Technical Data Sheet

Core Balance Current Transformer



E472409

Special Features

- Conformity to Standard IEC 61869-1
- Compact design, Reliable and accurate.
- Designed to detect earth leakage current and transmit proportional signal o an Earth Leakage Relay
- UL approved CBCT.
- Common wall mounting clamp or all sizes.
- Sealable cap for secondary terminal connections. (Maximum sealing wire diameter should be 1.8mm)

Specification

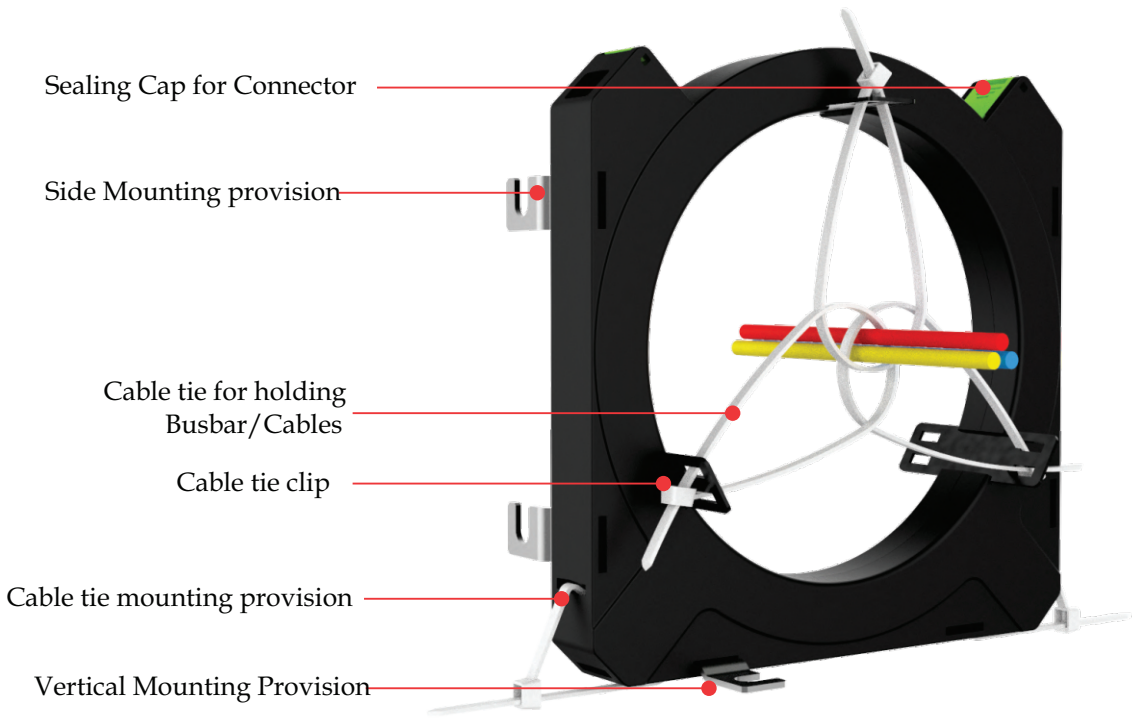
Insulation Coordination	According to IEC 60664 - 1
Case	Nylon 6, 20% GF, FR (30) Black
Insulation Class	E (120°C max)
Connection **a) Value** **b) Wire Range**	Screw Type Terminal Connection M2.5, 0.4Nm 0.5mm² (suitable for pin type lug)
CT Ratio	600:1
Highest voltage for equipment (Um)	0.72 kV Maximum
Test Voltage	3kV, 50 Hz for 1 minute
Rated Frequency (fr)	50/60 Hz
Operating Current Range	30 mA - 30 A
Rated Continuous Thermal Current (Icth)	100 A
Rated short-time thermal current (Ith)	60 x Ipr
Rated dynamic (peak withstand) current (Idyn)	2.5 x Ith
Ambient Temperature	-25°C to 55°C
Storage temperature	-50°C to 80°C
Distance between ELR & CBCT	< 1 meter
Accuracy Class	3 & 15
Secondary Terminal	Protected to IP20

