

# Three Phase Input Supplies – General Purpose Solutions



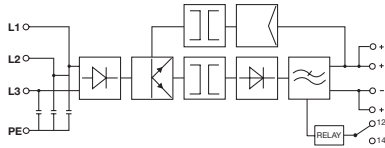
CP SNT3 250W 24V 10A



CP SNT3 500W 24V 20A



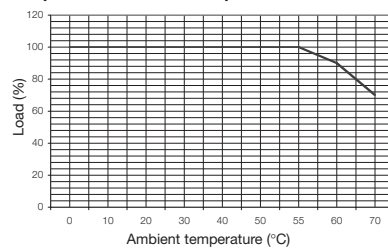
Approvals:



Block diagram

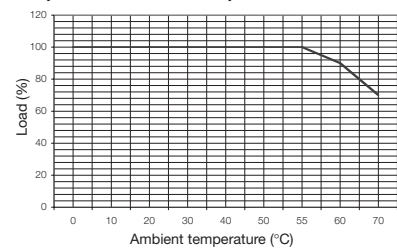
### Derating Curves

Output load / ambient temperature



### Derating Curves

Output load / ambient temperature



### Ordering Data

### Technical Data

Input	Input voltage	3 x 400 VAC / 340 min...575 max VAC
	Input current	0.95 A @ 400 VAC
	Input frequency	47...63 Hz
	Recommended mains fuse	external via 3 circuit breakers up to 6 A, trip curve characteristic C
Output	Output voltage	24...28 VDC (adjustable via potentiometer)
	Output current	10 A
	max. output power	250 W
	max. residual ripple	< 100 mV <sub>p-p</sub> / bandwidth 20 MHz
	Surge capability	105%...130% I <sub>const.</sub> of max. output power for up to 5 seconds, automatic restart
	Overvoltage protection	29...34 V with automatic restart
	Holdup time when 400 VAC mains fail	> 10 ms at nominal load
	Load regulation	< 2%
	Redundancy or load sharing	directly with same type (maximum 2 power supplies of same rating), alternatively with diode module
	Status relay/change-over contact	250 VAC (max. 30 VDC) / 1 A
Insulation co-ordination	Galvanic isolation output-ground	0.5 kVAC
	Galvanic isolation input-ground	1.5 kVAC
	Galvanic isolation input-output	3 kVAC

### General Specifications

Temperature	Operating	-10°C...+55°C (+14°F...+131°F)
	Storage	-20°C...+85°C (-4°F...+185°F)
Efficiency under max. load		88%
Status display		LED green
Standards		EN 60950 (SELV)
EMC standards		EN 55011, EN 55022, EN 55024, EN 61000-6-2,-3
Power factor correction		yes
Mounting position		Horizontal on mounting rail TS 35
Mounting clearance		above/below ≥ 3 cm
Weight		approx. 1.5 kg (3.31 lbs.)
Type of connection		Screw
Clamping area		4 / 0.13 / 6 mm <sup>2</sup> (12 / 26 / 10 AWG)
Dimensions (L x W x H)		125 x 125.5 x 110 mm (4.92 x 4.94 x 4.33 in.)

### Approvals/Certifications

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

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CP SNT3 250W 24V 10A	1	8708700000

508 60950

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

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CP SNT3 500 W 24V 20A	1	8708710000

508 60950

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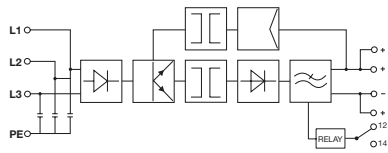
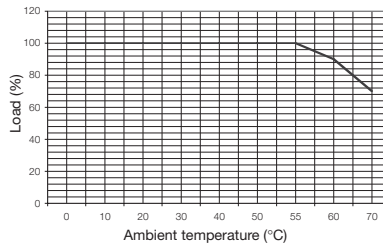
CP SNT3 1000W 24V 40A



Approvals:

### Derating Curves

Output load / ambient temperature



Block diagram

### Ordering Data

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

### Technical Data

Input	Input voltage	3 x 400 VAC / 340 min...575 max VAC
	Input current	3.4 A @ 400 VAC
	Input frequency	47...63 Hz
	Recommended mains fuse	external via 3 circuit breakers up to 16 A, trip curve characteristic C
Output	Output voltage	24...28 VDC (adjustable via potentiometer)
	Output current	40 A
	max. output power	960 W
	max. residual ripple	< 100 mV <sub>p-p</sub> / bandwidth 20 MHz
	Surge capability	105%...130% I <sub>const.</sub> of max. output power for up to 5 seconds, automatic restart
	Overvoltage protection	29...34 V with automatic restart
	Holdup time when 400 VAC mains fail	> 10 ms at nominal load
	Load regulation	< 2%
	Redundancy or load sharing	directly with same type (maximum 2 power supplies of same rating)
	Status relay/change-over contact	250 VAC (max. 30 VDC) / 1 A
Insulation co-ordination	Galvanic isolation output-ground	0.5 kVAC
	Galvanic isolation input-ground	1.5 kVAC
	Galvanic isolation input-output	3 kVAC

### General Specifications

Temperature	Operating	-10°C...+55°C (+14°F...+131°F)
	Storage	-20°C...+85°C (-4°F...+185°F)
Efficiency under max. load		88%
Status display		LED green
Standards		EN 60950 (SELV)
EMC standards		EN 55011, EN 55022, EN 55024, EN 61000-6-2,-3
Power factor correction		yes
Mounting position		Horizontal on mounting rail TS 35
Mounting clearance		above/below ≥ 3 cm
Weight		approx. 3.0 kg (6.6 lbs.)
Type of connection		Screw
Clamping area		4 / 0.13 / 6 mm <sup>2</sup> (12 / 26 / 10 AWG)
Dimensions (L x W x H)		125 x 280 x 150 mm (4.92 x 11.02 x 5.91 in.)

### Approvals/Certifications