



Transformer Characteristics <i>Accuracy: 0.3@B0.1..1.8 both ratios</i>			Catalog ID <i>Last three digits indicate options</i>			
Current Rating	Mechanical Rating kA RMS	1 sec Thermal Rating kA RMS	25 kV 150 kV BIL	34.5 kV 200 kV BIL	46 kV 250 kV BIL	69 kV 350 kV BIL
10/20:5	1.5	1.25	CA01500020T000	CA02000020T000	CA02500020T000	CA03500020T000
25/50:5	3.75	3.5	CA01500050T000	CA02000050T000	CA02500050T000	CA03500050T000
50/100:5	7.5	6.0	CA01500100T000	CA02000100T000	CA02500100T000	CA03500100T000
75/150:5	11.5	10.0	CA01500150T000	CA02000150T000	CA02500150T000	CA03500150T000
100/200:5	15.0	12.0	CA01500200T000	CA02000200T000	CA02500200T000	CA03500200T000
150/300:5	20.0	18.0	CA01500300T000	CA02000300T000	CA02500300T000	CA03500300T000
200/400:5	25.0	25.0	CA01500400T000	CA02000400T000	CA02500400T000	CA03500400T000
300/600:5	30.0	25.0	CA01500600T000	CA02000600T000	CA02500600T000	CA03500600T000
1000/2000:5	90.0	90.0	CA01502000T000	CA02002000T000	CA02502000T000	CA03502000T000
*1500/3000:5	90.0	90.0	CA01503000T000	CA02003000T000	CA02503000T000	CA03503000T000

Note: Standard metering transformers also meet C100/C200 classification. Contact factory for higher transformer burden rating.
*All models are designed to meet ANSI thermal rise requirements at a rating factor of 1.5 except 1500/3000:5 is RF=1.0

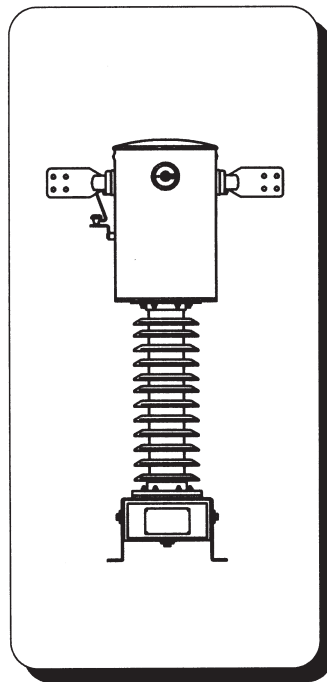
Application

The model CTO current transformer satisfies all metering accuracy requirements for burdens through B1.8 with accuracy of 0.3% on both ratios. Higher accuracy performance may be available depending on specific application needs. Relay performance corresponds to specific current rating and system short circuit requirements.

Application

Fabrication

Standard transformer tanks and bases are manufactured from mild steel, protected with a latest technology powder coated exterior finish suitable for withstanding the most rigorous environmental conditions. Stainless steel components are available for special order needs. Porcelain insulators are one-piece wet process type designed to exceed IEEE standard creep and strike distances. Cast malleable iron flanges are cemented to the insulator to provide long life mechanical strength with suitable cantilever for high wind locations.



Magnetic circuits

Standard transformers are supplied with one magnetic circuit, however, several independent magnetic circuits may be provided. Physical dimensioning may limit output capabilities.

Primary terminals

Primary terminals suitable for copper or aluminum bus connections are conveniently located at the top of the transformer for hookup to high voltage lines. Gaskets are made from Buna-N, and captivated to provide durable, leak free seals. The H1 terminal is provided with a by-pass protector to safeguard primary turn-to-turn insulation sometimes stressed by voltages developed during high frequency, high current surges.

Secondary terminals

Each secondary winding connection is made to a short-circuiting block conveniently mounted in the low voltage compartment in the base of the transformer. The weather proofed secondary terminal box is provided with three 1 1/2" conduit openings.

Drying and impregnation

In order to achieve the highest possible insulation integrity, transformers are dried out and impregnated with transformer oil under vacuum in order to minimize moisture content. Dissipation factor readings are checked on each transformer at final test to insure proper drying has been achieved.

Accuracy

Every metering transformer is checked for accuracy at various stages of manufacture. Comparisons are made with standards traceable to NIST to validate accuracy performance. Relay ("C" classification rating) is verified by excitation measurements.

Testing

Every transformer is tested in accordance with IEEE STD C57.13 (Latest revision). In addition ITEC tests each unit in accordance with NEMA 107. Extinction levels are required to be a minimum of 35% above operating voltage for all transformers. Certified test reports are available if requested for a fee.

