

The invention relates to electric power industry and deals with protection of electric equipment. Method for diagnostics is in fact that one measures voltage of zero sequence of bus section and s of zero sequence of connections of that section. One determines direction of instantaneous currents of zero sequence of connection of bus section and direction of instantaneous values of voltage of zero sequence at initial stage of transient process, with comparison of those and making decision from results on connection with bridging to earth. Technical result of the invention is in possibility of reveal of connection with one-phase bridging to earth at any method for neutral earthing without installation of additional equipment, provision of needed reliability, high accuracy of determination of connection.