

A device for detection and protective grounding phase of the main with insulated neutral comprises three circuits of measurement current, each of which comprises in series connected a capacitor, a resistor and a rectifying bridge connected between every phases and ground, comparison units and actuating relays, which contacts are connected between corresponding phases and a grounding device, power supply units. The rectifying bridges are shunted by resistors transforming current into correspondent voltages. The outputs of rectifying bridges are connected to the inputs of comparison units for comparing measurement voltages with reference voltages, designed using comparators supplied from separate rectifiers. The outputs of comparison units are connected to the actuating relay windings though an optical coupler, a blocking unit and amplifiers. The blocking unit is made using two two-input logic OR-NOT elements generating a command to connect one of the actuating relays and blocking switching the relay.