

عنوان مقاله:

The Optimum Placement of Lightning Arrester in Distribution Networks on the Basis of Geographic Position (Case Study: Mazandaran)

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خلاصه مقاله:

One of the major problems of destruction the insulation system of electrical equipment in distribution networks in urban electricity, is surges resulting from clashing lightning to the equipment of distribution substation, that the Lightning Arrester is the best thing in use to protect for controlling these surge. In this paper, statistically, Mazandaran area is studied from the point view of level isokeraunic and the various parts of the cities analyzed from the point view of seaboard, plain and mountain side; and an optimum placement have been considered for the lightning Arrester. And according to the performed studies can conclude that the areas which are in high class from the level of Isokeraunic, they counted as the thundery places, like seaboard areas and mountainous areas, that it is essential to install 10 KA lightning Arrester. In urban areas that there are building and high skyscrapers, we can remove the lightning Arrester. and also in the places with sparsely populated we can set the 5 kilo ampere lightning Arrester in distribution lines.

کلمات کلیدی:

Lightning Arrester; Isokeraunic Level; Optimum Placement; Distribution Networks

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