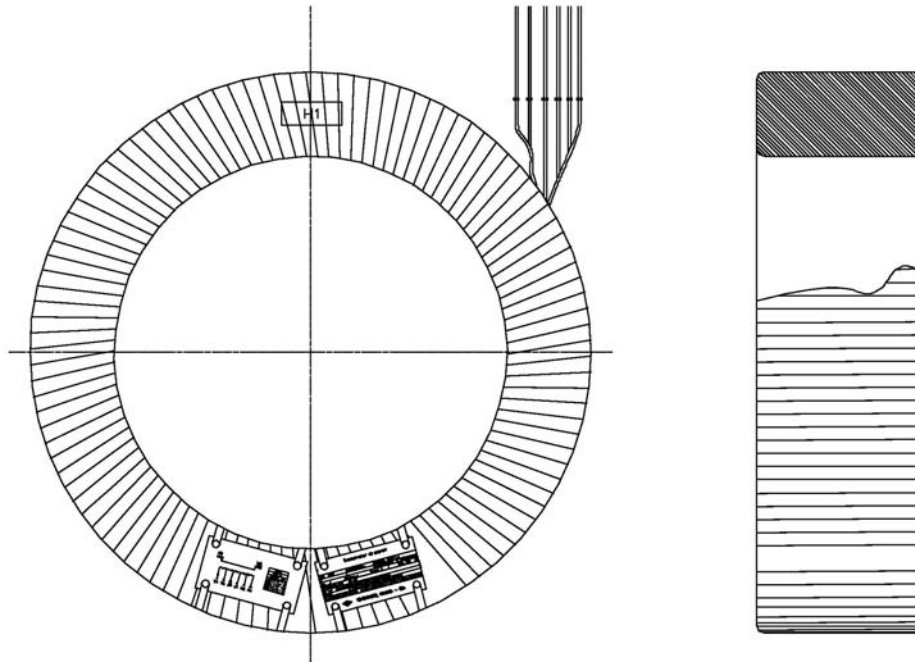

Instruction Book

INDOOR BUSHING CURRENT TRANSFORMER BCT



name: ZR

date: 01.21.2004

revised:

revision:

ident.-no.

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Indoor BCT - IBIBCT

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1 GENERAL DESCRIPTION

- Window type design
- Toroidal, low stray flux core design
- Dry type, indoor use
- For mounting on busbars or clamps
- In accordance with all national and international standards. This includes ANSI, IEC, AS, BS, CSA, NBN, OVE, SEN, SEV, VTE, VDE, and any special requirements.

2 DESIGN CRITERIA

2.1 DESIGN

Several cores can be combined to form one unit. Each core has one secondary winding with single, dual or multi-ratio. The unit can be equipped with a compensation winding.

The cores are taped with B-stage glass tape or are cast in polyurethane. They could be mounted on a phenolic or glastic board.

All hardware and mounting parts are made from stainless steel or aluminum.

2.2 PRIMARY BAR

The primary bar is the busbar or the generator clamp. The bar has to run exactly axial through the center of the BCT window. The external insulation of the BCT is rated for 0.6 kV. According to the bar potential keep sufficient clearance between the inner diameter of the window and the bar (air insulation).

2.3 SECONDARY TERMINALS

Secondary terminals usually are not provided, except where requested. The lead-outs are marked.

3 TRANSPORTATION INSTRUCTIONS

Transport the transformer is typically in horizontal position. Move the transformer on the skid or by lifting with a sling. Do not use steel ropes, but nonmetallic slings.

Wrap the slings around the BCT at two (2) places as shown in Figure 1. Refer to the outline drawing for weight and dimensions.

Store the unit in a dry place in horizontal position.

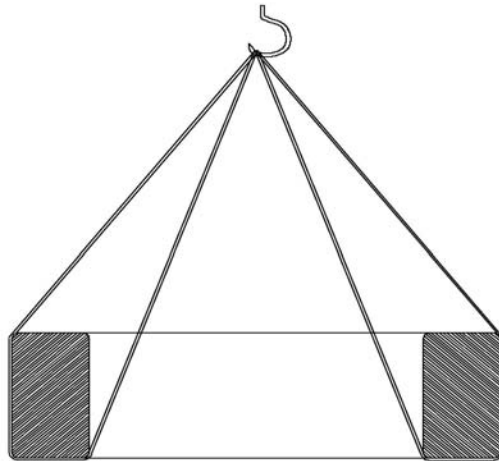


Figure 1

4 INSTALLATION AND CONNECTION

The transformer can be mounted in any position. Typically no mounting holes or lugs are provided. See the outline drawing for the size and weight of the unit.

Connect the secondary lead-outs according the labeling.

**ATTENTION: DO NOT LEAVE ANY SECONDARY WINDING OPEN CIRCUITED!
HIGH VOLTAGE AND DAMAGE MAY RESULT!**

4.1 COMMISSIONING

- The transformer is shipped complete assembled. No field testing is required unless the unit is damaged during shipment.

INSTRUCTION BOOK

- Ensure the lead-outs are clean and not damaged.
- Check for any stray wire or connections that would introduce a short circuit into the transformer.
- Make sure that no secondary winding is open circuited.
- Confirm all intended groundings.
- Verify all connections are tight.
- After correct installation and connection (primary centered in window) the transformer is ready for service.
- If any problems are encountered, contact:

5 MAINTENANCE

The transformer is maintenance free. However there should be a visual inspection during the normal scheduled maintenance periods. The connections should be checked for cleanliness.