

Five common faults of current transformer

1. Overheating

The phenomenon of current, overheating, smoke and flow in transformer may be caused by the poor connection of primary side wiring, serious oxidation of secondary side terminal board surface, turn to turn short circuit or insulation of current transformer.

2. Open the secondary side

At this time, the ammeter suddenly does not show any indication, and the sound of the current transformer increases significantly. The smell of ozone may be heard, and a slight discharge sound may be heard near the open circuit. The danger of secondary side open circuit includes: A. high voltage is generated, which poses a threat to the safety of equipment and operators. B. increase core loss, severe fever and equipment burnout. C. magnetic saturation in the core will increase the current transformer error.

3. There is sound or discharge inside.

If the surface of the current transformer is discharged, the surface of the transformer may become dirty, thus reducing the insulation. Internal discharge sound is the reduction of internal insulation of current mutual inductance, which leads to the interruption of discharge from primary side winding to secondary side winding and core.

4. The internal sound is abnormal.

As a result of:

The current transformer core fastening screw is loose, the core is loose, the vibration of silicon steel sheet is intensified, and the abnormal noise that does not change with the load is emitted; some iron cores have no-load or stop carrying a certain buzz due to the poor assembly process of silicon steel; when the secondary side is opened, the magnetic saturation and non sinusoidal magnetic flux make the silicon steel plate oscillate and oscillate unevenly, so as to produce a large noise. The overload of current transformer is serious, which leads to the increase of core vibration.

5. The oil filled current transformer leaks oil seriously.

When one of the above phenomena is found during the operation of current transformer, the load shall be transferred and the power cut shall be carried out immediately.