

特高压设备

1100 kV气体绝缘双断口断路器的开发与产品化

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摘要:

开发了一种用于气体绝缘组合电器(GIS)的1100 kV 50 kA SF₆气体双断口断路器(GCB)。研究了这种断路器的各种特性, 并成功完成了在绝缘、开断和机械性能等方面的型式试验。实现了GCB的小型化和轻量化。这种新开发的GCB已应用在中国特高压交流示范工程的GIS中, 并已于2009年年初投入使用。

关键词: 特高压; 1100 kV; 气体断路器; 气体绝缘组合电器

Development and Productization of 1100 kV Double-Break Gas Circuit Breaker

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Abstract:

A new 1100 kV, 50 kA double-break SF₆ gas circuit breaker (GCB) used in gas insulated switchgears (GIS) has been developed. Investigations on various performances have been made and type tests for items, such as dielectric, breaking and mechanical performance, have been carried out and successfully completed. Downsizing of GCB in size and weight was realized. The newly developed GCB was applied to GIS for Chinese UHV AC demonstration project and went into service at the beginning of 2009.

Keywords: ultra high voltage (UHV); 1100 kV; gas circuit breaker (GCB); gas insulated switchgear (GIS)

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