

Type CDG 11 Overcurrent and Earthfault Relay for AC Series Tripping

CDG 11 relay
produced from 1991



Features

- Identical time/current characteristics on all legs.
- High torque, ensuring consistent timing even under adverse conditions.
- No overshoot.
- Simple construction, easily accessible.
- Dust tight drawout case and tripolished finish.

Application

Selective phase and earthfault protection in time graded system for AC machines, transformers, feeders etc. These relays are used where dc tripping supply is not available and trip the circuit breakers directly using the current from the current transformers.

General description

The CDG-series trip relay is a slightly modified version of type CDG 1-1 relay which incorporates a secondary winding on the electromagnet of the CDG-relay and an instantaneous unit. When the disc unit operates and closes its contacts, the instantaneous element connected across the secondary winding on the electromagnet operates, and opens its normally closed heavy duty contacts to allow the fault current to flow through the circuit breaker trip coil. The relay will safely control ac trip coil currents upto 1.50 amps. at 110 volts. When the trip currents/ voltages exceeds these values, an external series resistor with or without a shunt choke is required. In all other respects, the ac series tripping relay is identical to the plain inverse time-current relay type CDG 1-1.

Technical data

The operating coil can be supplied suitable for operation from 5.0 amps. or 1.0 amp. CT secondaries and the following standard setting ranges are available.

50 - 200% adjustable in seven equal steps of 25%.

20 - 80% adjustable in seven equal steps of 10%.

10 - 40% adjustable in seven equal steps of 5%.

Starting current

100 - 105% of current setting at TMS 1.0.

Closing current

Not more than 130% current setting.

Resetting current

The disc will completely reset at 90% or more of the current setting.

Cdg 11 Relay Manual

R Sanford



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Technical Manual United States. War Department, 1961 International Conference on Industrial Power Engineering,
3-5 December 1986 ,1986 **Journal of the Institution of Engineers (India).** ,1983 **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 *Telephony* ,1961 **Water and**
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web circuit diagram for flashing led with pic16f877a design this circuit in proteus connect the pins with the source ground and oscillator as explained in the pin description section connect 8mhz oscillator with osci and osc2 through two 22 pico farad capacitors provide 5 volt to reset pin through 10k ohm resistor