 V AC / > 0.6 @ 3 x 400 V AC	Protection against over-heating	Yes
Protection against reverse voltages from the load	30...35 V DC	Short-circuit protection	Yes
Weight	4 kg		

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Technical data**EMC / shock / vibration**

Limiting of mains voltage harmonic currents	in accordance with EN 61000-3-2	Noise emission acc. to EN55022	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)	Shock resistance IEC 60068-2-27	30 g in all directions

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	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 extra-low voltage	SELV acc. to EN60950, PLEV acc. to EN60204	Safety transformers for switch-mode power supplies	Acc. to EN 61558-2-17

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	Number of terminals [Input]	4 for L1/L2/L3/PE
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Wire connection cross section, flexible (input), max.	2.5 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	6	Conductor cross-section, AWG/kcmil , min.	22
Conductor cross-section, flexible , max.	10 mm ²	Conductor cross-section, flexible , min.	0.5 mm ²
Conductor cross-section, rigid , max.	16 mm ²	Conductor cross-section, rigid , min.	0.5 mm ²
Number of terminals [Output]	5 (++) / (—)	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

Classifications

ETIM 3.0	EC001039	eClass 5.1	27-04-90-02
eClass 6.0	27-04-90-04	eClass 7.0	27-04-90-04

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Technical data**Approvals**

Approvals

**Downloads**

Declaration of Conformity	K469_12_11.pdf
PDF	Warranty information
EPLAN	8951420000.ema
3-D model	

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With DC connection, note polarity

Two-phase operation also possible