
VOLTAGE TRANSFORMER INSULATION POWER FACTOR TESTING

It is a common practice to use the insulation power-factor to evaluate the condition of the insulation system of wound-type voltage transformers.

When performing these tests, certain precautions should be taken in order to ensure meaningful measurements, as follows:

- Each secondary winding must be grounded at one end only. Care should be taken not to short-circuit the windings, as Ritz voltage transformers may be shipped with the non-polarity end of the secondary windings grounded by means of the grounding screw on the terminal block.
- The voltage transformer tank must be grounded.
- The insulator must be cleaned. Do not use alcohol-based cleaning solutions (i.e. Windex) to clean the insulator, as they may leave a conductive residue on the surface of the insulator.
- The test should be performed in as dry of an environment as possible. If the test is performed outside, ensure that the test set being used corrects the results to a 20⁰ C base value.

Please consult the factory for further information of performing insulation power-factor tests on wound-type voltage transformers.