

CURRENT TRANSFORMERS

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SPLIT CORE CURRENT TRANSFORMER

MODEL FC

FLEX-CORE® Circular and Rectangular Models



MADE IN U.S.A.



- Six Inside Diameter Sizes
- 1 or 5 Amp Secondaries
- 0-.333V or 1.0V Secondaries
- Custom Inserts Available
- Custom Ratios and Secondaries Available Upon Request.

For Indoor or Outdoor Use
Request Mastic Pads for outdoor use.

FEATURES

These split core current transformers are designed for easy installation over busbar or cable to provide a precise representation of the primary current. There are solutions available for most commercially available meters and instrumentation.

APPLICATIONS

- Watt Transducer
- Demand Meter
- Sub-Metering
- Current Transducer
- Power Factor Meter
- Instrumentation
- KWH Meter
- Current Sensing Relays
- Energy Management Systems

SPECIFICATIONS

Construction

Directional silicon steel is used for the flexible core. Secondary windings are of copper. Unit is encapsulated in silicone rubber which protects against moisture, dirt, oil and corona, salinity, and UV.

Insulation Level 0.72kV, 10kV BIL Full Wave

Frequency 50-400Hz

Safety Factor (5 Amp secondary units only)

A self-contained voltage clamping circuit prevents dangerous high voltage across the secondary windings in case of accidental opening of the output leads when the primary circuit is energized. This circuit will trigger within 10 microseconds when the secondary voltage rises to 40 volts or more, clamping the output to less than 1 volt.

Thermal Factor 1.25 at 30°C, 1.0 at 55°C

Operating Temp Range..... -45°C to +55°C

Altitude Up to 4000 Meters

Accuracy 2500:5 thru 6000:5 1%

Secondary Leads..... 12 Ft. with Spade Connectors
Custom lead lengths are available.

Color Transformer (red) - Leads (yellow)

Remains flexible from -45°C to +200°C

Meets IEC 61869 Standards

Caution: Current transformers are to be installed by qualified technicians only. The main conductor should be de-energized before installation.

ORDERING INFORMATION

FC X X X X / X - X

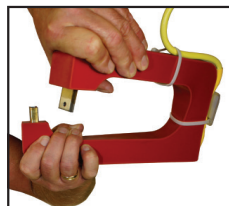
RATIO ————

I.D. ————

-4 -6 -8 -11 -R -R411

Example: 5000A Split Core with
6" Inside Diameter
FC5000/5-6

Note: Open split core with a twisting motion only.



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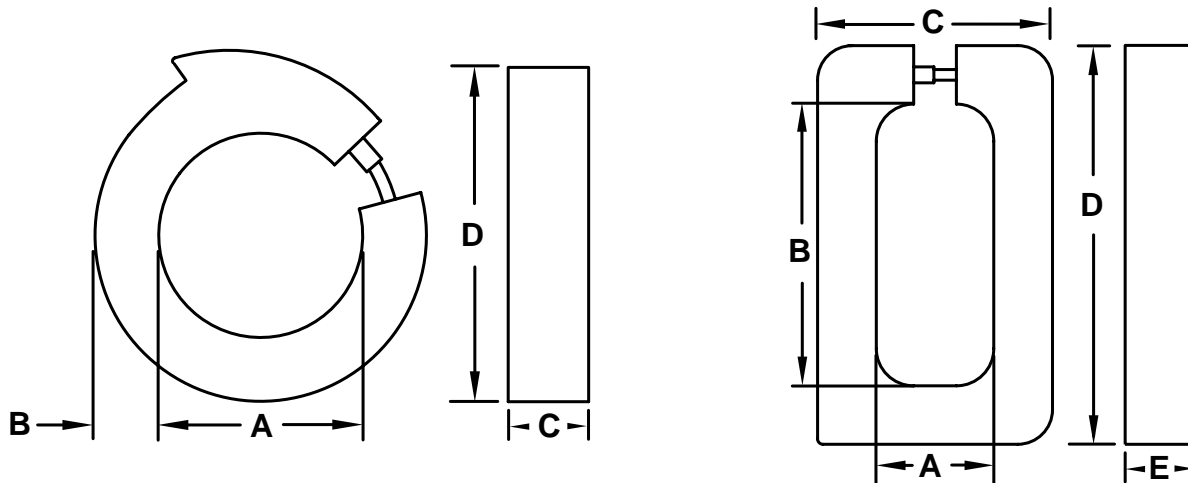
SPECIFICATIONS: 5 AMP SECONDARY MODELS

Current Ratio	INSIDE DIAMETER						Burden Capacity	Accuracy
	Round				Rectangle			
	4"	6"	8"	11"	-R	-R411		
200/5	-	-	-	-	-	-	*	*
250/5	-	-	-	-	-	-	*	*
300/5	-	-	-	-	-	-	*	*
400/5	-	-	-	-	-	-	*	*
500/5	-	-	-	-	-	-	*	*
600/5	-	-	-	-	-	-	*	*
800/5	-	-	-	-	-	-	*	*
1000/5	-	-	-	-	-	-	*	*
1200/5	-	-	-	-	-	-	*	*
1500/5	-	-	-	-	-	-	*	*
1600/5	-	-	-	-	-	-	*	*
2000/5	-	-	-	-	-	-	*	*
2400/5	-	-	-	-	-	-	*	*
2500/5	-	X	X	X	X	X	35VA	1%
3000/5	-	X	X	X	X	X	45VA	1%
3500/5	-	X	X	X	X	X	45VA	1%
4000/5	-	X	X	X	X	X	45VA	1%
5000/5	-	X	X	X	X	X	45VA	1%
6000/5	-	X	X	X	X	X	45VA	1%

*Order as FCL Units. They are identical units and sold as model FCL.

AVERAGE WEIGHT	4"	6"	8"	11"	(R) 2 3/4"x6 5/8"	(R411) 4" X 11"
	4 Lbs.	6 Lbs.	7 Lbs.	9 Lbs.	6 Lbs.	8 Lbs.

DIMENSIONS



INSIDE DIAMETER	CIRCULAR				MODEL
	B	C	D		
A					
4	1 1/4	1 1/2	6 1/2		-4
6	1 1/4	1 1/2	8 1/2		-6
8	1 1/4	1 1/2	10 1/2		-8
11	1 1/4	1 1/2	13 1/2		-11

INSIDE DIAMETER	RECTANGULAR					MODEL
	A	B	C	D	E	
A						
2 3/4		6 5/8	5 1/2	9 3/8	1 1/2	-R
4		11	6 1/2	13 3/8	1 1/2	-R411

All Dimensions In Inches

Black Wire = X1
White Wire = X2