



RAMA
UNIVERSITY

www.ramauniversity.ac.in

FACULTY OF ENGINEERING & TECHNOLOGY

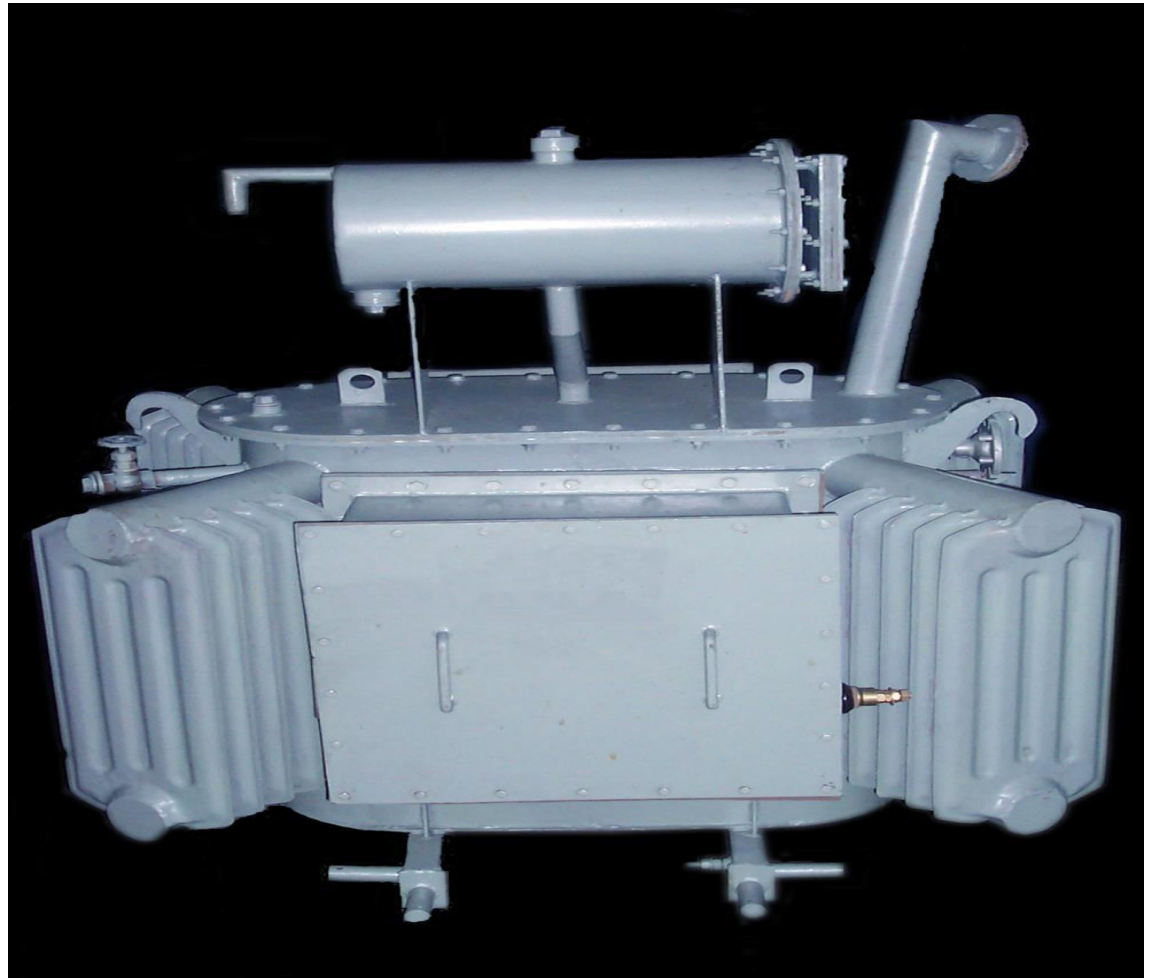
Electrical Machine-1

Amit Kumar Singh

SINGLE PHASE TRANSFORMER

Parts of Transformere

- MAIN TANK
- RADIATORS
- CONSERVATOR
- EXPLOSION VENT
- LIFTING LUGS
- AIR RELEASE PLUG
- OIL LEVEL INDICATOR
- TAP CHANGER
- WHEELS
- HV/LV BUSHINGS
- FILTER VALVES
- OIL FILLING PLUG
- DRAIN PLUG
- CABLE BOX



SINGLE PHASE TRANSFORMER

Transformer Windings

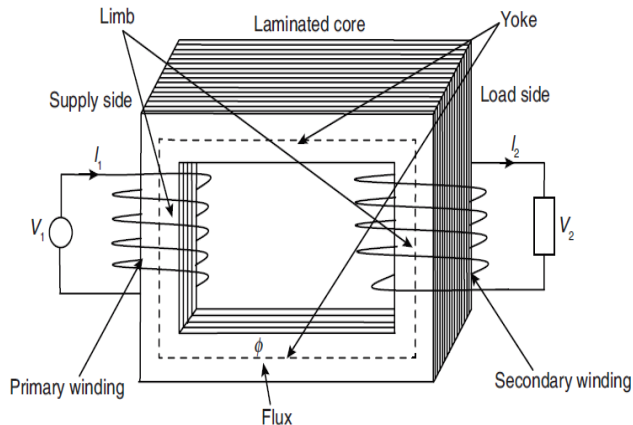
- A transformer mainly has two windings wound on the two limbs of the transformer, namely, the primary winding and the secondary winding. Primary winding connected with the supply, secondary winding connected with load.

Core-type transformer

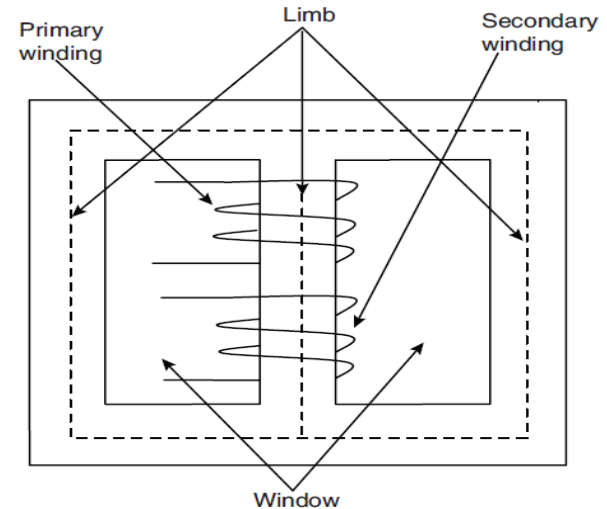
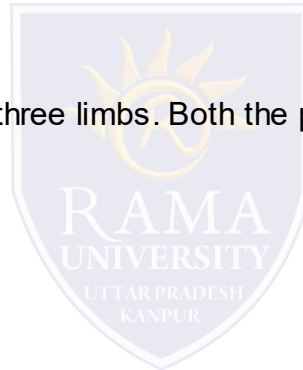
- A core-type transformer has a single path for the magnetic flux to flow in the transformer. The core can be in the form of a rectangle or a square.

Shell-type transformer

- A shell-type transformer has two windows and three limbs. Both the primary and secondary windings are placed on the central limb.



Core Type transformer



Shell Type transformer