

Paper Title: - Multilevel Inverter Fed DTC Control of Induction Motor Drive.

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Abstract – A Novel multilevel inverter structure is proposed for Direct Torque Control (DTC) control of induction motor drive. It is shown that the multilevel topology presents enough degrees of freedom to control both electromagnetic torque and stator flux with very low ripple and high speed dynamic response on other side. Simulation results, obtained with five-level inverter and seven-level inverter, are presented and compared. This analysis shows that feeding electrical drive with multilevel inverters can greatly improve the drive performance.

Keywords: DTC, Seven-Level NPC VSI, Five-Level Inverter, Switching Table, Induction Motor