

Core Balance Current Transformer (CBCT)

DESCRIPTION

The CBCT, also known as a zero sequence CT, is used for earth leakage and earth fault protection. The concept is similar to the RVT. In the CBCT, the three core cable or three single cores of a three phase system pass through the inner diameter of the CT.

When the system is fault free, no current flows in the secondary of the CBCT. When there is an earth fault, the residual current (zero phase sequence current) of the system flows through the secondary of the CBCT and this operates the relay. In order to design the CBCT, the inner diameter of the CT, the relay type, the relay setting and the primary operating current need to be furnished

Specifications

Input Specifications

- ✦ Current Transformer Type : Core Balance Current Transformer
- ✦ Operating Current Range : 10mA - 30A

Environmental Specifications

- ✦ Temperature : Operating Temperature 0^o to 55^o C
Storage Temperature -20^o to 75^o C
- ✦ Humidity (non - condensing): Upto 95% RH

Mechanical Specifications

- ✦ Mounting : Panel
- ✦ Wire Size (max) : 0.2 - 1.5mm (AWG : 24 - 14)
- ✦ Screw Tightening Torque : 0.5 N.M



Ordering Information

Part No.	Inner Diameter
CBCT - 30	30 mm
CBCT - 80	80 mm
CBCT - 115	115 mm
CBCT - 210	210 mm
CBCT - 310	310 mm

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