

GEC Measurements

*Eng. Review Over
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May
23/4/74*

MOTOR PROTECTION RELAY

Type CMM

The protection usually provided for three-phase motors is effective against overloads and faults, but rarely takes into full account the harmful effect of unbalanced line current. Even a modest unbalance can cause damage by overheating, and in the extreme case of a motor stalled due to loss of one phase, severe rotor damage can occur within the normal starting time.

The type CMM relay measures load current and unbalance current independently, giving accurate protection against thermal damage under all conditions.

The thermal unit characteristic of the relay follows closely that of a typical large induction motor, hence the motor is disconnected only when the insulation life is threatened.

Relays giving, in addition, other forms of protection are available with standard or long-time thermal unit characteristics as follows:

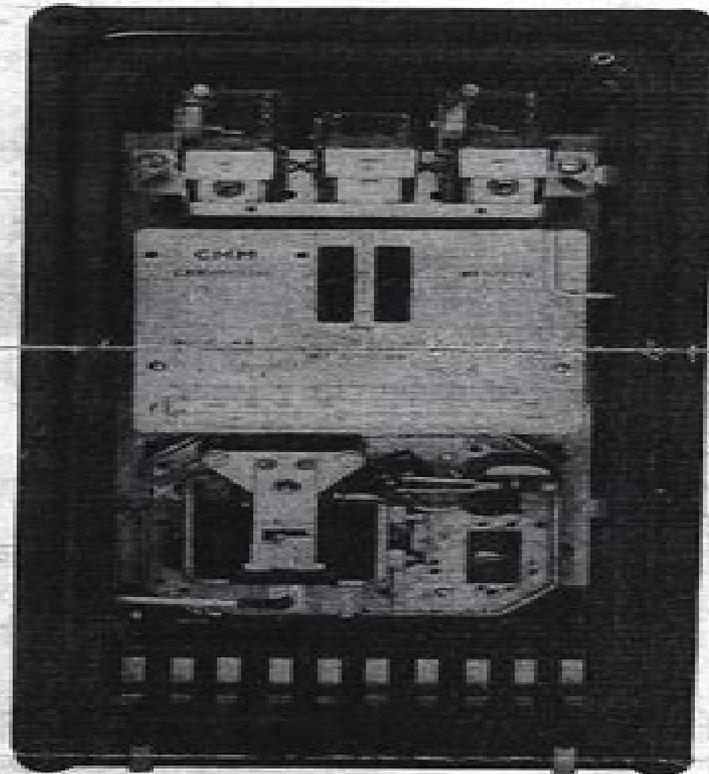
Relay type		Protection provided
Standard	Long-time	
CMM11	CMM12	Thermal only
CMM21	CMM22	Thermal Instantaneous Earth Fault
CMM31	CMM32	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance and Single-Phasing
CMM41	CMM42	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance and Single-Phasing

The long-time version is for use with motors designed to withstand prolonged starting times at high torque.

Instantaneous protection is provided by robust attracted armature units.

OPERATION

The positive and negative sequence components of the motor current are separated by an a.c. filter network and fed to two heaters (H₁ and H₂) wound over a thermistor (TH1). The thermistor forms part of a d.c. bridge circuit, and unbalancing of the bridge is detected by the sensitive polarized movement which trips the motor contactor. A second thermistor (TH2) provides ambient temperature compensation. Resistors R2, R3 and R5 give the bridge a linear resistance/temperature characteristic to ensure consistent sensitivity over a wide temperature range.



Type CMM41 relay in size 1 1/2 drawout case

Under healthy conditions the motor takes balanced load current from the supply and the thermistor is heated only by the positive sequence heater; if the motor current exceeds full load, tripping takes place according to the curve shown.

If the motor supply for any reason becomes unbalanced negative sequence current will flow. This current heats a

1107 7011

Gec Protection Relay Manual

Geoff T. Gerrard



Gec Protection Relay Manual:

Handbook of Large Turbo-Generator Operation and Maintenance Geoff Klempner, Isidor Kerszenbaum, 2011-09-20 This book offers the complete scope of information regarding operation and maintenance of all types of turbine driven generators built in the world The information presented is designed to inform the reader about actual machine operational problems and failure modes that occur in generating stations and other types of facilities

