

Jefferson Electric Transformers



Jefferson Electric makes sure our products are fully tested to ensure a quality product. Standard tests are done on every Jefferson Electric Transformer.

Tests Include:*Ratio:**

The ratio of the number of turns in a higher voltage winding to that in a lower voltage winding. This test confirms the ratio of input voltage to output voltage is correct.

Core Loss:

Evaluation of no load wattage at rated primary voltage to confirm the core loss. This test confirms the unit meets design requirements.

Hi-Pot:

Abbreviation for high potential, used to verify electrical insulation in finished transformers. This test checks for electrical shorts.

Induced:

Check the insulation between turns, layers and sections of a winding. This test checks for electrical shorts.

Polarity:

To check the alignment or orientation of a circuit in relation to the parallel or banking of transformers. This test checks the primary and secondary phase relations are correct.

Optional Tests:*Temperature Rise:**

Tested to point of steady temperature condition to confirm unit meets required temp rise.

Sound Level:

Background noise level measured and unit powered at rated voltage and frequency under no-load conditions to confirm unit meets NEMA ST-20 requirements.

Full Load Losses:

Test of load carried by transformer at a specific frequency.

Impedance: The measure of the opposition to time-varying electric current in an electric circuit

Efficiency:

Running different load tests to confirm unit meets efficiency requirements of TP1 or CSA802.2-00.

*Certified test reports can be provided

Note: Additional Costs Apply for all optional testing and certified testing.

Source: Definitions of IEEE Standard Test Codes