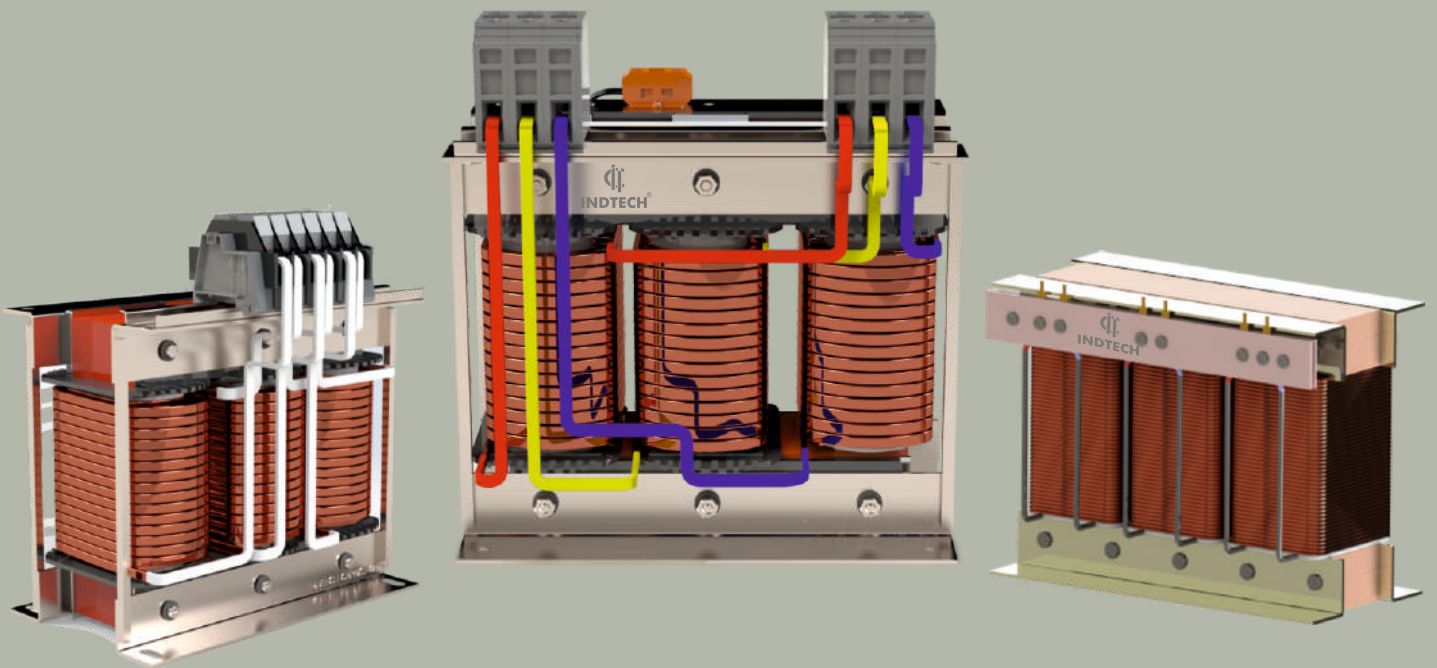


**P**owering Stability  
Enhancing Efficiency



**INDTECH**<sup>®</sup>



Disclaimer:  
The images in this catalogue are for illustrative purposes only.  
Actual product specifications may vary

