

عنوان مقاله:

Z-Source Inverter based Dynamic Voltage Restorer

محل انتشار:

اولین کنفرانس بین المللی الکترونیک قدرت و سیستم های درایو (سال: 1388)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

In this paper, a new topology is proposed for ZSource Inverter (ZSI) based Dynamic Voltage Restorer (DVR) which is fed through a source side shunt rectifier. In the proposed system, the size of energy storage element is decreased in compare with the conventional systems where the rating of located power electronics devices is less than the systems using ZSI or boost choppers. The proposed system is able to compensate long and significantly large voltage sags and can acceptably reduce the downstream fault current. The proposed system is simulated in PSCAD/EMTDC and the results show the correct operation of the system.

کلمات کلیدی:

Dynamic voltage restore, Z-source inverter

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