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TYPICAL GROUNDING DEVICES FOR TOWERS OF THE 10 (20) KV OVERHEAD LINES AND THEIR CHARACTERISTICS

ABSTRACT

Family of groundings for towers of middle voltage overhead lines is proposed in this paper. Basic characteristic, i.e. resistance to ground and touch and step voltages are calculated for each of them and then presented in diagrams. Review and comments on the part of the technical regulations [1] treating the problem of grounding the overhead lines are also given in the paper. Using the proposed tables one can easily choose the most appropriate type of grounding of towers according to the technical rules and recommendations.

Keywords: grounding, MV overhead lines, grounding design, parameters of grounding devices.