

Chapter 11

Directional Overcurrent (67) Element Testing

1. Application

Instantaneous overcurrent (50) and time overcurrent (51) protection can protect equipment from overloads and short circuits, but there are situations where their ability to protect a system is limited. Many applications exist where the direction of current is not fixed due to multiple sources and/or parallel feeders that prevent simple overcurrent protection from adequately protecting the electrical system. Directional overcurrent (67) protection only operates if the current flows in a pre-defined direction to provide more selective and sensitive protection.

Previous generations of directional overcurrent protection were limited by the construction materials available at the time and used different connections to determine the operating direction and sensitivity. Some of their operating parameters were based on power elements. Operating times varied depending on the magnitude of current and the measured phase angle compared to the maximum torque angle (MTA). Modern directional (67) elements operate like standard overcurrent elements (50 or 51) with a switch that turns the protection on if the current flows in the trip direction.

The most common directional overcurrent applications are listed below and described in the next few sections.

- A) Parallel Feeders
- B) Transmission Line Ground Protection
- C) Power Flow

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