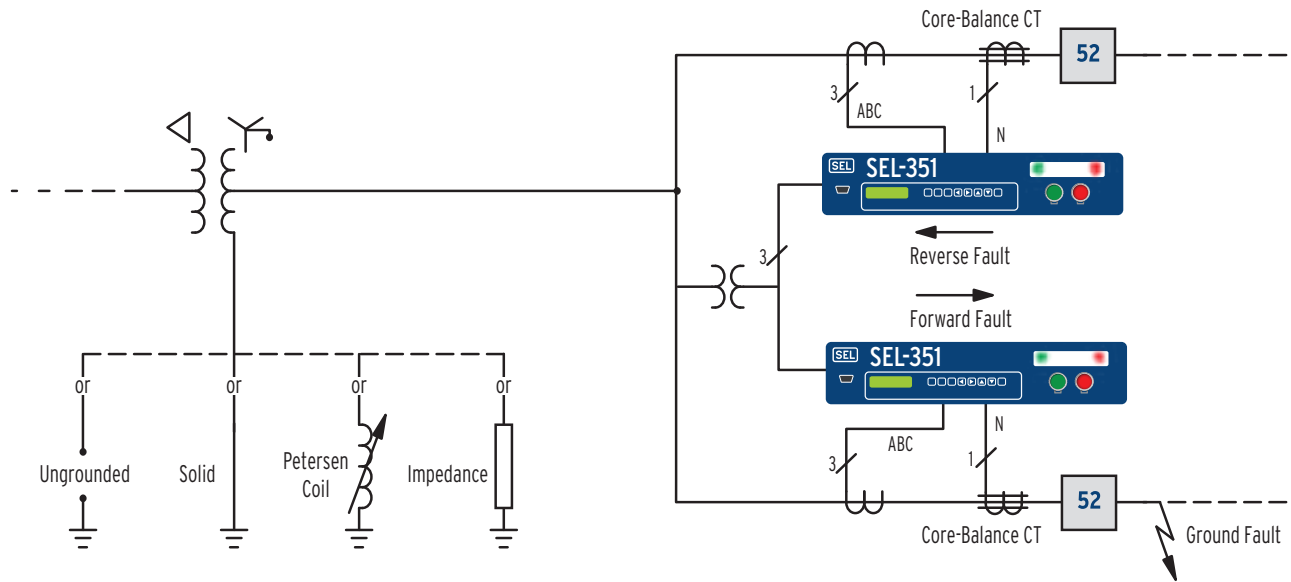


Best Choice Ground Directional Element[®] System

For Petersen Coil Grounded, Impedance Grounded, and Ungrounded Power Systems



*SEL provides capabilities and settings for **all types** of grounded systems in **one relay**.*



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 the wattmetric element. Sense faults with as much as 100,000 ohms using the incremental conductance element.

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.

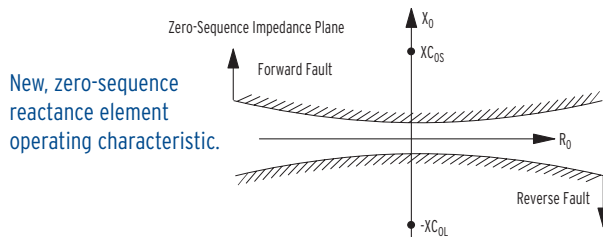
Making Electric Power Safer, More Reliable, and More Economical[®]

SEL-351 Best Choice Ground Directional Element System

Traditional and New Methods of Directional Ground Fault Technology

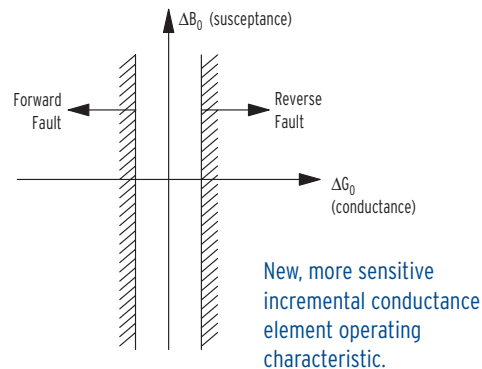
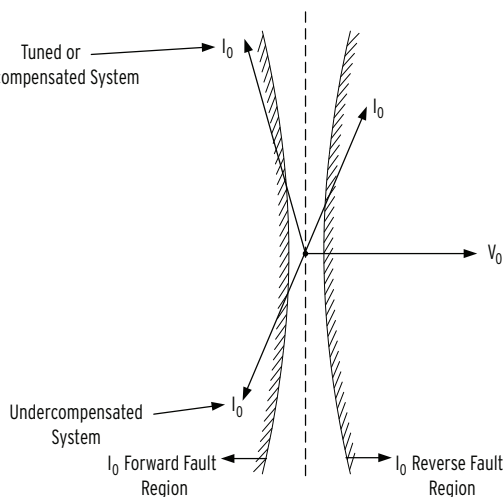
Specify SEL-351 Relays with sensitive directional ground fault protection elements for Petersen Coil grounded, impedance grounded, and ungrounded distribution systems. A traditional wattmetric element and a new, more sensitive incremental conductance element provide ground fault protection for Petersen 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



Petersen Coil Grounded System Protection

Traditional wattmetric element operating characteristic.



General 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



Pullman, Washington USA
Tel: +1.509.332.1890 • Fax: +1.509.332.7990 • www.selinc.com • info@selinc.com

© 2002-2011 by Schweitzer Engineering Laboratories, Inc. PF00031 • 20110707

