Abstract

Power quality is one of major concerns in the present era. It has become important, with the introduction of industrial devices, whose performance is very sensitive to the power quality that results in a failure of user equipment's. Voltage sag is one of power quality problem which is caused by industrial device like as induction motor. To solve this problem, custom power devices are used. One of those devices is the Dynamic Voltage Restorer (DVR), which
Power Quality Improvement in Distribution System using Non-Conventional Energy Storage system DVR is the most efficient and effective modern custom power device used in power distribution networks. The paper analyses and to mitigate voltage sag caused by starting of induction motor using without energy storage system DVR with PWM controller. A test system is simulated in Matlab/Simulink to prove the effectiveness of proposed control strategy with DVR.

References


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**Index Terms**

Computer Science  
Power Systems

**Keywords**

Dynamic Voltage Restorer  
Voltage Sags  
Hysteresis Controller  
Power Quality