

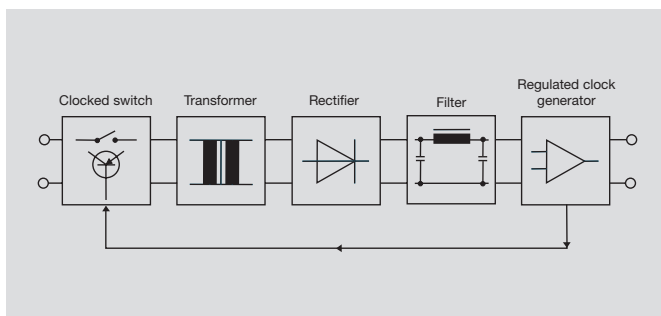
## Switch-mode power supplies



### Primary switch-mode power supplies connectPower

Thanks to the wide range of inputs (85 V AC to 265 V AC), the connectPower range of switch-mode power supplies is suitable for a wide variety of applications. The devices are interference-suppressed (in accordance with DIN EN 55022 Class B) and fulfil safety extra-low voltage (SELV) requirements.

Equipped with an electronic short-circuit feedback control on the output side, the primary switch-mode power supplies are rated between 12 W and 1000 W. The power supplies are suitable for both industrial and building automation.



### Method of operation

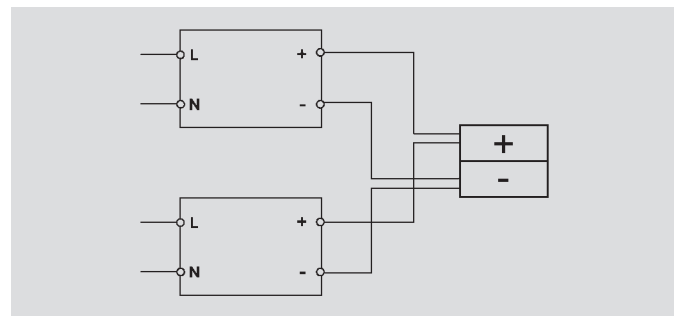
Primary switch-mode power supplies are distinguished by a high degree of efficiency and also by their compact dimensions and moderate generation of heat. The mains voltage is rectified directly. The rectified voltage is then chopped with a higher frequency than that of the mains frequency. A transformer – which can be quite small due to the high switching frequency – converts the voltage with the switching frequency to the required value.

The voltage is now rectified and smoothed by a filter. This regulator control itself is carried out by means of pulse-width modulation. The on and off times of the chopper transformers are regulated to ensure that the output voltage remains stable.

### Power distribution and redundancy

To increase performance, or for redundancy purposes, switch-mode power supplies from Weidmüller can be connected in parallel. Two techniques are available: an active and a passive power distribution. Active power distribution requires more complex switching. The advantage is the exact power distribution and uniform device loading.

Requiring less sophisticated switching, passive power distribution results in lower costs, but also in a load-dependent characteristic curve and less exact power distribution. Before connecting in parallel, the output voltages of the devices must be adjusted exactly ( $\pm 100 - 200$  mV).

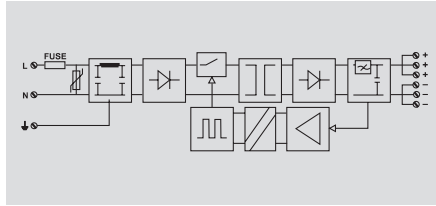
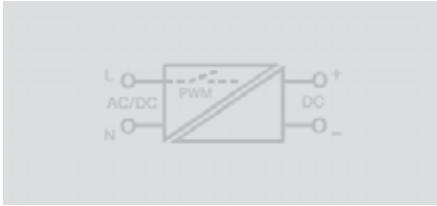
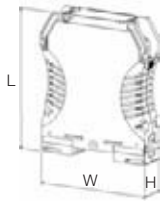


### Power factor correction (PFC)

Power factor correction ensures that the mains current drawn is sinusoidal. One positive side-effect is the regulation of the power factor to approx. 1.

connectPower single phase  
WAVEPOWER

CP SNT 12 W 24 V 0.5 A



Technical data

Input

Input voltage  
Input current  
Input frequency  
Input fuse  
Surge protection

85...265 V AC, 120...300 V DC  
260 mA @ 115 V AC; 180 mA @ 230 V AC  
50/ 60 Hz  
2 A slow-blow fuse (internal)  
Varistor

Output

Output voltage  
Output current  
max. output power  
max. residual ripple  
Overload protection  
Surge protection  
Mains failure bridge-over time  
Control at 10...100% load  
Parallel connection option

24 V DC  
0.5 A  
12 W  
0.1 %  
Surge / thermal cut-out  
Varistor  
30 ms @ 115 V AC / 80 ms @ 230 V AC  
0.6 %  
no

Insulation coordination

Electrical isolation, output-earth  
Electrical isolation, input-earth  
Electrical isolation, input-output  
Electrical isolation, I/O rail

500 V RMS  
1.5 kV RMS  
3 kV RMS  
4 kV RMS

General data

Operating temperature  
Storage temperature  
Degree of efficiency at max. load  
Status indication  
Standards  
EMC standards  
Power factor correction  
Approvals

-20 °C...+50 °C  
-40 °C...+85 °C  
80 %  
green LED  
EN 50178, EN 60950, IEC950  
IEC 61000-6 /-2, -3  
no  
CSA;UL;CE;

Clamping range (rating- / min. / max.) mm<sup>2</sup>  
Length x width x height mm

Screw connection

2.5 / 0.5 / 2.5  
112.4 x 22.5 x 92.4

Note

Ordering data

Type	Qty.	Order No.
CP SNT 12W 24V 0.5A	1	9918840024

Note

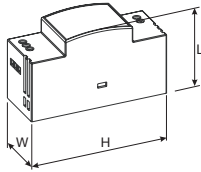
Accessories

Note

Supply voltage +24V and 0V can be cross-connected with ZQV 2.5N/2

Switch-mode power supplies

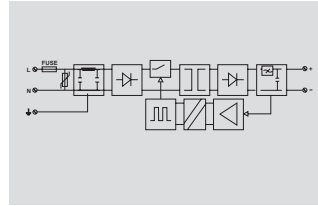
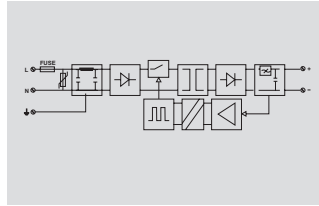
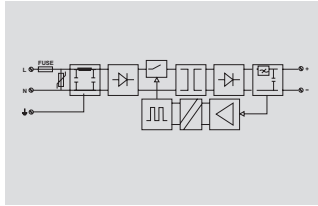
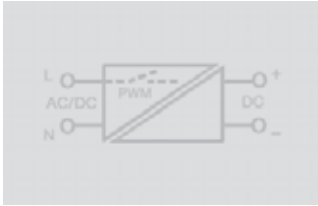
connectPower single phase INSTAPOWER



CP SNT 24 W 28 V 1 A

CP SNT 24 W 24 V 1 A

CP SNT 24 W 15 V 1.5 A



E

Technical data

Input

Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor

Output

Output voltage	28 V DC
Output current	1 A
max. output power	28 W
max. residual ripple	< 2 %
Overload protection	Surge / thermal cut-out
Surge protection	Varistor
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF

Insulation coordination

Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS

General data

Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3

Clamping range (rating- / min. / max.)	mm <sup>2</sup>
Length x width x height	mm

