

Abstract

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Speed and Voltage Sensorless Field-Oriented Control of Induction Motor

The paper presents the field oriented control of an induction motor by using speed and voltage sensor less control algorithm. Details of the algorithm is presented using two approaches but system implementation and time of execution lead to preferring a new control algorithm (method II) which uses the current waveform to estimate the control components. The drive system is tested with the proposed control algorithm verify applicability to a CRPWM field oriented induction motor system.