

Type CVC-150

Outdoor combined transformer

Product features

- For outdoor use
- 25 kV, 60 hertz
- 150 kV BIL
- Electrical characteristics:
 - Strike: 27.5" (699 mm)
 - Creep: 47.5" (1209 mm)

Application

The CVC-150 is a combination unit that consists of a current transformer (CT) and voltage transformer (VT) in one body. It is designed for metering applications and can be pole-mounted or used in substations. The combined unit provides the customer with both cost and space savings, as well as reduced installation time.

Construction

In the current transformer, primary and secondary windings are assembled around a toroidal wound core. The voltage transformer primary and secondary coils are wound using special winding and shielding techniques for improved voltage stress distribution. Each coil is insulated with mylar film to provide a high dielectric strength between layers. The coils and core are combined to create a complete winding structure that is assembled to a support frame. The entire assembly is vacuum cast in polyurethane for insulation and protection.

Terminals

Primary terminals are electro-tin plated copper. The current transformer secondary connections are clamp-type and accommodate #14 to #1 AWG wire. The voltage transformer secondary connections are clamp-type and accommodate #13 to #3 AWG wire.

Junction box

The junction box, provided with 1" conduit connections on three sides, encloses the secondary terminals.

Baseplate

The baseplate is constructed of corrosion-resistant aluminum and is secured to the encapsulated base support.



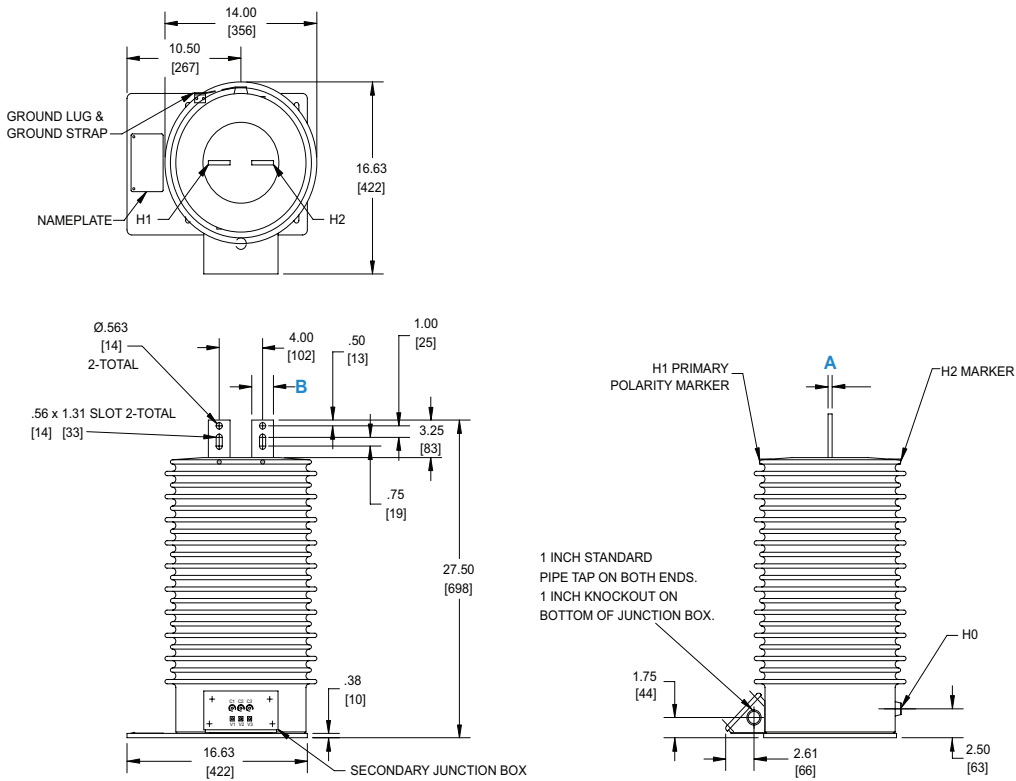
Test reports

Test reports are stored electronically and can be e-mailed in various formats at the time of shipment.

Standards

This unit can be tested to all applicable IEEE, CSA, or IEC standards as requested.

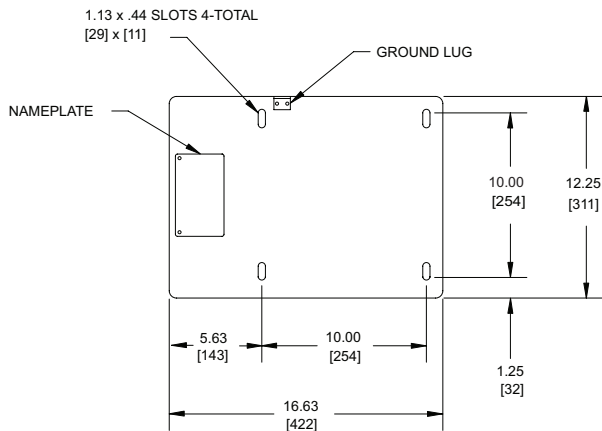
Unit dimensions



Unit dimensions

Rating	A		B		Weight (lbs)
	(in)	(mm)	(in)	(mm)	
5/5 - 150/5 A	.250	6	1.5	38	225
200/5 - 800/5 A	.375	10	2.0	51	225

Baseplate dimensions



Current transformer					Voltage transformer				
Ratio	Rating factor @ 30°C	Accuracy		Mechanical rating	Ratio*	Accuracy		Thermal rating	Style number
		C1-C3	C2-C3			V1-V3	V2-V3		
10/20	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G01
25/50	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G02
50/100	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G03
75/150	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G04
100/200	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G05
150/300	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G06
200/400	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G07
300/600	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G08
400/800	3.0/1.5	0.3B-2.0	0.3B-0.9	270/140	60/120:1	0.3X	0.3Y	400/750	7883A71G09

Additional styles available upon request. Contact your ABB sales representative or call +1-252-827-3212 for more information.

* Note: 7200/14400:120 voltage for line-to-ground only

CT shorttime rating:

Thermal: nominal rating x 100

For more information please contact:

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Note:

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