

# Split Core Current Transformer

## CR3100 Series



CR3109-1500



CR3110-3000



CR3111-3000



CR3113-2000

### PART NUMBERS

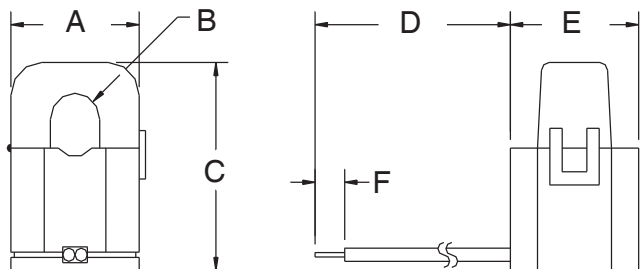
<b>CR3109 - 1500</b>	<b>30 AMP</b>
<b>CR3110 - 3000</b>	<b>75 AMP</b>
<b>CR3111 - 3000</b>	<b>100 AMP</b>
<b>CR3113 - 2000</b>	<b>150 AMP</b>

### SPLIT CORE CURRENT TRANSFORMERS

Part Number	I <sub>max</sub>	V <sub>max</sub> RMS	T <sub>e</sub> (typ.)	DCR Ω	Frequency
CR3109-1500	30	5	1510	187	20 - 1 KHz
CR3110-3000	75	15	3100	440	20 - 1 KHz
CR3111-3000	100	19	3150	390	20 - 1 KHz
CR3113-2000	150	16	2125	58	20 - 1 KHz

I<sub>p</sub> = Maximum Input Current to be linearly sensed    V<sub>max</sub> = Maximum Voltage (Saturation) CT will develop  
 T<sub>e</sub> = Effective turns ratio including losses    (All Specifications tested at 60 Hz)

### OUTLINE DRAWING



Part Number	A	B	C	D	E	F
<b>CR3109-1500</b>	0.76 (19.2)	0.19 (4.90)	1.24 (31.5)	6.10 (155)	0.82 (20.8)	0.20 (5.08)
<b>CR3110-3000</b>	1.00 (25.5)	0.40 (10.2)	1.57 (40.0)	5.91 (150)	1.04 (26.5)	0.24 (6.10)
<b>CR3111-3000</b>	1.24 (31.4)	0.62 (15.7)	1.77 (45.0)	6.10 (155)	1.22 (31.0)	0.20 (5.08)
<b>CR3113-2000</b>	2.68 (68.7)	0.98 (24.9)	2.56 (65.0)	118 (3000)	0.72 (18.4)	0.20 (5.08)

The **CR3100** Series Split Core Current Transformer is designed to provide a low cost method to monitoring electrical current. A unique hinge and locking snap allows attachment without interrupting the current-carrying wire. High secondary turn will develop signals up to 10.0 VAC across a burden resistor.

### Applications

- Portable Instruments
- Sub-Metering
- Monitor Motor Loads

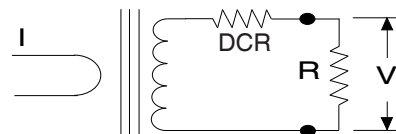
### Features

- Small Size
- Low Cost
- High Secondary Turns
- Secure Locking Hinge

### Specifications

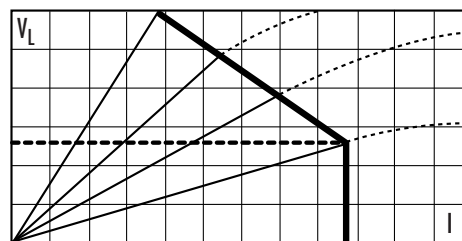
Maximum Continuous Primary Current	4 X I <sub>r</sub>
Insulation Voltage	3500 Vac/1min
Storage Temp.	-45°C thru +85°C
Operating Temp.	-40°C thru +65 °C

### Regulatory Agencies



$$V_L = V_{max} - \left[ \frac{I \times DCR}{T_e} \right] \quad V = \frac{I \times R}{T_e}$$

For best linearity, choose R such that V < 0.8 V<sub>L</sub>



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