

215. IMPLEMENTATION OF THREE-LEVEL NEUTRAL POINT CLAMPED INVERTER WITH SPACE VECTOR MODULATION TECHNIQUE

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At present multi-level inverters especially neutral –point-clamped (NPC) inverters are used in many applications as these are superior to two level inverters in performance, reduced THD level and increased power rating. Space vector modulation technique is a complicated one to implement but it will give better results as compared to general PWM techniques. In this paper SVPWM technique is employed to generate switching pulse to the three level NPC inverter switches so as to achieve better results as compared to general PWM switching methods. This study was simulated using MATLAB/simulink software.

Index Terms—Neutral Point Clamped, Pulse Width Modulation, Space Vector pulse width modulation, Total Harmonic Distortion.

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