

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.

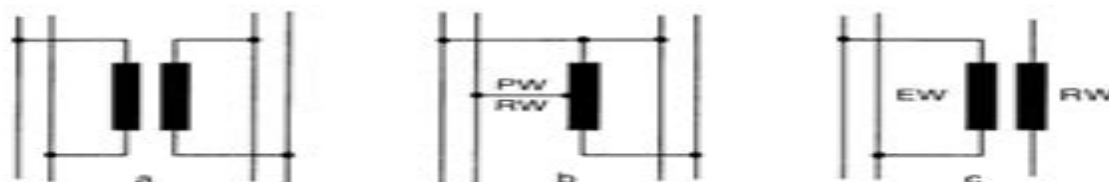


Fig. 12-1

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).

Abb S3 Controller Programming Manual

Ying Liu



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1. Understanding the eBook Abb S3 Controller Programming Manual
 - The Rise of Digital Reading Abb S3 Controller Programming Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Abb S3 Controller Programming Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Abb S3 Controller Programming Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Abb S3 Controller Programming Manual
 - Personalized Recommendations
 - Abb S3 Controller Programming Manual User Reviews and Ratings
 - Abb S3 Controller Programming Manual and Bestseller Lists
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- Abb S3 Controller Programming Manual eBook Subscription Services
- Abb S3 Controller Programming Manual Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Abb S3 Controller Programming Manual Compatibility with Devices
 - Abb S3 Controller Programming Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Abb S3 Controller Programming Manual
 - Highlighting and Note-Taking Abb S3 Controller Programming Manual
 - Interactive Elements Abb S3 Controller Programming Manual
- 8. Staying Engaged with Abb S3 Controller Programming Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Abb S3 Controller Programming Manual
- 9. Balancing eBooks and Physical Books Abb S3 Controller Programming Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Abb S3 Controller Programming Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Abb S3 Controller Programming Manual
 - Setting Reading Goals Abb S3 Controller Programming Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Abb S3 Controller Programming Manual
 - Fact-Checking eBook Content of Abb S3 Controller Programming Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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