

PRO-M

Power supplies for space-saving use in automation technology

NEW

PRO-M = Power-Reliable-Optimized for Machinery

The optimal and reliable power supply for machinery.

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 enable universal use. Thanks to its high efficiency, overload resistance and high performance reserves, the PRO-M is the reliable power supply in all applications.

Should one phase fail, the 3-phase PRO-M power supply modules continue to work reliably, i.e. in two-phase operation.



United Kingdom

Weidmüller Ltd.
1 Abbey Wood Road
Kings Hill
West Malling
Kent ME19 4YT
Phone +44 1732 877032
Fax +44 1732 873873
info@weidmuller.co.uk
www.weidmuller.com

USA

W-Interconnections, Inc.
821 Southlake Boulevard,
Richmond, VA 23236
Phone +1 804 7942877
Fax +1 804 3792593
info@weidmuller.com
www.weidmuller.com

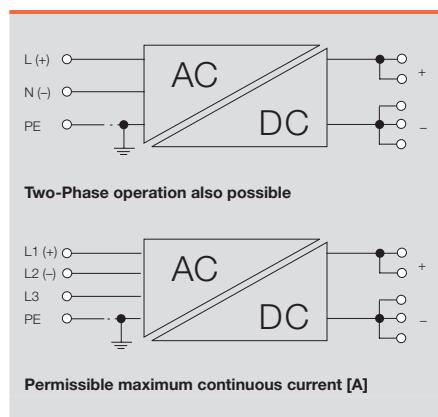
Other countries

Weidmüller Interface GmbH & Co. KG
P.O. Box 3030
D-32720 Detmold
Phone +49 5231 14-0
Fax +49 5231 14-20 83
info@weidmuller.com
www.weidmuller.com

connectPower
PRO-M



Preliminary product data!



Technical data

General technical data	
Current limiting	> 120 % I _{nom}
Ambient temp. operating / storage	-25 °C ... +70 °C / -40 °C ... +85 °C
Max. perm. air humidity (operation)	20 % ... 95 % RH
Protection class	IP20
Class of protection	I, with PE connection
Overvoltage category	II
Pollution severity	2
Insulation voltage	4 kV I/O / 2 kV I/earth / 0.5 kV O/earth
MTBF	> 500,000 h acc. to IEC 1709 (SN29500)
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, without diode module
Housing version	metal, corrosion resistant
Indication	operation, green LED
Mounting position, installation notice	horizontal on mounting rail TS35, 30 mm spacing top and bottom for free air circulation, can be mounted side by side with no space in between
EMC / shock / vibration	
Noise emission acc. to EN55022	Class B
Noise immunity tests acc. to	EN61000-4-2 (ESD), EN61000-4-3 und EN61000-4-8 (Fields), EN61000-4-4 (Burst), EN61000-4-5 (Surge), EN61000-4-6 (conducted), EN61000-4-11 (Dips)
Limiting of mains voltage harmonic currents	Acc. to EN 61000-3-2
Resistance against vibration and shock	Acc. to EN50178, shock: 5g in all directions
Electrical safety (applied standards)	
Electrical equipment of machines	Acc. to EN60204
Safety transformers for switched-mode power units	Acc. to EN61558-2-17
Machinery with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950, PLEV acc. to EN60204
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

Max. limiting average on state current [A]

Type\Temp.	45°C	50°C	55°C	60°C	65°C	70°C
1ph 24V / 3A	3.6	3.45	3.3	3	2.7	2.2
1ph 24V / 5A	6	5.75	5.5	5	4.5	3.7
1ph 24V / 7.5A	9	8.6	8.25	7.5	6.75	5.6
1ph 24V / 10A	12	11.5	11	10	9	7.5
1ph 24V / 20A	24	23	22	20	18	15
1ph 24V / 40A	48	46	44	40	36	30
3ph 24V / 5A	6	5.75	5.5	5	4.5	3.7
3ph 24V / 10A	12	11.5	11	10	9	7.5
3ph 24V / 20A	24	23	22	20	18	15
3ph 24V / 40A	48	46	44	40	36	30

