

PROTECTION RELAY WITH MECHANICAL TRIP BUTTON

ABSTRACT OF THE DISCLOSURE

A digital protection relay (100) equipped with a mechanical trip button (18) is disclosed. The protection relay (100) comprises:

- 5 a signal processing module (10) for converting input energizing quantities from a current transformer into a digital value and a comparator (12) for comparing measured-energizing quantities with a threshold setting value;
- a mechanical trip button (18) being latched with output tripping contact (20) connected to a shunt trip coil (30) of the circuit breaker (24);
- 10 a timer (16) linked to a pick-up signal device (16) for inputting a time delay;
- a comparator (12) containing a threshold setting value for comparing with input energizing quantities;
- a real time clock (84) is linked to event recorder (82) for inputting a time reference; and
- an event recorder (82) for storing a tripping event, thereby the operation of the output tripping
- 15 contact (20) will energize and cause the circuit breaker (24) to trip and the mechanical trip button to pop out.

(FIG. 1)