

Maintenance of Rotating Electrical Machines

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1 Introduction

A rotating electrical machine can be defined as a machine that converts electrical energy into mechanical energy or vice versa. Such machines either in the form of electric motors or generators quite often constitute the heart in a production unit, whether in the industry or on offshore plants. No matter which maintenance system is utilized the right maintenance of the unit is hence of major importance since any breakdown usually is more or less catastrophic.

The stator- and rotorwindings in electrical machines are often unknown territory to maintenance staff because the windings are well-hidden below shields and covers. Only the output cables in the terminal boxes are usually visible, which unless you have special equipment are difficult for measurement since the windingresistance is fairly low and the windings often are connected in an unknown manner.

2 Why do windings in electrical machines break down?

Depending on design and protection, electrical machines are exposed to many different stress factors. Some of the worst stress factors are the **electrical**, the **thermal**, and the **mechanical** factors.

2.1 Electrical stress factors

The winding insulation is constantly exposed to a transient (excess voltage) bombardment. Due to the transient amplitude of many times nominal operating voltage, the winding insulation can quickly be broken down if it is not completely tight and in order.

The transients can come from the supply network, by the re-connection of other equipment, from controls and frequency converters capable of interfering in discordant oscillations, and not least from the winding itself when it is connected to or disconnected from the network.

Contrary to generators, usually connected to or disconnected to the network without any further current change in the windings, it is completely different with electric motors.

Motorbreakdowns are frequently noted during the start-up phase, which leads to the presumption that the starting current which can be from 6-14 times the full load current [In] is the sinner.

This might be true, but electric motors are rarely unloaded before disconnection, which causes the full-load current to be momentarily cut off on its way through the winding.

Depending on the connector type and switch construction, substantial transients can occur by disconnection, in the form of voltage [Upeak] and not least energy content [Joule] causing a flashover in the windings.

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Table of Contents Maintenance Manual Electrical Rotating Machines

1. Understanding the eBook Maintenance Manual Electrical Rotating Machines
 - The Rise of Digital Reading Maintenance Manual Electrical Rotating Machines
 - Advantages of eBooks Over Traditional Books
2. Identifying Maintenance Manual Electrical Rotating Machines
 - 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 Maintenance Manual Electrical Rotating Machines
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maintenance Manual Electrical Rotating Machines
 - Personalized Recommendations
 - Maintenance Manual Electrical Rotating Machines User Reviews and Ratings
 - Maintenance Manual Electrical Rotating Machines and Bestseller Lists

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