Note

Screw connection

4 / 0.08 / 4
62.5 x 52 x 90.5
Derating: 33% @ 60°C

Ordering data

Type	(Qty.=1)	Order No.
CP SNT 24W 28V 1A		9928890028

Note

Accessories

Note

Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor

Output voltage	24 V DC
Output current	1 A
max. output power	24 W
max. residual ripple	< 2 %
Overload protection	Surge / thermal cut-out
Surge protection	Varistor
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF

Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS

Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3

Screw connection

4 / 0.08 / 4
62.5 x 52 x 90.5
Derating: 33% @ 60°C

Type	(Qty.=1)	Order No.
CP SNT 24W 24V 1A		9928890024

Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor

Output voltage	15 V DC
Output current	1.5 A
max. output power	23 W
max. residual ripple	< 2 %
Overload protection	Surge / thermal cut-out
Surge protection	Varistor
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF

Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS

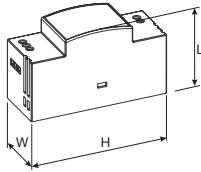
Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3

Screw connection

4 / 0.08 / 4
62.5 x 52 x 90.5
Derating: 33% @ 60°C

Type	(Qty.=1)	Order No.
CP SNT 24W 15V 1.5A		9928890015

connectPower single phase INSTAPOWERR



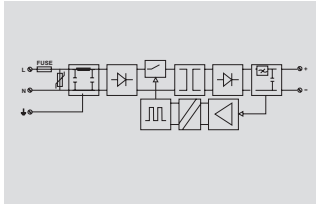
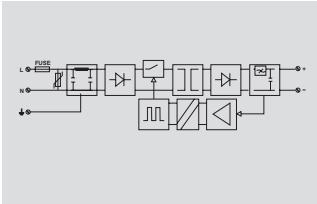
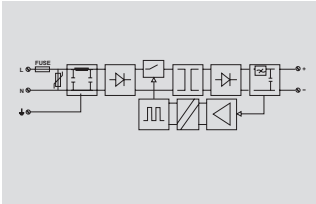
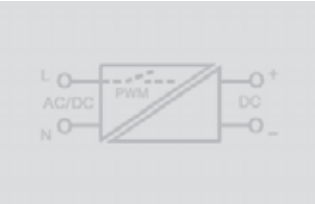
CP SNT 24 W 12 V 1.5 A



CP SNT 24 W 5 V 2 A



CP SNT 25 W 5 V 5 A



Technical data

<b>Input</b>	
Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	12 V DC
Output current	1.5 A
max. output power	18 W
max. residual ripple	< 2 %
Overload protection	Surge / thermal cut-out
Surge protection	
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS
<b>General data</b>	
Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3
Clamping range (rating- / min. / max.) mm <sup>2</sup>	
Length x width x height mm	
<b>Note</b>	

<b>Input</b>	
Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	12 V DC
Output current	1.5 A
max. output power	18 W
max. residual ripple	< 2 %
Overload protection	Surge / thermal cut-out
Surge protection	
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS
<b>General data</b>	
Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3
<b>Screw connection</b>	
4 / 0.08 / 4	
62.5 x 52 x 90.5	
Derating: 33% @ 60°C	

<b>Input</b>	
Input voltage	85...265 V AC, 120...300 V DC
Input current	460 mA @ 115 V AC; 250 mA @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	Thermistor
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	5 V DC
Output current	2 A
max. output power	10 W
max. residual ripple	< 2 %
Overload protection	Surge / thermal cut-out
Surge protection	
Mains failure bridge-over time	35 ms @ 115 V AC / 160 ms @ 230 V AC
Control at 10...100% load	0.5 %
max. capacitance at output	8000 µF
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS
<b>General data</b>	
Operating temperature	-20 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 50178, EN 60950, IEC950
Approvals	CSA / CE / cULus
EMC standards	EN 61000-6 /-2, -3
<b>Screw connection</b>	
4 / 0.08 / 4	
62.5 x 52 x 90.5	
Derating: 33% @ 60°C	

<b>Input</b>	
Input voltage	85...264 V AC / 110...370 V DC
Input current	500 mA for rated load @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	yes
Input fuse	Fusible link 2.5 A (T) / 250 V
Surge protection	
<b>Output</b>	
Output voltage	4...8 V DC (adjustable with potentiometer)
Output current	5 A
max. output power	25 W
max. residual ripple	120 mV <sub>SS</sub>
Overload protection	105%...150% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	
Mains failure bridge-over time	11 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
max. capacitance at output	8000 µF
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS
<b>General data</b>	
Operating temperature	-10 °C...+70 °C (derating from 55 °C)
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	70 %
Standards	EN 60950 (SELV);EN 50178 (PELV)
Approvals	CE / UL 508 / cURus 60950 / GS
EMC standards	EN 55011 / EN 55022 / DIN EN 61000-3-2/-3EN 61000-6-1, 2, 3, 4
<b>Screw connection</b>	
2.5 / 0.5 / 4	
62.5 x 70 x 90.5	
Derating: 33% @ 60°C	

Ordering data

Type	(Qty.=1)	Order No.
CP SNT 24W 12V 1.5A		9928890012

Type	(Qty.=1)	Order No.
CP SNT 24W 5V 2A		9928890005

Type	(Qty.=1)	Order No.
CP SNT 25W 5V 5A		8754960000

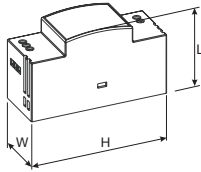
Note

Accessories

Note

**Switch-mode power supplies**

**connectPower single phase INSTAPOWERR**



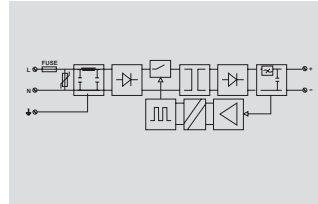
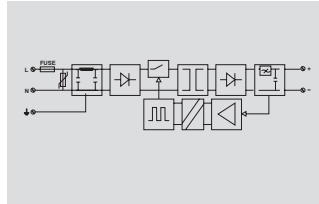
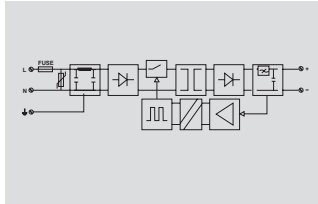
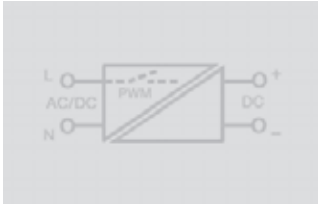
**CP SNT 48 W 12 V 4 A**



**CP SNT 48 W 24 V 2 A**



**CP SNT 48 W 48 V 1 A**



**E**

**Technical data**

**Input**

Input voltage	85...264 V AC / 110...370 V DC
Input current	500 mA for rated load @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	yes
Input fuse	Fusible link 2.5 A (T) / 250 V
Surge protection	

**Output**

Output voltage	9...15 V DC (adjustable with potentiometer)
Output current	4 A
max. output power	48 W
max. residual ripple	120 mV <sub>SS</sub>
Overload protection	105%...150% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	Varistor
Mains failure bridge-over time	11 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
max. capacitance at output	8000 µF

**Insulation coordination**

Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS

**General data**

Operating temperature	-10 °C...+70 °C (derating from 55 °C)
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	75 %
Standards	EN 60950 (SELV);EN 50178 (PELV)
Approvals	CE / UL 508 / cURus 60950 / GS
EMC standards	EN 55011 / EN 55022 / DIN EN 61000-3-2/-3EN 61000-6-1, 2, 3, 4

