

# GEC Measurements

*Eng. Res. Dept.  
Gen. M. Roberts  
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:

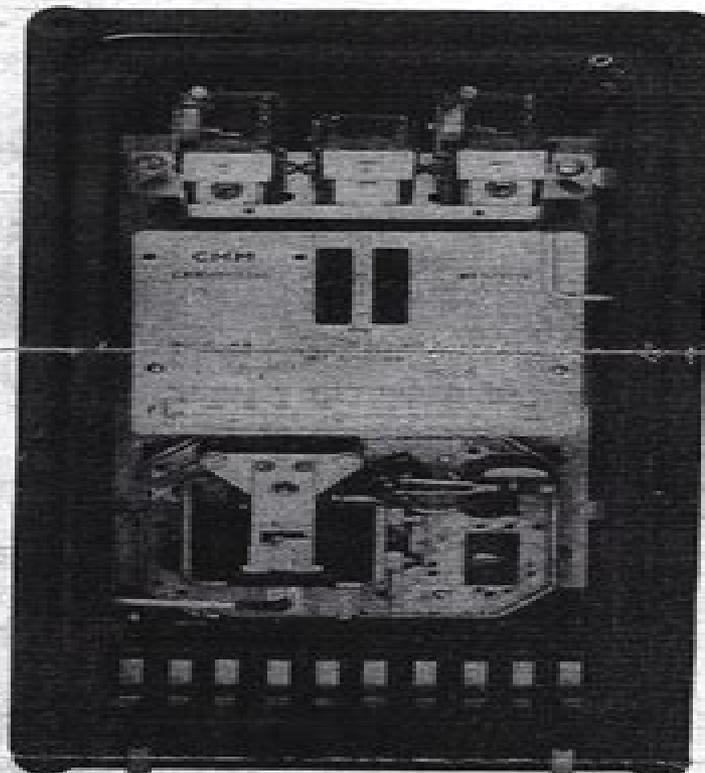
Relay type		Protection provided
Standard	Long-time	
CMM11	CMM12	Thermal only
CMM21	CMM22	Thermal Instantaneous Earth Fault
CMM31	CMM32	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance and Single-Phasing
CMM41	CMM42	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance 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 (H<sub>1</sub> and H<sub>2</sub>) 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

*110707*

# Gec Relay Guide

**RM Cervero**



## **Gec Relay Guide:**

*Electrical Power System Protection* C. Christopoulos, A. Wright, 2013-04-18 The death of Professor Arthur Wright in the summer of 1996 deprived me of a friend and a colleague whose judgement and experience shaped this book I pay tribute to his contributions to protection and electrical engineering education In the five years since the first edition appeared many developments have taken place and it is now necessary to update the book The use of digital communications and advanced signal processing techniques is now widespread and several fully numeric relays are available from manufacturers Two new Chapters 13 and 14 have been added to introduce readers to these concepts and associated techniques Artificial intelligence is making its impact in all engineering applications and power system protection is no exception Expert systems fuzzy logic artificial neural networks adaptive and integrated protection synchronized measurements using the global positioning system genetic algorithms flexible ac transmission systems are some of the techniques considered in connection with protection Although many of these techniques have not yet found major application in protection it is nevertheless essential for the educated protection engineer to have a basic understanding of the underlying principles and methodology so that he or she can evaluate their suitability for new relaying problems and applications Chapter 15 was therefore added to guide readers through this developing area I have also added some new material in other chapters to reflect changes over the past years

**Offshore Electrical Engineering Manual** Geoff MacAngus-Gerrard, 2017-11-06 Offshore Electrical Engineering Manual Second Edition is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems The book begins with coverage of different types of insulation hot spot temperatures temperature rise ambient air temperatures basis of machine ratings method of measurement of temperature rise by resistance measurement of ambient air temperature This is followed by coverage of AC generators automatic voltage regulators AC switchgear transformers and programmable electronic systems The emphasis throughout is on practical ready to apply techniques that yield immediate and cost effective benefits The majority of the systems covered in the book operate at a nominal voltage of 24 v dc and although it is not necessary for each of the systems to have separate battery and battery charger systems the grouping criteria require more detailed discussion The book also provides information on equipment such as dual chargers and batteries for certain vital systems switchgear tripping closing and engine start batteries which are dedicated to the equipment they supply In the case of engines which drive fire pumps duplicate charges and batteries are also required Packed with charts tables and diagrams this work is intended to be of interest to both technical readers and to general readers It covers electrical engineering in offshore situations with much of the information gained in the North Sea Some topics covered are offshore power requirements generator selection process drivers and starting requirements control and monitoring systems and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems

components are maintained and production is uninterrupted Demonstrates how to repair modify and install electrical instruments ensuring compliance with current regulations and specifications Covers specification management and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC AC selection and offshore cabling designs

