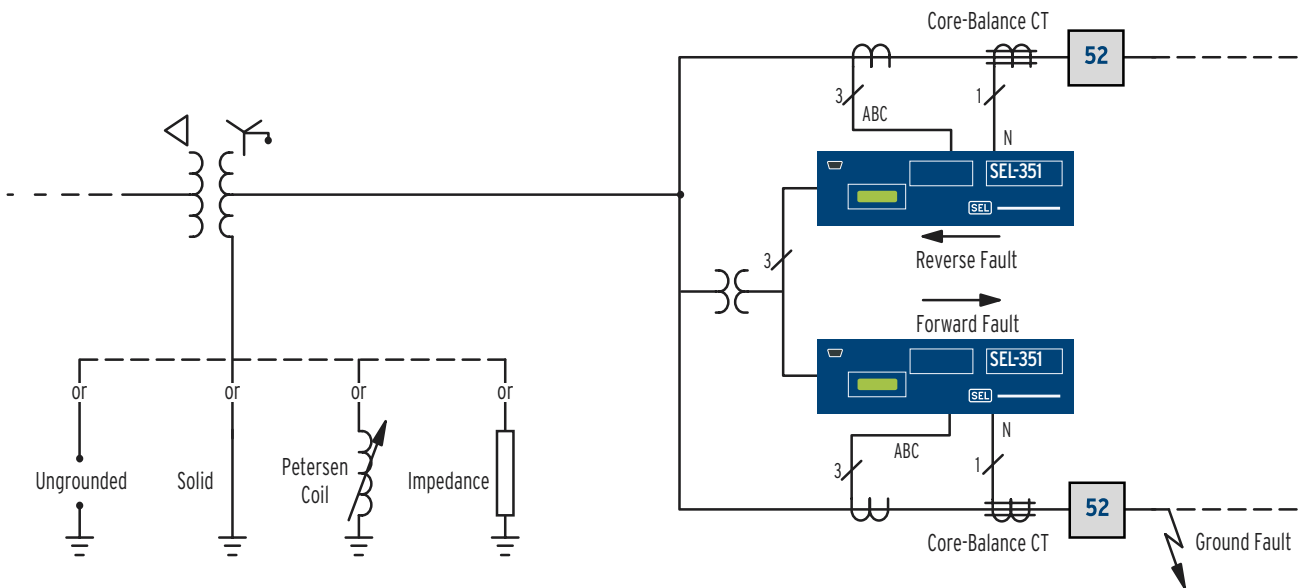




SEL-351 Best Choice Ground Directional Element™ System

New Directional Ground Protection for Petersen Coil Grounded, Impedance Grounded, and Ungrounded Power Systems



SEL provides capabilities and settings for ALL TYPES of grounded systems in ONE relay.



Major Features and Benefits

- **Directional Ground Protection**
Quickly and selectively trip the faulted feeder on multiple feeder bus configurations to improve system reliability.
Sense faults with as much as 10,000 ohms using wattmetric element.
Sense faults with as much as 100,000 ohms using new incremental conductance element (patent pending).
- **Best Choice Ground Directional Element™ Logic**
Maintain sensitive protection for a wide range of fault currents, even for grounding system configuration changes.
- **All Directional Ground Features in One Relay Model**
Minimize expense of spare relays and engineering time by standardizing on all applications using the same relay model.
- **High-Current Rating Neutral Channel**
Realize enhanced service reliability of the sensitive neutral current channel with a thermal rating of 500 A for one second.

Making Electric Power Safer, More Reliable, and More Economical

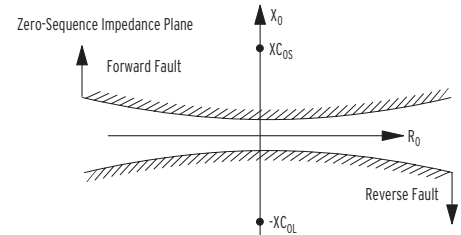
SEL-351 Directional Ground Fault Technology

Traditional and New Methods

Specify SEL-351 Relays with sensitive directional ground fault protection elements for Petersen Coil grounded, impedance grounded, and ungrounded distribution systems. A traditional wattmetric element and a new, more sensitive incremental conductance element provide ground fault protection for Petersen Coil grounded systems (below). Variations of existing SEL ground fault protection technology provide a zero-sequence reactance element for ungrounded/high-impedance grounded systems (right) and protection for low-impedance grounded systems.

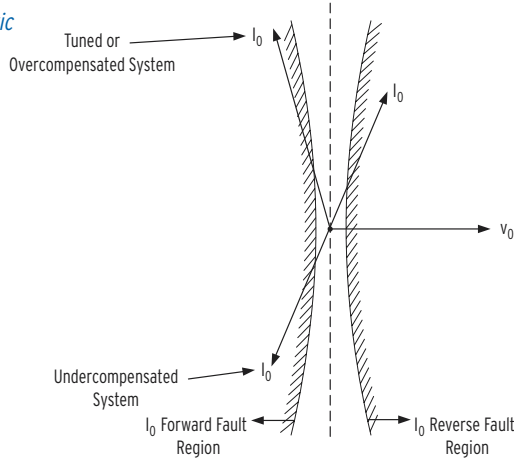
Ungrounded/High-Impedance Grounded System Protection

New, zero-sequence reactance element operating characteristic (patent pending).

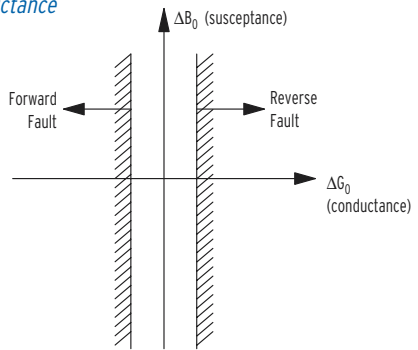


Petersen Coil Grounded System Protection

Traditional wattmetric element operating characteristic.



New, more sensitive incremental conductance element operating characteristic (patent pending).



Specifications

AC Current Input - Neutral Channel IN

0.2 A nominal; 15 A continuous, 500 A for 1 second, linear to 5.5 A symmetrical. 1250 A for 1 cycle.

Burden: 0.002 VA @ 0.2 A, 1.28 VA @ 15 A

Instantaneous/Definite-Time Overcurrent Element Pickup Range - Neutral Channel IN

0.2 A nominal; 0.005 - 2.500 A, 0.001 A steps.

Time-Overcurrent Element Pickup Range - Neutral Channel IN

0.2 A nominal; 0.005 - 0.640 A, 0.001 A steps.

Commitment to Quality

Schweitzer Engineering Laboratories, Inc. is committed to quality. Our certification to the ISO 9001 quality standard and our ten-year product warranty are examples of this commitment. We encourage and appreciate your feedback, and we will use this information to continually improve our products and services.



Contact Us

SEL sales representatives are prepared to assist you. Contact your nearest sales representative, application engineer, or customer service representative at (509) 332-1890. Visit our web site at www.selinc.com for more information.

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