Clamping range (rating- / min. / max.)	mm <sup>2</sup> 2.5 / 0.5 / 4
Length x width x height	mm 62.5 x 70 x 90.5

**Note**

**Ordering data**

Type	(Qty.=1)	Order No.
CP SNT 48W 12V 4A		8754970000

**Note**

**Accessories**

**Note**

Input voltage	85...264 V AC / 110...370 V DC
Input current	500 mA for rated load @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	yes
Input fuse	Fusible link 2.5 A (T) / 250 V
Surge protection	

Output voltage	15...28 V DC (can be adjusted with potentiometer)
Output current	2 A
max. output power	48 W
max. residual ripple	120 mV <sub>SS</sub>
Overload protection	105%...150% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	Varistor
Mains failure bridge-over time	11 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
max. capacitance at output	8000 µF

Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS

Operating temperature	-10 °C...+70 °C (derating from 55 °C)
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	78 %
Standards	EN 60950 (SELV);EN 50178 (PELV)
Approvals	CE / UL 508 / cURus 60950 / GS
EMC standards	EN 55011 / EN 55022 / DIN EN 61000-3-2/-3EN 61000-6-1, 2, 3, 4

Clamping range (rating- / min. / max.)	mm <sup>2</sup> 2.5 / 0.5 / 4
Length x width x height	mm 62.5 x 70 x 90.5

**Screw connection**

Type	(Qty.=1)	Order No.
CP SNT 48W 24V 2A		8739140000

**Note**

Input voltage	85...264 V AC / 110...370 V DC
Input current	500 mA for rated load @ 230 V AC
Input frequency	50/ 60 Hz
Making current limit	yes
Input fuse	Fusible link 2.5 A (T) / 250 V
Surge protection	

Output voltage	46...55 V DC (adjustable with potentiometer)
Output current	1 A
max. output power	48 W
max. residual ripple	120 mV <sub>SS</sub>
Overload protection	105%...150% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	Varistor
Mains failure bridge-over time	11 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
max. capacitance at output	8000 µF

Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	4 kV RMS

Operating temperature	-10 °C...+70 °C (derating from 55 °C)
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	50 %
Standards	EN 60950 (SELV);EN 50178 (PELV)
Approvals	CE / UL 508 / cURus 60950 / GS
EMC standards	EN 55011 / EN 55022 / DIN EN 61000-3-2/-3EN 61000-6-1, 2, 3, 4

Clamping range (rating- / min. / max.)	mm <sup>2</sup> 2.5 / 0.5 / 4
Length x width x height	mm 62.5 x 70 x 90.5

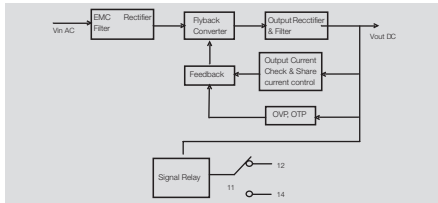
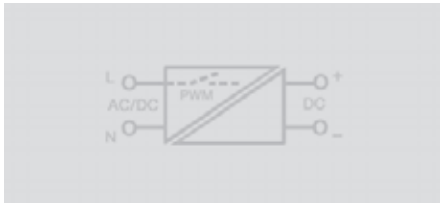
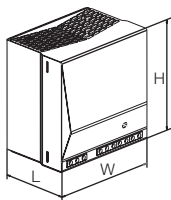
**Screw connection**

Type	(Qty.=1)	Order No.
CP SNT 48W 48V 1A		8879230000

**Note**

connectPower single phase  
ECOLINE

CP SNT 70 W 24 V 3 A



Technical data

<b>Input</b>	
Input voltage	85...264 V AC / 110...370 V DC
Input current	2 A @ 100...240 V AC
Input frequency	50/ 60 Hz
Input fuse	Fusible link 2.5 A (T) / 250 V
Surge protection	Varistor
<b>Output</b>	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	3 A
max. output power	72 W
max. residual ripple	< 100 mV <sub>ss</sub> / bandwidth 20 MHz
Overload protection	105%...130% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	29...34 V
Mains failure bridge-over time	10 ms @ 115 V AC / 20 ms @ 230 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
<b>Insulation coordination</b>	
Electrical isolation, output-earth	0.5 kV AC
Electrical isolation, input-earth	1.5 kV AC
Electrical isolation, input-output	3 kV AC
<b>General data</b>	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	80 %
Status indication	green LED
Standards	EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	0.55 kg
Approvals	CE / cULus 508 / cULus 60950

Clamping range (rating- / min. / max.)	mm <sup>2</sup>
Length x width x height	mm

**Note**

Ordering data

<b>Note</b>	
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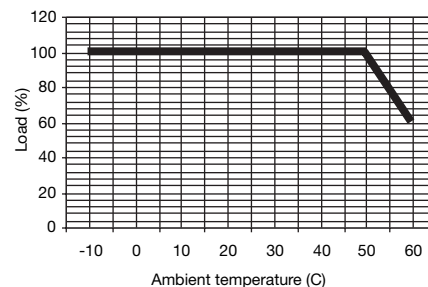
Accessories

<b>Note</b>	
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<b>Screw connection</b>		
	2.5 / 0.13 / 4	
	110 x 55.5 x 125	
For redundant operation or for maintaining fault signalling function - operate with diode module only.		
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
CP SNT 70W 24V 3A	1	8708660000

Derating curve

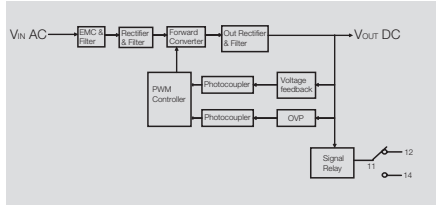
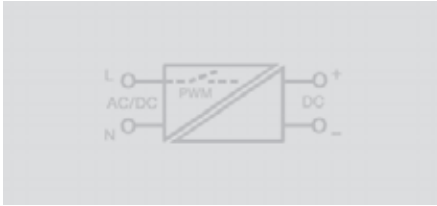
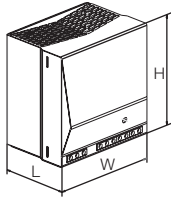
Output load/ambient temperature



Switch-mode power supplies

connectPower single phase  
ECOLINE

CP SNT 120 W 24 V 5 A



E

Technical data

<b>Input</b>	
Input voltage	88...132 V AC/176...264 V AC selectable; 250...370 V DC
Input current	3 A @ 115 V AC / 2 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	Fusible link 4 A (T) / 250 V
Surge protection	Varistor
<b>Output</b>	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	5 A
max. output power	120 W
max. residual ripple	< 100 mV <sub>SS</sub> / bandwidth 20 MHz
Overload protection	105%...130% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	29...34 V
Mains failure bridge-over time	20 ms @ 115 V AC / 20 ms @ 230 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
<b>Insulation coordination</b>	
Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC
<b>General data</b>	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	84 %
Status indication	green LED
Standards	EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	0,65 kg
Approvals	CE / cULus 508 / cULus 60950

Clamping range (rating- / min. / max.)	mm <sup>2</sup>
Length x width x height	mm

**Note**

Ordering data

<b>Note</b>	
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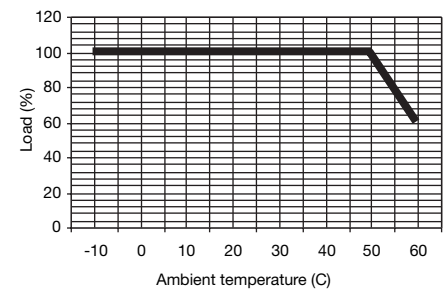
Accessories

