

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:

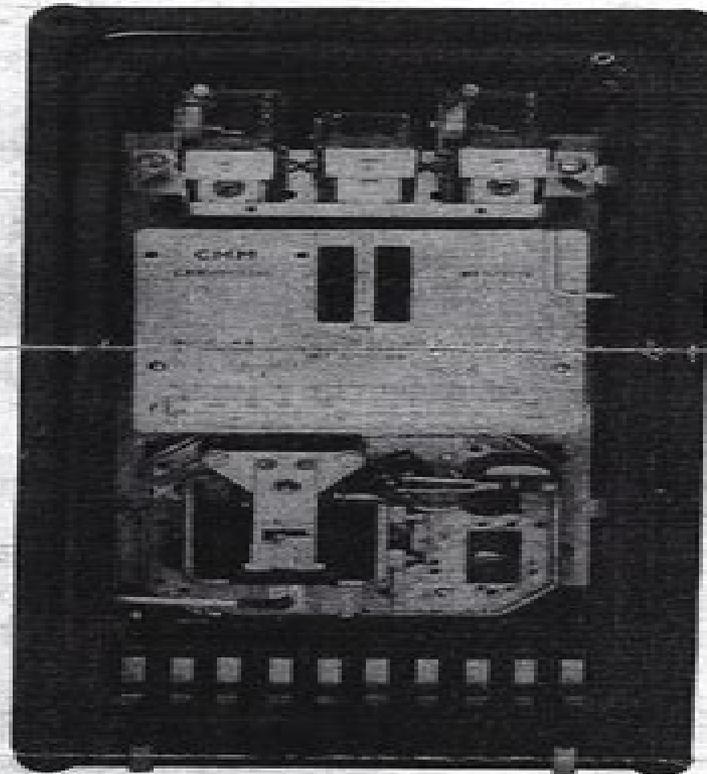
Relay type		Protection provided
Standard	Long-time	
CMM11	CMM12	Thermal only
CMM21	CMM22	Thermal Instantaneous Earth Fault
CMM31	CMM32	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance and Single-Phasing
CMM41	CMM42	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance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

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Gec Vax Relay Manual: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Gec Vax Relay Manual : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Gec Vax Relay Manual : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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