CP CR600

Technical Data

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1 Technical data

1.1 Specifications

Table 1-1: *CPC 80* specifications

Characteristic	Rating
Working voltage	15 kV
Frequency	50 - 400 Hz
Inductors	100 H with 105 H ± 5% 50 H with 52,5 H ± 5% 25 H with 26,3 H + 7% / - 2%

Table 1-2: Required variants of *CPC 80* needed for testing EVERY capacitance value up to the indicated maximum value (the symbol "|" stands for "and/or", for a detailed list of combinations of all capacitance ranges see tables 1-4 and 1-5)

Connection configuration	Max. value at 50 Hz	Max. value at 60 Hz
100 H	up to 160 nF	up to 120 nF
100 H | 50 H	up to 350 nF	up to 250 nF
100 H | 50 H | 25 H	up to 740 nF	up to 520 nF

Note: Other connection configurations are also possible. This could be useful if longer duty cycles have to be achieved.

Table 1-3: Typical On/Off times

Reactor type	Initial reactor temperature	On/Off times in minutes								
		0,45 A			0,9 A			1,8 A		
		T1[1]	T2[2]	T3[3]	T1	T2	T3	T1	T2	T3
25 H	25 °C	45	130	22	20	90	8	5	60	2
50 H	25 °C	45	130	22	20	90	8	Maximum current is 0,9 A @ 15 kV 50 Hz		
100 H	25 °C	45	130	22	Maximum current is 0,45 A @ 15 kV 50 Hz					

1. T1 = initial output time
2. T2 = cooling time with fan (optional power supply attached to CR600)
3. T3 = output time after cooling phase

Table 1-4: Possible compensation ranges and combination of *CP CR600* models 50 Hz/15 kV

Capacitance	100 H	50 H	25 H
60…160 nF	X		
130…260 nF		X	
230…350 nF	X	X	
330…450 nF			X
420…550 nF	X		X
520…640 nF		X	X
620…740 nF	X	X	X

Note: The number of *CP CR600* devices is represented as X as in the table above (X = 1 *CP CR600*).

Note: Other connection configurations are also possible. This could be useful if longer duty cycles have to be achieved.

Table 1-5: Possible compensation ranges and combination of *CP CR600* models 60 Hz/15 kV

Capacitance	100 H	50 H	25 H
50…120 nF	X		
85…190 nF		X	
150…250 nF	X	X	
220…320 nF			X
290…390 nF	X		X
350…460 nF		X	X
420…520 nF	X	X	X
490…590 nF			X X
560…660 nF	X		X X
620…720 nF		X	X X
690…790 nF	X	X	X X

Note: The number of *CP CR600* devices is represented as X in the table above (X = 1 *CP CR600*; X X = 2 *CP CR600* devices).

Note: Other connection configurations are also possible. This could be useful if longer duty cycles have to be achieved.

1.2 Power supply specifications

Table 1-6: AC power supply specifications

Characteristic	Rating
Input	100...240 V AC/50...60 Hz/700...350 mA
Output	18 V DC/1.33 A

1.3 Mechanical data

Table 1-7: Mechanical data

Characteristic	Rating
Dimensions (W x H x D), with handles and mounted within the case	604 × 465 × 307 mm / 23.78 × 18.30 × 12.08 in
Weight	48 kg / 106 lb

1.4 Environmental conditions

Table 1-8: Climate

Characteristic		Rating
Temperature	Operating	0…+55 ºC / +32…+131 ºF
	Storage and transportation	–20…+70 ºC / –4…+158 ºF
Max. altitude		2000 m

1.5 Standards

Table 1-9: Standards conformity

EMC, safety		
EMC	IEC/EN 61326-1 (industrial electromagnetic environment) FCC subpart B of part 15, class A	
Safety	IEC/EN/UL 61010-1, IEC/EN/UL 61010-2-30	 
Other		
Shock	IEC/EN 60068-2-27 (15 g/11 ms, half-sinusoid, 3 shocks in each axis)	
Vibration	IEC/EN 60068-2-6 (frequency range 10 Hz…150 Hz, acceleration 2 g continuous (20 m/s^2/65 ft/s^2), 20 cycles per axis)	