<b>Note</b>	
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<b>Screw connection</b>		
	2,5 / 0,13 / 4	
	110 x 65,5 x 125	
For redundant operation or for maintaining fault signalling function - operate with diode module only.		
<b>Type</b>	<b>Qty.</b>	<b>Order No.</b>
CP SNT 120W 24V 5A	1	8708670000

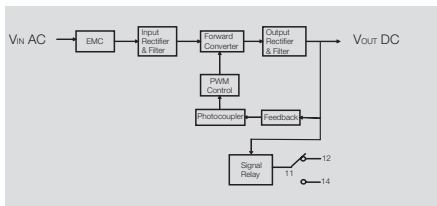
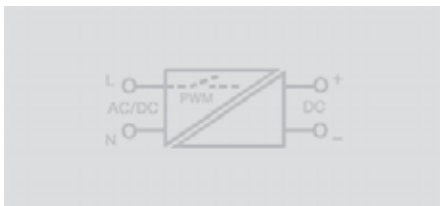
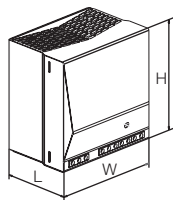
Derating curve

Output load/ambient temperature



connectPower single phase  
ECOLINE

CP SNT 250 W 24 V 10 A



Technical data

<b>Input</b>	
Input voltage	88...132 V AC/176...264 V AC selectable; 250...370 V DC
Input current	3.6 A @ 115 V AC / 2 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	Fusible link 5 A (T) / 250 V
Surge protection	Varistor
<b>Output</b>	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	0.1...10 A
max. output power	240 W
max. residual ripple	< 100 mV <sub>SS</sub> / bandwidth 20 MHz
Overload protection	105%...130% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	30...36 V
Mains failure bridge-over time	10 ms @ 115 V AC / 15 ms @ 230 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
<b>Insulation coordination</b>	
Electrical isolation, output-earth	0.5 kV AC
Electrical isolation, input-earth	1.5 kV AC
Electrical isolation, input-output	3 kV AC
<b>General data</b>	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	84 % @ 230 V AC
Status indication	green LED
Standards	EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	1.6 kg
Approvals	CE / cULus 508 / cULus 60950

Clamping range (rating- / min. / max.)	mm <sup>2</sup>	4 / 0.13 / 6
Length x width x height	mm	110 x 125.5 x 125

**Note**

Ordering data

<b>Note</b>	
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Accessories

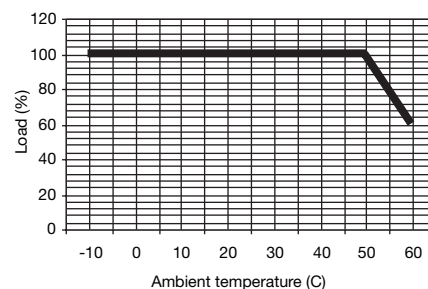
<b>Note</b>	
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<b>Screw connection</b>		
Type	Qty.	Order No.
CP SNT 250W 24V 10A	1	8708680000

For redundant operation or for maintaining fault signalling function - operate with diode module only.

Derating curve

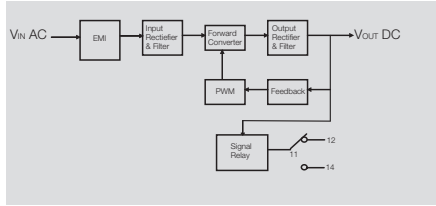
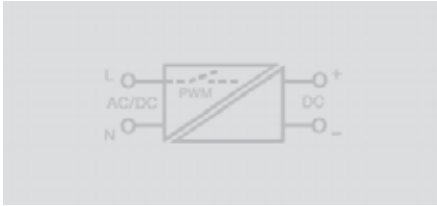
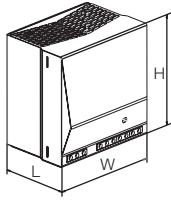
Output load/ambient temperature



Switch-mode power supplies

connectPower single phase  
ECOLINE

CP SNT 500 W 24 V 20 A



E

Technical data

Input

Input voltage  
Input current  
Input frequency  
Input fuse  
Surge protection

88...132 V AC/176...264 V AC selectable; 250...370 V DC  
9 A @ 115 V AC / 6 A @ 230 V AC  
50/ 60 Hz  
Fusible link 10 A (T) / 250 V  
Varistor

Output

Output voltage  
Output current  
max. output power  
max. residual ripple  
Overload protection  
Surge protection  
Mains failure bridge-over time  
Control at 10...100% load  
Parallel connection option  
Status relay / Change-over contact

24...28 V DC (adjustable via potentiometer)  
2...20 A @ 200...240 V AC; 2...16 A @ 100...120 V AC  
480 W  
< 100 mV<sub>SS</sub> / bandwidth 20 MHz  
105%...130% I<sub>konst.</sub> of max. output power, automatic restart  
30...36 V  
10 ms @ 115 V AC / 15 ms @ 230 V AC  
< 2 %  
recommended with diode module  
250 V AC (max. 30 V DC) / 1 A

Insulation coordination

Electrical isolation, output-earth  
Electrical isolation, input-earth  
Electrical isolation, input-output

0,5 kV AC  
1,5 kV AC  
3 kV AC

General data

Operating temperature  
Storage temperature  
Degree of efficiency at max. load  
Status indication  
Standards  
EMC standards  
Mounting position horizontal  
Installation advice  
Weight  
Approvals

-10 °C...+55 °C  
-20 °C...+85 °C  
86 %  
green LED  
EN 60950 (SELV)  
EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3  
on mounting rail TS 35  
Clearance: above/below ≥ 3 cm  
2 kg  
CE / cULus 508 / cULus 60950

Clamping range (rating- / min. / max.) mm<sup>2</sup>  
Length x width x height mm

Screw connection

4 / 0.13 / 6  
110 x 227.5 x 125

Note

For redundant operation or for maintaining fault signalling function - operate with diode module only.

Ordering data

Type	Qty.	Order No.
CP SNT 500W 24V 20A	1	8778870000

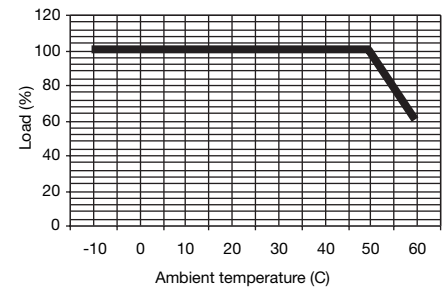
Note

Accessories

Note

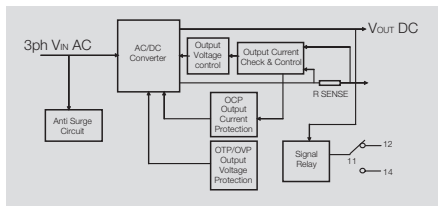
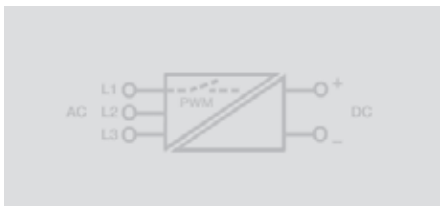
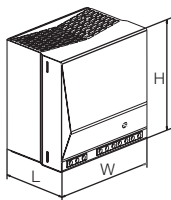
Derating curve

