

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)-

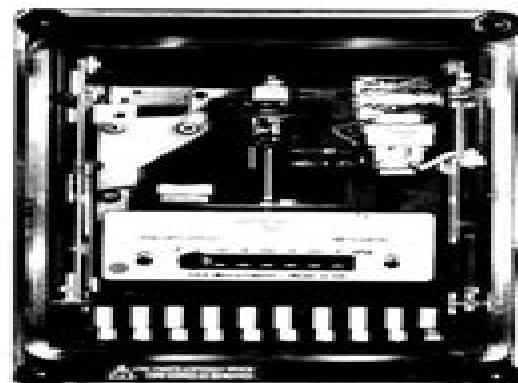
- 2 VA at current setting on lowest tap
- 3.5 VA at current setting on highest tap

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.

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