

Inverse Time Overcurrent and Earth Fault Relay

Types CDG 11 and CDG 16

The type CDG11 relay is a heavily damped induction disc unit with an inverse definite minimum time/current characteristic. The relay gives selective phase and earth fault overcurrent protection in time graded systems to transformers, a.c. machines and feeders, etc., and ensures that a minimum number of circuit breakers are tripped to clear a faulted section (see Application Sheet R-5087).

The operating coil is wound to give time/current curves of the same shape on each of seven current taps which are selected by a plug setting bridge. The highest current tap is automatically selected when the plug is removed, so that adjustments can be made on load without open-circuiting the current transformer.

The relay has a high torque movement to ensure consistent timing even under adverse conditions, and a low burden and overshoot. Adjustment of the time setting is made by rotating a knurled moulded disc against a graduated time multiplier scale.

A high set overcurrent unit (type CAG) can be fitted in the same case to provide instantaneous protection under maximum short circuit conditions (see Application Sheet R-5087).

The type CDG21 relay is either a double pole version (with two earth fault units or two overcurrent units) of the type CDG11, or type CDG11 with an instantaneous unit.

The type CDG31 relay is a triple pole version (with three overcurrent units or two overcurrent units and one earth fault unit in the centre) of type CDG11.

Current Settings

Equally Spaced Tap Ranges

10-40%, 20-80% or 50-200% of 0.5, 1.0 or 5.0A, 50 or 60 Hz adjustable in seven equal steps.

Graded Tap Ranges

10-40%, 20-80% or 50-200% of 0.5, 1.0 or 5.0A, and 30-120% or 80-320% of 5A, 50 or 60 Hz adjustable in seven unequal steps as follows: 25%, 30%, 37.5%, 50%, 60%, 75% and 100% of top tap value.

Starting Current

103-105% of current setting

Closing Current

115% of current setting (117% when fitted with a mechanical operation indicator)

Resetting Current

The maximum current up to which the disc will completely reset is 90% of current setting.

Time settings

0-1.3 seconds at 10 times current setting or 0-3.0 seconds at 10 times current setting (B.S.142:1966)

Resetting Time

With the time multiplier set at 1.0 the resetting times of the above are four seconds and nine seconds respectively.

Overshoot

On removal of a current equal to 20 times current setting the overshoot times of the above are 0.065 second and 0.04 second respectively.

Burdens

Standard (3 VA nominal)-

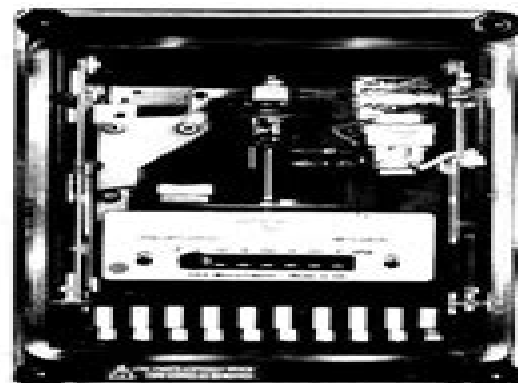
- 2 VA at current setting on lowest tap
- 3.5 VA at current setting on highest tap

Alternative with lower operating torque

- (1 VA nominal)-
- 0.75 VA at current setting on lowest tap
- 1.3 VA at current setting on highest tap

Thermal Rating

The relay will withstand twice the setting current continuously and 20 times the maximum setting current for three seconds.



Accuracy

The relay is calibrated at 50 Hz or 60 Hz and 20°C and falls into error class index E7.5 as given in B.S.142:1966.

Frequency Error

Less than 8% for frequency variation of 2 cycles; the time grading of a protective system would be unaffected by this error since all the relays would be similarly affected.

Temperature Error

For an overload equal to 10 times the current setting, the percentage timing errors at +45°C and -5°C are respectively:

- 1.3 second relay -4% and +4%
- 3.0 second relay -3% and +4%

Auxiliary units and operation indicators

Shunt reinforcing or series seal in auxiliary attracted armature units with a hand reset operation indicator can be fitted. Relays supplied without an auxiliary unit have a hand reset operation indicator mechanically operated by the disc.

Standard coil ratings

Voltage operated (shunt) auxiliary units: 30, 110, 125 or 220 V d.c. at a nominal burden of 3 W continuously rated.

Gec Cdg Relay Manual

Chris Werstiuk



Gec Cdg Relay Manual:

Journal of the Institution of Engineers (India). Electrical Engineering Division ,1982 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

Journal of the Institution of Engineers (India). ,1983 *Relay Manual* General Electric Company,195? **Relay manual** ,1957 *Relay Setting Manual* Pennsylvania Electric Association,197? The Relay Testing Handbook #6D Chris Werstiuk,2009-08 As modern protective 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 Practice or it can be ordered by itself as a soft cover book Adobe Acrobat PDF digital download or both Paperback 70 pages Trim Size 8 5x11 Publisher Valence Electrical Training Services LLC Language English ISBN 13 978 1 934348 13 0 LCCN 2012934622 *The Relay Testing Handbook #1D* Chris Werstiuk,2007 As the first of The Relay Testing Handbook series Electrical Fundamentals for Relay Testing contains the underlying electrical theory that all relay testers should understand This information provides a foundation that all other handbooks in the series use when describing the most common protective elements how they function and the most effective and efficient procedures used to test them Even experienced relay testers can benefit from having this manual on hand as a quick reference when facing an unfamiliar relay testing situation Use the practical examples outlined in this volume to help you Understand the three phase electrical system Create and understand phasor diagrams Apply Delta and Wye connections Understand the power triangle Understand basic transformer theory Understand current and potential transformers and connections Recognize the most common fault types and when to apply them Recognize the most common system grounding techniques

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