The Relay Testing Handbook #8D Chris Werstiuk, 2012-11-08 The Relay Testing Handbook was created for relay technicians from all backgrounds and provides the knowledge necessary to test most of the modern protective relays installed over a wide variety of industries Basic electrical fundamentals detailed descriptions of protective elements and generic test plans are combined with examples from real life applications to increase your confidence in any relay testing situation A wide variety of relay manufacturers and models are used in the examples to help you realize that once you conquer the sometimes confusing and frustrating man machine interfaces created by the different manufacturers all digital relays use the same basic fundamentals and most relays can be tested by applying these fundamentals This package provides a step by step procedure for testing the most common differential protection applications used by a variety of manufacturers Each chapter follows a logical progression to help understand why differential protection is used and how it is applied Testing procedures are described in detail to ensure that the differential protection has been correctly applied Each chapter uses the following outline to best describe the element and the test procedures

- 1 Application
- 2 Settings
- 3 Pickup Testing
- 4 Timing Tests
- 5 Tips and Tricks to Overcome Common Obstacles

We will review techniques to test differential relays with 3 or 6 channels so that readers can test nearly any differential application with any modern test set

The Relay Testing Handbook #4D Chris Werstiuk, 2007-10 As modern protective relays become increasingly more powerful and complex many relay testers continue to use test procedures and philosophies that are based on previous generations of relays and their limitations Modern relays have very different characteristics that require a different testing philosophy to ensure that they will operate when required The Relay Testing Handbook Creating and Implementing Test Plans outlines step by step procedures that will enable you to create and implement protective relay test plans for modern relay systems ensuring accurate and efficient relay testing for nearly every application Use the information in this book to Collect and compare drawings settings and engineering studies to evaluate the application Compare all of the available documentation to the manufacturer's literature Prepare to test the relay by correctly isolating it from the rest of the system Establish communication with the relay and apply the settings Properly connect your test set to the relay Perform acceptance tests Design your test plan using conventional test techniques or implement more efficient and effective ones Implement your test plan or apply common test plans for feeder generator or line protection Prepare your report and test sheets This book is included in the hardcover book *The Relay Testing Handbook Principles and Practice* or it can be ordered by itself as a soft cover book Adobe Acrobat PDF digital download or both

Paperback 98 pages Trim Size 8 5x11 Publisher Valence Electrical Training Services LLC Language English ISBN 13 978 1 934348 07 9 LCCN 2012934620 **The Relay Testing Handbook #2D** Chris Werstiuk,2007-06 As modern protective relays become increasingly more powerful and complex many relay testers continue to use test procedures and philosophies that are based on previous generations of relays and their limitations Modern relays have very different characteristics that require a different testing philosophy to ensure that they will operate when required As the second of The Relay Testing Handbook series Relay Testing Fundamentals builds on the electrical theory principles introduced in the first package Electrical Fundamentals for Relay Testing In this in depth discussion of protective relays you will learn about the history of protective relaying including Electromechanical relays Solid state relays Simple microprocessor relays Multifunction microprocessor relays Relay testers of all skill levels can benefit from a solid foundation of relay testing fundamentals the foundational elements included in this book include Reasons for relay testing Essential relay testing equipment The importance of using different test techniques for various relay generations Traditional test procedures for element testing Logic and dynamic testing Combining test techniques for more efficient and effective relay testing Applying test techniques that take advantage of modern test equipment and software This book is included in the hardcover book The Relay Testing Handbook Principles and Practice or it can be ordered by itself as a soft cover book Adobe Acrobat PDF digital download or both Paperback 86 pages Trim Size 8 5x11 Publisher Valence Electrical Training Services LLC Language English ISBN 13 978 1 934348 05 5 LCCN 2012934618 **The Relay Testing Handbook #6D** Chris Werstiuk,2009-08 As modern protective relays become increasingly more powerful and complex many relay testers continue to use test procedures and philosophies that are based on previous generations of relays and their limitations Modern relays have very different characteristics that require a different testing philosophy to ensure that they will operate when required The Relay Testing Handbook Testing Overcurrent Protection 50 51 67 provides step by step procedures for testing the most common overcurrent protection applications This volume is designed to help you understand and test Instantaneous overcurrent protection 50 Inverse time overcurrent protection 51 Directional overcurrent protection 67 Each chapter explains the following topics for each element with realistic practical examples and detailed instructions Understanding the application Determining which settings are most important Recommended steps to correctly plan perform and evaluate pickup tests Recommended steps to correctly plan perform and evaluate timing tests Preventing interference from other settings inside the relay Tips and tricks to overcome common obstacles This book is included in the hardcover book The Relay Testing Handbook Principles and Practice or it can be ordered by itself as a soft cover book Adobe Acrobat PDF digital download or both Paperback 70 pages Trim Size 8 5x11 Publisher Valence Electrical Training Services LLC Language English ISBN 13 978 1 934348 13 0 LCCN 2012934622 **The Relay Testing Handbook #3D:** Chris Werstiuk,2012 As modern protective relays become increasingly more powerful and complex many relay testers continue to use test procedures and philosophies

