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ACTIVE CURRENT AND APPARENT POWER OF THREE-PHASE POWER SYSTEMS

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Abstract

It is shown that the apparent power of the three-phase power supply system is the average geometric value of the power losses and power of the source short-circuit. The Buchholz's formula of apparent power follows from this definition as a special case in the absence of zero sequence components of currents and voltages. The generalized formula for the first time introduced by Professor Fryze understanding of three-phase supply system active current that

transfers the given energy to a load with minimal losses is grounded. References 12, figure 1.

Key words: active current, apparent power, active filter, zero sequence component.

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