Output load/ambient temperature



connectPower 3-phase  
ECOLINE

CP SNT3 250 W 24 V 10 A



Technical data

<b>Input</b>	
Input voltage	3x400 V AC / 340...575 V AC
Input current	0.95 A @ 400 V AC
Input frequency	47...63 Hz
Input fuse	external via 3 circuit breakers up to 2...3 A, char. C
Surge protection	Varistor
<b>Output</b>	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	10 A
max. output power	250 W
max. residual ripple	< 100 mV <sub>SS</sub> / bandwidth 20 MHz
Overload protection	105%...130% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	29...34 V
Mains failure bridge-over time	> 10 ms @ 400 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
<b>Insulation coordination</b>	
Electrical isolation, output-earth	0.5 kV AC
Electrical isolation, input-earth	1.5 kV AC
Electrical isolation, input-output	3 kV AC
<b>General data</b>	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	88 % @ 400 V AC
Status indication	green LED
Standards	EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	1.5 kg
Approvals	CE / cULus 508 / cURus 60950

Clamping range (rating- / min. / max.)	mm <sup>2</sup>	4 / 0.13 / 6
Length x width x height	mm	110 x 125.5 x 125

**Note**

Ordering data

Type	Qty.	Order No.
CP SNT3 250W 24V 10A	1	8708700000

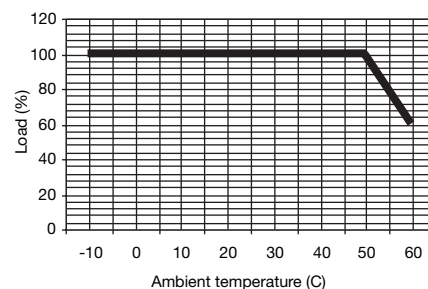
**Note**

Accessories

**Note**

Derating curve

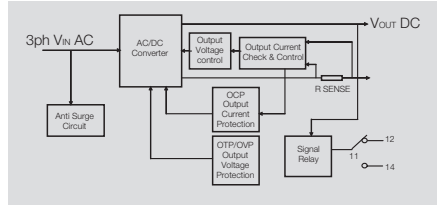
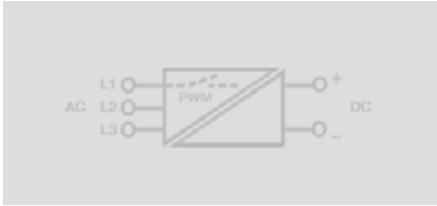
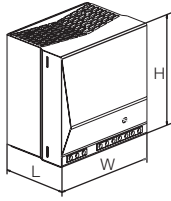
Output load/ambient temperature



Switch-mode power supplies

connectPower 3-phase  
ECOLINE

CP SNT3 500 W 24 V 20 A



E

Technical data

Input

Input voltage	3x400 V AC / 340...575 V AC
Input current	1.7 A @ 400 V AC
Input frequency	47...63 Hz
Input fuse	external via 3 circuit breakers up to 3...6 A, char. C
Surge protection	Varistor

Output

Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	20 A
max. output power	480 W
max. residual ripple	< 100 mV <sub>SS</sub> / bandwidth 20 MHz
Overload protection	105%...130% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	30...34 V
Mains failure bridge-over time	> 10 ms @ 400 V AC
Control at 10...100% load	< 2 %
Parallel connection option	recommended with diode module
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A

Insulation coordination

Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC

General data

Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	88 %
Status indication	green LED
Standards	EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	3 kg
Approvals	CE / cULus 508 / cURus 60950

Clamping range (rating- / min. / max.)	mm <sup>2</sup>
Length x width x height	mm

Note

Screw connection

	4 / 0.13 / 6
	110 x 227.5 x 125

For redundancy or correct function of the signal relays use a diode modul

Ordering data

Type	Qty.	Order No.
CP SNT3 500W 24V 20A	1	8708710000

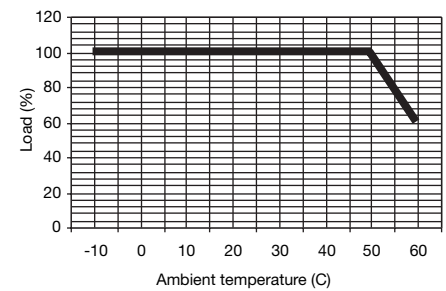
Note

Accessories

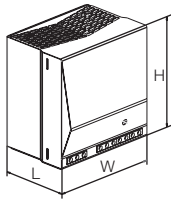
Note

Derating curve

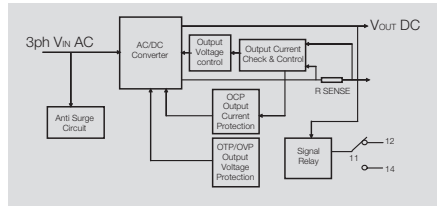
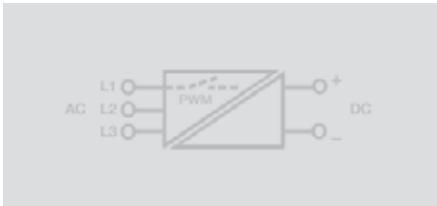
Output load/ambient temperature



connectPower 3-phase  
ECOLINE



CP SNT3 1000 W 24 V 40 A



Technical data

<b>Input</b>	3x400 V AC / 340...575 V AC (450...800 V DC)
Input voltage	3.4 A @ 400 V AC
Input current	47...63 Hz
Input frequency	External via 3 circuit-breakers up to 6...16 A, char. C
Input fuse	Varistor
Surge protection	
<b>Output</b>	
Output voltage	24...28 V DC (adjustable via potentiometer)
Output current	40 A
max. output power	960 W
max. residual ripple	< 100 mV <sub>SS</sub> / bandwidth 20 MHz
Overload protection	105%...130% I <sub>konst</sub> of max. output power, automatic restart
Surge protection	29...34 V
Mains failure bridge-over time	> 10 ms @ 400 V AC
Control at 10...100% load	< 2 %
Parallel connection option	direct for same type
Status relay / Change-over contact	250 V AC (max. 30 V DC) / 1 A
<b>Insulation coordination</b>	
Electrical isolation, output-earth	0,5 kV AC
Electrical isolation, input-earth	1,5 kV AC
Electrical isolation, input-output	3 kV AC
<b>General data</b>	
Operating temperature	-10 °C...+55 °C
Storage temperature	-20 °C...+85 °C
Degree of efficiency at max. load	88 %
Status indication	green LED
Standards	EN 60950 (SELV)
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Mounting position horizontal	on mounting rail TS 35
Installation advice	Clearance: above/below ≥ 3 cm
Weight	3,5 kg
Approvals	CE / cULus 508 / cURus 60950

Clamping range Input (rating-/min./max)	mm <sup>2</sup>	4 / 0.1 / 6
Clamping range Output (rating-/ min./max)	mm <sup>2</sup>	10 / 0.3 / 16
Length x width x height	mm	125 x 280 x 150

