

**Medium Voltage  
Current Transformer  
Model CTO Window Diameter 7.00"**



**APPLICATION:**

Metering and relaying.

**FREQUENCY:**

50-400 Hz.

**MAXIMUM SYSTEM VOLTAGE:**

For 15 kV and below applications.

**CONTINUOUS THERMAL  
CURRENT RATING FACTOR:**

Up to 1500:5 ratio

1.50 at 30°C., 1.00 at 55°C.

2000:5 to 3000:5 ratios

1.33 at 30°C. amb., 1.00 at 55°C.

4000:5 ratio

1.00 at 30°C. amb., 0.75 at 55°C.

Secondary terminals are brass screws No. 10-32 with one flatwasher and lockwasher.

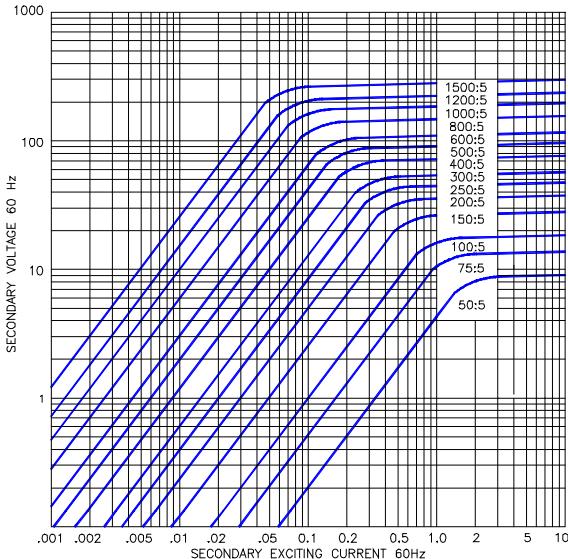
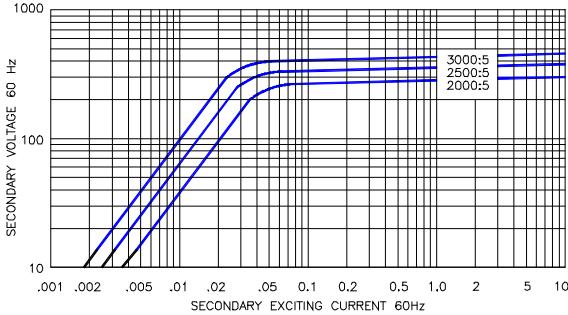
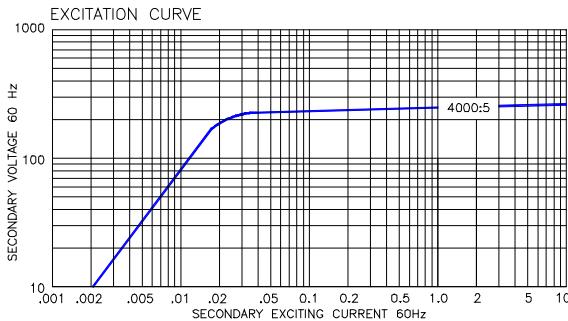
Vacuum cast polyurethane resin.

Steel mounting base.

Approximate weight 55 lbs.

