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A novel crowbar protection technique

Abstract - This paper proposes a terminal crowbar protection technique for Doubly Fed Induction Generators (DFIG) to protect the rotor converter and enhance network stability during grid disturbances. Simulation test using MATLAB-Simulink toolbox is implemented on a 9 MW wind farm exports its power to a 120 KV grid.

A Novel Crowbar Protection Technique for DFIG Wind Farm...

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CONCLUSION: The crowbar effect technique proved successful as an alternative antegrade method for opening CTO. The procedure of this novel method is easy to accomplish and success rates are high. The procedure of this novel method is easy to accomplish and success rates are high.

Novel “crowbar effect” approach to improve success rate...

The former is realistic when speakers containing crowbar protection have to be driven. The speakers’ crowbar circuit may be replicated as a test jig, and triggered by an external DC source. The triac’s or (SCR’s) rate of shorting, because there is no contact bounce, is much more incisive as well as faster than mechanically applied shorts.
The thyristor or SCR can offer a very easy but effective method of providing a crowbar circuit to protect against this eventuality. Analogue power supply failure modes One failure mode is for many analogue regulated supplies is that the series pass transistor can fail with a short circuit appearing between the collector and emitter.

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To protect the DFIG against voltage dips, the primary solution is using hardware protection devices, such as crowbar and chopper. However, during the activation of crowbar, the DFIG absorbs a large amount of reactive power from the power grid, which can’t help and even deteriorate the voltage recovery.

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