

Jefferson Electric Offers Dry-Type Power Transformers!

Jefferson Electric's power transformers offer an economical alternative for industrial facilities and process lines, drilling and mining installations and commercial power applications. Designed for indoor or outdoor installations, Jefferson Electric will customize each unit to meet your specifications.

Applications Include:

- Malls and Commercial Buildings
- High Rise Buildings
- Industrial Facilities
- Manufacturing Process Lines

General Specifications:

- 5 kV Class : 150kVA to 10 MVA
- 15 kV Class: 150kVA to 10 MVA
- 25 kV Class: 300kVA to 10 MVA
- NEMA 1
- Three-Phase, 60 Hz
- Standard 150°C rise, 220°C Insulation
- Aluminum windings
- Energy efficient (meets TP-1)
- Taps: 4 taps at 2.5%, 2 above and 2 below rated voltage
- Impedance and audible sound level designed to CSA C9 and C22.2-47 standard
- Designed to, UL, ANSI and NEMA standards

Optional Features:

- Copper Windings
- 50 Hz
- Electrostatic shielding
- Temperature rise: 80°C and 115°C
- Terminals with flexible connectors
- Lightning arrestors
- Grounding resistor
- Digital thermometer and monitor
- Enclosure NEMA 3R
- Custom Design
- Forced air cooling fans
- Multiple Secondaries
- Rectifier, Traction, Mining Duty



Jefferson Electric Offers Dry-Type Power Transformers!

Standard Production Test

- Winding resistance
- Voltage ratio
- Polarity
- Exciting current
- Core Loss
- Load loss and impedance
- Tested to UL and CSA Standards



V.P.I. Process (Vacuum Pressure Impregnation)

- The V.P.I. process ensures the encapsulant materials penetrate the windings and eliminate air-pockets. The V.P.I. process improves mechanical strength and heat dissipation prolonging a transformers life expectancy.

Coil

- Multi-section barrel or disk design to reduce short circuit stress.
- Designed to maximize cooling characteristics.
- Foil winding on low voltage coils to minimize short circuit forces.
- Core and coil isolated with neoprene pads to reduce vibration and noise.
- Heavy gauge sheet steel construction enclosures

Core

- The core consists of high quality electrical grade steel with low specific losses.
- Core laminations are free of burrs and stacked without gaps.
- Cores are bolted to ensure uniform pressure to minimize noise and maximize durability