**Note** Clamping range identical for input and signalling contact

Ordering data

Type	Qty.	Order No.
CP SNT3 1000W 24V 40A	1	8708730000

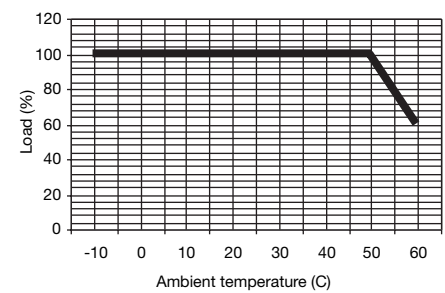
**Note**

Accessories

**Note**

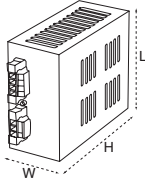
Derating curve

Output load/ambient temperature



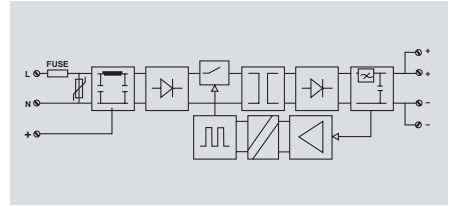
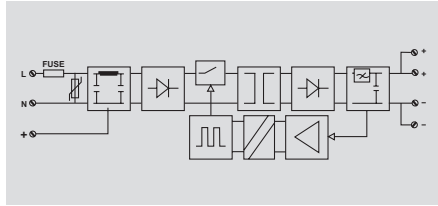
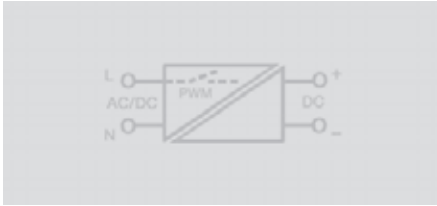
Switch-mode power supplies

connectPower single phase



CP SNT 55 W 48 V 1.04 A

CP SNT 55 W 24-28 V 2.3 A



E

Technical data

Input

Input voltage  
Input current  
Input frequency  
Input fuse  
Surge protection

Output

Output voltage  
Output current  
max. output power  
max. residual ripple  
Overload protection  
Surge protection  
Mains failure bridge-over time  
Control at 10...100% load  
Parallel connection option

Insulation coordination

Electrical isolation, output-earth  
Electrical isolation, input-earth  
Electrical isolation, input-output  
Electrical isolation, I/O rail

General data

Operating temperature/Storage temperature  
Degree of efficiency at max. load  
Status indication  
Standards  
EMC standards  
Power factor correction  
Approvals

85...265 V AC, 120...300 V DC  
1.1 A @ 115 V AC; 0.55 A @ 230 V AC  
50/ 60 Hz  
2 A slow-blow fuse (internal)  
Varistor

48 V DC  
1.04 A  
50 V  
< 50 mV RMS  
Surge / thermal cut-out  
Varistor  
30 ms @ 115 V AC / 180 ms @ 230 V AC  
1%  
no

500 V RMS  
1.5 kV RMS  
3 kV RMS  
3 kV RMS

-20 °C...+40 °C / -40 °C...+85 °C  
78 %  
green LED  
EN 50178, EN 60950, IEC950  
IEC 61000-6 /-2, -3  
no  
CSA;UL;UR;CE;

Screw connection

4 / 0.1 / 4  
131 x 57 x 98

Derating: 2.1A/ 24V @ 50°C; 1.5A/ 24V @ 60°C

85...265 V AC, 120...300 V DC  
1.1 A @ 115 V AC; 0.55 A @ 230 V AC  
50/ 60 Hz  
2 A slow-blow fuse (internal)  
Varistor

24...28 V DC  
2.3 A  
55 V  
< 50 mV RMS  
Surge / thermal cut-out  
Varistor  
30 ms @ 115 V AC / 180 ms @ 230 V AC  
1%  
no

500 V RMS  
1.5 kV RMS  
3 kV RMS  
3 kV RMS

-20 °C...+40 °C / -40 °C...+85 °C  
78 %  
green LED  
EN 50178, EN 60950, IEC950  
IEC 61000-6 /-2, -3  
no  
CSA;UL;UR;CE;

Screw connection

4 / 0.1 / 4  
131 x 57 x 98

Derating: 2.1A/ 24V @ 50°C; 1.5A/ 24V @ 60°C

Ordering data

Type	Qty.	Order No.
CP SNT 55W 48V 1.04A	1	9927480048

Type	Qty.	Order No.
CP SNT 55W 24-28V 2.3A	1	9927480024

Note

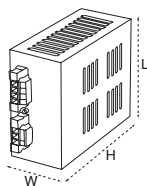
Accessories

Note

Bracket for wall mounting: 7920560000

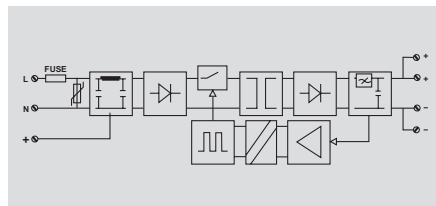
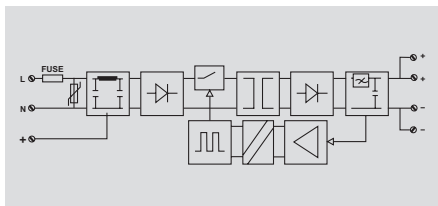
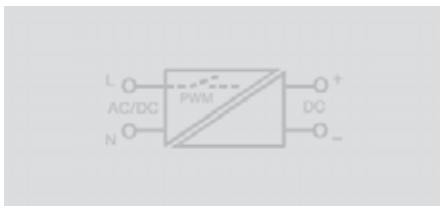
Bracket for wall mounting: 7920560000

connectPower single phase



CP SNT 55 W 12-15 V 3 A

CP SNT 55 W 5 V 3 A



Technical data

<b>Input</b>	
Input voltage	85...265 V AC, 120...300 V DC
Input current	1.1 A @ 115 V AC; 0.55 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	12...15 V DC
Output current	3 A
max. output power	36 V
max. residual ripple	< 50 mV RMS
Overload protection	Surge / thermal cut-out
Surge protection	Varistor
Mains failure bridge-over time	30 ms @ 115 V AC / 180 ms @ 230 V AC
Control at 10...100% load	1%
Parallel connection option	no
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS
<b>General data</b>	
Operating temperature/Storage temperature	-20 °C...+40 °C / -40 °C...+85 °C
Degree of efficiency at max. load	78 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	IEC 61000-6 /-2, -3
Power factor correction	no
Approvals	CSA;UL;UR;CE;
<b>Screw connection</b>	
Clamping range (rating- / min. / max.)	4 / 0.1 / 4 mm <sup>2</sup>
Length x width x height	131 x 57 x 98 mm
<b>Note</b>	
Derating: 2.1A/ 24V @ 50°C; 1.5A/ 24V @ 60°C	

<b>Input</b>	
Input voltage	85...265 V AC, 120...300 V DC
Input current	1.1 A @ 115 V AC; 0.55 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	5 V DC
Output current	3 A
max. output power	15 V
max. residual ripple	< 50 mV RMS
Overload protection	Surge / thermal cut-out
Surge protection	Varistor
Mains failure bridge-over time	30 ms @ 115 V AC / 180 ms @ 230 V AC
Control at 10...100% load	1%
Parallel connection option	no
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS
<b>General data</b>	
Operating temperature/Storage temperature	-20 °C...+40 °C / -40 °C...+85 °C
Degree of efficiency at max. load	78 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	IEC 61000-6 /-2, -3
Power factor correction	no
Approvals	CSA;UL;UR;CE;
<b>Screw connection</b>	
Clamping range (rating- / min. / max.)	4 / 0.1 / 4 mm <sup>2</sup>
Length x width x height	131 x 57 x 98 mm
<b>Note</b>	
Derating: 2.1A/ 24V @ 50°C; 1.5A/ 24V @ 60°C	

