

## Three-phase switchmode power supply

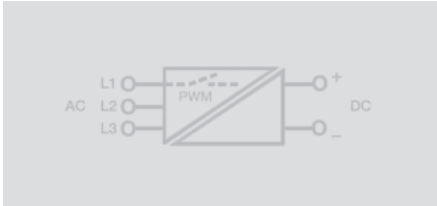
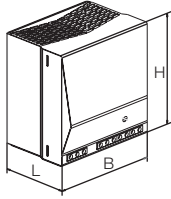
**connectPower ECOLINE**  
**CP SNT3 250W 24 V 10 A**  
**CP SNT3 500W 24 V 20 A**  
**CP SNT3 1000W 24 V 40 A**



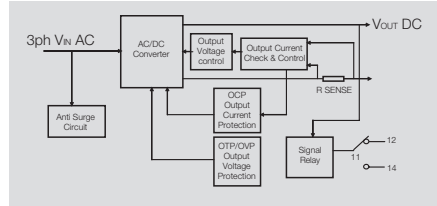
- Output voltage 24 ... 28 V DC variable
- Input voltage 3 x 400 V AC / 340 ... 575 V AC
- LED operation display
- status contact as change-over switch
- TS 35 mounting rails
- Overload response: electronic current limitation
- Connect in parallel for increased performance / redundancy
- Harmonic current reduction through PFC
- International approvals for world-wide use
- Silicone free

# Switch-mode power supply

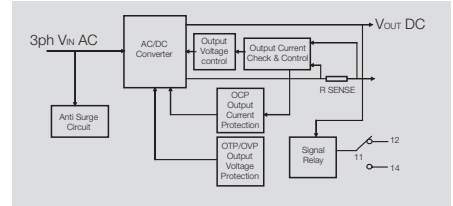
## connect Power 3-phase ECOLINE



## CP SNT3 250W 24V 10A



## CP SNT3 500W 24V 20A



### Technical data

#### Input

Input voltage  
Input current  
Input frequency  
Mains fuse

#### Output

Output voltage  
Output current  
max. output power  
max. residual ripple  
Overload protection

Overvoltage protection  
Stored energy time when 400 V AC mains fail  
Closed-loop control at 10 ... 100 % load  
Possibility of parallel connection  
Signal relay / change-over contact

#### Insulation co-ordination

Galvanic isolation output-earth  
Galvanic isolation input-earth  
Galvanic isolation input-output

#### General specifications

Operating temperature / Storage temperature  
Degree of efficiency  
Status display  
Standards  
EMC standards  
Mounting position  
Mounting  
Weight  
Approvals

3 x 400 V AC / 340 ... 575 V AC  
0.95 A (Ue = 400 V AC)  
47 ... 63 Hz  
external via 3 CBs up to 6 A, char. C

24 ... 28 V DC (adjustable via potentiometer)  
10 A  
250 W  
< 100 mVss / bandwidth 20 MHz  
105 % ... 130 % I<sub>const.</sub> of max. output power,  
automatic restart  
29 ... 34 V  
> 10 ms at nominal load  
< 2 %  
recommended with diode module  
250 V AC (max. 30 V DC) / 1 A

0.5 kV AC  
1.5 kV AC  
3 kV AC

-10 °C ... +55° C / -20 °C ... +85° C  
88 %  
LED green  
EN 60950  
EN 55011, EN 55022, EN 55024, EN 61000-6-2,-3  
Horizontal on mounting rail TS 35  
Clearance: above/below ≥ 3 cm  
approx. 1.5 kg  
CE <sup>508</sup> / <sup>60950</sup>

#### Screw connection

4 / 0.13 / 6  
110 x 125,5 x 125

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

3 x 400 V AC / 340 ... 575 V AC  
1.7 A (Ue = 400 V AC)  
47 ... 63 Hz  
external via 3 CBs 6 ... 16 A, char. C

24 ... 28 V DC (adjustable via potentiometer)  
20 A  
480 W  
< 100 mVss / bandwidth 20 MHz  
105 % ... 130 % I<sub>const.</sub> of max. output power,  
automatic restart  
29 ... 34 V  
> 10 ms at nominal load  
< 2 %  
recommended with diode module  
250 V AC (max. 30 V DC) / 1 A

0.5 kV AC  
1.5 kV AC  
3 kV AC

-10 °C ... +55° C / -20 °C ... +85° C  
88 %  
LED green  
EN 60950  
EN 55011, EN 55022, EN 55024, EN 61000-6-2,-3  
Horizontal on mounting rail TS 35  
Clearance: above/below ≥ 3 cm  
approx. 3.0 kg  
CE <sup>508</sup> / <sup>60950</sup>

#### 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 250W 24V 10A	1	8708700000

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

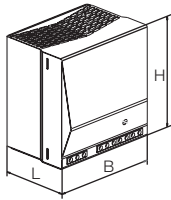
Note

### Accessories

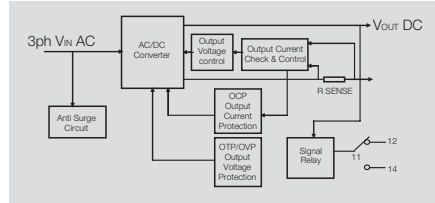
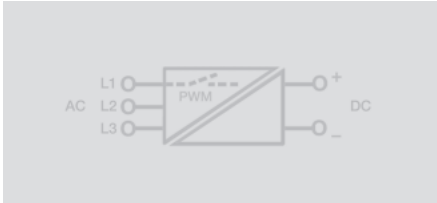
Note

