

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:

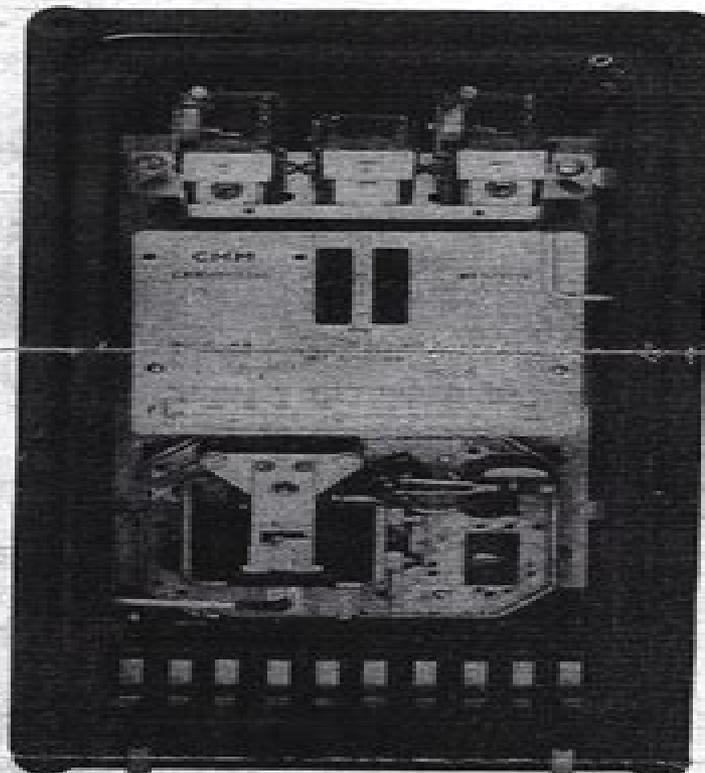
Relay type		Protection provided
Standard	Long-time	
CMM11	CMM12	Thermal only
CMM21	CMM22	Thermal Instantaneous Earth Fault
CMM31	CMM32	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance and Single-Phasing
CMM41	CMM42	Thermal Instantaneous Three-Phase Overcurrent Instantaneous Unbalance 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 (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 CMM11 relay in size 1 1/2 drawer 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

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