

## AUTO TRANSFORMER



An **Autotransformer** is a one winding transformer in which a part of the winding is common to both primary and secondary windings. In contrast, an isolation transformer has separate primary and secondary windings which have no metallic conducting path between them.

The autotransformer winding has at least three taps where electrical connections are made. The secondary voltage is taken from two taps, one tap which is usually in common with the primary voltage tapping.

Autotransformers have the advantages of having lower leakage reactance and lower losses. It is often being smaller, lighter, and cheaper than typical dual-winding transformers, but the disadvantage of not providing electrical isolation between primary and secondary circuits.

## TECHNICAL SPECIFICATIONS

### CAPACITY

- Up to 2500kVA

### RATED VOLTAGE

- Up to 1000V
- Above 1000V (Customized Design)

### RATED FREQUENCY

- 50Hertz or 60Hertz

### AMBIENT TEMPERATURE

- 40°C
- Others upon request

### INSULATION CLASSIFICATION

- Class F & H
- Others upon request

### REFERENCE STANDARD

- IEC 60076
- IEC 61558

### TRANSFORMER CORE MATERIAL

- High grade electrical steel

### WINDING CONDUCTORS

- Copper or Aluminium wire
- Copper or Aluminium foils

### OPTIONAL ACCESSORIES

- Enclosures up to IP54
- MCCB/MCB with or without shunt/under-voltage trip
- Ammeter and Voltmeter
- Temperature measurement device
- Fan fail detector
- Castor wheels
- Ventilation fan
- BMS free contacts
- Buzzer and Indication lights
- Earth Fault relays