
Abstract-- This paper is introduced a new modification for the simplest and well-known Three Phase, six Insulated Gate Bipolar Transistors (IGBT) switch voltage source inverter (VSI). In ...

This document describes a three-phase voltage source inverter that operates using a 150 degree mode of conduction. A MATLAB simulation was created to model the inverter circuit. An ...

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In this paper a 150° conduction mode of three phase voltage source inverter (VSI) is presented. In this mode of three phase VSI each switch conducts for 150° time period.

In this experimental study, it is aimed to design and manufacture a versatile VSI which can control the BLDC motor in both 120 and 150-degree conduction modes.

Operation and Simulation of Three Phase Inverter With 120°, 150° and 180° Conduction Mode

A variable output voltage can be obtained by varying the gain of the inverter, which is normally accomplished by pulse width modulation control within the inverter.

In 150 degree conduction mode of inverter, a 30 degree dead time period is provided between two switches which is large enough to avoid short circuit on dc supply.

150 degree voltage inverter

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For 150° mode, each thyristor conducts for 150° of a cycle in voltage source inverter (VSI). For completing one cycle of the output ac voltage unlike 180° mode & 120° mode inverter, 150° ...

This paper presented a novel conduction mode for the most-common, simple, and well-known six-switch three-phase voltage source inverter. Compared to 180° and 120° conduction modes, ...

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