



# K - Rated Transformer

1 kVA - 100 kVA

- Isolation Transformer (1 - 100 KVA)
- Ultra Isolation Transformer (1 - 100 KVA)
- K-Rated Transformer (1 - 100 KVA)

## Features & Benefits

- High insulating materials and special shielding techniques are credited for the common mode and minimizing transverse mode noise.
- Designed with zig-zag construction, which nullifies the harmonic current.
- The core and its magnetic properties are selected in such a way that it allows enough leakage inductance to provide normal mode power line noise, which is in sync with the transfer of fundamental power frequency. All the higher frequencies are blocked.
- Unique box shielding and other apt techniques are used which block the transfer of electronic noise.
- Better regulation with low impedance effect.
- Shield against strong lightning, impulse noise, bus short-circuit, accidental discharge of capacitors, etc.
- Shield for the Neutral Harmonic Current and connected equipment will not be affected by electrical noise, spikes, surges, etc.

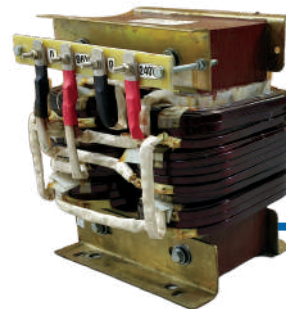


**Control Transformer**

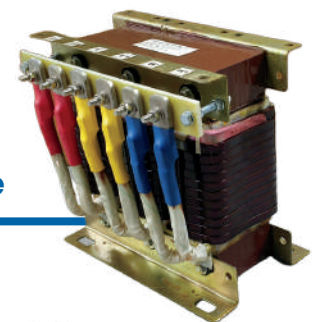
**3 Phase Inverter Transformer**



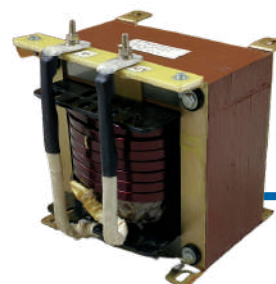
**Single Phase Inverter Transformer**



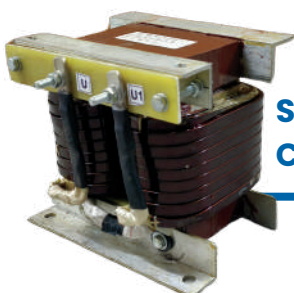
**3 Phase Choke**



**Single Phase Choke (Single Coil)**



**Single Phase Choke (Double Coil)**



# Specifications

## K - Rated Transformer

| Parameters                     | Description  |
|--------------------------------|--|
| Capacity                       | 1 KVA - 100 KVA  |
| Related Standards              | IS 2026, IS 11171  |
| Input Voltage & Output voltage | 415/415V (Can be provided as per requirement)                |
| Efficiency @ 100% Load         | >92 to 99% Based on the Capacity                             |
| Regulation                     | 2-6% (@ 0.8 to Unity power factor)                           |
| Impedance                      | <5%  |
| Connection                     | Delta/Star   |
| Vector Group                   | Dy1/Dyn11 (Can be provided as per requirement)               |
| Operating Load Power Factor    | 0.75 lagging to 0.75 Leading                                 |
| DC Galvanic Isolation          | >1000 MΩ   |
| Dielectric Strength            | 2.5KV @ 50Hz for 1 Min                                       |
| Overload Inrush                | 200% @ full load for 10 to 30 mins based on winding material |
| K-factor                       | K1, K4, K13, K20   |
| Noise Attenuation              | 100 dB upto 10KHz  |
| Operating Temperature          | 0 to 45°C  |
| Insulation                     | Class F, Class H   |
| Degree of Protection           | IP 20  |
| Type of Cooling                | Air Cooled & Air Forced                                      |
| Metering                       | LCD Display as optional                                      |
| Type of Transformer            | Dry Vacuum Impregnated                                       |
| Short Circuit Protection       | MCB/MCCB can be provided as per requirement                  |
| Cable Entry                    | Rear side at the Bottom                                      |

- › **Flexible Customization:** Connection configurations can be tailored to meet specific project needs.
- › **Versatile Vector Groups:** Vector groups are adjustable to accommodate various system requirements.
- › **Impedance Tailoring:** Specify the desired impedance value for precise system integration.

**NOTE:**

- › **Single-Phase Options:** Single-phase K-rated transformers can be provided upon request.
- › **Subject to Change:** Specifications are subject to modification without notice.
- › **Auto Transformer Availability:** Auto transformers can be custom-ordered.
- › **Custom Designs:** Transformers can be designed to meet specific requirements.
- › **Additional Voltage Ranges:** Other voltage ranges are available upon request.

