

INSTRUMENT TRANSFORMERS

CBT/1 and CBT-H

Indoor or outdoor current transformers



The CBT/1 and CBT-H bar-type current transformers are designed for use in metering 600 volt circuits.

Product features

- 600 Volt, indoor or outdoor
- 10 kV BIL, 25 - 60 Hertz
- Non-removable primary bar can be rotated

Application

The CBT/1 and CBT-H bar-type current transformers are designed for use in metering 600 volt circuits. For metering accuracy, the CBT/1 is rated to B-0.2, whereas the CBT-H is rated to B-0.5

Construction and insulation

The ring-type core and fully distributed winding are assembled to a glass filled polypropylene window liner and injection molded in thermoplastic rubber. The thermoplastic rubber insulating material is permanently molded to the core and coil assembly, resulting in a compact unit with excellent mechanical, thermal, and dielectric characteristics.

Secondary terminals and shorting device

The CBT/1 and CBT-H transformers are supplied with embedded compression-type secondary terminals, a short circuit device, and a clear, rectangular snap-on cover suitable for locking with a meter seal. This clear plastic cover allows a visual check of connections and is keyed to ensure the shorting clip is across the ter-

minals when no wires are connected. This safety feature avoids dangerous voltages across the secondary terminals if the primary is energized. Terminals accommodate #14-6 wire and can also serve as a post-type connector by looping wire under the screw head.

Primary bar

The primary copper bar is electro-tin plated and can be rotated for convenient positioning of the transformer. It is equipped with a potential terminal suitable for #6 to #14 wire.

Base

The optional base is constructed of corrosion-resistant aluminum and secured to the encapsulated base support by four symmetrically located screws. Units ordered without a base are not equipped for future base mounting.

