

LOW VOLTAGE HARMONIC FILTER REACTORS – IN SERIES



Nowadays, more and more harmonics generating consumers in our networks are operated with inductive load. These include fluorescent lamps, dimmers, variable-speed drives, Inverters, UPS and rectifiers etc. This increases the harmonic loading and the total harmonic distortion of the supply system.

IN Series Reactors are designed to work in supply systems with a high level of harmonic distortion in such a way that they allow a safe and reliable services of the Power Factor Correction equipment's.

Reactors are connected in series with Power capacitors, forming a resonant circuit conveniently detuned, so that, the whole unit has an inductive impedance at the frequencies of all harmonics in the installation.

Advantages

- High harmonic loading capability
- Very low losses
- High linearity to avoid Saturation.
- Low Noise
- Convenient Mounting
- Long Expected Life Time
- Temperature Protection (NC contact)

Applications

- Avoidance of resonance conditions
- Tuned and detuned harmonic filters
- Reduction of harmonic distortion
(*network cleaning*)
- Reduction of power losses

Technical Data

Power Supply Voltage	230 V - 1000 V
Frequency	50Hz / 60 Hz
Function	Current limiting and Detune & Tune Harmonic Filters

The Ideal Customer

- All industries having harmonic generation
- Company with variable loads

ABPS SOLUTION PRIVATE LIMITED

Gat No. 258/1, Plot No. 8/2, Village Khalumbre, Chakan, Pune - 410501. Maharashtra, India.

Tel : +91-8485006294, 8379096294 | e: marketing@abpowerindia.com , ablifasa@gmail.com

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Rating and Specification

Type of Reactor	Low loss, Iron core, Dry type, 3Ph, Harmonic Filter, Series reactor
Rated Voltage & Frequency, Phase	230 - 690 V, 50 / 60 Hz, 3 Ph
Rating of capacitor unit to be connected in series with the reactor	5 Kvar To 150 Kvar
Percentage of reactor	4% to 14%
Continuous design current	130% of Rated Current
Linearity of reactor	180% x Rated Current
Type of core	CRGO
Type of winding	Copper/ Aluminium
Type of impregnation	Epoxy
Type of Insulation	Class H
Mounting arrangement	Vertical, Indoor
Type of termination	Through screw termination (for lower ratings) / Through bus-bar (Higher rating)
Connection	Line End side of Capacitor Unit
Control	Thermal Control through thermal switches
Standards	Latest IS 5553 & Latest IES
Application	Harmonic filtration and Inrush current Limiting

Other KVAR & Voltage rating available on request



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