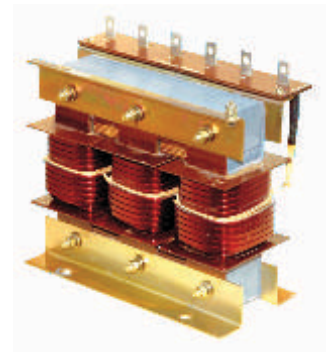


## Series Reactor for harmonics Protection

### Technical Data

- **Specification** : IS - 5553 - 1990 / IEC - 60289 (1988)
- **Range** :
  - Output up to 100 KVAR
  - Filter factor 5.67%, 7%, 14%
  - Rated voltage - 440 V, 550 V, 690 V
- **Type** : Detuned, Copper wound-iron core dry type



### Features

- Reactors manufactured as per IS 5553 / IEC - 60289 (1988)
- Linearity of more than 160%
- Insulation class 'F' but temp. rise restricted to class 'B' with harmonics 6-10% above fundamental current.
- Value accuracy within + 1.5%
- Fully copper wound with tin plated terminals for connections.
- Winding kept open to atmosphere for efficient cooling.
- Noise level less than 60dB at rated load.
- Inductance phase values within + 1.2%
- Temperature rise not exceeding 50-55\* C above ambient with 10% harmonic currents super imposed.
- Coil wound with multiple conductors to reduce skin effect.
- Adequate cushion provided to avoid heating due to leakage flux.
- Mechanically sturdy design to withstand vibrations., keep low noise level & ensure performance guarantee.
- 25kVAR & 50 kVAR ratings are also manufactured in aluminum conductor for cost saving with above features.

- 1) Capacitor + Reactor detuned filter suppresses desired harmonics.
- 2) Harmonics being bi-directional in-coming supply harmonics also get suppressed along with harmonics generated in the equipment where harmonic filter is used.
- 3) Reactor and Capacitor both being passive components (No moving parts) there is no ageing / deterioration.
- 4) This reactor + capacitor filter combination -
  - a) Increase distribution system efficiency.
  - b) Keeps your MD well under control.
  - c) Gives harmonic free supply to your equipments.

| Value       | Dimensions (in mm) |     |     | Weight (in kg) |
|-------------|--------------------|-----|-----|----------------|
|             | A                  | B   | C   |                |
| 5 KVAR 7%   | 210                | 110 | 170 | 5.5            |
| 10 KVAR 7%  | 210                | 110 | 190 | 7.5            |
| 15 KVAR 7%  | 210                | 116 | 220 | 11.5           |
| 20 KVAR 7%  | 240                | 135 | 220 | 14             |
| 25 KVAR 7%  | 240                | 135 | 240 | 16             |
| 30 KVAR 7%  | 240                | 135 | 260 | 18             |
| 40 KVAR 7%  | 270                | 140 | 280 | 24             |
| 50 KVAR 7%  | 300                | 145 | 280 | 28             |
| 75 KVAR 7%  | 300                | 165 | 290 | 38             |
| 100 KVAR 7% | 300                | 185 | 300 | 47             |