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Disk magneto-cumulative generator with opening switch of large diameter

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Disk magneto-cumulative generators with opening switches are used to generate current pulses of tens of megaamperes with a front of less than 1 μs in the liner loads. It is necessary to locate the foil at the large diameter to decrease the linear current density in the destroyed conductor; and hereby, to decrease the specific power of the thermal energy dissipating in the opening switch. This paper presents investigation results of the device based on the disk generator with high-explosive charges of 240 mm diameter and opening switch; its foil is located at the diameter of 600 mm.

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