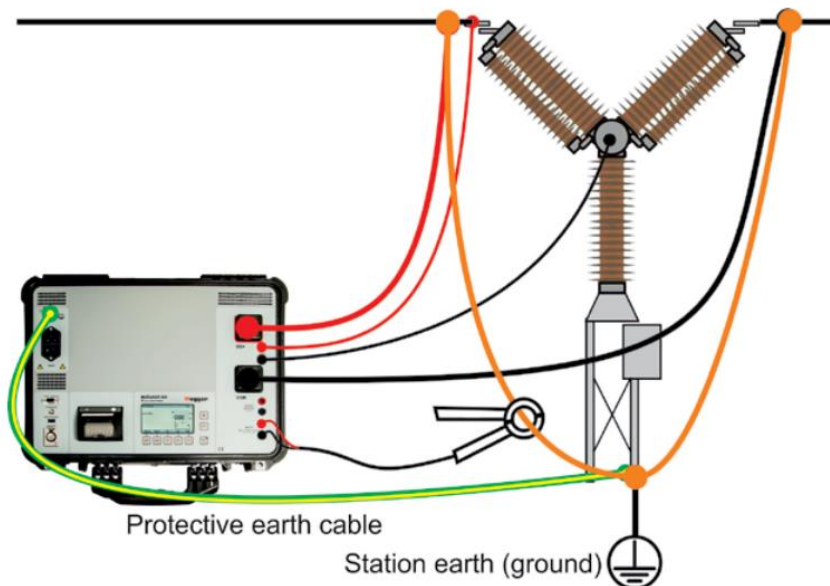


Contact resistance measurement of a circuit breaker with Mjölner 200-600, both sides grounded

Breaker test with Mjölner

This application note informs about how to perform a micro-ohmmeter test of breakers with both sides grounded. Valid for both Mjölner 200 and Mjölner 600

General



The above sketch shows a setup with Mjölner connected to a breaker for dual ground testing.

To make a simulation (a demo) of that setup, the below procedure shows how that could be done

Procedure

The below connection shows how Mjölner, the test object and the current clamp (CT) are connected.

The CT measures the “ground” current. In this example the ground current is a cable connected in parallel to the test object. The test object is the shunt.



Turn on the power switch on the CT (make sure the batteries on the CT are charged). The LED shall lit.

The CT has to be 0-calibrated before use. To do that, connect a multimeter set to DC mV. Turn the knob on CT to minimize the DC offset. Readings on multimeter should be as close as possible to “zero” mV.

Connect the CT to the “INPUT DC Current clamp”

Setting of Mjölner:

Start with setting the CT to “On” and type in the ratio of the CT
(See Mjölner user manual section 4. SM4 and SM5)

Select a current and start injection from Mjölner

In the below example. 150A has been selected to be generated from Mjölner.
The Display gives 144A through the test object. And 6.3A goes through the ground connection.

