

GEC Measurements

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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:

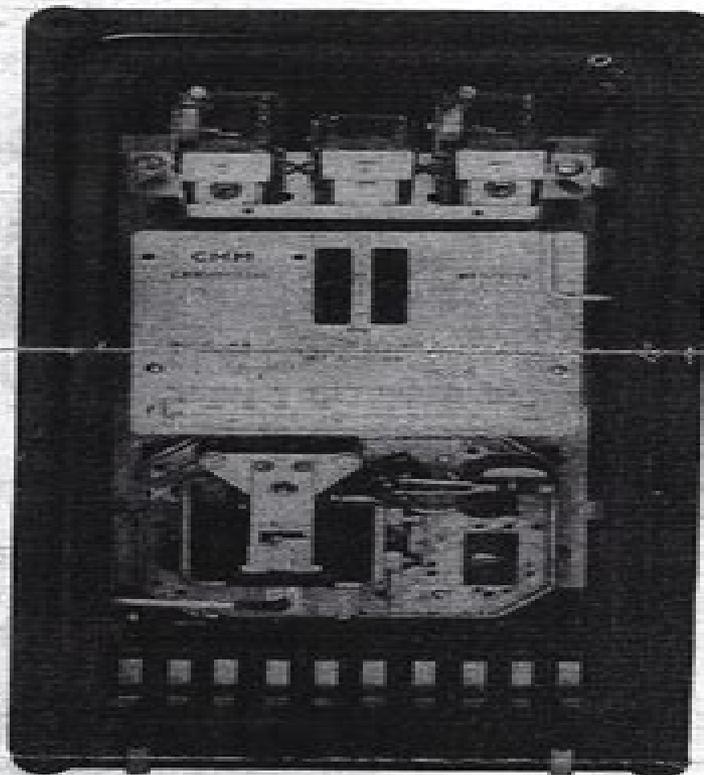
Relay type		Protection provided
Standard	Long-time	
CMM11	CMM12	Thermal only
CMM21	CMM22	Thermal Instantaneous Earth Fault
CMM31	CMM32	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance and Single-Phasing
CMM41	CMM42	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance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

1104 7011

Gec Protection Relay Manual

Tao Wei



Gec Protection Relay Manual:

Decoding **Gec Protection Relay Manual**: Revealing the Captivating Potential of Verbal Expression

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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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