

CP M SNT 250W 24V 10AUW

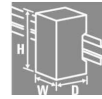
Weidmüller Interface GmbH & Co. KG

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.	1165480010
Type	CP M SNT 250W 24V 10AUW
GTIN (EAN)	4050118117318
Qty.	1 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2021-06-30
Alternative product	2467250000

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Technical data

Dimensions and weights

Depth	155 mm	Depth (inches)	6.102 inch
Height	130 mm	Height (inches)	5.118 inch
Net weight	1,300 g	Width	60 mm
Width (inches)	2.362 inch		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

AC current consumption	1.2 A @ 230 V AC / 2.4 A @ 115 V AC	AC input voltage range	85...264 V AC (derating at 100 V AC)
Connection system	Screw connection	DC current consumption	0.8 A @ 370 V DC / 2.3 A @ 120 V DC
DC input voltage range	80...430 V DC	Frequency range AC	47...63 Hz
Input fuse (internal)	Yes	Inrush current	max. 12 A
Rated input voltage	100...240 V AC (wide-range input)	Recommended back-up fuse	4 A / DI, safety fuse 10 A, Char. B, circuit breaker 3...4 A, Char. C, circuit breaker
Wire connection method	Screw connection		

Output

Nominal output current for U_{nom}	10 A @ 60 °C	Output current	10A
Output voltage	24 V	Output voltage	22.5...29.5 V (adjustable via potentiometer on front)
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 (without diode module)
Rated output voltage	24 V DC $\pm$ 1 %	Residual ripple, breaking spikes	< 50 mV _{PP} @ 24 V DC, I_N , < 2.4 V _{SS} @ 24 V DC, I_N @ -40°C
Wire connection method	Screw connection		

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General data

AC failure bridging time @ I_{nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Ambient temperature	-25 °C...+70 °C (derating from 60 °C)
Clip-in foot	metal	Current limiting	> 120% I_N
Degree of efficiency	90 % @ 230 V AC / 87 % @ 115 V AC	Housing version	Metal, corrosion resistant
Indication	Dual LED Operational: green LED, Error: red LED	MTBF	> 500,000 h in accordance with IEC 61709 (SN29500)
Max. perm. air humidity (operational)	5 %...95 % RH	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.
Operating temperature	-25 °C...70 °C	Power factor (approx.)	> 0.99 @ 230 V AC / > 0.97 @ 115 V AC
Protection against over-heating	Yes	Protection against reverse voltages from the load	30...35 V DC
Short-circuit protection	Yes		

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 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.	12	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.	2.5 mm ²		

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Technical data

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	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	6 (+,+,,-,COM,NO)		

Signalling

Contact load (NO contact)	max. 30 V DC / 0.5 A	Floating contact	Yes
Relay on/off	Output voltage > 21.6 V / < 20.4 V	Status indicator	Green LED, red LED

Approvals

Certificate No. (GERMLLOYD)	TAA00001H0	Certificate no. (cULus)	E258476
Institute (GERMLLOYD)	GERMLLOYD	Institute (cULus)	CULUS

Classifications

ETIM 6.0	EC002540	ETIM 7.0	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

Approvals

Approvals



ROHS	Conform
UL File Number Search	E258476

Downloads

Approval/Certificate/Document of Conformity	DE_PA5200_160512_003.pdf
Engineering Data	EPLAN, WSCAD
User Documentation	Operating instructions

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Drawings

Electric symbol

