

# OSI SPLIT-CORE CURRENT TRANSFORMERS MODEL CTY-

## FEATURES

- 0.5% Linearity
- Split-core
- AC Outputs 0.1A, 1A, 5A, 0.333V, 1V, 5V

## LOW COST



## APPLICATIONS

- For use with OSI Watt transducers
- For use with OSI Current transducers
- Ideal for Ammeters and Wattmeters

| INPUT AC AMPS | STANDARD OUTPUTS MODEL CTY- |         |         |            |          |          | SENSOR SIZE |
|---------------|-----------------------------|---------|---------|------------|----------|----------|-------------|
|               | 0-0.1Aac*                   | 0-1Aac  | 0-5Aac  | 0-0.333Vac | 0-1Vac   | 0-5Vac   |             |
| 0-50          | 050A-.1                     | 050A-1  | NA      | 050A-.3V   | 050A-1V  | 050A-5V  | A           |
| 0-100         | 100A-.1                     | 100A-1  | NA      | 100A-.3V   | 100A-1V  | 100A-5V  | A           |
| 0-200         | 200A-.1                     | 200A-1  | NA      | 200A-.3V   | 200A-1V  | 200A-5V  | A           |
| 0-100         | 100B-.1                     | 100B-1  | 100B-5  | 100B-.3V   | 100B-1V  | 100B-5V  | B           |
| 0-200         | 200B-.1                     | 200B-1  | 200B-5  | 200B-.3V   | 200B-1V  | 200B-5V  | B           |
| 0-300         | 300B-.1                     | 300B-1  | 300B-5  | 300B-.3V   | 300B-1V  | 300B-5V  | B           |
| 0-400         | 400B-.1                     | 400B-1  | 400B-5  | 400B-.3V   | 400B-1V  | 400B-5V  | B           |
| 0-500         | 500B-.1                     | 500B-1  | 500B-5  | 500B-.3V   | 500B-1V  | 500B-5V  | B           |
| 0-600         | 600B-.1                     | 600B-1  | 600B-5  | 600B-.3V   | 600B-1V  | 600B-5V  | B           |
| 0-800         | 800B-.1                     | 800B-1  | 800B-5  | 800B-.3V   | 800B-1V  | 800B-5V  | B           |
| 0-800         | 800C-.1                     | 800C-1  | 800C-5  | 800C-.3V   | 800C-1V  | 800C-5V  | C**         |
| 0-1000        | 1000C-.1                    | 1000C-1 | 1000C-5 | 1000C-.3V  | 1000C-1V | 1000C-5V | C**         |
| 0-1200        | 1200C-.1                    | 1200C-1 | 1200C-5 | 1200C-.3V  | 1200C-1V | 1200C-5V | C**         |
| 0-1200        | 1200D-.1                    | 1200D-1 | 1200D-5 | 1200D-.3V  | 1200D-1V | 1200D-5V | D           |
| 0-1500        | 1500C-.1                    | 1500C-1 | 1500C-5 | 1500C-.3V  | 1500C-1V | 1500C-5V | C**         |
| 0-1500        | 1500D-.1                    | 1500D-1 | 1500D-5 | 1500D-.3V  | 1500D-1V | 1500D-5V | D           |
| 0-2000        | 2000D-.1                    | 2000D-1 | 2000D-5 | 2000D-.3V  | 2000D-1V | 2000D-5V | D           |
| 0-2500        | 2500D-.1                    | 2500D-1 | 2500D-5 | 2500D-.3V  | 2500D-1V | 2500D-5V | D           |



**5 YEAR WARRANTY**



## ORDERING INFORMATION

Example: 1500A Input, with a 0.333Vac Output. Sensor Size D

**CTY-1500D-.3V**

Optional inputs and outputs are available, consult factory.

\* 0.1A output models have an internal voltage-clamping circuit which limits the output voltage to less than 8Vac. CT secondaries may be opened safely without disconnecting the primary. These models are also suitable for use with WL50 series Watt/Watthour transducers.

\*\* UL Recognition does not apply to C-size sensors.

## SPECIFICATIONS

***For use over insulated conductors only!***

### INPUT

Current ..... See Table  
 Over-current ..... 1.2 X Rating  
 Frequency Range ..... 50-60Hz

### OUTPUT

Signal ..... See Table  
 Burden, Sensor Size A  
 1A Models ..... 50A ..... 0.2VA  
 100A ..... 0.5VA  
 200A ..... 1VA  
 Burden, Sensor Sizes B, C and D  
 1A and 5A Models ..... 100A ..... 1VA  
 200A and 300A ..... 2VA  
 400A through 800A ..... 5VA  
 1000A through 2500A ..... 10VA  
 Loading ..... 0.333V, 1V and 5V Models ..... ≥500kΩ  
 0.1A Models ..... ≤10Ω

### DIELECTRIC TEST

Input to Output ..... 2500Vac, 1min.

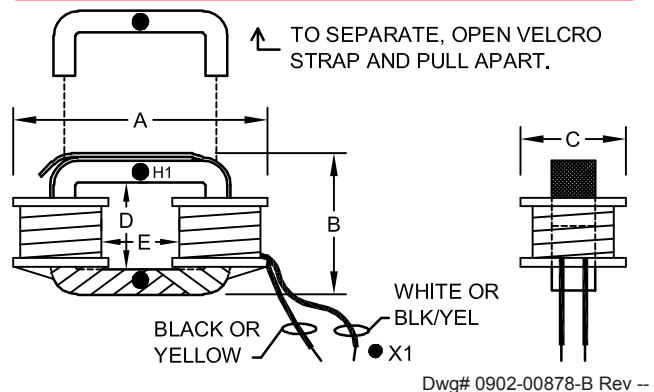
### ACCURACY

0.1A, 0.333V, 1V and 5V Models  
 50A models ..... 0.6 metering class  
 100A-2500A models ..... 0.3 metering class  
 1A Models ..... Sensor Size A ..... ±1% F.S.  
 Sensor Sizes B, C and D ..... ±0.5% F.S.  
 5A Models ..... ±1% F.S.

### MECHANICAL

Operating Temperature ..... 55°C Max.

## SENSOR DIMENSIONS



| SENSOR SIZE | DIMENSIONS (inches) |       |      |       |      | WT. (lbs.) |
|-------------|---------------------|-------|------|-------|------|------------|
|             | A                   | B     | C    | D     | E    |            |
| A           | 2.80                | 2.00  | 1.12 | 1.09  | 1.09 | 0.4        |
| B           | 3.85                | 3.80  | 1.30 | 2.40  | 1.25 | 0.8        |
| C           | 5.50                | 4.90  | 1.60 | 3.15  | 3.20 | 1.5        |
| D           | 7.75                | 13.00 | 2.20 | 11.00 | 3.10 | 5.2        |

### LEAD LENGTHS

5A Models ..... 24", 14AWG, White (X1) & Black  
 0.1A Models ..... 72", 16AWG, Blk/Yel (X1) & Yellow  
 All Other Models ..... 72", 16AWG, White (X1) & Black

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