****CBCT with spring loaded connector available on request (without UL marking)**

Product Sizes and Weights :

Name	Size	Weight
CBCT 38	38-71 (20)	0.26 Pound
CBCT 57	57-97 (20)	0.33 Pound
CBCT 70	70-109 (20)	0.40 Pound
CBCT 120	120-153 (20)	0.64 Pound
CBCT 210	210-250 (20)	1.12 Pound

Product Features :



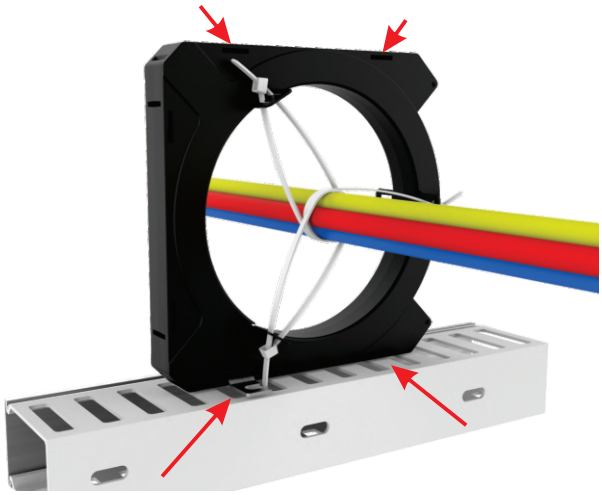
Model↓ /Features →	Mounting clamp for vertical mounting	Mounting clamp for Horizontal mounting	Cable Tie for vertical mounting	Cable Tie for Busbar Mounting Clip	Terminal Cap
CBCT 38	✓	✘	✓	✘	✓
CBCT 57	✓	✓	✓	✘	✓
CBCT 70	✓	✓	✓	✘	✓
CBCT 120	✓	✓	✓	✓	✓
CBCT 210	✓	✓	✓	✓	✓

Product Features :



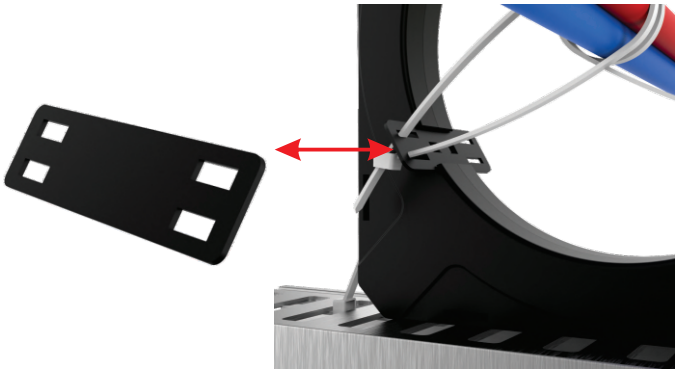
- **Cap for Connector**

  Protective cap for connectors on either side of the CT ensures that the terminal is well covered from external entities. The cap also contains provision for sealing.



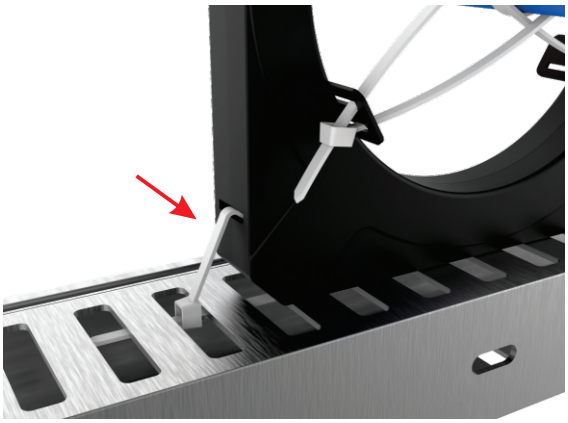
- **Side Mounting Provision**

  CBCT can be mounted both horizontally as well as vertically considering the practical challenges occured while on site installation.



