
Typical specifications for Trench shunt reactors would include the following:

- Air core, dry type construction.
- Epoxy impregnated, fiberglass encapsulated windings.
- Aluminum conductor with current carrying terminations being welded.
- Duct sticks, used to provide axial cooling, manufactured from polyester resin fiberglass filaments.
- Essentially zero radial voltage stress, with inductively graded axial voltage distribution and or geometrically compensated conductor profile.
- Rated voltage across coil surface well below level which could lead to partial discharges and subsequent deterioration of the external insulation, even after wet weather conditions.
- Rated turn to turn voltage well below level which could lead to partial discharges and subsequent deterioration of the internal insulation.
- Reactor losses to be optimized in accordance with customer loss evaluation figures (energy cost).
- Noise level of typically 60dB (on A scale) maintained throughout life of reactor, without adjustment, with largest reactors not to exceed 70dB.
- Reactor to be supplied with appropriate mounting pedestal constructed of non-magnetic material (ie. fiberglass, stainless steel, aluminum, etc.) to provide necessary magnetic and ventilation clearances.
- Special service conditions for reactor to be specified (ie. ambient temperatures above 40 deg. C, altitudes above 1000 meters, continuous voltages above 105% of system voltage, etc.).
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