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POWER TRANSFORMERS WITH HIGH REACTANCE

ABSTRACT

In principle, the distribution transformers used for supply of larger electric power facilities are required to generate lesser voltage variation, that is lower reactance. However, it is sometimes necessary to have an increased or precisely determined reactance, higher than the usual value, for example, for AC or DC electric arc welding, for electric arc furnaces, neon tubes etc.

This paper presents a new way of winding arrangement on the primary and secondary of a given two-leg magnetic circuit in order to obtain the required reactance.

Keywords: transformer, reactance, windings, magnetic core.