Abstract

In this paper, a comparison between a classic direct torque control (DTC) and a modified (DTC) of a dual three phase induction machine (SPIM) will be introduced. In this work, the SPIM has a dual three phase windings spatially shifted by electrical degree which is equal to 60. SPIM drive has 64 inverter switching states which provide higher possibility in selecting space voltage vectors than three phase induction machines. The performances of those two control schemes are evaluated and compared by simulation in terms of flux and torque.

References

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**Index Terms**

Computer Science  
Control Systems

**Keywords**

Dual three phase induction machines  
Direct torque control.