Project-planning data

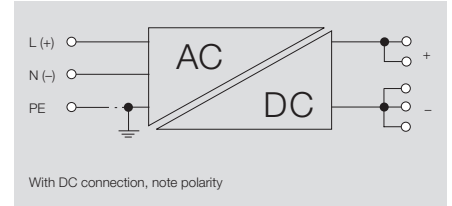
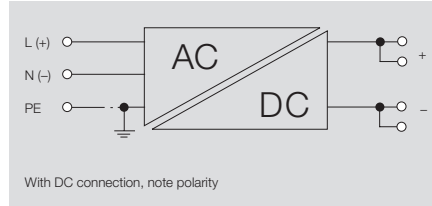
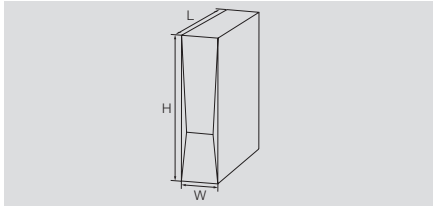
Type	24 V / 3 A	24 V / 5 A	24 V / 7.5 A	24 V / 10 A	24 V / 20 A	24 V / 40 A	24 V / 5 A	24 V / 10 A	24 V / 20 A	24 V / 40 A
	1 - phase						3 - phase			
Rated input voltage	100...240 V AC						3 x 400...500 V AC			
Mains voltage range	85...264 V AC						3 x 320...575 V AC			
Mains input current (min/max)	1.9...0.6 A	3.2...1.0 A	4.7...1.6 A	3.2...1.1 A	6.4...2.1 A	12.7...4.1 A	0.4...0.2 A	0.7...0.4 A	1.3...0.7 A	2.6...1.2 A
Rec. fuse [char.]	2 A / D I	4 A / D I	6 A / D I	6 A / D I	10 A / D I	16 A / D I	2 A / D I	2 A / D I	2 A / D I	4 A / D I
	2...4 A, [C]	3...5 A, [C]	5...10 A, [C]	5...10 A, [C]	10...12 A, [C]	14...16 A, [C]	1...2 A, [C]	2...3 A, [C]	3...5 A, [C]	6...8 A, [C]
Efficiency @ 230VAC	88 %	89 %	90 %	90 %	> 90 %	> 90 %	90 %	> 90 %	> 90 %	> 90 %
Rated power loss [W]	10 W	15 W	20 W	27 W	53 W	106 W	13 W	26 W	53 W	107 W
Installation width mm	33	40	50	60	115	140	40	60	115	140
Input terminals	Screw connection									
Conductor, solid min/max mm ²	0.5...6			0.5...6			0.5...6		0.5...6	
Conductor, flexible min/max mm ²	0.5...2.5			0.5...2.5			0.5...2.5		0.5...2.5	
Conductor, AWG/kcmil min/max	26 / 12			26 / 10			26 / 12		26 / 12	
Output terminals	Screw connection									
Number plus/minus	2 / 2		2 / 3							
Conductor, solid min/max mm ²	0.5...6			0.5...6			0.5...6		0.5...6	
Conductor, flexible min/max mm ²	0.5...2.5			0.5...2.5			0.5...2.5		0.5...2.5	
Conductor, AWG/kcmil min/max	26 / 12			26 / 10			26 / 6		26 / 10	

connectPower
PRO-M

CP M SNT 70W 24V 3A

CP M SNT 120W 24V 5A

Preliminary product data!



