

Comparison of PWM Techniques and Inverter Performance

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Abstract : Due to large application of induction motors in industries, it has become prudent to work on its speed control. As the inverter provides better sinusoidal voltage or current, speed control of machines becomes more fine. It is possible only if inverter gets better gate pulses. Hence for testing of quality of inverter output voltage or current, %THD and switching frequency are two important parameter. It also contain the output voltage or current at 3k Hz switching frequency.

Keywords - Different methods of PWM Techniques, SIMULINK Model of Different Techniques, Output characteristics of inverter, %THD of Output of Voltage or current Vs switching frequency.

I. INTRODUCTION

Alternating current (AC) power can be achieved from direct current (DC) power at desired output current or voltage and frequency through inversion [1]. Voltage-fed and current-fed are commonly used terms in inverter circuits. In voltage source inverter (VSI) DC input voltage is normally constant and it is also does not dependent on the load current which is drawn from it. The load voltage is decided by inverter and waveform of current is determined by the load. Power supply network (or) a rotating alternator through a rectifier (or) a battery, fuel cell, photo voltage array (or) Magneto Hydro Dynamic (MHD) generator provides DC input power to inverter. Inverter is of two types, voltage Source Inverters (VSI), and Current Source Inverters (CSI). In voltage source inverter DC source has small or negligible impedance that is it has stiff DC voltage source at its terminals. Low internal impedance provides the approximately constant voltage even after varying the load [2], [3]. Hence it is suitable to single motor and multi-motor drives. Short circuit at its terminal causes current to rise very fast, due to its low internal impedance. Current control does not regulate the fault current and hence should be cleared by fast acting fused links [4]. Normally machines do not perform smoothly due to large amount of %THD, which causes noise, vibration and heating in machines. Enough amount of research has already been done in this area suggesting different techniques for speed control of machines. The purpose of this paper is to give a detailed comparison of different techniques for control of induction machine. Through this paper, depending on the simulation result, a detailed comparison of the different techniques for control of machines has been done. This comparison is done on the basis of %THD at different frequencies for voltage and current.

1.1 Modulation Techniques

The fundamental idea of the PWM technique is to compare a high frequency wave or signal known as the carrier signal (a triangular signal with frequency f_c) to a signal of low frequency known as the reference-modulating signal (with frequency f_m). The frequency of the reference-modulating signal f_m is set the desired output frequency [4] [5]. In Sinusoidal Pulse width modulation technique for getting the pulses, it is required to compare sine wave with triangular wave [6] and in similar way Trapezoidal modulation is a technique to advance the control ability by using computation of PWM patterns. The output frequency of the converter is decided with the frequency of the modulating wave [7].Space vector PWM (SVPWM) is a digital modulating technique because its control strategies are implemented in digital systems. The purpose of this technique is to produce PWM load line voltages which are in average equal to given (or reference) load line voltages. Inverter with PWM is three stage separate push pull driver, which produces phase waveform independently. SVPWM inverter is used to offer 15% increase in the utilization of dc-link voltage and output which have low harmonic distortions in comparison to conventional sinusoidal PWM inverter. In SVPWM inverter is considered as single unit; specifically, the inverter can be driven to eight unique stages [8], [9].

II. Simulink model with different pulses

It is our motive to analyses the performance of inverter by giving above pulses to the 3-phase inverter. For this, it is required to develop three Simulink models for respective PWM techniques for the purpose of comparison of their output line voltages or current quality. Quality means what % of harmonic of its fundamental is present in line voltage or current which is provided to the stator to the motor. Hence % THD (total harmonics distortion) determines which output voltage is more close to sine wave.

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