

عنوان مقاله:

Space Vector Pulse Width Modulation optimized switching pattern in Three-level inverter with different objective functions

محل انتشار:

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خلاصه مقاله:

Inverter can be a constant or variable DC voltage, AC single and three phase voltages produce. There are several methods for controlling the output voltage of each harmonic in the output voltage hold. Reduction of low-order harmonics in Pulse Width Modulation SVPWM method of space vector pulse width modulation than other types of modulation such as trapezoidal, sinusoidal, modified sine, step, step by step, harmonic injection, Delta and the phase shift is more effective. Pulse Width Modulation switching elements in the vector space model of the switching frequency of each sector relative to the advantages and disadvantages of space can be enjoyed. This article from the perspective of objective functions such as harmonic distortion factor THD distortion factor DF, conduction losses, switching losses and harmonic components to the fundamental component of the presents. Implement the switching pattern observed for feeding a three-phase voltage and frequency variations switching from other research fields of this article

کلمات کلیدی:

The three-level inverter, conduction losses, switching loss, harmonic distortion ratio space vector pulse modulation

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