CP M SNT 120W 24V 5A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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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

Type	CP M SNT 120W 24V 5A
Order No.	8951340000
Version	Power supply, switch-mode power supply unit
GTIN (EAN)	4032248742554
Qty.	1 pc(s).

Creation date October 30, 2013 11:07:49 AM CET

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Technical data

Dimensions and weights

Width	40 mm	Height	130 mm
Depth	125 mm	Weight	0.7 kg
Net weight	724.3 g		

Temperatures

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

Input

AC current consumption	1.1 A @ 230 V AC / 2.0 A @ 115 V AC	AC input voltage range	85...264 V AC (Derating @ 100 V AC)
DC current consumption	0.4 A @ 370 V DC / 1.2 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. 40 A
Recommended back-up fuse	4 A / DI, safety fuse 6 A, Char. B, circuit breaker 3...5 A, Char. C, circuit breaker	Wire connection method	Screw connection
rated input voltage	100...240 V AC (wide-range input)		

output

Output current	5 A	Output power	120 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. 5
Powerboost @ 24 V DC, 60 °C	6 A for 1 min, ED = 5 %	Rated (nominal) output current @ U_{Nom}	5 A @ 60 °C
Wire connection method	Screw connection	continous output current @ 24 V DC	6.0 A @ 45 °C, 5.3 A @ 55 °C, 3.8 A @ 70 °C
rated output voltage	24 V DC ± 1 %	residual ripple, breaking spikes	< 50 mV_{SS} @ 24 V DC, I_N

General data

AC failure bridging time @ I_{Nom}	> 100 ms @ 230 V AC / > 20 ms @ 115 V AC	Current limiting	> 120 % I_N
Degree of efficiency	90 % @ 230 V AC / 88 % @ 115 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.)	> 0.5 @ 230 V AC / > 0.6 @ 115 V AC	Protection against over-heating	Yes
Protection against reverse voltages from the load	30...35 V DC	Short-circuit protection	Yes
Weight	0.7 kg		

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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/ouput; 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, PELV acc. to EN60204	Safety transformers for switch-mode power supplies	Acc. to EN 61558-2-17

Connection data (input)

Conductor cross-section, AWGcmil , max.	12	Conductor cross-section, AWGcmil , min.	26
Conductor cross-section, flexible , min.	0.5 mm²	Conductor cross-section, rigid , max.	6 mm²
Conductor cross-section, rigid , min.	0.5 mm²	Number of terminals [Input]	3 for L/N/PE
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Wire connection cross section, flexible (input), max.	2.5 mm²		

Connection data (output)

Conductor cross-section, AWGcmil , max.	12	Conductor cross-section, AWGcmil , 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
Number of terminals [Output]	5 (++ / —)	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

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Approvals

Institute (GERMLLOYD)		Certificate No. (GERMLLOYD)	94767-10
Institute (cULus)		Certificate no. (cULus)	E258476VOL1SEC22
Institute (cURus)		Certificate No. (cURus)	E255651VOLX3A13

Classifications

ETIM 3.0	EC001039	eClass 5.1	27-04-90-02
eClass 6.2	27-04-90-04	eClass 7.1	27-04-90-04

Product information

Descriptive text ordering data	The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
Descriptive text technical data	*) Recommendation applies only to AC operation; the max. permissible operating voltage is to be observed in all cases!

Approvals

Approvals	
ROHS	Conform

Downloads

Package insert	Operating instructions
Declaration of Conformity	K469_12_11.pdf
PDF	Warranty information
EPLAN	8951340000.ema
3-D model	

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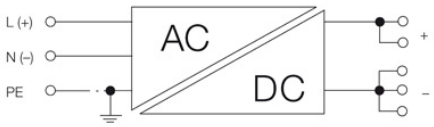
Drawings

Electric symbol



With DC connection, note polarity