

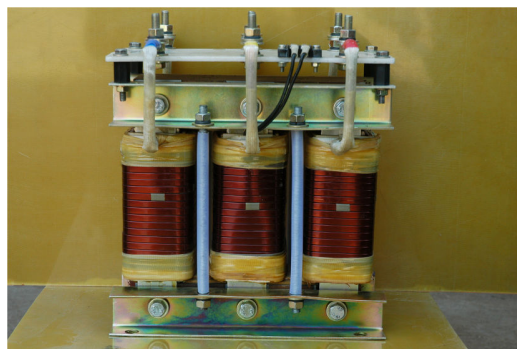
## Harmonic or Filter Reactors

### Application:

Used with harmonic filter duty power capacitors to mitigate harmonics, improve power factor and avoid electrical resonance in LV electrical networks.

### Design and construction:

Reactors are designed for 20 % overload continuously and which will not saturate at 150 % of rated current. They are designed for continuous operation in an ambient temp 60° C with natural Air cooling. Temp. Class as 'F'. Reactors are fitted with thermal overload protector in one coil.



- A) Core is made out of best stampings with very low core loss.
- B) Coils are made with SE/DFG Copper Strip Class 'F'
- C) Interlayer insulation by Nomex paper
- D) Inductors are vacuum impregnated with 'F' class varnish followed by over pressure (VPI)
- E) Frame parts Zinc Platted
- F) Termination on nickel platted studs
- G) Tie rods are provided for mechanical strength and avoid vibration/noise

### Standards

Standards	IEC : 60289/VDE 0532/En61558/ IS: 5553
Rated voltage and frequency	Un= 440V, 50 Hz
Series Resonance Frequency	210Hz (5.67%), 189Hz (7 %) and 134Hz (14 %)
Duty Cycle (Irms)	100 %
Class of protection	IPOO
Ambient Temperature	50° C
Temperature Class	Class 'F'
Protection	T. O. P.

### Product Details

SI #	KVAR	Rated Voltage	Detuning Factor	Approx. Dimension	Approx. Weight in Kg.
1)	5	440V	7%	L= 205, D= 120, H=150mm	6.5
2)	10	440V	7%	L= 215, D=150, H=205mm	12
3)	12.5	440V	7%	L=215, D= 150, H=205mm	13
4)	15	440V	7%	L= 220, D= 155, H=205mm	14
5)	20	440V	7%	L= 220, D= 165, H=220mm	15.5
6)	25	440V	7%	L=220, D= 155, H=265mm	19.5
7)	50	440V	7%	L= 265, D= 180, H=260mm	29.5
8)	100	440V	7%	L= 310, D= 230, H=390mm	45
9)	25	440V	14%	L= 265, D=180, H=260mm	29.5
10	50	440V	14%	L=310, D=230, H=390mm	45