

### عنوان مقاله:

The behavior of Fast Elongating Arcs Plasma in Current Limiting Circuit Breakers

## محل انتشار:

دومین کنفرانس بین المللی دانشجویان و مهندسان برق و انرژی های یاک (سال: 1402)

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#### خلاصه مقاله:

Arc voltage can be controlled by parameters like thermal dissipation and elongation of the switching arc in different geometries. These features have been used for the design of a fast opening Medium Voltage circuit breaker (CB) with significantly increased arc voltage compared to conventional breakers. Due to the increased arc voltage, it is possible to realize higher breaking capacities and to provide fault current limitation. In this work, the behavior of fast elongating .electric arcs in ambient pressure air has been studied experimentally

# کلمات کلیدی:

Air arc plasma, Variable-length plasma, Thomson electromagnetic drive; Fast-elongating arcs, Fault current limiter ,(FCL), Ultra-Fast air switches

## لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1848673

