



INSTRUCTIONS

GEH-2024A
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MULTICONTACT AUXILIARY RELAY

Type HFA51

DESCRIPTION

INTRODUCTION

The HFA51A and HFA51B relays are instantaneous, hinged armature, multi-contact, auxiliary relays. They have six electrically separate contact circuits adaptable for either circuit opening or circuit closing application. This arrangement permits a number of operations to be performed simultaneously.

The HFA51A and HFA51B relays are available for front or back connection. The front connected relays are suitable for surface mounting only.

The back connected relays are suitable for either surface mounting or semi-flush mounting; a steel flange is necessary for the latter. There are two types of flanges available: one provides mounting with normal cover; one provides mounting with the drawout-case type cover.

CHARACTERISTICS

The HFA51A relay is self reset and has an instantaneous dropout.

The HFA51B relay is hand reset by means of a plunger assembly installed through the transparent cover.

Unless the relays are ordered with a specific contact arrangement, they will be shipped with six circuit closing contacts (Code 60). The contact arrangement can be easily changed to provide any of the combinations shown in Table I.

RATINGS

The Type HFA relays are available with coil ratings for standard voltages up to 575 volts at 25, 50, or 60 cycles and up to 250 volts d-c.

The current closing rating of each contact is 30 amperes. The current carrying rating is 12 am-

peres continuous or 30 amperes for one minute. Table II lists the non-inductive interrupting capacity of each contact.

TABLE I

Code No.	60	51	42	33	24	15	06
Position No.	Contact Arrangement						
1	a	a	a	a	a	a	b
2	a	a	a	a	b	b	b
3	a	a	b	b	b	b	b
4	a	b	b	b	b	b	b
5	a	a	a	b	b	b	b
6	a	a	a	a	a	b	b

Note: a = Normally Open b = Normally Closed

TABLE II

DC		AC	
Volts	Amperes	Volts	Amperes
12	30	115	30
24	15	230	20
32	10	460	15
48	8	575	10
125	3		
250	1		

BURDENS

The burdens are measured with the relay in the picked up position and at rated voltage are listed in Table III.

TABLE III

DC COILS		AC COILS		
Watts		Freq. Cycles	Volt-Amperes	Watts
Cold	Hot			
7.8	6.0	25	10	4
		50	23	9
		60	32	12

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

LOW VOLTAGE SWITCHGEAR DEPARTMENT

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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

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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 moreUse logic comparators and timersConvert relay settings from one logic format to anotherConvert logic schemes into DC schematics to help understand and commission logic systemsUnderstand 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

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Protective Relays General Electric Company,1976 Switchgear Data General Electric Company,1950 *Induction Differential Relays* General Electric Company,1928 **Protective Relays Application Guide** General Electric Company,1966 *Protective Relays Application Guide* The General Electric Company Limited,1975 **General Electric Type HFA Relay Contact Gap and Wipe Setting Adjustments** ,1983 *The Relay Testing Handbook* Chris Werstiuk,2020-07 **Protective Relays** General Electric Company,1976 *Protective Relays and Equipment* General Electric Company. Power Systems Management Business Department,1980

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Table of Contents General Electric Ctmf Relay Manual

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

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