Datasheet

CP M SNT 120W 24V 5A

Weidmüller Interface GmbH & Co. KG
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PRO-M = Power-Reliable-Optimized

The optimal and reliable power supply in automation technology. The solid, very narrow metal housing of the 10 different versions of the 24 V DC supply enable installation without lateral spacing, thereby saving space on the DIN rail. AC and DC wide-range inputs and a broad temperature range allow universal use. Thanks to its high efficiency, overload resistance and high performance reserves, the PRO-M is the reliable power supply in all applications. The 3-phase PRO-M power supply modules continue to work reliable even if one phase fail, i.e. in two-phase operation.

General ordering data

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

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Technical data

Dimensions (1)

Weight	0.7 kg	Length	125 mm
Width	40 mm	Height	130 mm

temperature

Ambient temperature (operational)	-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	Conductor connection system	Screw connection
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	Input voltage AC, max.	264 V
Input voltage AC, min.	85 V	Input voltage DC, max.	370 V
Input voltage DC, min.	80 V	Input voltage range AC	85…264 V AC (Derating @ 100 V AC)
Recommended back-up fuse	4 A / DI, safety fuse 6 A, Char. B, circuit breaker 3...5 A, Char. C, circuit breaker	making current	max. 40 A
rated input voltage	100...240 V AC (wide-range input)		

output

Conductor connection system	Screw connection	Output current	5 A
Output voltage	(adjustable via potentiometer on front)	Output voltage type	DC
Output voltage, max.	29.5 V	Output voltage, min.	22.5 V
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	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_{PP} @ 24 V DC, I_N

General data

AC failure bridging time @ I_{Nom}	> 100 ms @ 230 V AC / > 20 ms @ 115 V AC	Ambient temperature (operational)	-25 °C...+70 °C
Current limiting	> 120 % I_N	DIN Rail compatibility	TS 35
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.	Power factor (approx.)	> 0.5 @ 230 V AC / > 0.6 @ 115 V AC
Protection against reverse voltages from the load	30…35 V DC		

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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	Protection class	IP 20
electrical isolation, input-earth	2 kV	electrical isolation, input-output	3 kV
electrical isolation, output-earth	0.5 kV		

Approvals

Approvals institutes	CE; CURUS; CULUS; C-Tick

Classifications

eClass 5.1	27-04-90-02	eClass 6.0	27-04-90-04

Notes

Note, technical data	*) Recommendation applies only for AC operation; the max. permissible operating voltage must be observed in all cases! The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

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Drawings

Electric symbol



With DC connection, note polarity