

Distinguish, differentiate, compare and explain what is the Difference between surge and lightning arrester. Comparison and Differences.

Difference between surge and lightning arrester

Lightning arrester LA is installed outside and the effect of lightning is grounded, whereas surge arrester installed inside panels comprising of resistors which consumes the energy and nullify the effect of a surge.

Surge arresters

Surge arresters are used to protect power system installations and equipment against Lightning Overvoltages, Switching Surges etc. Generally, arresters are connected across the equipment to be protected, typically between phase and earth for three-phase installations. CG metal oxide Surge Arresters consist of active part, which is a series of highly nonlinear ceramic resistors made essentially of Zinc Oxide. Fine Zinc Oxide crystals are surrounded by other metal oxides (additives).

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