
**Engineering Specifications
Power Factor Correction Systems
Harmonic Filter Reactors**

Applicable Standards:

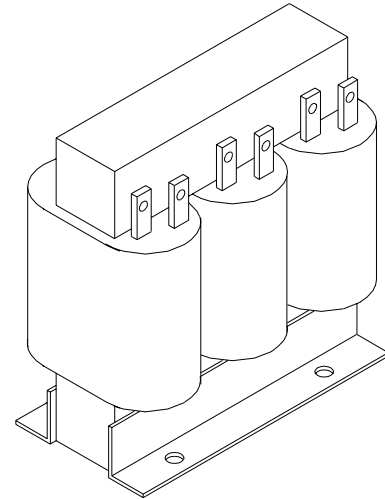
UL recognized construction

Ratings:

240V; 5 to 30 KVAR
480V; 5 to 100 KVAR
600V; 10 to 100 KVAR

Construction:

- Three phase, iron core reactor.
- Copper wire windings.
- Laminated silicon steel core, distributed gap, min of 2 gaps per phase.
- Class H insulation system, 180° C min.
- Vacuum impregnated with epoxy base varnish.
- Sound level 45 db or less.



Design:

- Tuning point: 4.7th Harmonic, 282 Hertz, for maximum Filtering. Special designs tuned at other Harmonic frequencies available.
 - Inductance tolerance $\pm 5\%$
 - Ambient temperature $+40^{\circ}$ C.
 - Rated thermal current $\cong 150\%$ of rated capacitor current
 - Saturation current = 400 to 500% of rated capacitor current.
 - Maximum temperature rise 115° C. Includes the sum of harmonic & fundamental currents.
 - Hi pot voltage 4000 vac for 1 min.
 - Inductance unbalance between any two phases, less than .025.
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