

CAG 14 & CAG 34

Circulating Current Relay



CAG14 relay is applied for high impedance restricted earth fault protection of generator, transformer, reactor and bus bars. It is also used with a follower timer for time delayed earth fault protection. Other applications include capacitor bank unbalance protection, generator inter turn fault protection etc.

Features

- Simple and robust construction.
- High stability on external faults.
- Sensitive high speed protection on internal faults.

Application

- Differential protection of ac machines, reactors, auto transformers and bus bars.
- Balanced and restricted earth fault protection of generators and transformer windings.
- Transverse differential protection of generators and parallel feeders.

Application

In circulating current protection schemes, the sudden and often asymmetrical growth of the system current during external fault conditions can cause the protective current transformers to go into saturation, resulting in a high unbalanced current. To ensure stability under these conditions, the modern practice is to use a voltage operated, high impedance relay, set to operate at a voltage slightly higher than that developed by the current transformers under maximum external fault conditions.

Type CAG 14 relay, used with a stabilizing resistor, is designed for such applications where sensitive settings with stability on heavy through faults are required.

Type CAG 14 relay has its operating coil connected in series with small choke and capacitor forming a series resonant circuit. This circuit is energized from an internal autotransformer which is tapped to provide seven equally spaced current settings.

The relay circuit, tuned to the supply frequency, rejects the harmonics produced by CT saturation. A slight time delay on operation helps to provide stability on heavy external faults and is obtained by allowing the auto transformer to saturate above the relay setting. This limits the current supplied, and the relay operates only on the slower part of its time/current curve.

The external stabilizing resistor supplied with the relay allows continuous adjustment of the relay voltage setting over a wide range. The total impedance of the relay and the series stabilizing resistor is usually low enough to prevent the current transformers developing voltages over 2 kV during maximum internal faults, but in some applications a non-linear resistor is required to limit this voltage.

Types CAG 14 and CAG 34 are single and triple pole relays respectively.

Common Benefits

- High stability on external faults
- Tuned to rated frequency
- 25ms operating time at 5 times current setting

Cag Relay Manual

**United States. Office of Naval
Research**



Cag Relay Manual:

Manual of Operations U.S. Civil Aeronautics Authority,1939 Electrical Systems and Equipment D.J. Littler,2014-03-14 Electrical Systems and Equipment is the work of some 50 electrical design specialists in the power engineering field based largely on the work and experience of GDCD s Generation Development and Constructor Division of the CEGB Electrical Branch The volume describes the design philosophies and techniques of power engineering the solutions to the large number of design problems encountered and the plant which has been chosen and developed to equip electrical systems both within the different types of new power station and modification tasks at existing stations Catalog of Aeronautical and Allied Technical Documents United States. Army Air Forces. Matériel Command,1946 **Motor's Truck & Tractor Repair Manual** ,1971 **Navy Research Task Summary, 1961** United States. Office of Naval Research,1962 **Navy Research Task Summary** United States. Office of Naval Research, **Indian Journal of Power and River Valley Development** ,1975 **Action of the governors under 39 U.S.C., section 3625, and suporting record in the matter of postal rate and fee increases, 1971** United States. Postal Rate Commission,1972 **Approach** ,1982 The naval aviation safety review *Atmospheric Electric Field Mill* Louis Wijnberg,1959 **Space/aeronautics** ,1965 The Signal Engineer ,1917 *The Post Office Electrical Engineers' Journal* ,1948 *Instruction[s]* Sperry Gyroscope Company,1940 *The Postal Bulletin* ,1968 *Canadian Aviation* ,1941 **Patents for inventions** ,1932 The Oil and Gas Journal ,1942 **Action of the Governors Under 39 U.S.C. Section 3625 and Supporting Record in the Matter of Postal Rate and Fee Increases, 1971: Pocket No. R71-1 Before the Postal Rate Commission** United States Postal Service,1972 Electronic Products Magazine ,1984

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