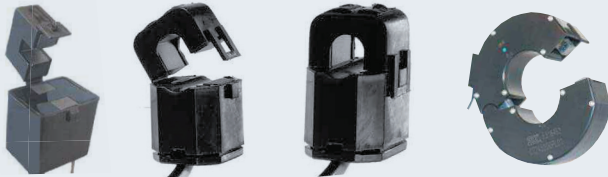


Split Core Current Transformer

3100 Series



The **3100** 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.

Part Numbers

ER 3109	30 AMP
ER 3110	75 AMP
ER 3111	100 AMP
ER 3113	150 AMP

Split Core Current Transformers

Part Nr.	I _{max}	V _{max} RMS	T _e (typ.)	DCR _Ω	Freq.
3109	30	5	1510	187	20 - 1 KHz
3110	75	15	3100	515	20 - 1 KHz
3111	100	19	3150	390	20 - 1 KHz
3113	150	16	2125	58	20 - 1 KHz

I_r = Maximum Input Current to be linearly sensed
 V_{max} = Maximum Voltage (Saturation) CT will develop
 T_e = Effective turns ratio including losses (All Specifications tested at 60 Hz)

Applications

- Portable Instruments
- Sub-Metering
- Monitor Motor Loads

Features

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

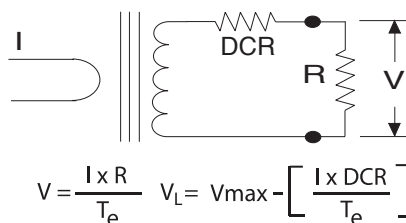
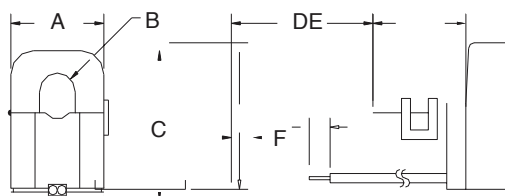
Specifications

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

Regulatory Agencies



Outline Drawing



For best linearity, choose R such that $V < 0.8 V_L$

