

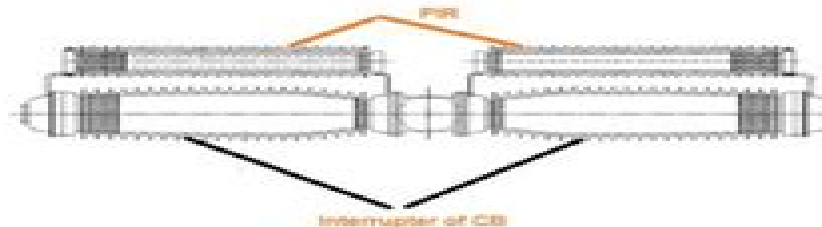
# Pre-insertion Resistor and Grading Capacitor in Multi Break Circuit Breaker

July 8, 2016 by admin

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Two types of Circuit Breakers are used in 400 kV Switchyard. They differ in only one features i.e. Pre Insertion Resistor (PIR). One type has PIR whereas other has no such provision. Both type of breaker are self-compensating Spring to Open and Spring to Close type. SF<sub>6</sub> gas is used as arc quenching medium. The normal pressure of SF<sub>6</sub> gas is 6 bar(g).

Figure below shows a typical Grading Capacitor used in Double Break Circuit Breaker.



## Purpose of PIR:

PIR is pre-insertion-resistor. This is a resistor of about 200-400 ohms which gets closed before closing the circuit breaker. The sequence is (close order)->closing of PIR->10-12milliseconds->closing of main break.

But while opening, PIR is first disconnected by the Breaker operating mechanism and then i.e. after 10 ms, main contacts of Breaker are opened. The main purpose of PIR is to limit the initial charging current of line. As the charging current of long line will be much more, it is advisable to use Breaker having PIR in long transmission line.

When electrical circuit having capacitance or transformer which can have inrush. Also transformers may have large inrush current. Transmission line (due to its capacitance) is another such circuit.

# Manual Insertion Time Resistor

**RJ Alexander**



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