

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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motor drive operations The control strategies explored include expert system based acceleration control hybrid fuzzy PI two stage control neural network based direct self control and genetic algorithm based extended Kalman filter for rotor speed estimation There are also chapters on neural network based parameter estimation genetic algorithm based optimized random PWM strategy and experimental investigations A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive development Authored by experienced scientists with over 20 years of experience in the field Provides numerous examples and the latest research results Simulation programs available from the book s Companion Website This book will be invaluable to graduate students and research engineers who specialize in electric motor drives electric vehicles and electric ship propulsion Graduate students in intelligent control applied electric motion and energy as well as engineers in industrial electronics automation and electrical transportation will also find this book helpful Simulation materials available for download at www.wiley.com/go/chanmotor *Techno-Societal 2020* Prashant M. Pawar,R. Balasubramaniam,Babruvahan P. Ronge,Santosh B. Salunkhe,Anup S. Vibhute,Bhuwaneshwari Melinamath,2021-06-19 This book divided in two volumes originates from Techno Societal 2020 the 3rd International Conference on Advanced Technologies for Societal Applications Maharashtra India that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations The focus of this volume is on technologies that help develop and improve society in particular on issues such as advanced and sustainable technologies for manufacturing processes environment livelihood rural employment agriculture energy transport sanitation water education This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region On the other hand technologies proposed by expert researchers may find applications in different regions This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science Engineering and Technology for reporting innovations at different levels

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web nov 25 2021 an example of a clinical impression would be as follows client is a 47 year old biracial male who exhibits

flat affect and speech is anergic appearance is disheveled unkempt and mood is dysphoric in terms of how the client appears emotionally he appears unwell and or unhappy dysphoric

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web samples of clinical impression statements the individual appears to be a reliable informant with sincere commitment to achieving goals by adherence to the developed treatment plan the individual exhibits moderate difficulty in social and occupational functioning that is compounded by significant medical financial and legal problems

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