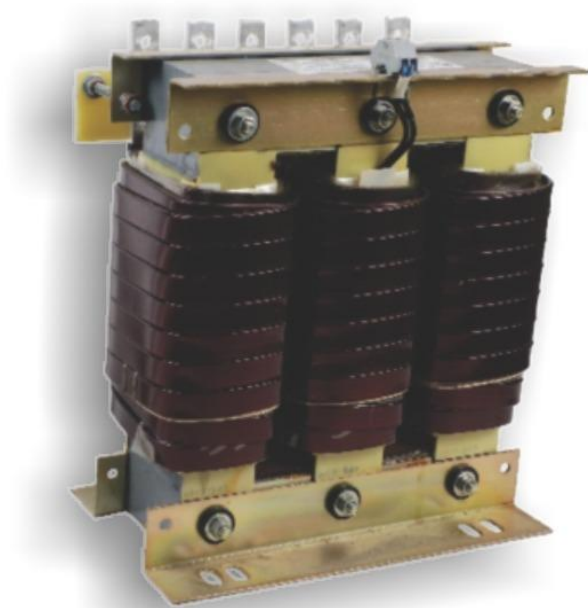


DETUNING REACTORS:



Design features

Our filter reactors are made of high-class transformer sheets and copper wire or aluminum band.

They are dried and impregnated in a vacuum with environmentally friendly, low-styrole resin which ensures they can withstand high voltages, have low noise levels, and offer a long operating life. Depending on their rated power, the reactors are provided with either terminal blocks or terminal lugs/cables. The connection of the aluminum reactors is made through copper terminals as well, which are reliably connected with the aluminum band by a special, well-proven welding method.

High-class iron cores with multiple air gaps guarantee high current linearity and low heat dissipation losses, at the same time allowing for compact dimensions and competitive cost.

Reactors are placed in close vicinity of the capacitor and should therefore not serve as a destructive heat source. The conservative layout of our reactors is to limit the maximum temperature of the reactor to 115°C under rated operating conditions. An integrated reversible thermal switch allows external monitoring for disconnection of the reactor in the event of impermissible buildup of heat (>125°C).

General Technical Data:

Rated voltage	: 415V, 50Hz
Design	: 3-Phase
Tolerance of Inductance	: -3% to +3% (mean value across three phases)
Winding material	: Aluminium Band
Core material	: Low loss Iron Sheet
Safety Device	: Thermal Switch
Impregnant	: Polyester Resin Class F
Insulation Class	: Class B
Current linearity	: 1.8 In
Permitted Harmonic Load (Continuous Operation)	: U3 = 0.5% of Un U5 = 6.0% of Un U7 = 5.0% of Un U11 = 3.5% of Un U13 = 3% of Un
Insulation Voltage winding to core	: 3kV
Max. Relative humidity	: 95%
Cooling	: Natural
Standards	: IEC 61558-2-20:2011