<b>Input</b>	
Input voltage	85...265 V AC, 120...300 V DC
Input current	1.1 A @ 115 V AC; 0.55 A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	2 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	5 V DC
Output current	3 A
max. output power	15 V
max. residual ripple	< 50 mV RMS
Overload protection	Surge / thermal cut-out
Surge protection	Varistor
Mains failure bridge-over time	30 ms @ 115 V AC / 180 ms @ 230 V AC
Control at 10...100% load	1%
Parallel connection option	no
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS
<b>General data</b>	
Operating temperature/Storage temperature	-20 °C...+40 °C / -40 °C...+85 °C
Degree of efficiency at max. load	78 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	IEC 61000-6 /-2, -3
Power factor correction	no
Approvals	CSA;UL;UR;CE;
<b>Screw connection</b>	
Clamping range (rating- / min. / max.)	4 / 0.1 / 4 mm <sup>2</sup>
Length x width x height	131 x 57 x 98 mm
<b>Note</b>	
Derating: 2.1A/ 24V @ 50°C; 1.5A/ 24V @ 60°C	

Ordering data

Type	Qty.	Order No.
CP SNT 55W 12-15V 3A	1	9927480012

Type	Qty.	Order No.
CP SNT 55W 5V 3A	1	9927480005

Note

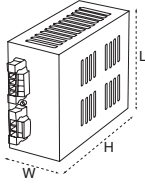
Accessories

Note	Bracket for wall mounting: 7920560000
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Note	Bracket for wall mounting: 7920560000
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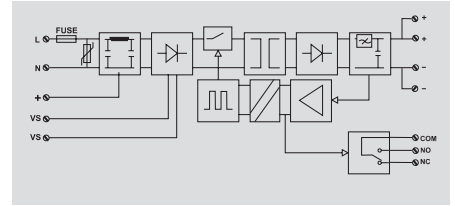
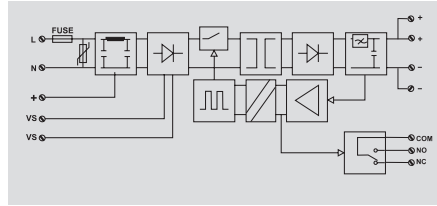
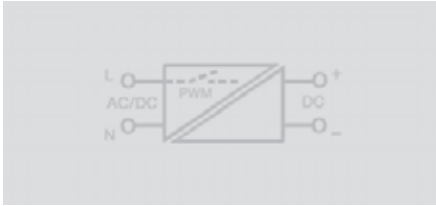
Switch-mode power supplies

connectPower single phase



CP SNT 160 W 48 V 3.5 A

CP SNT 160 W 24-28 V 6.5 A



E

Technical data

Input

Input voltage  
Input current  
Input frequency  
Input fuse  
Surge protection

Output

Output voltage  
Output current  
max. output power  
max. residual ripple  
Overload protection  
Surge protection  
Mains failure bridge-over time  
Control at 10...100% load  
Parallel connection option

Insulation coordination

Electrical isolation, output-earth  
Electrical isolation, input-earth  
Electrical isolation, input-output  
Electrical isolation, I/O rail

General data

Operating temperature/Storage temperature  
Degree of efficiency at max. load  
Status indication  
Standards  
EMC standards  
Power factor correction  
Approvals

min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC  
2.9 A @ 115 V AC; 1.45A @ 230 V AC  
50/ 60 Hz  
6.3 A slow-blow fuse (internal)  
Varistor

48 V DC  
3.5 A  
168 W  
0.2 % RMS  
Overcurrent and surge protection  
Varistor  
40 ms @ 115 V AC / 50 ms @ 230 V AC  
1%  
no  
500 V RMS  
1.5 kV RMS  
3 kV RMS  
3 kV RMS

0 °C...+50 °C /-40 °C...+85 °C  
85 %  
green LED  
EN 50178, EN 60950, IEC950  
EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3  
no  
CSA;UL;UR;CE;

Screw connection

4 / 0.1 / 4  
175 x 57 x 127  
Derating: 10% @ 60°C

min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC  
2.9 A @ 115 V AC; 1.45A @ 230 V AC  
50/ 60 Hz  
6.3 A slow-blow fuse (internal)  
Varistor

24...28 V DC  
6.5 A  
156 W  
0.2 % RMS  
Overcurrent and surge protection  
Varistor  
40 ms @ 115 V AC / 50 ms @ 230 V AC  
1%  
no  
500 V RMS  
1.5 kV RMS  
3 kV RMS  
3 kV RMS

0 °C...+50 °C /-40 °C...+85 °C  
85 %  
green LED  
EN 50178, EN 60950, IEC950  
EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3  
no  
CSA;UL;UR;CE;

Screw connection

4 / 0.1 / 4  
175 x 57 x 127  
Derating: 10% @ 60°C

Clamping range (rating- / min. / max.) mm<sup>2</sup>  
Length x width x height mm

Note

Ordering data

Type	Qty.	Order No.
CP SNT 160W 48V 3.5A	1	9925340048

Type	Qty.	Order No.
CP SNT 160W 24-28V 6.5A	1	9925340024

Note

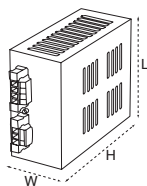
Accessories

Note

Bracket for wall mounting: 7920560000

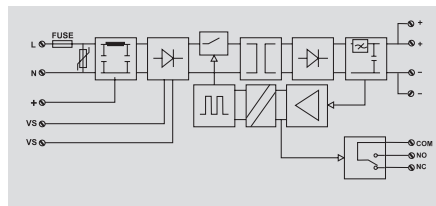
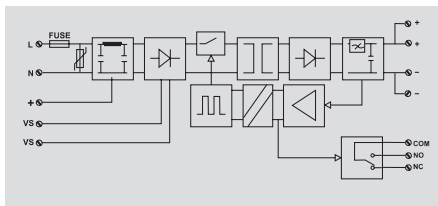
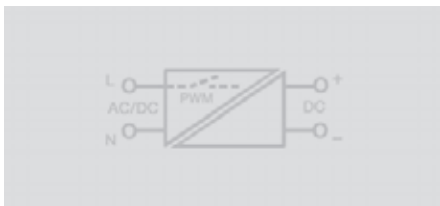
Bracket for wall mounting: 7920560000

connectPower single phase



CP SNT 160 W 12-15 V 8 A

CP SNT 160 W 5 V 8 A



Technical data

<b>Input</b>	
Input voltage	min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC
Input current	2.9 A @ 115 V AC; 1.45A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	6.3 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	12...15 V DC
Output current	8 A
max. output power	96 W
max. residual ripple	0.2 % RMS
Overload protection	Overcurrent and surge protection
Surge protection	Varistor
Mains failure bridge-over time	40 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
Parallel connection option	no
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS
<b>General data</b>	
Operating temperature/Storage temperature	0 °C...+50 °C /-40 °C...+85 °C
Degree of efficiency at max. load	85 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction	no
Approvals	CSA;UL/UR;CE;
<b>Screw connection</b>	
Clamping range (rating- / min. / max.)	4 / 0.1 / 4 mm <sup>2</sup>
Length x width x height	175 x 57 x 127 mm
<b>Note</b>	
Derating: 10% @ 60°C	

