

Circuit breaker in substation in Vietnam





Overview

What does a circuit breaker do in a substation?

Circuit breakers perform two fundamental roles in substations: (1) interrupt high fault currents safely to protect equipment and limit system disturbance, and (2) provide a means of making and routing power during normal operation (switching, sectionalizing).

What is a vacuum circuit breaker?

A vacuum circuit breaker is used when working with voltage ranges between 3 kV and 38 kV. Their construction comprises a vacuum container known as a bottle. Inside the bottle, there are moving and fixed contacts that open and close inside the vacuum chamber. This is the area of the circuit breaker where the arc quenching occurs.

What is an SF6 circuit breaker?

For outdoor usage, the units are normally affixed to a permanent structure. An SF6 circuit breaker contains an inert gas, Sulfur HexaFluoride (SF6) which acts as the medium for arc quenching in the unit. It's an excellent medium to use because it provides much better recombination and insulation for electrical systems.

What are the different types of oil circuit breaker?

There are two different types of oil circuit breakers: bulk oil circuit breakers and minimum oil circuit breakers. An airblast circuit breaker uses compressed gas or air to break the arc. This gas is stored in a tank that releases gas through a high-velocity nozzle.



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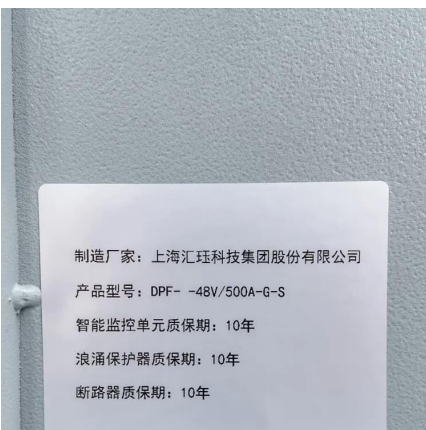
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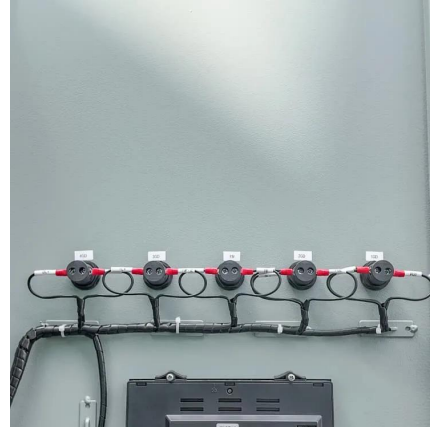
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