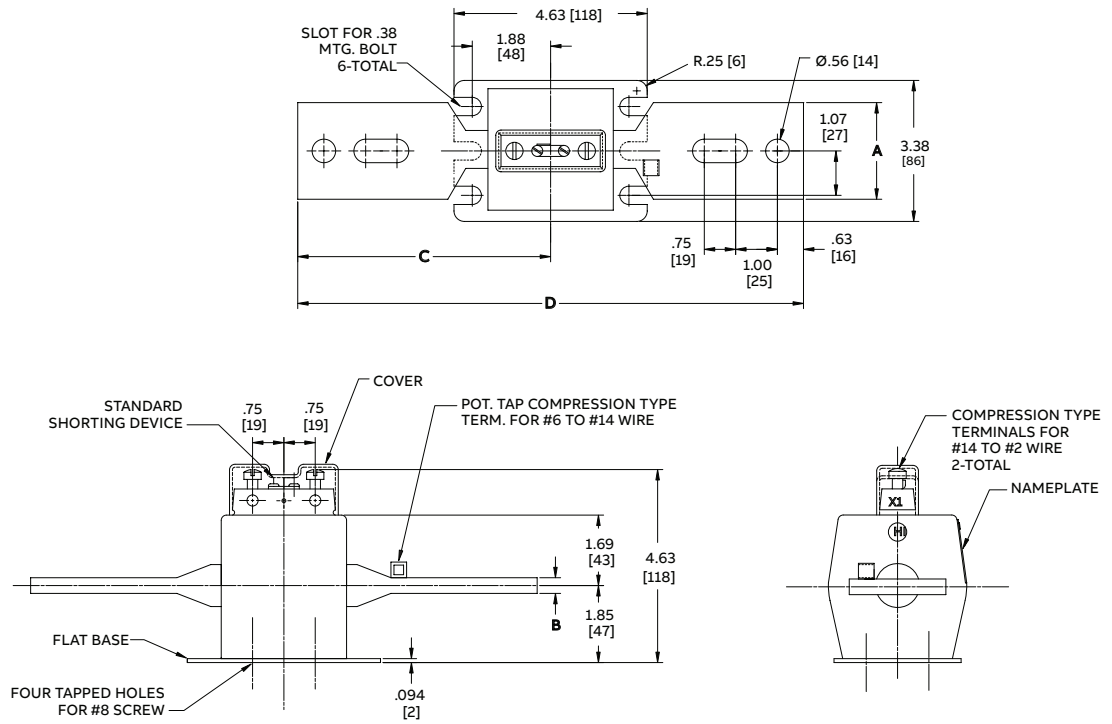
Test reports

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

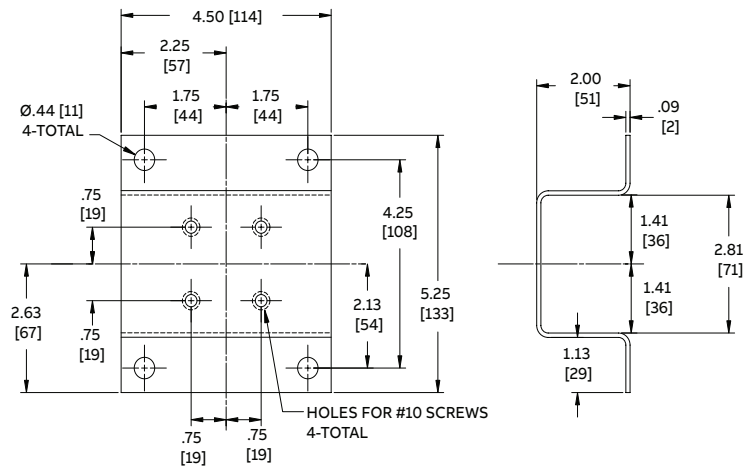
Standards

This unit meets or exceeds all requirements of IEEE C57.13-2016 and can be tested to other standards as requested.

Dimensions (inches [mm])



Primary ampere rating	Dimensions								Weight			
	A		B		C		D		CBT/1		CBT-H	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)	(lb)	(kg)
100	1.590	40	0.125	3	5.94	151	11.88	300	3.9	1.8	4.2	1.9
200	1.562	40	0.125	3	5.94	151	11.88	300	2.8	1.3	4.2	1.9
300	1.562	40	0.125	3	5.94	151	11.88	300	3.1	1.4	3.4	1.5
400	1.500	38	0.250	6	5.94	151	11.88	300	3.1	1.4	3.4	1.5
500	2.375	60	0.281	7	5.94	151	11.88	300	3.8	1.7	4.3	1.9
600	2.375	60	0.281	7	6.06	154	12.13	308	4.0	1.8	4.4	2.0
800	2.375	60	0.281	7	6.06	154	12.13	308	4.0	1.8	4.4	2.0



High base

Selection guide

Primary ampere rating	Rating factor		IEEE metering accuracy @ 60 Hz	Style number		
	30°C	55°C		No base	Flat base	High base
Type CBT/1						
100	4.0	3.0	0.3B-0.1	7882A77G01	7882A77G02	7882A77G03
200	2.0	1.5	0.3B-0.2	7882A77G04	7882A77G05	7882A77G06
200	4.0	3.0	0.3B-0.2	7882A86G12	7882A86G04	7882A86G14
300	2.0	1.5	0.3B-0.2	7882A77G07	7882A77G08	7882A77G09
400	2.0	1.5	0.3B-0.2	7882A77G10	7882A77G11	7882A77G12
500	2.0	1.5	0.3B-0.2	7882A77G13	7882A77G14	7882A77G15
600	2.0	1.5	0.3B-0.2	7882A77G16	7882A77G17	7882A77G18
800	1.5	1.2	0.3B-0.2	7882A77G19	7882A77G20	7882A77G21
Type CBT-H						
200	2.0	1.5	0.3B-0.5	7882A78G04	7882A78G05	7882A78G06
300	2.0	1.5	0.3B-0.5	7882A78G07	7882A78G08	7882A78G09
400	2.0	1.5	0.3B-0.5	7882A78G10	7882A78G11	7882A78G12
500	2.0	1.5	0.3B-0.5	7882A78G13	7882A78G14	7882A78G15
600	2.0	1.5	0.3B-0.5	7882A78G16	7882A78G17	7882A78G18
800	1.5	1.2	0.3B-0.5	7882A78G19	7882A78G20	7882A78G21

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

ABB Inc.
3022 NC 43 North
Pinetops, NC 27864
Phone: +1 252 827 3212

abb.com/mediumvoltage

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB Inc.
Copyright© 2019 ABB
All rights reserved