

Kongres Container

Causes of short circuit in base station distribution box



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Overview

Human factors, such as temporary relocation of wires, switch boxes, distribution boards, etc. during civil construction, improper handling, accidental contact with overhead lines during construction, or damage to cables in the soil during excavation. What causes a short circuit?

Metallic Contact: Metal objects, such as nails or screws, can sometimes penetrate electrical wiring and create a direct connection between the live wires, leading to a short circuit. There are two main types of short circuits:
Normal Short Circuit: This occurs when the hot (live) wire directly touches a neutral wire.

What happens if a circuit is shorted?

The short-circuit current causes a voltage drop across impedance Z , causing the voltage at the low-voltage main distribution board to drop briefly (dip zone 1). In the event of a short circuit, the fuse in group 3 should trip. If this takes 100 ms until the fuse blows, the voltage in the entire system experiences a deep dip for 100 ms.

What happens if a distribution box is poorly grounded?

If the distribution box is poorly grounded, it may cause electrical system leakage, short circuit and other faults, and even cause electric shock accidents. 3. Wrong phase sequence The phase sequence in the distribution box should be correct, otherwise it may cause problems such as motor reversal and equipment damage.

What causes a distribution box to fail?

1. Environmental factors The operating environment of the distribution box has an important impact on its performance. Environmental factors such as high temperature, excessive humidity, and vibration may cause distribution box failures. 2. Human factors Human factors are also one of the important reasons for distribution box failures.

What causes a short circuit in a high-voltage network?

Short circuits in the high-voltage network Short circuits in the high-voltage network are often caused by thunderstorms or (faulty) switching operations. The latter especially in areas at the end of a high-voltage line. Voltage dips can lead to the failure of computer systems, PLC systems, relays, and frequency converters.

What happens if a distribution box is not maintained?

Insufficient maintenance The maintenance of the distribution box includes tightening screws, replacing aging components, etc. If the maintenance is insufficient, it may lead to loose electrical connections, component damage and other problems. IV. Environmental factors and human factors

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