

Instructions for cables test on 33kV Incoming cubicles

NOTICE

This manual doesn't explain the instruction of safety interlocking to be applied.

CAUTION

All of the operations explained in this manual should be performed on the cubicle out of service (during the commissioning or out of service).

In cases where it is required, the use of gloves was deliberately excluded from this documentation to provide more clarification for the tracking of operations.

Also, do not appear the markups, the safety instruction, locks or other devices required before any work on the equipment.

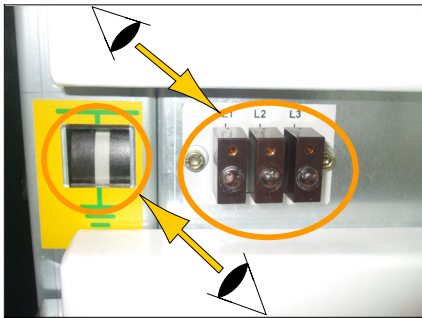
1 Devices for earthing and short-circuit

The devices for earthing can have different shapes.

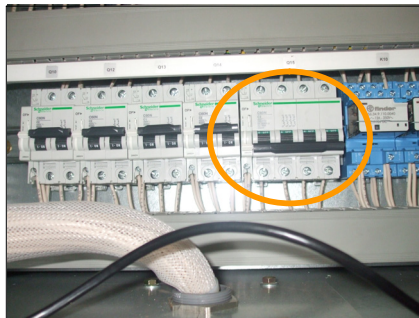
The clamps of tightening should be selected and adapted to anchor points considered.

2 Installation of a device for earthing switch

Consignment of the cable compartment



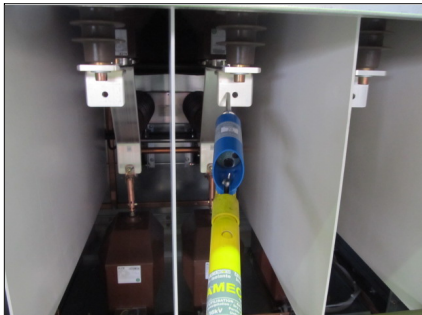
- Visually check the absence of voltage.
- Check that the earthing switch is closed.



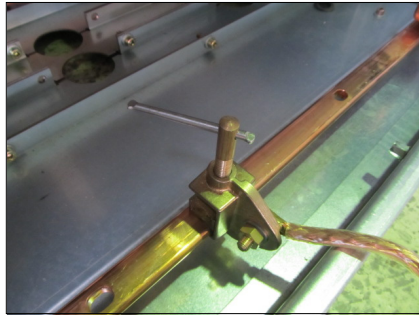
- Switch off the LV circuit breakers secondary VT in the LV cabinet.



- Open the cable compartment.



- Carry out the mandatory audit for absence of voltage on each phase.



- Fix the master jaw of the devices for earthing on the circuit main earth.



- Clip the first jaw on the insulating rod.
- Tighten the jaw on the phase L1 connection.



- Repeat for the other two phases.



- Switch the contacts of VT's primary connections.

3 Test procedure (tests of cables)



- Open earthing switch for tests.

Example of cable test phase L1

Connect the injection clamp on phase L1.

Put insulated gloves.

Disconnect the jaw of the devices for earthing on phase L1.

Note: The other 2 phases are always grounded.

Test this cable phase L1 (Max 100V DC current continuous).

Reconnect the jaw of the devices for earthing on phase L1.

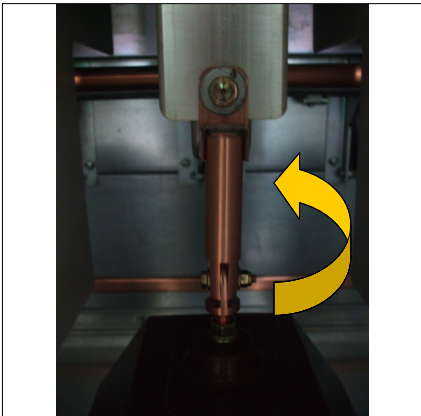
Disconnect the clamp injection on phase L1

Repeat for the other two phases.

After the tests of three phases

Close the earthing switch.

Reconnect the contacts of VT's primary connections.



- Remove the device for earthing.
- Close the cable compartment door.
- Switch on the LV circuit breakers of VT in the LV box.