

Converter Configuration Suitable For Electronic Distribution Transformer

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ABSTRACT

A proposed AC to AC matrix converter which is suitable for electronic transformer is without energy storage elements will be analyzed as part of this paper. A Matrix Converter with 18 IGBTs and 22 diodes achieves the desired variable voltage, variable frequency performance using a three stage circuit. In the first stage three phase normal frequency voltage is converted to single phase high frequency voltage which in turn is converted to a pulsating DC voltage in the second stage. In the final stage three phase variable amplitude variable frequency voltage is generated from this pulsating DC voltage.

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