

12 Transformers and other Equipment for Switchgear Installations

12.1 Transformers

12.1.1 Design, types and dimensions

The purpose of transformers is to transfer electrical energy from systems of one voltage U_1 to systems of another voltage U_2 .

Transformers can be differentiated according to their manner of operation (Fig. 12-1):

1. *Power transformers*, the windings of which are in parallel with the associated systems. The systems are electrically independent. The transfer of power is solely by induction.
2. *Autotransformers*, the windings of which are connected in line (series winding RW and parallel winding PW). The throughput power S_D is transferred partly by conduction and partly by induction.
3. *Booster transformers*; their windings are electrically independent, one winding being connected in series with one system in order to alter its voltage. The other winding is connected in parallel with its associated system (excitation winding EW). The additional power S_Z is transferred purely inductively.

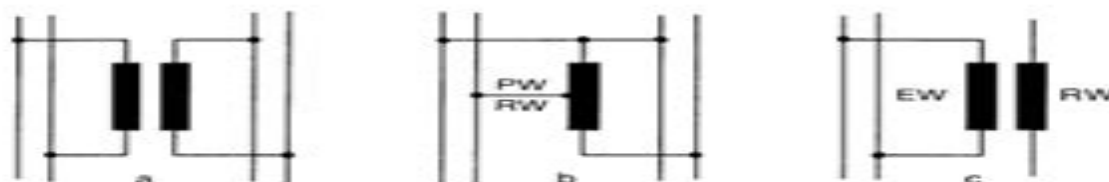


Fig. 12-1

Different types of transformers according to their manner of operation: a) Power transformer, b) Autotransformer, RW Series winding, PW Parallel winding, c) Booster transformer, EW Excitation winding, RW Series winding.

The following distinctions are made according to applications:

1. Transformers for the supply of power DIN EN 60076-1 (VDE 0532 Part 101), such as distribution or main transformers, machine transformers and system-tie transformers,
2. Industrial transformers, such as welding transformers, furnace transformers, starting transformers and converter transformers,
3. Transformers for traction systems,
4. Special transformers, e.g. for testing, protection and control purposes.

Three-phase distribution transformers are covered by standards DIN 42500 (Δ HD 428.151) and DIN 42523 (Δ HD 538.151).

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