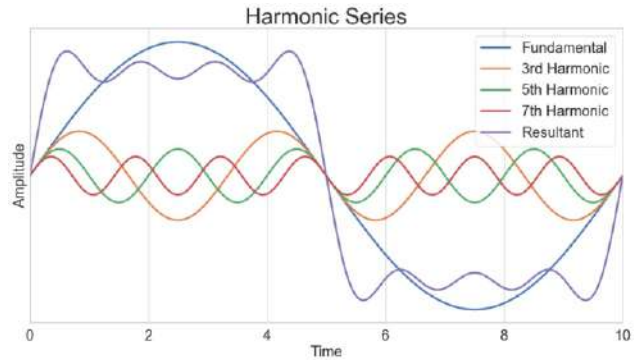
Three/Single Phase  
Frequency:50Hz

*Reactive Power Compensation Devices*



## About

Compensation panels play a crucial role in reactive power compensation for electrical systems, enhancing energy efficiency in industrial and commercial applications. Shunt reactors, a key component in these panels, help balance the reactive power caused by inductive loads, thereby improving the power factor. In electrical systems, inductive loads create phase shifts, increasing energy consumption and lowering the power factor, which raises electricity costs. Power factor correction is achieved using compensation panels, where shunt reactors and capacitive compensation capacitors work together to stabilize the system. Shunt reactors function as inductive coils, correcting phase shifts by delaying currents, while capacitors offset reactive power from inductive loads.



## Advantages of Shunt Reactors:

**Improved Power Factor** – Reduces reactive power losses, leading to lower electricity bills.

**Voltage Stability** – Minimizes fluctuations, protecting electrical equipment from damage.

**Enhanced Energy Quality** – Reduces harmonics, preventing issues like overheating and distortion.

**Extended Equipment Lifespan** – Ensures stable and efficient operation of electrical systems.

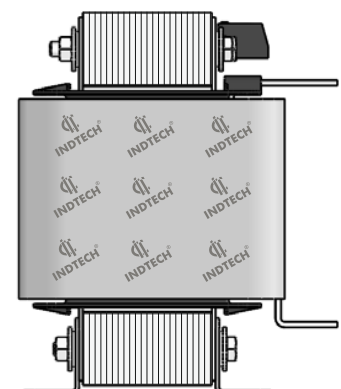
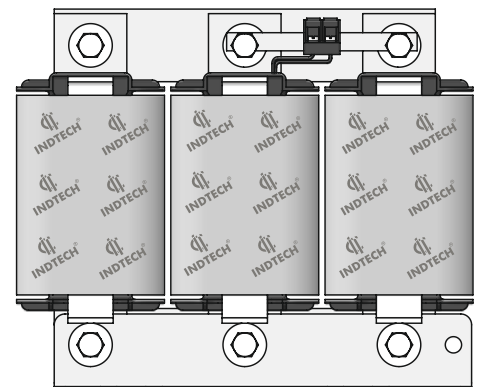
By integrating shunt reactors in compensation panels, businesses can achieve higher efficiency, lower operational costs, and improved system reliability, making electrical operations safer and more economical.

## General technical parameters

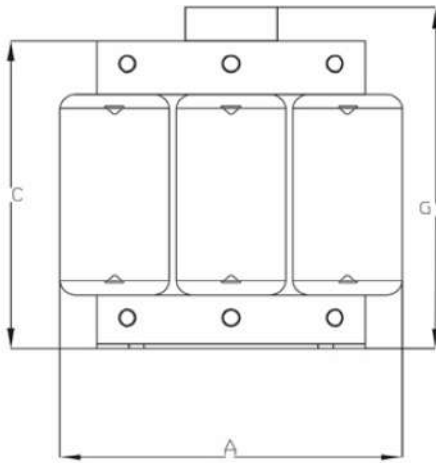
<b>Rated Voltage</b>	400 – 800 V / 50 Hz
<b>Rated Power</b>	1 - 100 kvar
<b>Inductance Tolerance</b>	-5 / +5 %
<b>Nominal Frequency</b>	50/60Hz
<b>Detuning Factor</b>	5 %, 7 %, 14 %
<b>Resonance Frequency</b>	210 Hz, 189 Hz, 134 Hz
<b>Temperature Class</b>	F (155 °C)
<b>Ambient Temperature</b>	40 °C
<b>Statistical Life Expectancy</b>	> 200 000 hours
<b>Protection Degree</b>	IP 00
<b>Insulation (winding - core)</b>	3 kV
<b>Max. Relative Humidity</b>	95 %
<b>Max. Altitude</b>	4 000 m
<b>Cooling</b>	Natural Air or Forced
<b>Design</b>	3 phase, iron core with multi air gap
<b>Winding Material</b>	Copper, Aluminium
<b>Impregnant</b>	Polyester (epoxy) resin
<b>Safety Device</b>	Thermal switch (Al-130°C,Cu-90°C)
<b>Terminals</b>	Terminal block, Cable lug, Al bar