- **Cable tie Clips**

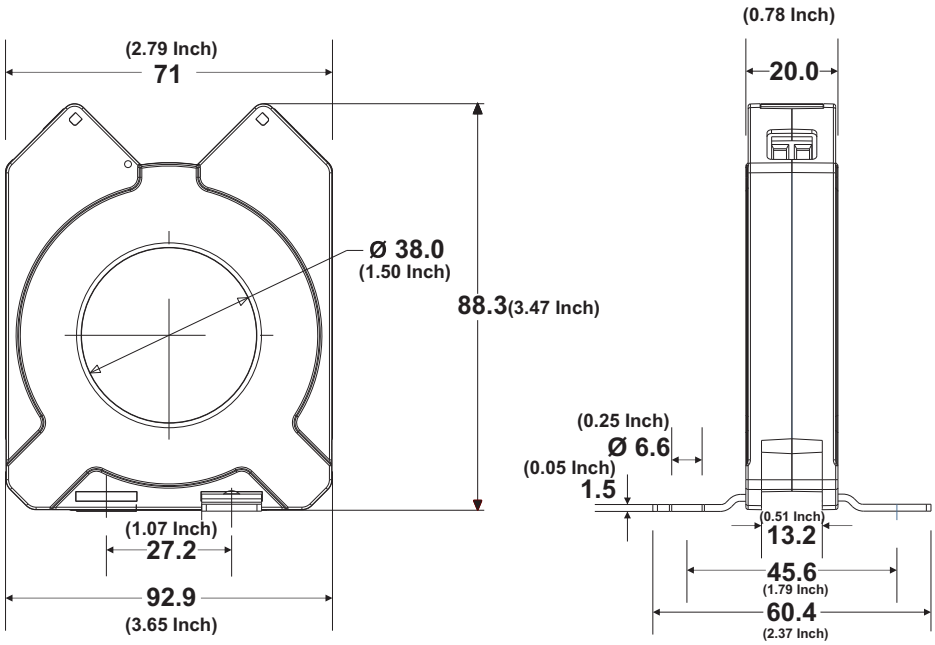
  Cable tie clips are located on the CT to ensure that the busbar/cable is centrally aligned so as to get absolute output. The Cable tie clip should be ordered seperately



- **Vertical Cable Tie Mounting**

  Vertical mounting is basically provided in all categories of CT, although vertical mounting with the help of cable tie gives more flexibility while on site installation.

