

Three Phase Input Supplies – General Purpose Solutions



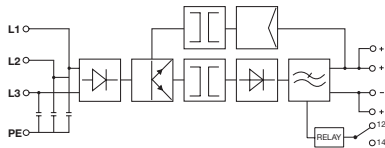
CP SNT3 250W 24V 10A



CP SNT3 500W 24V 20A



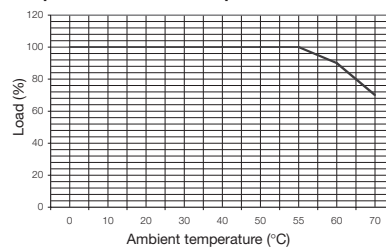
Approvals:



Block diagram

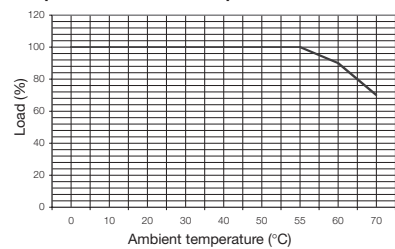
Derating Curves

Output load / ambient temperature



Derating Curves

Output load / ambient temperature



Ordering Data

Technical Data

Input	Input voltage
	Input current
	Input frequency
	Recommended mains fuse
Output	Output voltage
	Output current
	max. output power
	max. residual ripple
	Surge capability
	Overvoltage protection
Holdup time when 400 VAC mains fail	
Load regulation	
Redundancy or load sharing	
Status relay/change-over contact	
Insulation co-ordination	Galvanic isolation output-ground
	Galvanic isolation input-ground
	Galvanic isolation input-output

General Specifications

Temperature	Operating
	Storage
Efficiency under max. load	
Status display	
Standards	
EMC standards	
Power factor correction	
Mounting position	
Mounting clearance	
Weight	
Type of connection	
Clamping area	
Dimensions (L x W x H)	

Approvals/Certifications

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

Input	
3 x 400 VAC / 340 min...575 max VAC	
0.95 A @ 400 VAC	
47...63 Hz	
external via 3 circuit breakers up to 6 A, trip curve characteristic C	
Output	
24...28 VDC (adjustable via potentiometer)	
10 A	
250 W	
< 100 mV _{p-p} / bandwidth 20 MHz	
105%...130% I _{const.} of max. output power for up to 5 seconds, automatic restart	
29...34 V with automatic restart	
> 10 ms at nominal load	
< 2%	
directly with same type (maximum 2 power supplies of same rating), alternatively with diode module	
250 VAC (max. 30 VDC) / 1 A	
Insulation co-ordination	
0.5 kVAC	
1.5 kVAC	
3 kVAC	

Temperature	
-10°C...+55°C (+14°F...+131°F)	
-20°C...+85°C (-4°F...+185°F)	
88%	
LED green	
EN 60950 (SELV)	
EN 55011, EN 55022, EN 55024, EN 61000-6-2,-3	
yes	
Horizontal on mounting rail TS 35	
above/below ≥ 3 cm	
approx. 1.5 kg (3.31 lbs.)	
Screw	
4 / 0.13 / 6 mm ² (12 / 26 / 10 AWG)	
125 x 125.5 x 110 mm (4.92 x 4.94 x 4.33 in.)	

508 60950

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

Input	
3 x 400 VAC / 340 min...575 max VAC	
1.7 A @ 400 VAC	
47...63 Hz	
external via 3 circuit breakers up to 16 A, trip curve characteristic C	
Output	
24...28 VDC (adjustable via potentiometer)	
20 A	
480 W	
< 100 mV _{p-p} / bandwidth 20 MHz	
105%...130% I _{const.} of max. output power for up to 5 seconds, automatic restart	
29...34 V with automatic restart	
> 10 ms at nominal load	
< 2%	
directly with same type (maximum 2 power supplies of same rating), alternatively with diode module	
250 VAC (max. 30 VDC) / 1 A	
Insulation co-ordination	
0.5 kVAC	
1.5 kVAC	
3 kVAC	

Temperature	
-10°C...+55°C (+14°F...+131°F)	
-20°C...+85°C (-4°F...+185°F)	
88%	
LED green	
EN 60950 (SELV)	
EN 55011, EN 55022, EN 55024, EN 61000-6-2,-3	
yes	
Horizontal on mounting rail TS 35	
above/below ≥ 3 cm	
approx. 3.0 kg (6.6 lbs.)	
Screw	
4 / 0.13 / 6 mm ² (12 / 26 / 10 AWG)	
125 x 227.5 x 110.0 mm (4.92 x 8.96 x 4.33 in.)	

508 60950

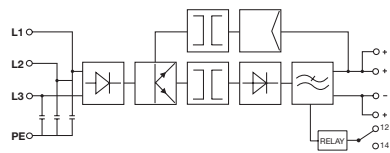
Three Phase Input Supplies – General Purpose Solutions



CP SNT3 1000W 24V 40A



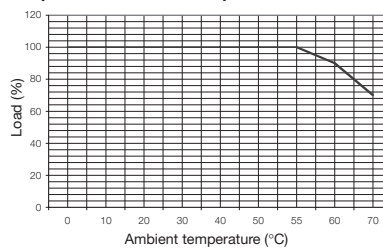
Approvals:



Block diagram

Derating Curves

Output load / ambient temperature



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 _{p-p} / bandwidth 20 MHz
	Surge capability	105%...130% I _{const.} 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 ² (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

508 60950