<b>Input</b>	
Input voltage	min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC
Input current	2.9 A @ 115 V AC; 1.45A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	6.3 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	5 V DC
Output current	8 A
max. output power	40 W
max. residual ripple	0.2 % RMS
Overload protection	Overcurrent and surge protection
Surge protection	Varistor
Mains failure bridge-over time	40 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
Parallel connection option	no
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS
<b>General data</b>	
Operating temperature/Storage temperature	0 °C...+50 °C /-40 °C...+85 °C
Degree of efficiency at max. load	85 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction	no
Approvals	CSA;UL/UR;CE;
<b>Screw connection</b>	
Clamping range (rating- / min. / max.)	4 / 0.1 / 4 mm <sup>2</sup>
Length x width x height	175 x 57 x 127 mm
<b>Note</b>	
Derating: 10% @ 60°C	

<b>Input</b>	
Input voltage	min. 85/138 V AC, max. 195/250 V AC, typ. 115...230 V AC
Input current	2.9 A @ 115 V AC; 1.45A @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	6.3 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	5 V DC
Output current	8 A
max. output power	40 W
max. residual ripple	0.2 % RMS
Overload protection	Overcurrent and surge protection
Surge protection	Varistor
Mains failure bridge-over time	40 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
Parallel connection option	no
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS
<b>General data</b>	
Operating temperature/Storage temperature	0 °C...+50 °C /-40 °C...+85 °C
Degree of efficiency at max. load	85 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction	no
Approvals	CSA;UL/UR;CE;
<b>Screw connection</b>	
Clamping range (rating- / min. / max.)	4 / 0.1 / 4 mm <sup>2</sup>
Length x width x height	175 x 57 x 127 mm
<b>Note</b>	
Derating: 10% @ 60°C	

Ordering data

Type	Qty.	Order No.
CP SNT 160W 12-15V 8A	1	9925340012

Type	Qty.	Order No.
CP SNT 160W 5V 8A	1	9925340005

Note

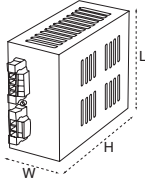
Accessories

Note	Bracket for wall mounting: 7920560000
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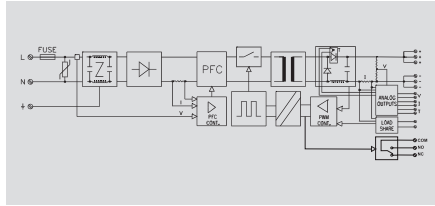
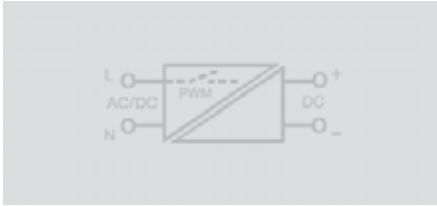
Note	Bracket for wall mounting: 7920560000
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Switch-mode power supplies

connectPower single phase



CP SNT 300 W 24 V 12.5 A



E

Technical data

Input

Input voltage  
Input current  
Input frequency  
Input fuse  
Surge protection

86...265 V AC, 100...200 V DC; typ 115...230 V AC  
3.3 A @ 115 V AC; 1.65 A @ 230 V AC  
50/ 60 Hz  
Thermistor  
Varistor

Output

Output voltage  
Output current  
max. output power  
max. residual ripple  
Overload protection  
Surge protection  
Mains failure bridge-over time  
Control at 10...100% load  
Parallel connection option  
Signalling delay  
Monitoring function

Adjustable, 22-28 V DC  
12.5 A  
300 W  
at 100 kHz: 2 mV<sub>ss</sub>; at 120 Hz: 20 mV AC RMS  
Overcurrent and surge protection  
Varistor  
40 ms @ 115 V AC / 40 ms @ 230 V AC  
0.2 %  
Yes, max. 5 devices, active current splitting  
2 s  
Output voltage, current, temperature

Insulation coordination

Electrical isolation, output-earth  
Electrical isolation, input-earth  
Electrical isolation, input-output  
Electrical isolation, I/O rail

500 V RMS  
1.5 kV RMS  
3 kV RMS  
4 kV RMS

General data

Operating temperature/Storage temperature  
Degree of efficiency at max. load  
Status indication  
Standards  
EMC standards  
Power factor correction  
Derating  
Approvals

-15°C...+50°C (at 100% duty cycle) / -40 °C...+85 °C  
80 %  
Current limiting: yellow LED / Error: red LED / On: green LED  
EN 50178, EN 60950, IEC950  
EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3  
PFC passive  
Derating: 20% @ 60°C  
CSA;UL/UR;CE;

Clamping range (rating- / min. / max.) mm<sup>2</sup>  
Length x width x height mm

Screw connection

4 / 0.1 / 4  
101 x 240 x 155

Note

Ordering data

Type	Qty.	Order No.
CP SNT 300W 24V 12.5A	1	9916250024

Note

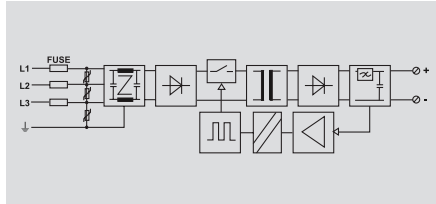
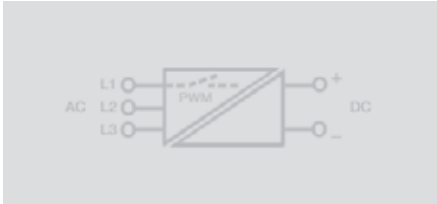
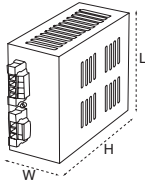
Accessories

Note

Bracket for wall mounting: 7920560000

connectPower 3-phase

CP-SNT 380-480 V AC/24 V



Technical data

<b>Input</b>	
Input voltage	306... 550 V AC, typ.: 360...480 V AC
Input current	120 mA @ 360 V AC; 100 mA @ 230 V AC
Input frequency	50/ 60 Hz
Input fuse	3 x 1 A slow-blow fuse (internal)
Surge protection	Varistor
<b>Output</b>	
Output voltage	24 V DC
Output current	2.3 A
max. output power	55 W
max. residual ripple	< 50 mV RMS
Overload protection	Surge / thermal cut-out
Surge protection	Varistor
Mains failure bridge-over time	120 ms @ 360 V AC / 120 ms @ 480 V AC
Control at 10...100% load	1%
Parallel connection option	no
Overload protection	Surge / thermal cut-out
<b>Insulation coordination</b>	
Electrical isolation, output-earth	500 V RMS
Electrical isolation, input-earth	1.5 kV RMS
Electrical isolation, input-output	3 kV RMS
Electrical isolation, I/O rail	3 kV RMS
<b>General data</b>	
Operating temperature	0 °C...+50 °C
Storage temperature	-40 °C...+85 °C
Degree of efficiency at max. load	85 %
Status indication	green LED
Standards	EN 50178, EN 60950, IEC950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6-2, 3
Power factor correction	no
Approvals	CSA;UL/UR;CE;

<b>Screw connection</b>	
Clamping range (rating- / min. / max.)	4 / 0.1 / 4
Length x width x height	168 x 60 x 108
<b>Note</b>	
Derating: 10% @ 85°C	

<b>Clamping range (rating- / min. / max.)</b>	
mm²	
<b>Length x width x height</b>	
mm	
<b>Note</b>	

<b>Screw connection</b>	
4 / 0.1 / 4	
168 x 60 x 108	
<b>Note</b>	
Derating: 10% @ 85°C	

Ordering data

Type	Qty.	Order No.
CP-SNT 380-480VAC/24V	1	9917790324

<b>Note</b>
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Accessories

<b>Note</b>
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Bracket for wall mounting: 7920560000
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