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CONTROLLED FILTER-COMPENSATING GEAR FOR THE AUTONOMOUS ELECTRIC POWER SYSTEM WITH HIGH-POWER CONVERTERS

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Abstract

Directions of improvement of controlled filter-compensator gear for the autonomous electric power system with semiconductor converters, which contains resonant LC-filter and reactor compensator with pulse-wide modulation are considered. The terms of concordance of frequency characteristics of electric power system with spectrums of harmonics, which are generated in to the network by semiconductor converters and reactor compensator were

established. Possibility and expedience of EMI filter application for reactor compensator as a part of controlled filter-compensator gear were shown. References 3, figures 4.

Key words: controlled filter-compensator gear, total harmonic distortion.

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