

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 14 Relay Manual

Brendan G. Carr



Cag 14 Relay Manual:

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 **Manual of Operations** U.S. Civil Aeronautics Authority, 1939 **Catalog of Aeronautical and Allied Technical Documents** United States. Army Air Forces. Matériel Command, 1946 Approach, 1982 The naval aviation safety review **Navy Research Task Summary** United States. Office of Naval Research, **Navy Research Task Summary, 1961** United States. Office of Naval Research, 1962 **Action of the governors under 39 U.S.C., section 3625, and supporting record in the matter of postal rate and fee increases, 1971** United States. Postal Rate Commission, 1972 *F-8 & RF-8 Crusader in Detail & Scale* Bert Kinzey, 2019-04-02 Detail Scale produced its first book on the F 8 Crusader in 1988 and it was one of the most successful titles in the Detail Scale Series This new work F 8 RF 8 Crusader in Detail Scale brings our original work forward 31 years enriched with much new content more photos mostly in color and the addition of dozens of illustrations and full color profiles The photographic collections of some of the very best aviation photographers have been opened to Detail Scale and several recognized experts have also contributed to this new book resulting in a new more comprehensive and much larger publication on the Crusader The book begins with a comprehensive developmental and operational history of the Crusader a jet fighter that achieved a number of firsts and went a long way towards bringing Naval carrier based fighters to a level equal to and in some cases surpassing that of land based fighters This is followed by a chapter covering every variant of the Crusader produced for the U S Navy and Marines from the prototypes all of the F 8A B C D E variants and their upgraded versions after the remanufacture program the two seat TF 8A both the original and remanufactured versions of the RF 8 photo reconnaissance variant and the XF8U 3 prototype often considered the best aircraft ever canceled Chapters on the F 8s used by NASA in advanced flight research and the Crusaders used by the French Navy and the Philippine Air Force follow An area of wholly new content is contained in a chapter on the Crusader in the Vietnam War A summary of how the Navy and Marines used the F 8 and RF 8 in Vietnam is provided including a listing of every fighter squadron that flew the Crusader in combat A comprehensive table lists all of the F 8 carrier deployments carried out by the Navy fighter squadrons as well as the Marine squadrons that flew out of Da Nang Air Base South Vietnam The chapter concludes with color photographs and full color profiles of all nineteen F 8s responsible for the confirmed destruction of MiGs in air combat A comprehensive chapter on Crusader Details long the hallmark of the Detail Scale brand follows This chapter contains nine sections covering the cockpit windscreen and canopy fuselage landing

gear wings tail engine armament and ECM equipment details Complete coverage of almost every square inch of the various variants of the Crusader is provided through 141 high resolution photographs and illustrations 127 in full color As with all Detail Scale books the final chapter covers the scale models of the Crusader from the early kits that are now only collector s items to the gamut of kits that have been available for the past half century The standard modeling scales of 1 144th 1 72nd 1 48th and 1 32nd are treated as separate sections and the available models in are reviewed F 8 RF 8 Crusader in Detail Scale is an extensively detailed look at the F 8 Crusader with more color photos of this iconic Navy fighter than any other book ever published This digital version features 110 pages 259 high resolution photographs 239 in color 25 full color profiles and 19 Illustrations *The Postal Bulletin* ,1968 **Space/aeronautics** ,1965 The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces ,1910 American Machinist ,1926-07 The National Engineer ,1978 Vols 34 contain official N A P E directory 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 **Postal Bulletin** ,1984 *Monthly Index of Russian Accessions* Library of Congress. Processing Department,1959 **Monthly List of Russian Accessions** Library of Congress. Processing Department,1958-10 *Relay Manual* General Electric Company,195? *Relay manual* ,1957

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