CATALOG NUMBER	CURRENT RATIO	RELAY CLASS	ANSI METERING CLASS AT 60HZ						
			B0.1	B0.2	B0.5	B0.9	B1.8	B1.0	B2.0
CTO-500	50:5	-	4.8	-	-	-	-	-	-
CTO-750	75:5	C10	2.4	2.4	-	-	-	-	-
CTO-101	100:5	C10	1.2	1.2	4.8	-	-	-	-
CTO-151	150:5	C20	0.6	1.2	2.4	4.8	4.8	4.8	4.8
CTO-201	200:5	C20	0.6	0.6	1.2	2.4	4.8	2.4	4.8
CTO-251	250:5	C20	0.3	0.6	1.2	1.2	2.4	1.2	2.4
CTO-301	300:5	C20	0.3	0.3	0.6	1.2	2.4	1.2	2.4
CTO-401	400:5	C50	0.3	0.3	0.6	0.6	1.2	0.6	1.2
CTO-501	500:5	C50	0.3	0.3	0.3	0.6	0.6	0.6	0.6
CTO-601	600:5	C100	0.3	0.3	0.3	0.3	0.6	0.3	0.6
CTO-801	800:5	C100	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CTO-102	1000:5	C100	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CTO-122	1200:5	C100	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CTO-152	1500:5	C200	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CTO-202	2000:5	C200	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CTO-252	2500:5	C200	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CTO-302	3000:5	C200	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CTO-402	4000:5	C100	0.3	0.3	0.3	0.3	0.3	0.3	0.3

## Model CTO



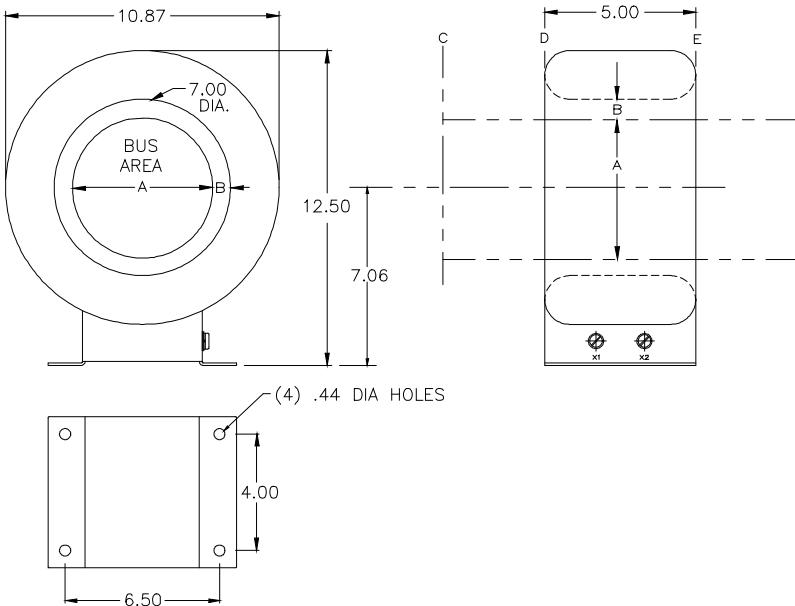
By itself the CT is rated 600 Volt class, 10kV BIL.

With suitable spacing and insulated bus, a higher voltage class, and impulse level can be achieved, including 5kV, 60kV BIL and 15kV, 110kV BIL.

The following applies **ONLY** after proper installation of bus bar.

CLASS	BIL	HI POT	A dia.	B min.	C-D	E-F	G min.
5kV	60kV	19kV	5.75"	0.62"	4.0"	4.0"	0.060
8.7kV	75kV	26kV	5.5"	0.75"	5.0"	5.0"	0.100
15kV	95kV	36kV	5.0"	1.0"	5.5"	5.5"	0.100
15kV	110kV	36kV	5.0"	1.0"	5.5"	5.5"	0.100
15kV	110kV	36kV	4.0"	1.5"	7.0"	7.0"	0.100

No sharp object should occur close to zones C-D and E-F. Only full radius edge bus bar is recommended. Zone A can accommodate (1) 1/2x 5 bus bar, or multiples of 1/2x4 with 1/2" spacing to suit. Other sizes like 1/4" and 3/8 can also be used.



The bus bar(s) must be effectively held within zone A, providing minimum spacing B all around. No bends or joints can occur in zones C-D and E-F. Bus bar coverage of suitable resin of thickness G, must be continuous from at least C to F with no breaks, pin holes or weak spots. CT's can be installed in tandem, with 1/2" spacing and observe zones C-D and F-F at either end.