

ENERGY SAVING IN SINGLE PHASE INDUCTION MOTOR USING PWM AC CHOPPER

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Abstract

The Objective of this work is to study the energy saving in single phase Induction motor fed from symmetrical pulse width modulation AC Chopper. It is easy to use MOSFET or IGBT to control the speed of Induction motor. The AC Voltage controllers using pulse width modulation have advantages like improved power factor and reduced harmonics. This paper describes digital simulation of an induction motor fed from an AC Chopper. The simulation is performed using MATLAB Simulink and the simulation results are presented. These results are compared with analytical values.