Technical data

Input data

Rated input voltage
AC input voltage range
AC frequency range
DC input voltage range
AC current consumption
DC current consumption
Input fuse (internal)
Recommended backup fuse *)

100...240 V AC (wide-range input)
85...264 V AC
47...63 Hz
80...370 V DC
0,80 A @ 230 V AC / 1,5A @ 115 V AC
0,25 A @ 370 V DC / 1,1 A @ 80 V DC
yes
2 A / DI, safety fuse
6 A, Char. B, Circuit breaker
2...4 A, Char. C, Circuit breaker

100...240 V AC (wide-range input)
85...264 V AC
47...63 Hz
80...370 V DC
1,3 A @ 230 V AC / 2,4 A @ 115 V AC
0,5 A @ 370 V DC / 1,8 A @ 80 V DC
yes
4 A / DI, safety fuse
6 A, Char. B, Circuit breaker
3...5 A, Char. C, Circuit breaker

Output data

Rated output voltage
Output voltage
Residual ripple, switching peaks
Rated output current @ V_{rated}
Continuous output current @ 24 V DC

24 V DC \pm 1 %
22,5...29,5 V DC (adjustable via potentiometer on front)
100 mV_{SS} @ 24 V DC, I_{load}
3 A @ 60 °C
3,6 A @ 45 °C
3,3 A @ 55 °C
2,2 A @ 70 °C
3,6 A for 2 min, ED=5 %

24 V DC \pm 1 %
22,5...29,5 V DC (adjustable via potentiometer on front)
100 mV_{SS} @ 24 V DC, I_{load}
5 A @ 60 °C
6,0 A @ 45 °C
5,5 A @ 55 °C
3,7 A @ 70 °C
6 A for 2 min, ED=5 %

Power boost @ 24 V DC, 60 °C

General data

Efficiency
Power factor (approx.)
Mains buffering @ I_{rated}
Parallel connection option
Length x Width x Height mm
Weight

88 % @ 230 V AC / > 85 % @ 115 V AC
> 0,5 @ 230 V AC / > 0,53 @ 115 V AC
> 100 ms @ 230 V AC / > 20 ms @ 100 V AC
yes
125 x 33 x 130
0,4 kg

89 % @ 230 V AC / > 85 % @ 115 V AC
> 0,5 @ 230 V AC / > 0,53 @ 115 V AC
> 100 ms @ 230 V AC / > 20 ms @ 100 V AC
yes
125 x 40 x 130
0,55 kg

Approvals

In preparation

CE, cURus, UL508, CSA22.2 no.107, gL, GOST

CE, cURus, UL508, CSA22.2 no.107, gL, GOST

Connection data

Type of connection
Number of terminals
Conductor cross-section, rigid min/max mm²
Conductor cross-section, flexible min/max mm²
Conductor cross-section, AWG/kcmil min/max

Input	Output
Screw connection	Screw connection
3 for L/N/PE	4 (+/-)
0,5 / 6	0,5 / 6
0,5 / 2,5	0,5 / 2,5
26 / 12	26 / 12

Input	Output
Screw connection	Screw connection
3 for L/N/PE	5 (+/-)
0,5 / 6	0,5 / 6
0,5 / 2,5	0,5 / 2,5
26 / 12	26 / 26

Information

*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

Ordering data

Type	Qty.	Order No.
CP M SNT 70W 24V 3A	1	8951330000

Type	Qty.	Order No.
CP M SNT 70W 24V 3A	1	8951330000

Type	Qty.	Order No.
CP M SNT 120W 24V 5A	1	8951340000

Accessories

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
------	------	-----------

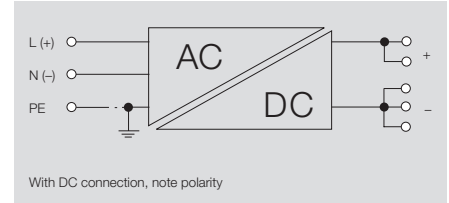
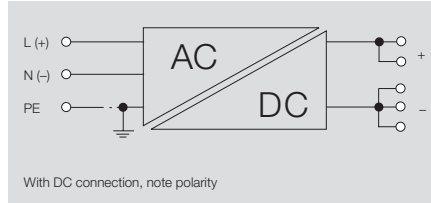
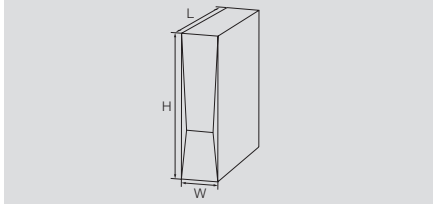
PRO-M

**connectPower
PRO-M**

CP M SNT 180W 24V 7,5A

CP M SNT 250W 24V 10A

Preliminary product data!