that are based on previous generations of relays and their limitations Modern relays have very different characteristics that require a different testing philosophy to ensure that they will operate when required The Relay Testing Handbook Understanding Digital Logic explains the different forms of relay logic used in modern microprocessor based relays Each type of relay logic is described in detail with practical examples to demonstrate how relay manufacturers use common relay logic principles applied with different style interfaces such as Individual element schemes General Electric SR and Beckwith Electric Company relays Binary relays Alstom and Siemens relays Arithmetic math schemes Schweitzer Engineering Laboratories relays Logic schemes General Electric UR relays Use the practical examples outlined in this volume to help you Understand and use logic gates such as AND OR NOT NOR NAND and more Use logic comparators and timers Convert relay settings from one logic format to another Convert logic schemes into DC schematics to help understand and commission logic systems Understand the protective relay logic used in nearly every in service relay today This book is included in the hardcover book The Relay Testing Handbook Principles and Practice or it can be ordered by itself as a soft cover book Adobe Acrobat PDF digital download or both Paperback 90 pages Trim Size 8 5x11 Publisher Valence Electrical Training Services LLC Language English ISBN 13 978 1 934348 06 2 LCCN 2012934619 **The Relay Testing Handbook #7D** Chris Werstiuk,2010-06-17 This package provides an overview of End to End testing and answers the most common questions a relay tester should ask before performing their first End to End test A basic introduction of this test technique is followed by a step by step procedure for performing a successful end to end test This package also includes an overview of the most common communication assisted protection schemes to help the reader understand how these schemes operate

Protection of Electricity Distribution Networks Juan M. Gers,E. J. Holmes,1998 Descripci n del editor High quality electrical service is everyday more stringent in utilities and industrial facilities around the world One of the main players to achieve this is the protection system which has to be reliable fast and with a good cost benefit ratio Protection of generation and transmission systems are also treated in the text References to modern topics such as the Distributed Generation Smart Grid and Standard IEC 61850 have been introduced Written by two well experienced engineers who combine a comprehensive theoretical background with examples and exercises this book will allow the reader to easily follow the ideas explored IET **Power System Stability and Control** Leonard L. Grigsby,2007-05-30 Updated with the latest developments and advances the second edition of The Electric Power Engineering Handbook has grown so much that it is now presented as a set of five books Now this authoritative coverage is available in easily digestible portions that are tightly focused and conveniently sized Completing the set Power System Stability and Control outlines the dynamics operational aspects and protection issues of power systems related to stability and control In addition to updates and revisions throughout the chapters it includes new sections in the areas of small signal stabilit **Diesel Generator Handbook** L. L. J. Mahon,1992-09-23 This book is an authoritative reference work covering the range of mechanical and electrical topics

embodied in the practical design and application of diesel generating plant National Union Catalog ,1979 Includes entries for maps and atlases **Protective Relays** Albert Russell van Cortlandt Warrington,1977 Protective Relaying for Power Systems II Stanley H. Horowitz,1992 **Electrical Safety Engineering** William Fordham Cooper,1986 **First International Conference on Digital Power System Simulators** ,1995 **ESC 89** David J. Murray-Smith,J. Stephenson,R. N. Zobel,1989 **Offshore Electrical Engineering** Geoff T. Gerrard,1992-08-03 Offshore Electrical Engineering is written based on the author s 20 years electrical engineering experience of electrical North Sea oil endeavor The book has 14 chapters and five important appendices The book starts with designing for electrical power offshore application especially with aspects that are different from land based structures such as space and weight limitations safety hazards at sea and corrosive marine environment The criteria for selecting prime movers and generators for example gas turbines and reciprocating engines depending on the type of applications are examined The machinery drives are then discussed whereby the different offshore electric motor ratings are considered As in any electrical system the use of ergonomically designed controls is important Distribution switchgear transformers and cables are described The book also explains the environmental considerations power system disturbances and protection In an offshore structure lighting requirements and subsea power supplies diving life support system and equipment protection are emphasized A reliability analysis is also included to ensure continuance of service from the equipment A general checklist to be used when preparing commissioning workscopes is included and due to space and weight limitations on offshore installation the rationale of maintenance and logistics options are explained The appendices can be used as guides to descriptions offshore installations typical commissioning test sheets computerized calculations program and a comparison of world hazardous area equipment The text is a suitable reading for offshore personnel oil rig administrators and for readers from all walks of life interested in some technical aspects of offshore structures **The Electrical Review** ,1923 *Water Services* ,1996 *Information Sources in Engineering* L. J. Anthony,1985 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

Unveiling the Magic of Words: A Overview of "**Gec Protection Relay Manual**"

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Table of Contents Gec Protection Relay Manual

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

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