## Usage Areas

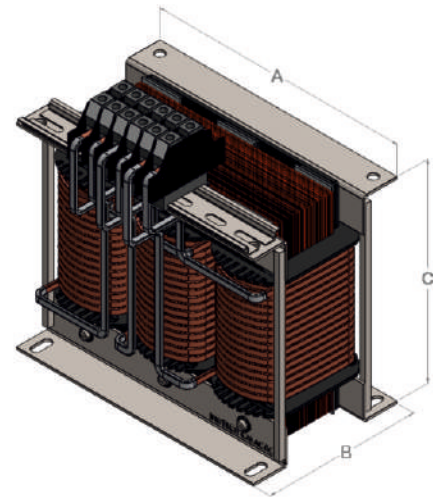
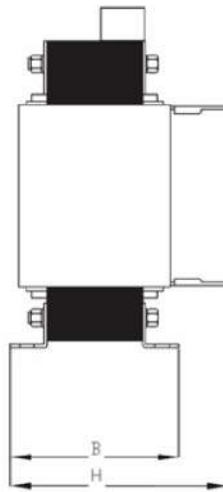
Compensation systems,  
Textile factories, Iron & Steel facilities,  
Hospitals, Shopping centers



## Product Specification



**DIMENSIONAL DRAWING**



\* The images shown are for illustration purposes only and may not be an exact representation of the product.

### THREE PHASE REACTOR, F<sub>n</sub>:50Hz

Power (kVAr)	Voltage (v)	L (mH)	I (A)	Weight (Kg)	Dimension (AxBxC) mm
1.0	400	508	1.44	8.0	180x180x140
1.5	400	340	2.16	10	180x180x150
2.5	400	204	3.6	13	240x240x150
5.0	400	102	7.2	27	300x290x150
7.5	400	67.4	10.9	36	300x290x170
10.0	400	51	14.5	44	360x340x170
12.5	400	40.1	18	53	360x340x180
15.0	400	33.6	22	60	360x340x190
20.0	400	25.5	29	83	420x400x210
25.0	400	20.4	36.3	95	420x400x230
30.0	400	16.6	43.5	118	420x400x250
40.0	400	12.8	58	160	480x450x300
50.0	400	10.2	72.5	180	480x450x330

Required voltage are produced on order

### SINGLE PHASE REACTOR, F<sub>n</sub>:50Hz

Power (kVAr)	Voltage (v)	L (mH)	I (A)	Weight (Kg)	Dimension (LxWxH)
1.0	230	168	4.35	6.5	150x140x130
1.5	230	112	6.52	9	150x140x150
3.0	230	56	13.1	17	192x170x170
5.0	230	33.7	21.7	20	210x210x180
7.5	230	22.5	32.6	25	210x260x200
10.0	230	16.8	43.5	30	250x310x210

Required voltage are produced on order



## COMMITMENT TO QUALITY

“Indtech Capacitors Pvt. Ltd. is committed to provide customers with defect free products through our program of continuous improvement. Quality shall, in every case, take precedence over quantity.”



**Ready to Lead !**

## Types of Reactors We Offer

Detuned Reactors  
Harmonic Filter Reactors  
Series Reactors  
Shunt Reactors

**Indtech Capacitors Pvt. Ltd.** Established in 1998, Indtech Capacitors India is a leader in high-performance electrical components. Expanding beyond capacitors, we now manufacture precision-engineered reactors for power factor correction, harmonic filtering, and voltage stability.

Our 7,500 sq.m. facility employs 500+ professionals, with specialized production lines and Rs. 500 million in fixed assets. We use advanced automation and imported technology to ensure top-tier quality and competitive pricing. Certified with RoHS, CE, ISI, and ISO 9001, our reactors undergo strict quality control from raw materials to final testing. With innovation and excellence, we provide reliable reactor solutions for stable and efficient power management.

Subject to technical changes



**Indtech Capacitors Pvt. Ltd.**

### Unit- II

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