Technical data

Input data	
Rated input voltage	100...240 V AC (wide-range input)
AC input voltage range	85...264 V AC
AC frequency range	47...63 Hz
DC input voltage range	80...370 V DC
AC current consumption	1,9 A @ 230 V AC / 3,6 A @ 115 V AC
DC current consumption	0,6 A @ 370 V DC / 2,6 A @ 80 V DC
Input fuse (internal)	yes
Recommended backup fuse *)	6 A / DI, safety fuse 16 A, Char. B, Circuit breaker 5...10 A, Char. C, Circuit breaker
Output data	
Rated output voltage	24 V DC ± 1 %
Output voltage	22,5...29,5 V DC (adjustable via potentiometer on front)
Residual ripple, switching peaks	100 mV _{SS} @ 24 V DC, I _{load}
Rated output current @ V _{rated}	7,5 A @ 60 °C 9,0 A @ 45 °C 8,2 A @ 55 °C 5,6 A @ 70 °C
Continuous output current @ 24 V DC	9 A for 2 min, ED=5 %
Power boost @ 24 V DC, 60 °C	
General data	
Efficiency	90 % @ 230 V AC / > 85 % @ 115 V AC
Power factor (approx.)	> 0,5 @ 230 V AC / > 0,53 @ 115 V AC
Mains buffering @ I _{rated}	> 40 ms @ 230 V AC / > 20 ms @ 100 V AC
Parallel connection option	yes
Length x Width x Height	125 x 50 x 130 mm
Weight	0,7 kg
Approvals	
In preparation	CE, cURus, UL508, CSA22.2 no.107, gL, GOST
Connection data	
Type of connection	Screw connection
Number of terminals	3 for L/N/PE
Conductor cross-section, rigid min/max	0,5 / 6 mm ²
Conductor cross-section, flexible min/max	0,5 / 2,5 mm ²
Conductor cross-section, AWG/kcmil min/max	26 / 12
Information	
	*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

Input data	
Rated input voltage	100...240 V AC (wide-range input)
AC input voltage range	85...264 V AC
AC frequency range	47...63 Hz
DC input voltage range	80...370 V DC
AC current consumption	1,3 A @ 230 V AC / 2,5 A @ 115 V AC
DC current consumption	0,9 A @ 370 V DC / 3,4 A @ 80 V DC
Input fuse (internal)	yes
Recommended backup fuse *)	6 A / DI, safety fuse 16 A, Char. B, Circuit breaker 5...10 A, Char. C, Circuit breaker
Output data	
Rated output voltage	24 V DC ± 1 %
Output voltage	22,5...29,5 V DC (adjustable via potentiometer on front)
Residual ripple, switching peaks	100 mV _{SS} @ 24 V DC, I _{load}
Rated output current @ V _{rated}	10 A @ 60 °C 12 A @ 45 °C 11 A @ 55 °C 7,5 A @ 70 °C
Continuous output current @ 24 V DC	12 A for 2 min, ED=5 %
Power boost @ 24 V DC, 60 °C	
General data	
Efficiency	90 % @ 230 V AC / > 85 % @ 115 V AC
Power factor (approx.)	> 0,98 @ 230 V AC / > 0,98 @ 115 V AC
Mains buffering @ I _{rated}	> 40 ms @ 230 V AC / > 20 ms @ 100 V AC
Parallel connection option	yes
Length x Width x Height	150 x 60 x 130 mm
Weight	0,9 kg
Approvals	
In preparation	CE, cURus, UL508, CSA22.2 no.107, gL, GOST
Connection data	
Type of connection	Screw connection
Number of terminals	3 for L/N/PE
Conductor cross-section, rigid min/max	0,5 / 6 mm ²
Conductor cross-section, flexible min/max	0,5 / 2,5 mm ²
Conductor cross-section, AWG/kcmil min/max	26 / 12
Information	
	*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