# Switch-mode power supply

connect Power 3-phase  
ECOLINE



CP SNT3 1000W 24V 40A



## Technical data

### Input

Input voltage  
Input current  
Input frequency  
Mains fuse

3 x 400 V AC / 340 ... 575 V AC (450 ... 800 V DC)  
3.4 A (U<sub>e</sub> = 400 V AC)  
47 ... 63 Hz  
external via 3 CBs 10 ... 16 A, char. C

### Output

Output voltage  
Output current  
max. output power  
max. residual ripple  
Overload protection

24 ... 28 V DC (adjustable via potentiometer)  
40 A  
960 W  
< 100 mVss / bandwidth 20 MHz  
105 % ... 130 % I<sub>const.</sub> of max. output power,  
automatic restart  
29 ... 34 V  
> 10 ms at nominal load  
< 2 %  
directly with same type  
250 V AC (max. 30 V DC) / 1 A

### Insulation co-ordination

Galvanic isolation output-earth  
Galvanic isolation input-earth  
Galvanic isolation input-output

0.5 kV AC  
1.5 kV AC  
3 kV AC

### General specifications

Operating temperature / Storage temperature  
Degree of efficiency  
Status display  
Standards  
EMC standards  
Mounting position  
Mounting  
Weight  
Approvals

-10 °C ... +55° C / -20 °C ... +85° C  
88 %  
LED green  
EN 60950  
EN 55011, EN 55022, EN 55024, EN 61000-6-2,-3  
Horizontal on mounting rail TS 35  
Clearance: above/below ≥ 3 cm  
approx. 3.5 kg  
CE <sup>U</sup> 508 / <sup>U</sup> 60950

Clamping area Input (nominal / min. / max.)	mm <sup>2</sup>
Clamping area Output (nominal / min. / max.)	mm <sup>2</sup>
Length x width x height	mm

### Screw connection

4 / 0.13 / 6  
10 / 0.32 / 16  
125 x 280 x 150

### Note

Clamping range identical for input / signal relay

## Ordering data

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

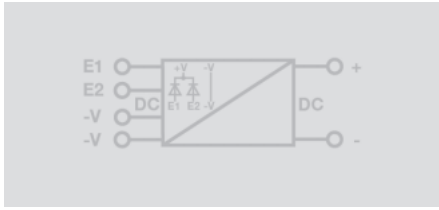
### Note

## Accessories

### Note

# Switch-mode power supply

## connectPower Diode module



### Technical data

#### Input

Input voltage  
Input current

#### Output

Output voltage  
Output current

#### General specifications

Operating temperature  
Storage temperature  
Efficiency under max. load  
Mount onto mounting rails  
Mounting position  
Mounting  
Weight  
Approvals

Clamping area Input (nominal / min. / max.)	mm <sup>2</sup>
Clamping area Output (nominal / min. / max.)	mm <sup>2</sup>
Length x width x height	mm

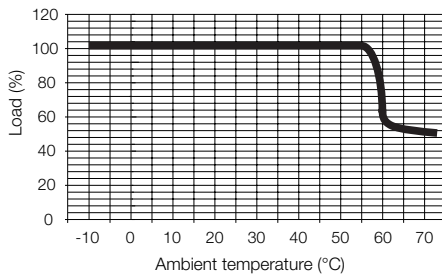
#### Note

### Ordering data

### Derating curve

10/20/40 A

Output load / ambient temperature



## CP DM 10



Input voltage	40 V DC max.
Input current	2 x 0 ... 10 A max.
Output voltage	$V_{in} - 0,5$ typ.
Output current	0 ... 20 A max. or 10 A max. in redundancy mode
Operating temperature	-10 °C ... 55 °C
Storage temperature	-20 °C ... +85 °C
Efficiency under max. load	approx. 95.5 % at 24 V DC
Mounting rail	TS35 to DIN 50022
Mounting position	Horizontal
Mounting	Clearance: side $\geq 4$ cm; above/below $\geq 10$ cm
Weight	approx. 0.15 kg
Approvals	CE $\text{UL508}$ / $\text{UL60950}$
<b>Screw connection</b>	4 / 0.13 / 6
	110 x 55,5 x 125
<b>Clamping range identical for input / output</b>	

Type	Qty	Order No.
CP DM 10	1	8710620000

## CP DM 20



Input voltage	40 V DC max.
Input current	2 x 0 ... 20 A max.
Output voltage	$V_{in} - 0,5$ typ.
Output current	0 ... 40 A max. or 20 A max. in redundancy mode
Operating temperature	-10 °C ... 55 °C
Storage temperature	-20 °C ... +85 °C
Efficiency under max. load	approx. 95 % at 24 V DC
Mounting rail	35 mm to DIN 50022
Mounting position	Horizontal
Mounting	Clearance: side $\geq 4$ cm; above/below $\geq 10$ cm
Weight	approx. 0.5 kg
Approvals	CE $\text{UL508}$ / $\text{UL60950}$
<b>Screw connection</b>	4 / 0.13 / 6
	10,0 / 0,32 / 16,0
	110 x 55,5 x 125

Type	Qty	Order No.
CP DM 20	1	8768650000