

Abstract

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Analysis of the Dynamic Behavior of a DFIG during Grid

Nowadays, wind power has been developed very fast in the world and the installed capacity of wind turbine has been increased rapidly. Doubly Fed Induction Generator (DFIG) has been applied very popularly for its many advantages. When the grid voltage dip occurs, a crowbar beside the Rotor Side Converter (RSC) is usually activated. In this paper the effect of the active crowbar resistance are studied and analysed. The active crowbar is control to limit the rotor current and dc-link voltage. Simulation results based on MATLAB/SIMULINK are discussed.