CTSB Series of Split Core Current Transformers

The **CTSB** series of split core style current transformers are designed for fast and easy installation. The split core design permits non-contact current measurements without requiring that the primary wire be taken offline and disconnected for CT installation. This method permits a safer, easier, and portable AC current measurement.

The rugged design is suitable for harsh operating environments.

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Features:

- High accuracy and reliability.
- 5 standard sizes.
- Split core design; safer, easier installation, portable.

Specifications:

- **Rated Primary Current** From 100A_{AC} to 5,000A_{AC}, depending upon model.
- **Frequency:** 50 to 400Hz.
- **Secondary Output:** 5A or 1A @ rated primary current.

  Optional Secondary Output: Any voltage @ Rated Primary current between 0.333V to 5.000V.
- **Accuracy Class:** 0.5, 1.0, 3.0 (IEC 61869-2-2012).
- **Phase Angle:** less than 1 degrees at 50% of rated current.
- Load @ rated current: 1VA to 30VA depending upon model.
- Maximum voltage: 720VAC.
- Surge withstand (RMS): 3,000 VAC.
- Operating Temperature: -15ºC to +50ºC.
- Construction:
  - Housing ultrasonic welded.
  - Case material: UL flame retardant rating 94-V0.
- CE Complied.
- RoHS compliant.

Available Accessories:

- Panel mounting brackets.
- Secondary output cables.

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Models:

Model	Nominal Current Ratio	Burden (VA) Accuracy Class			Linearity Range	Opening mm (in)	WT kg
		0.5	1.0	3.0			
CTSB0203-	100:5	-	-	1.50	5%-120% of rated current	20 (.79") x 30 (1.18")	0.78
	150:5	-	-	3.00			
	200:5	-	1.50	2.50			
	250:5	-	1.50	3.75			
	300:5	1.50	3.75	5.00			
	400:5	2.50	5.00	10.00			

Model	Nominal Current Ratio	Burden (VA) Accuracy Class			Linearity Range	Opening mm (in)	WT kg
		0.5	1.0	3.0			
CTSB0508-	250:5			3.75	5%-120% of rated current	50 (1.97") x 80 (3.15")	0.90
	300:5		2.50	5.00			
	400:5	2.50	3.75	7.50			
	500:5	2.50	5.00	10.00			
	600:5	2.50	5.00	15.00			
	750:5	3.75	7.50	15.00			
	1000:5	5.00	10.00	20.00			

NOTES:
Accuracy Class 3 – The linearity range is from 50% to 120% of rated primary current.

Optional configurations with a **1A secondary output** at rated primary current are available. Performance information for the 1A secondary option for a specific model is available by emailing Application Engineering - applicationengineering@tichenassociates.com .

Model	Nominal Current Ratio	Burden (VA)			Linearity Range	Opening mm (in)	WT kg
		Accuracy Class					
		0.5	1.0	3.0			
CTSB0512-	600:5		2.50	3.75	5%-120% of rated current	55 (2.17") x 129 (5.08")	2.20
	750:5	2.50	3.75	7.50			
	1000:5	5.00	7.50	10.00			
	1250:5	5.00	7.50	12.50			
	1500:5	7.50	10.00	15.00			
	2000:5	10.00	15.00	20.00			
	2500:5	15.00	20.00	25.00			
	3000:5	15.00	20.00	30.00			

Model	Nominal Current Ratio	Burden (VA)			Linearity Range	Opening mm (in)	WT kg
		Accuracy Class					
		0.5	1.0	3.0			
CTSB0812-	500:5	2.50	5.00	10.00	5%-120% of rated current	80 (3.15") x 120 (4.72")	1.25
	600:5	2.50	5.00	15.00			
	750:5	3.75	7.50	15.00			
	1000:5	5.00	10.00	20.00			
	1250:5	7.50	12.50	20.00			
	1500:5	7.50	15.00	25.00			

NOTES:
Accuracy Class 3 – The linearity range is from 50% to 120% of rated primary current.

