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Abstract

This paper presents a methodology for indirect vector control of a double cage induction motor. Vector control or field oriented control offers more precise control of high performance drives where oscillations in air gap flux linkages are intolerable. The mathematical model of a double cage induction machine is proposed. The developed model is studied with constant V/f control taking the boost voltage into account and indirect vector control. A comparison is made between the two control methods. Finally Simulation results have shown better results with indirect vector control compared to constant V/f control.

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Keywords

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