Input data	
Rated input voltage	100...240 V AC (wide-range input)
AC input voltage range	85...264 V AC
AC frequency range	47...63 Hz
DC input voltage range	80...370 V DC
AC current consumption	1,3 A @ 230 V AC / 2,5 A @ 115 V AC
DC current consumption	0,9 A @ 370 V DC / 3,4 A @ 80 V DC
Input fuse (internal)	yes
Recommended backup fuse *)	6 A / DI, safety fuse 16 A, Char. B, Circuit breaker 5...10 A, Char. C, Circuit breaker
Output data	
Rated output voltage	24 V DC ± 1 %
Output voltage	22,5...29,5 V DC (adjustable via potentiometer on front)
Residual ripple, switching peaks	100 mV _{SS} @ 24 V DC, I _{load}
Rated output current @ V _{rated}	10 A @ 60 °C 12 A @ 45 °C 11 A @ 55 °C 7,5 A @ 70 °C
Continuous output current @ 24 V DC	12 A for 2 min, ED=5 %
Power boost @ 24 V DC, 60 °C	
General data	
Efficiency	90 % @ 230 V AC / > 85 % @ 115 V AC
Power factor (approx.)	> 0,98 @ 230 V AC / > 0,98 @ 115 V AC
Mains buffering @ I _{rated}	> 40 ms @ 230 V AC / > 20 ms @ 100 V AC
Parallel connection option	yes
Length x Width x Height	150 x 60 x 130 mm
Weight	0,9 kg
Approvals	
In preparation	CE, cURus, UL508, CSA22.2 no.107, gL, GOST
Connection data	
Type of connection	Screw connection
Number of terminals	3 for L/N/PE
Conductor cross-section, rigid min/max	0,5 / 6 mm ²
Conductor cross-section, flexible min/max	0,5 / 2,5 mm ²
Conductor cross-section, AWG/kcmil min/max	26 / 12
Information	
	*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

Ordering data

Type	Qty.	Order No.
CP M SNT 180W 24V 7,5A	1	8951350000

Type	Qty.	Order No.
CP M SNT 180W 24V 7,5A	1	8951350000

Type	Qty.	Order No.
CP M SNT 250W 24V 10A	1	8951360000

Accessories

--	--	--

--	--	--

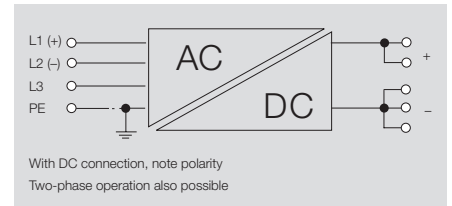
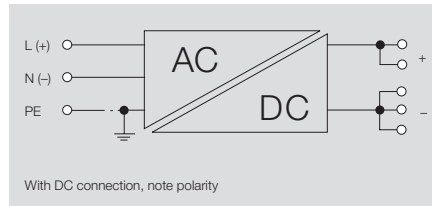
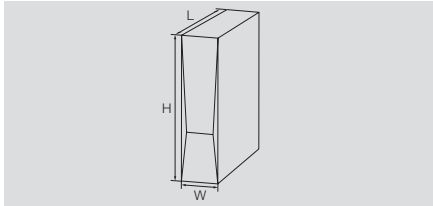
--	--	--

connectPower
PRO-M

CP M SNT 500W 24V 20A

CP M SNT 1000W 24V 40A

Preliminary product data!