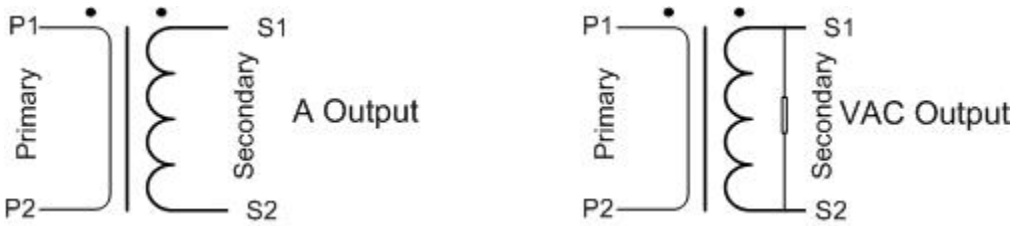
Optional configurations with a **1A secondary output** at rated primary current are available. Performance information for the 1A secondary option for a specific model is available by emailing Application Engineering - applicationengineering@tichenassociates.com .

Model	Nominal Current Ratio	Burden (VA)			Linearity Range	Opening mm (in)	WT kg
		Accuracy Class					
		0.5	1.0	3.0			
CTSB0816-	500:5	2.50	5.00	10.00	5%-120% of rated current	80 (3.15") x 160 (6.30")	4.30
	600:5	3.75	5.00	15.00			
	750:5	5.00	10.00	15.00			
	1000:5	10.00	15.00	20.00			
	1250:5	12.50	15.00	25.00			
	1500:5	15.00	20.00	25.00			
	2000:5	15.00	20.00	30.00			
	2500:5	15.00	20.00	30.00			
	3000:5	20.00	25.00	30.00			
	4000:5	20.00	25.00	30.00			
	5000:5	20.00	30.00	40.00			

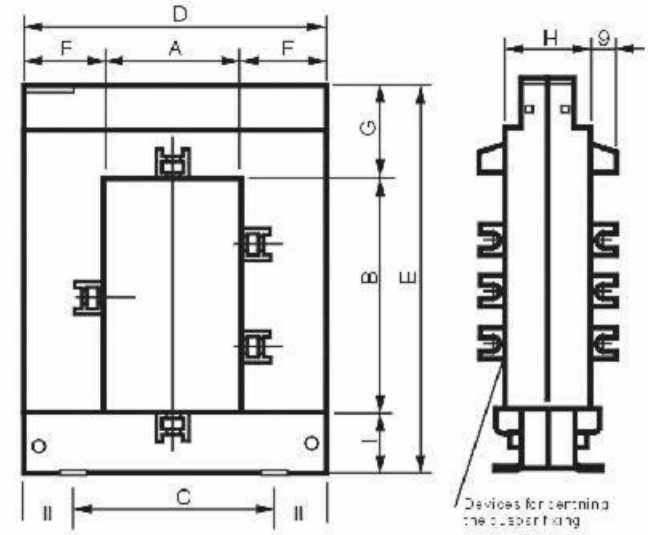
NOTES:
Accuracy Class 3 – The linearity range is from 50% to 120% of rated primary current.

Optional configurations with a **1A secondary output** at rated primary current are available. Performance information for the 1A secondary option for a specific model is available by emailing Application Engineering - applicationengineering@tichenassociates.com .

Polarity:



Outline Drawing:



Outline Dimension:

Model	Dimension mm(inch)									Weight (Kg)
	A	B	C	D	E	F	G	H	I	
CTSB0203-	21 (0.8”)	31 (1.2”)	51 (2.0”)	89 (3.5”)	105 (4.1”)	34 (1.3”)	42 (1.7”)	40 (1.6”)	32 (1.3)	0.78
CTSB0508-	50 (2.0”)	80 (3.1”)	78 (3.1”)	114 (4.5”)	145 (5.7”)	32 (1.3”)	32 (1.3”)	32 (1.3”)	33 (1.3)	0.90
CTSB0512-	55 (2.2”)	129 (4.9”)	108 (4.3”)	143 (5.7”)	191 (7.5”)	44 (1.7”)	36 (1.4”)	49 (1.9”)	30 (1.2)	2.20
CTSB0812-	80 (3.1”)	120 (5.1”)	108 (4.3”)	144 (5.7”)	185 (7.3”)	32 (1.3”)	32 (1.3”)	32 (1.3”)	33 (1.3)	1.25
CTSB0816-	80 (3.1”)	160 (6.3”)	120 (4.7”)	176 (6.9”)	247 (9.7”)	48 (1.9”)	48 (1.9”)	52 (2.0”)	38 (1.5)	4.40

Custom split-core current transformer designs are available to meet the specific application requirements. For a no obligation technical evaluation, please provide the specific performance requirements to engineering@tichenassociates.com or the address below.