

Reasons for abnormal energy storage of intelligent circuit breaker

Mechanical faults are the main causes of abnormal opening, refusal operation, or malfunction of high-voltage circuit breakers. Accurately assessing the operational condition of high-voltage ...

Fault diagnosis of circuit breaker energy storage mechanism based on current-vibration entropy weight characteristic and grey wolf optimization-support vector machine IEEE Access, 7 (2019), pp. 86798 - 86809 ... Mechanical faults are the main causes of abnormal opening, refusal operation, or malfunction of high-voltage circuit breakers ...

A fault identification method for circuit breaker energy storage mechanism, combined with the current-vibration signal entropy weight characteristic and grey wolf ...

The circuit breakers are divided into according to the difference of the mediums that realize the arc extinguishing function. "With the popularization of the degreasing of the power system, the application of vacuum circuit breakers is increasing . This paper studies the of embedded intelligent circuit breakers based on the Things.

Abstract: This paper analyzes the reasons of abnormal energy storage and time-out signal of LW25-126 circuit breaker of a substation, puts forward preventive measures and countermeasures, and improves its related loop.

According to the investigation report of State Grid and CIGRE, it was found that the primary reason why circuit breakers refuse to move or not move is the failure of the operating ...

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Robust identification of the spring energy state in circuit breaker operating mechanism is of great significance for maintaining service performance. However, establishing a mapping relationship between the sampled signal and the spring energy storage state remains a key challenge limiting its widespread application. To solve this problem, this study proposes an intelligent ...

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Fig. 1 is the circuit breaker energy storage motor current data acquisition system, in which (1) is the auxiliary switch, (2) is the opening spring, (3) is the closing spring, (4) is the closing electromagnet, (5) is the opening electromagnet, and (6) is the transmission gear. (7) is an energy storage motor. We set the fault by adjusting the ...

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