OIL-11

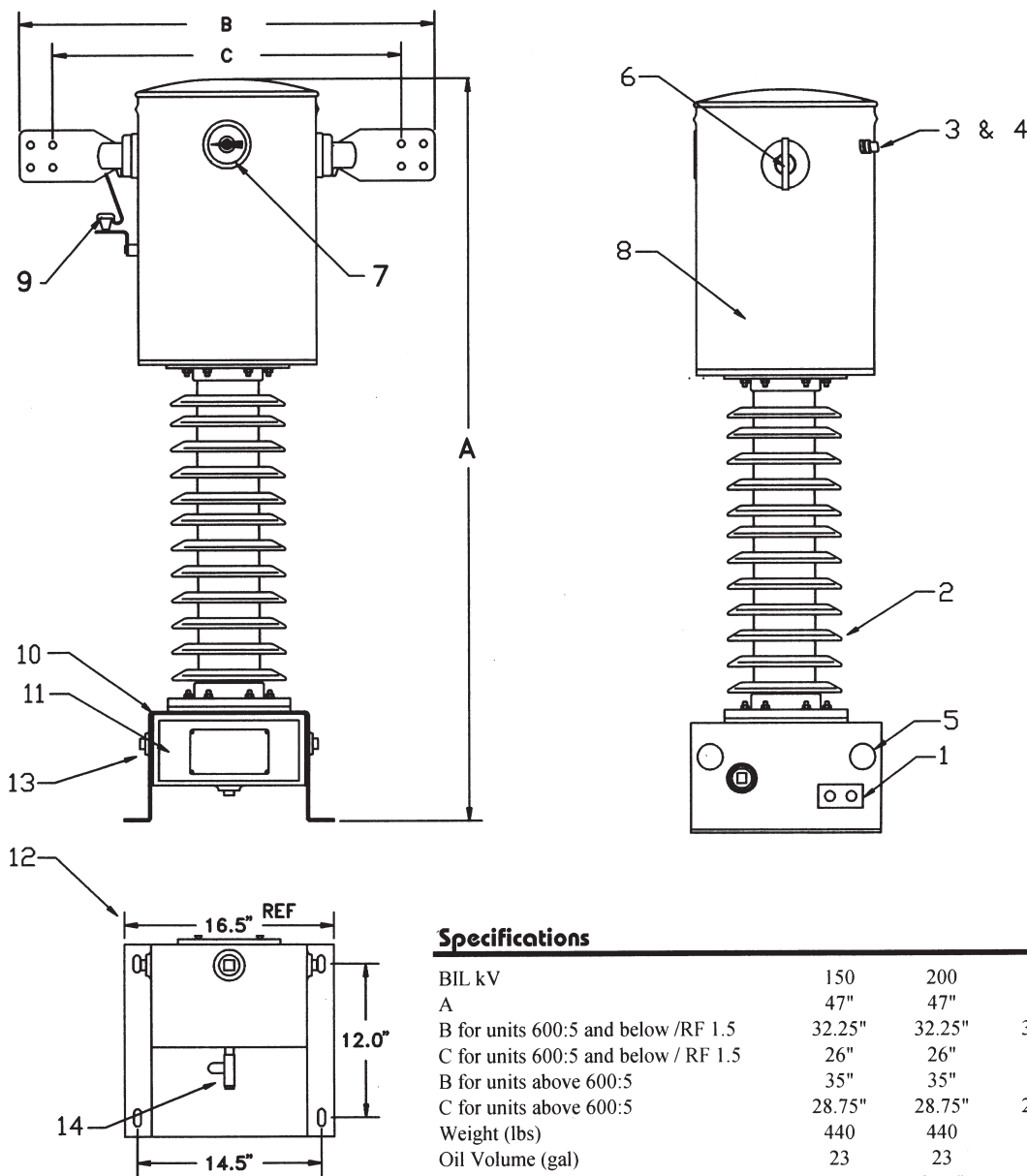
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Specifications

BIL kV	150	200	250	350
A	47"	47"	50"	58"
B for units 600:5 and below /RF 1.5	32.25"	32.25"	32.25"	32.25"
C for units 600:5 and below / RF 1.5	26"	26"	26"	26"
B for units above 600:5	35"	35"	35"	35"
C for units above 600:5	28.75"	28.75"	28.75"	28.75"
Weight (lbs)	440	440	450	500
Oil Volume (gal)	23	23	23.5	25
Min. Creep	27.5"	27.5"	37"	52"
Min. Strike	12"	12"	15"	23"

Description

This information is subject to change without notice. Not responsible for typographical errors.

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|---|---|--|
| 1. 2-hole NEMA Standard ground pad. | 6. Primary terminal 4-hole NEMA pad. | 11. Terminal box cover plate with a stainless steel nameplate. |
| 2. Porcelain insulator, glaze ANSI 70 light gray. | 7. Oil level indicator. | 12. (4) 0.62" x 1.5" baseplate mounting slots. |
| 3. Pressure relief valve. | 8. Welded steel tank w/XXX denoting 2" stenciled ratio. | 13. Secondary terminal box w/ 1.5" conduit opening. |
| 4. 3/4" NPT vacuum port. | 9. Bypass protector. | 14. 1/2" drain valve. |
| 5. Lifting eyes. | 10. Mild steel base. | |

OIL-12 This unit is top heavy and should be lifted as directed by the instruction manual.

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