Technical data

Input data

Rated input voltage
AC input voltage range
AC frequency range
DC input voltage range
AC current consumption
DC current consumption
Input fuse (internal)
Recommended backup fuse *)

100...240 V AC wide-range input)
85...264 V AC
47...63 Hz
80...370 V DC
2,5 A @ 230 V AC / 4,9 A @ 115 V AC
1,6 A @ 370 V DC / 6,8 A @ 80 V DC
yes
10 A / DI, safety fuse
20 A, Char. B, Circuit breaker
10...12 A, Char. C, Circuit breaker

100...240 V AC (wide-range input)
85...264 V AC
47...63 Hz
80...370 V DC
4,9 A @ 230 V AC / 9,6 A @ 115 V AC
3,0 A @ 370 V DC / 13,5 A @ 80 V DC
yes
16 A / DI, safety fuse
25 A, Char. B, Circuit breaker
14...16 A, Char. C, Circuit breaker

Output data

Rated output voltage
Output voltage
Residual ripple, switching peaks
Rated output current @ V_{rated}
Continuous output current @ 24 V DC

24 V DC \pm 1 %
22,5...29,5 V DC (adjustable via potentiometer on front)
100 mV_{SS} @ 24 V DC, I_{load_nom}
20 A @ 60 °C
24 A @ 45 °C
22 A @ 55 °C
15 A @ 70 °C
24 A for 2 min, ED=5 %

24 V DC \pm 1 %
22,5...29,5 V DC (adjustable via potentiometer on front)
100 mV_{SS} @ 24 V DC, I_{load_nom}
40 A @ 60 °C
48 A @ 45 °C
44 A @ 55 °C
30 A @ 70 °C
48 A for 2 min, ED=5 %

Power boost @ 24 V DC, 60 °C

General data

Efficiency
Power factor (approx.)
Mains buffering @ I_{rated}
Parallel connection option
Length x Width x Height mm
Weight

> 90 % @ 230 V AC / > 85 % @ 115 V AC
> 0,98 @ 230 V AC / > 0,98 @ 115 V AC
> 40 ms @ 230 V AC / > 20 ms @ 100 V AC
yes
150 x 115 x 130
1,5 kg

> 90 % @ 230 V AC / > 85 % @ 115 V AC
> 0,98 @ 230 V AC / > 0,98 @ 115 V AC
> 40 ms @ 230 V AC / > 20 ms @ 100 V AC
yes
125 x 140 x 130
3,0 kg

Approvals

In preparation

CE, cURus, UL508, CSA22.2 no.107, gL, GOST

CE, cURus, UL508, CSA22.2 no.107, gL, GOST

Connection data

Type of connection
Number of terminals
Conductor cross-section, rigid min/max mm²
Conductor cross-section, flexible min/max mm²
Conductor cross-section, AWG/kcmil min/max

Input	Output
Screw connection	Screw connection
3 for L/N/PE	5 (+/-/-)
0,5 / 6	0,5 / 6
0,5 / 2,5	0,5 / 2,5
26 / 10	26 / 10

Input	Output
Screw connection	Screw connection
3 for L/N/PE	5 (+/-/-)
0,5 / 6	0,5 / 16
0,5 / 2,5	2,5 / 10
26 / 10	26 / 6

Information

*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

Ordering data

Type	Qty.	Order No.
CP M SNT 500W 24V 20A	1	8951370000

Type	Qty.	Order No.
CP M SNT 1000W 24V 40A	1	8951380000

Type	Qty.	Order No.
CP M SNT 1000W 24V 40A	1	8951380000

Accessories

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
------	------	-----------

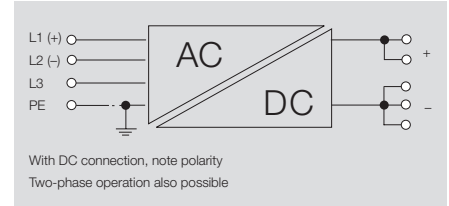
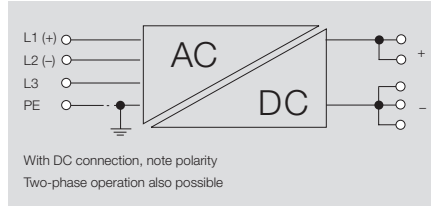
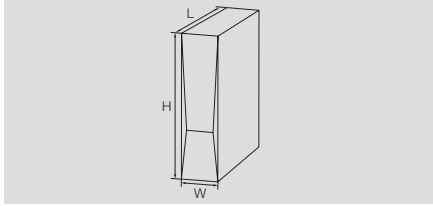
Type	Qty.	Order No.
------	------	-----------

connectPower
PRO-M

CP M SNT3 120W 24V 5A

CP M SNT3 250W 24V 10A

Preliminary product data!



