

In this paper, the characteristics of inter-turn short circuit fault of rotor insulation structure are analyzed, and the optimal diagnosis method for generator running state and shutdown state is obtained with ...

A inter turn fault in the stator winding of a generator causes a large circulating current to flow in the shorted turns. If left undetected, turn faults can propagate, leading to phase-ground or ...

In steam turbines the steam acts as a coolant, maintaining the blades at a constant temperature. Failure of the steam supply can cause overheating of the blades. On some machines the temperature rise is ...

The coils of modern large turbogenerators are usually single turn and hence they do not need turn-to-turn protection. However, Generator Inter Turn Fault Protection is provided for multi-turn generators ...

Not only against winding inter-turn faults, but it also provides protection against all the types of short-circuits within the stator winding. This protection scheme is applicable only for the ...

This paper derives and explains two novel protection elements for generator turn-to-turn fault protection: 60SF and 87SF. These elements are based on the AT balance between the fields created by the ...

The contribution of this research is to formulate a method of doubly-fed induction generator (DFIG) inter-turn stator fault detection that is applicable when this machine operates ...

High voltage generators have many conductors per slot in the stator winding, so inter turn fault protection is often needed. Additionally, modern practice makes inter turn protection essential ...

The protection of avoiding the interturn insulation is a function of how well the machine is designed, maintained and operated. The OEM of the generator usually provides recommendations to avoid any ...

When the inter turn short circuit occurs in the stator winding of a diesel generator set, it disrupts the electromotive force balance between the three relative neutral points A, B, and C of the ...

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