**Handbook of Large Hydro Generators** Glenn Mottershead,Stefano Bomben,Isidor Kerszenbaum,Geoff Klempner,2020-12-22 This book offers comprehensive coverage of the operation and maintenance of large hydro generators This book is a practical handbook for engineers and maintenance staff responsible for the upkeep of large salient pole hydro generators used in electric power plants Focusing on the physics and maintenance of large vertical salient pole generators it offers readers real world experience problem description and solutions while teaching them about the design modernization inspections maintenance and operation of salient pole machines Handbook of Large Hydro Generators Operation and Maintenance provides an introduction to the principles of operation of synchronous machines It then covers design and construction auxiliary systems operation and control and monitoring and diagnostics of generators Generator protection inspection practices and methodology and auxiliaries inspections are also examined The final two chapters are dedicated to maintenance and testing and maintenance philosophies upgrades and updates The handbook includes over 420 color photos and 180 illustrations forms and tables to complement the topics covered in the chapters Written with a machine operator and inspector in mind Handbook of Large Hydro Generators Operation and Maintenance Instructs readers how to perform complete machine inspections understand what they are doing and find solutions for any problems encountered Includes real life practical field experiences so that readers can familiarize themselves with aspects of machine operation maintenance and solutions to common problems Benefits experienced and new power plant operators generator design engineers and operations engineers Is authored by industry experts who participated in the writing and maintenance of IEEE standards IEEE C50 12 and C50 13 on the subject Handbook of Large Hydro Generators Operation and Maintenance is an ideal resource for scientists and engineers whose research interest is in electromagnetic and energy conversion It is also an excellent book for senior undergraduate and graduate students majoring in energy generation and generator operation and maintenance

**The Relay Testing Handbook #7: End-to-End Testing** Chris Werstiuk,2013 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 Go to <http://relaytraining.com> product end to end testing print for more information This paper will NOT be part of the final Relay Testing Handbook

**Electrical Power System Protection** A. Wright,C. Christopoulos,2012-12-06 Electrical Power System Protection provides practising engineers with the most up to date and comprehensive one volume reference and

tutorial on power system protection available Concentrating on fundamental methods and technology and with extensive examples drawn from current practice internationally this book will be a major reference tool for engineers involved with and affected by power system protection **Static Control Application Manual** General Electric Company. General Purpose Control Department,1958 *ESC 89* David J. Murray-Smith,J. Stephenson,R. N. Zobel,1989 *The Official Railway Guide* ,1879 *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 Journal of the Institution of Engineers (India) ,1991 *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 **Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,1984 **Machinery** Lester Gray French,1951 Mechanical Engineering ,1951 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908 *Standard Handbook for Electrical Engineers Sixteenth Edition* H. Wayne Beaty,Donald Fink,2012-08-30 THE MOST COMPLETE AND CURRENT GUIDE TO ELECTRICAL ENGINEERING For more than a century the Standard Handbook for Electrical Engineers has served as the definitive source for all the pertinent electrical engineering data essential to both engineering students and practicing engineers It offers comprehensive information on the generation transmission distribution control operation and application of electric power Completely revised throughout to address the latest codes and standards the 16th Edition of this renowned reference offers new coverage of green technologies such as smart grids smart meters renewable energy and cogeneration plants Modern computer applications and methods for securing computer network infrastructures that control power grids are also discussed Featuring hundreds of detailed illustrations and contributions from more than 75 global experts this state of the art volume is an essential tool for every electrical engineer Standard Handbook for Electrical Engineers 16th Edition covers Units symbols constants definitions and conversion factors Electric and magnetic circuits Measurements and instruments Properties of materials Generation Prime

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web children of the mind is the fourth and final novel in the ender quartet continuing precisely where xenocide leaves off in fact the novel begins even at the moment when si wang mu the young servant girl from path joins ender s brainchild peter to join him in his mission to stop the lusitania fleet from destroying lusitania meanwhile ender

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