

CHAPTER 12

THREE-PHASE CONTROLLED RECTIFIERS

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12.1 INTRODUCTION

Three-phase controlled rectifiers have a wide range of applications, from small rectifiers to large High Voltage Direct Current (HVDC) transmission systems. They are used for electro-chemical process, many kinds of motor drives, traction equipment, controlled power supplies, and many other applications. From the point of view of the commutation process, they can be classified in two important categories: *Line Commutated Controlled Rectifiers (Thyristor Rectifiers)*, and *Force Commutated PWM Rectifiers*.

12.2 LINE COMMUTATED CONTROLLED RECTIFIERS.

12.2.1 Three-phase half-wave rectifier

The figure 12.1 shows the three-phase half-wave rectifier topology. To control the load voltage, the half wave rectifier uses three, common-cathode thyristor arrangement. In this figure, the power supply, and the transformer are assumed ideal. The thyristor will conduct (ON state), when the anode-to-cathode voltage v_{AK} is positive, and a firing current pulse i_g is applied to the gate terminal. Delaying the firing pulse by an angle α does the control of the load voltage. The firing angle α is measured from the crossing point between the phase supply voltages, as shown in figure 12.2. At that point, the anode-to-cathode thyristor voltage v_{AK} begins to be positive. The figure 12.3 shows that the possible range for gating delay is between $\alpha=0^\circ$ and $\alpha=180^\circ$, but in real situations, because of commutation problems, the maximum firing angle is limited to around 160° . In figure 12.4, when the load is resistive, the current i_d has the same waveform of the load voltage. As the load becomes more and more inductive, the current flattens and finally becomes constant. The thyristor goes to the non-conducting condition (OFF state) when the following thyristor is switched ON, or the current, tries to reach a negative value.

With the help of figure 12.2, the load average voltage can be evaluated, and is given by:

$$V_D = \frac{V_{max}}{2\pi} \int_{\frac{\pi}{3} + \alpha}^{\frac{2\pi}{3}} \cos \omega t \, d(\omega t) = V_{max} \frac{\sin \frac{\pi}{3}}{\frac{\pi}{3}} \cos \alpha \approx 1.17 V_{f-n} \cos \alpha \quad (12.1)$$

Chapter 12 Three Phase Controlled Rectifiers

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Table of Contents Chapter 12 Three Phase Controlled Rectifiers

1. Understanding the eBook Chapter 12 Three Phase Controlled Rectifiers
 - The Rise of Digital Reading Chapter 12 Three Phase Controlled Rectifiers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 12 Three Phase Controlled Rectifiers
 - 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 Chapter 12 Three Phase Controlled Rectifiers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 12 Three Phase Controlled Rectifiers
 - Personalized Recommendations
 - Chapter 12 Three Phase Controlled Rectifiers User Reviews and Ratings
 - Chapter 12 Three Phase Controlled Rectifiers and Bestseller Lists

5. Accessing Chapter 12 Three Phase Controlled Rectifiers Free and Paid eBooks
 - Chapter 12 Three Phase Controlled Rectifiers Public Domain eBooks
 - Chapter 12 Three Phase Controlled Rectifiers eBook Subscription Services
 - Chapter 12 Three Phase Controlled Rectifiers Budget-Friendly Options
6. Navigating Chapter 12 Three Phase Controlled Rectifiers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 12 Three Phase Controlled Rectifiers Compatibility with Devices
 - Chapter 12 Three Phase Controlled Rectifiers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 12 Three Phase Controlled Rectifiers
 - Highlighting and Note-Taking Chapter 12 Three Phase Controlled Rectifiers
 - Interactive Elements Chapter 12 Three Phase Controlled Rectifiers
8. Staying Engaged with Chapter 12 Three Phase Controlled Rectifiers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 12 Three Phase Controlled Rectifiers
9. Balancing eBooks and Physical Books Chapter 12 Three Phase Controlled Rectifiers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 12 Three Phase Controlled Rectifiers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 12 Three Phase Controlled Rectifiers
 - Setting Reading Goals Chapter 12 Three Phase Controlled Rectifiers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 12 Three Phase Controlled Rectifiers
 - Fact-Checking eBook Content of Chapter 12 Three Phase Controlled Rectifiers
 - 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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