

## **SIMULATION AND ANALYSIS OF RIDE THROUGH CAPABILITY OF ADJUSTABLE SPEED DRIVE FOR TYPE B VOLTAGE SAG**

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### **Abstract**

Process control and energy conservation are the two primary reasons for using an Adjustable Speed Drive. However, voltage dips are the most important power quality problems facing many commercial and industrial customers. The development of Boost converters has raised much excitement and speculation throughout solid state drive applications. Now utilities are looking to these devices for performance improvement and reliability in a variety of areas including drives applications. In this paper, type B dip on Adjustable Speed Drives are analyzed by using the Boost converter. Simulations are carried out using MATLAB to analyze the performance of Boost converter. The voltage dip is compensated up to 50 % using Boost converter.

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**Keyword :** ASD (Adjustable Speed Drive), Boost converter, voltage dip.