CBCT 38

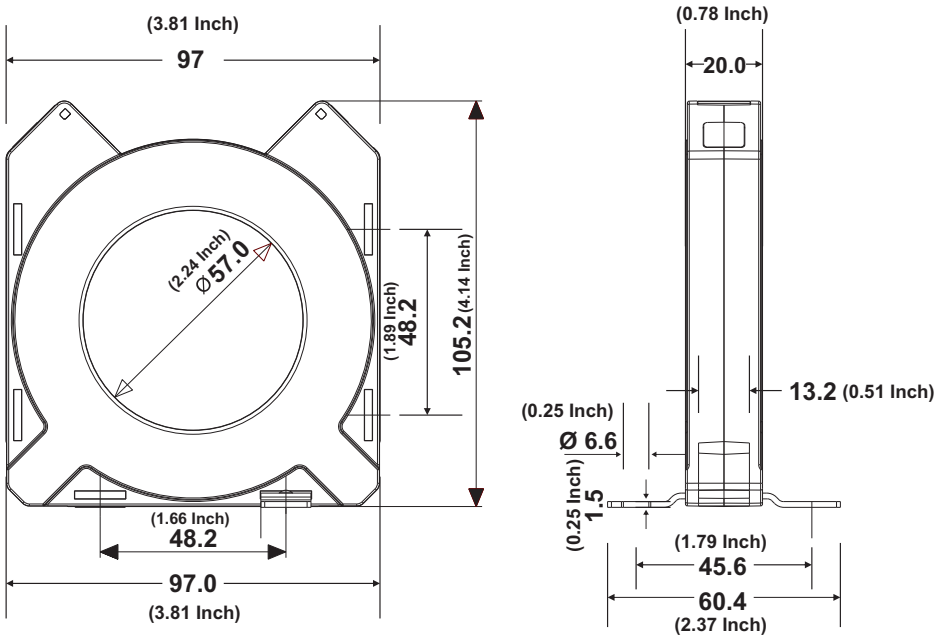




Ordering Code

CB08-01010000000ST	S CBCT 38/71/20 30MA-30A 600:1

CBCT 57

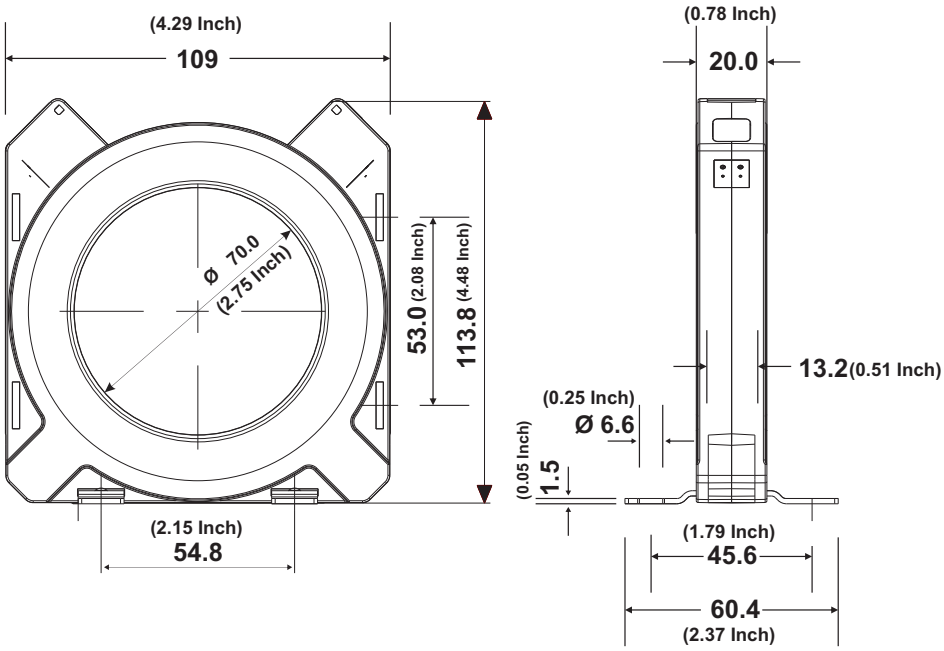




Ordering Code

CB09-01010000000ST	S CBCT 57/97/20 30MA-30A 600:1

CBCT 70

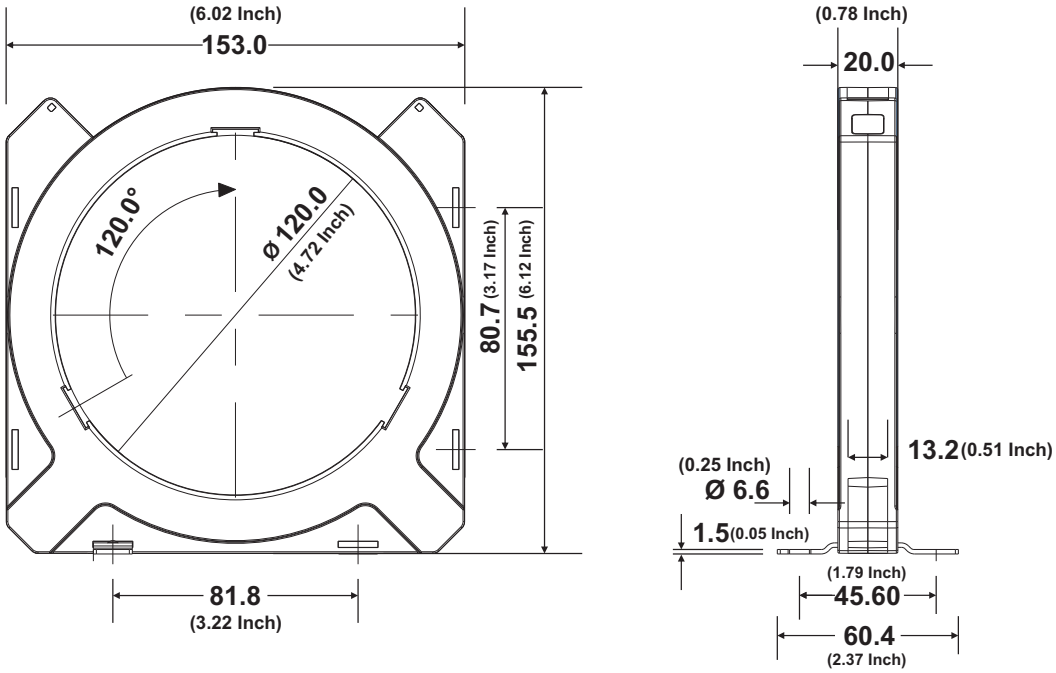




Ordering Code

