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Title: Three-phase inverter ripple

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Analysis of output current ripple of three-phase PWM inverters with discontinuous modulation is presented. The analytical expressions for discontinuous modulation injection signal are ...

Abstract: In this article, to mitigate the double-line frequency power ripple at dc-link caused by unbalanced grid voltage conditions, a developed virtual phase-current regulation (VPCR) ...

Abstract: This paper provides a comprehensive analysis of the capacitors voltage switching ripple for three-phase three-level neutral point clamped (NPC) inverter topologies.

A complete analysis of the dc-link voltage ripple for three-phase H-bridge configuration as well as for three-phase LDN configuration, considering both switching frequency and double ...

A detailed analysis of peak-to-peak current ripple amplitude is developed in this paper for three-phase three-level PWM inverters. Reference is made to centred and ...

Thus, the minimization of the DC-link ripple current is crucial to extend the lifetime of the DC-link capacitors and enhance the reliability of the 3L-VSIs. Several studies have been conducted to ...

The three-phase four-wire drive system (4wEL) has been proved to be available of realizing fault-tolerant operation. However, this type of electric drive system (EDS) still has ...

A detailed analysis of peak-to-peak current ripple amplitude ...

In this paper the complete analysis of peak-to-peak output current ripple is further developed for three-phase PWM inverters, with reference to continuous symmetric PWM, either carrier ...

In this paper, an analysis of output current ripple of three-phase PWM inverters with discontinuous modulation is presented. The analytical expressions for discontinuous modulation injection ...

Abstract The three-phase voltage source inverter (VSI) is de facto standard in power conversion systems. To realize high power ...

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