Technical data

Input data

Rated input voltage
AC input voltage range
AC frequency range
DC input voltage range
AC current consumption
DC current consumption
Input fuse (internal)
Recommended backup fuse *)

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
47...63 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
0,25 A @ 3 x 500 V AC / 0,3 A @ 3 x 400 V AC
0,2 A @ 800 V DC / 0,4 A @ 450 V DC
no
2 A / DI, safety fuse
1...2 A, Char. C, Circuit breaker

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
47...63 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
0,5 A @ 3 x 500 V AC / 0,6 A @ 3 x 400 V AC
0,4 A @ 800 V DC / 0,7 A @ 450 V DC
no
2 A / DI, safety fuse
2...3 A, Char. C, Circuit breaker

Output data

Rated output voltage
Output voltage
Residual ripple, switching peaks
Rated output current @ V_{rated}
Continuous output current @ 24 V DC

24 V DC \pm 1 %
22,5...29,5 V DC (adjustable via potentiometer on front)
100 mV_{SS} @ 24 V DC, I_{load}
5 A @ 60 °C
6,0 A @ 45 °C
5,5 A @ 55 °C
3,7 A @ 70 °C
6 A for 2 min, ED=5 %

24 V DC \pm 1 %
22,5...29,5 V DC (adjustable via potentiometer on front)
100 mV_{SS} @ 24 V DC, I_{load}
10 A @ 60 °C
12 A @ 45 °C
11 A @ 55 °C
7,5 A @ 70 °C
12 A for 2 min, ED=5 %

Power boost @ 24 V DC, 60 °C

General data

Efficiency
Power factor (approx.)
Mains buffering @ I_{rated}
Parallel connection option
Length x Width x Height
Weight

90 % @ 3 x 500 V AC / > 90 % @ 3 x 400 V AC
> 0,75 @ 3 x 500 V AC / > 0,78 @ 3 x 400 V AC
> 25 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
yes
125 x 40 x 130
0,55 kg

90 % @ 3 x 500 V AC / > 90 % @ 3 x 400 V AC
> 0,75 @ 3 x 500 V AC / > 0,78 @ 3 x 400 V AC
> 25 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
yes
150 x 60 x 130
0,9 kg

Approvals

In preparation

CE, cURus, UL508, CSA22.2 no.107, gL, GOST

CE, cURus, UL508, CSA22.2 no.107, gL, GOST

Connection data

Type of connection
Number of terminals
Conductor cross-section, rigid min/max
Conductor cross-section, flexible min/max
Conductor cross-section, AWG/kcmil min/max

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	5 (+/-/-)
0,5 / 6	0,5 / 6
0,5 / 2,5	0,5 / 2,5
26 / 12	26 / 12

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	5 (+/-/-)
0,5 / 6	0,5 / 6
0,5 / 2,5	0,5 / 2,5
26 / 12	26 / 12

