

Title: Current source inverter reverse voltage

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Using reverse blocking IGCTs in a CSI offers significant benefits compared to present GTO or thyristor solutions and allows higher inverter ratings and switching frequencies.

This paper proposes a new IMD based on a current-source inverter (CSI) topology that offers several performance improvements over existing IMD configurations.

Integrated motor drives (IMDs) can provide high power density, simplified installation, and easier retrofits for fixed-speed motors with adjustable speed drives (ASDs) in pump/fan applications. ...

A current source inverter is schematically shown in Fig. 1. Each of the positions can be a single switch or a series connection of several switches with small RC snubbers for voltage sharing.

In the last two (5.7-5.8) lessons in this module, the circuit and operation of different types of single-phase and three-phase Current Source Inverters (CSI), with waveforms, will be ...

As power semiconductor devices in current-source inverters must withstand reverse voltages, standard asymmetric voltage blocking devices such as power BJTs, power MOSFETs, IGBTs, ...

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