

VAPM 31

Fuse Failure Relay



VAPM31 Relay is used for detection of failure or inadvertent removal of voltage transformer secondary fuses and for prevention of incorrect tripping of circuit breakers.

Features

- High speed operation
- Compact and robust construction
- Positive action

General Description

Type VAPM 31 relay consists of a static rectifier circuit with a long core hinged armature output unit. Three coils for the three phases are wound over a single core producing in effect a common relay for the three phases. Each coil is connected across one of the voltage transformer secondary fuses and under healthy conditions, this coil is short circuited by the fuse and cannot be energised. When one or more fuses blow or are removed,

the appropriate coil(s) is energised and the relay operates immediately to open the trip circuit.

Successful prevention of false tripping relies on the high speed of the VAPM 31 relay, which operates faster than most schemes of protection but cannot begin to function until the fuse is completely blown. In practice, however, most VT fuse failures are caused by deterioration or accidental removal and fuse blowing time is not important.

Technical data

Coil Rating

110V, 50 Hz phase to phase, phase to neutral series impedance of the distance or other relays in series with the fuse failure relay should not exceed 1000 ohms i.e. the voltage circuit burden should be greater than 4VA per phase.

Operating time

Time between failure or removal of voltage transformer secondary fuses and opening of normally closed contact is less than 7m seconds. Refer Figure 1 for time/voltage curve.

Thermal Rating

110% of rated voltage continuously.

Burden

3.5VA per phase at rated voltage during operation.

Operation indicator

Hand reset operation indicator provided.

Contacts

One make, one break self reset contact. Break contact is faster in operation than make contact.

Insulation

The relay meets the requirements of IEC 3231:1965/IEC 255-5 Series C-2 KV for 1 minute.

External & internal connections

Typical external and internal connections are shown in Figure 2.



- Directly operates circuit breaker trip coils
- High Reliability
- High speed operation
- Immunity to wiring capacitance discharge

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General Electric Company

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Table of Contents Vapm31 Relay Manual

1. Understanding the eBook Vapm31 Relay Manual
 - The Rise of Digital Reading Vapm31 Relay Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Vapm31 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 Vapm31 Relay Manual
 - User-Friendly Interface

4. Exploring eBook Recommendations from Vapm31 Relay Manual
 - Personalized Recommendations
 - Vapm31 Relay Manual User Reviews and Ratings
 - Vapm31 Relay Manual and Bestseller Lists
5. Accessing Vapm31 Relay Manual Free and Paid eBooks
 - Vapm31 Relay Manual Public Domain eBooks
 - Vapm31 Relay Manual eBook Subscription Services
 - Vapm31 Relay Manual Budget-Friendly Options
6. Navigating Vapm31 Relay Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Vapm31 Relay Manual Compatibility with Devices
 - Vapm31 Relay Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vapm31 Relay Manual
 - Highlighting and Note-Taking Vapm31 Relay Manual
 - Interactive Elements Vapm31 Relay Manual
8. Staying Engaged with Vapm31 Relay Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vapm31 Relay Manual
9. Balancing eBooks and Physical Books Vapm31 Relay Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vapm31 Relay Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Vapm31 Relay Manual
 - Setting Reading Goals Vapm31 Relay Manual
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Vapm31 Relay Manual
 - Fact-Checking eBook Content of Vapm31 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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