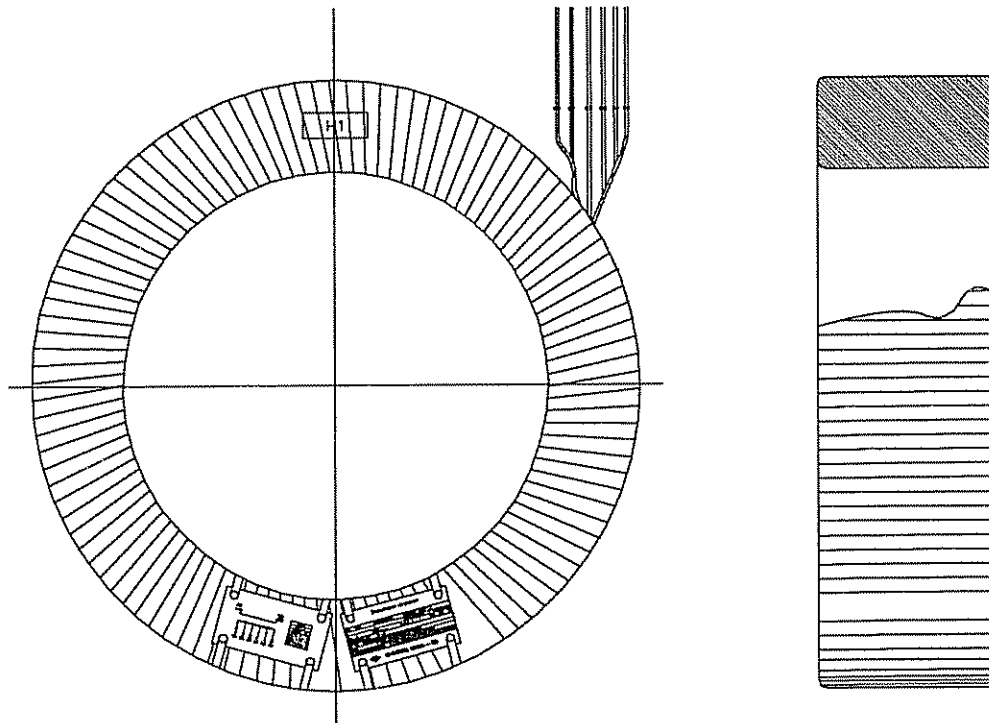

Bushing Current Transformers

IBCT



General Description

IBCT type bushing current transformers can be custom designed for use with power transformers, dead-tank circuit breakers, and generators and in other specialized applications where the CT can be fitted around the conductor in a protected environment.

Ritz is specialized in engineering custom solutions for difficult measuring or protection applications. Please contact your Ritz representative in order to discuss your specific needs and to receive advice on the options available to you.

Construction

The IBCT normally consists of a toroidal core made from rolled Silicon steel, selected for low losses and high magnetic permeability. Several cores can be combined to form one unit. The core is covered by phenolic rings, unto which RMR (rag-mylar-rag) material is wound to insulate the core from the secondary coil. A layer of mylar is wound between each layer of the secondary winding. The outer insulation normally consists of B-stage resin treated glass cloth tape applied upon a layer of RMR material. The assembly is cured to guarantee the highest mechanical and dielectric strength.

The cores may be mounted on a phenolic or glastic board. All hardware and mounting parts are made of stainless steel or aluminum.

Each core can have one secondary winding with single, dual or multi-ratio.

Flexible, oil-proof leads are used and can be cut to length, as specified. Alternatively secondary terminals such as ring tongue type with 10-32 screws can be provided.

Ratings

IBCT can be designed to meet all major standards (i.e. IEEE, IEC, BS, AS, etc...), with both metering and relaying accuracies. Non-traditional high accuracy, extended range options may also be available.

Please specify the following when soliciting an offer or ordering:

- Maximum outer diameter, minimum inner diameter, and maximum height
- Applicable standard
- Ratio
- Accuracy/Burden
- Lead Length /Terminal Requirements
- Any special mounting or environmental considerations.

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