

Klaus Winter
Swedish Neutral, Stockholm, Sweden

RCC GROUND FAULT NEUTRALIZER. MODERN NEUTRAL GROUNDING IN MEDIUM AND HIGH VOLTAGE GRIDS

ABSTRACT

Resonance grounding is the dominating concept for earthfault protection in European distribution networks. The increasing cableing of these networks has sideeffects on the efficiency of fault current compensation and arc-extinction on overhead lines.

A newly developed Ground Fault Neutralizer with residual current compensation not only restores the efficiency of fault current compensation on overhead lines but also provides immediate and safe arc extinction on cable faults.

The fast and complete disarming of an earth fault without supply interruption – today especially aiming at safe arc extinguishing in cable grids – enables for customer oriented disturbance management.

Keywords: Resonance grounding, System Grounding, Earthfault Protection, Groundfault Protection, Petersen coil, Residual current compensation