PQI Reactor

PQI Air Core Reactor™

Cast Epoxy & Resin Impregnated
(Up to 35,000V, 150kV BIL)

APPLICATION

- Shunt Reactors to Compensate for Capacitive VARS
- Current Limiting Reactors
- Filtering Reactors
- Neutral Grounding Reactors
- Designed Utilizing Specifically Developed Finite Analysis Software

CONSTRUCTION

Windings are manufactured with aluminum or copper, (strip or shaped conductors in parallel where necessary) arranged on layers or discs with special consideration given to minimize eddy current losses. The insulating materials used during production are always UL listed systems. To suit various applications and environmental conditions PQI Dry Type Air Core Reactors are manufactured using our multiple VPI and Epoxy Impregnation system. For harsh conditions PQI offers Reactors that are solidly cast in epoxy in special molds filled under vacuum.

Reactors can be supplied either as single-phase coils individually supported on insulators or as three phase coils stacked vertically.

A variety of custom enclosure designs are available to shield and protect the reactors magnetically and environmentally.

TESTS

All tests are done right on our premises to CSA, UL and IEEE C57.16 requirements.

ROUTINE FACTORY TESTS

- Winding Resistance with Direct Current
- Impedance and Losses
- Dielectric (HV Voltage Withstand) to ground between turns

TYPE TESTS

- Temperature Rise
- Thermal Capability Calculation
- Impulse
- Mechanical Strength

PQI Global Services, LLC