CB10-01010000000ST	S CBCT 70/109/20 30MA-30A 600:1

CBCT 120

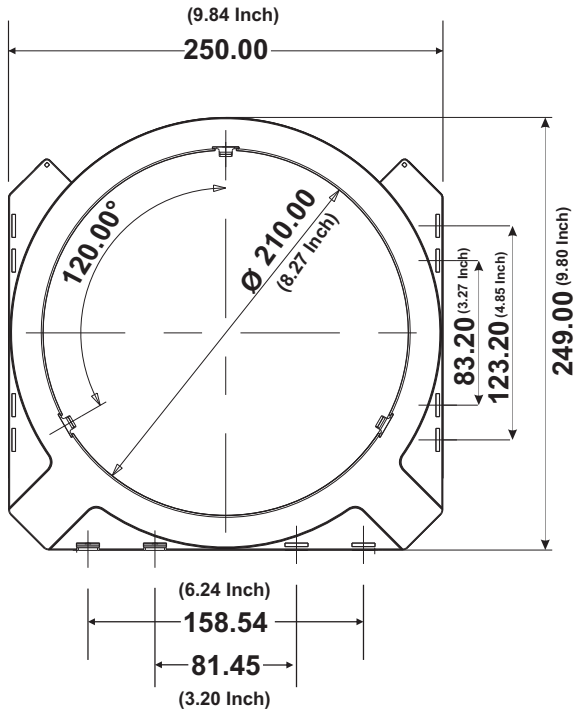


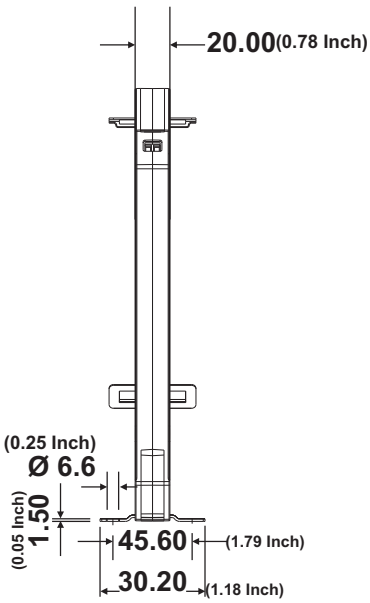


Ordering Code

CB11-01010000000ST	S CBCT 120/153/20 30MA-30A 600:1

CBCT 210







Ordering Code

CB12-01010000000ST	S CBCT 210/250/20 30MA-30A 600:1

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