Information

*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

Ordering data

Type	Qty.	Order No.
CP M SNT3 120W 24V 5A	1	8951390000

Type	Qty.	Order No.
CP M SNT3 250W 24V 10A	1	8951400000

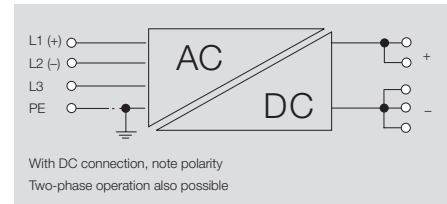
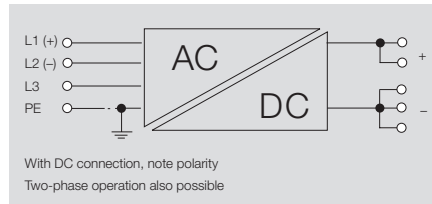
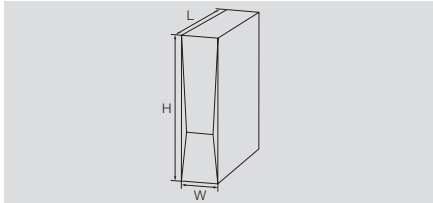
Accessories

connectPower
PRO-M

CP M SNT3 500W 24V 20A

CP M SNT3 1000W 24V 40A

Preliminary product data!



Technical data

Input data

Rated input voltage
AC input voltage range
AC frequency range
DC input voltage range
AC current consumption
DC current consumption
Input fuse (internal)
Recommended backup fuse *)

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
47...63 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
0,9 A @ 3 x 500 V AC / 1,1 A @ 3 x 400 V AC
0,7 A @ 800 V DC / 1,3 A @ 450 V DC
no
2 A / DI, safety fuse
3...5 A, Char. C, Circuit breaker

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
47...63 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
1,8 A @ 3 x 500 V AC / 2,1 A @ 3 x 400 V AC
1,4 A @ 800 V DC / 2,5 A @ 450 V DC
no
4 A / DI, safety fuse
10 A, Char. B, Circuit breaker
6...8 A, Char. C, Circuit breaker

Output data

Rated output voltage
Output voltage
Residual ripple, switching peaks
Rated output current @ V_{rated}
Continuous output current @ 24 V DC

24 V DC \pm 1 %
22,5...29,5 V DC (adjustable via potentiometer on front)
100 mV_{SS} @ 24 V DC, $I_{load, nom}$
20 A @ 60 °C
24 A @ 45 °C
22 A @ 55 °C
15 A @ 70 °C
24 A for 2 min, ED=5 %

24 V DC \pm 1 %
22,5...29,5 V DC (adjustable via potentiometer on front)
100 mV_{SS} @ 24 V DC, $I_{load, nom}$
40 A @ 60 °C
48 A @ 45 °C
44 A @ 55 °C
30 A @ 70 °C
48 A for 2 min, ED=5 %

Power boost @ 24 V DC, 60 °C

General data

Efficiency
Power factor (approx.)
Mains buffering @ I_{rated}
Parallel connection option
Length x Width x Height
Weight

> 90 % @ 3 x 500 V AC / > 91 % @ 3 x 400 V AC
> 0,75 @ 3 x 500 V AC / > 0,78 @ 3 x 400 V AC
> 25 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
yes
150 x 115 x 130
1,5 kg

> 90 % @ 3 x 500 V AC / 92 % @ 3 x 400 V AC
> 0,75 @ 3 x 500 V AC / > 0,78 @ 3 x 400 V AC
> 25 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
yes
150 x 140 x 130
2,9 kg

Approvals

In preparation

CE, cURus, UL508, CSA22.2 no.107, gL, GOST

CE, cURus, UL508, CSA22.2 no.107, gL, GOST

Connection data

Type of connection
Number of terminals
Conductor cross-section, rigid min/max
Conductor cross-section, flexible min/max
Conductor cross-section, AWG/kcmil min/max

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	5 (+/-/-)
0,5 / 6	0,5 / 6
0,5 / 2,5	0,5 / 2,5
26 / 10	26 / 10

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	5 (+/-/-)
0,5 / 6	0,5 / 16
0,5 / 2,5	0,5 / 10
26 / 10	26 / 6

Information

*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

*) Recommendation applies only for AC operation; the max. permissible operating voltage is to be observed in all cases!

Ordering data

Type	Qty.	Order No.
CP M SNT3 500W 24V 20A	1	8951410000

Type	Qty.	Order No.
CP M SNT3 1000W 24V 40A	1	8951420000

Accessories

