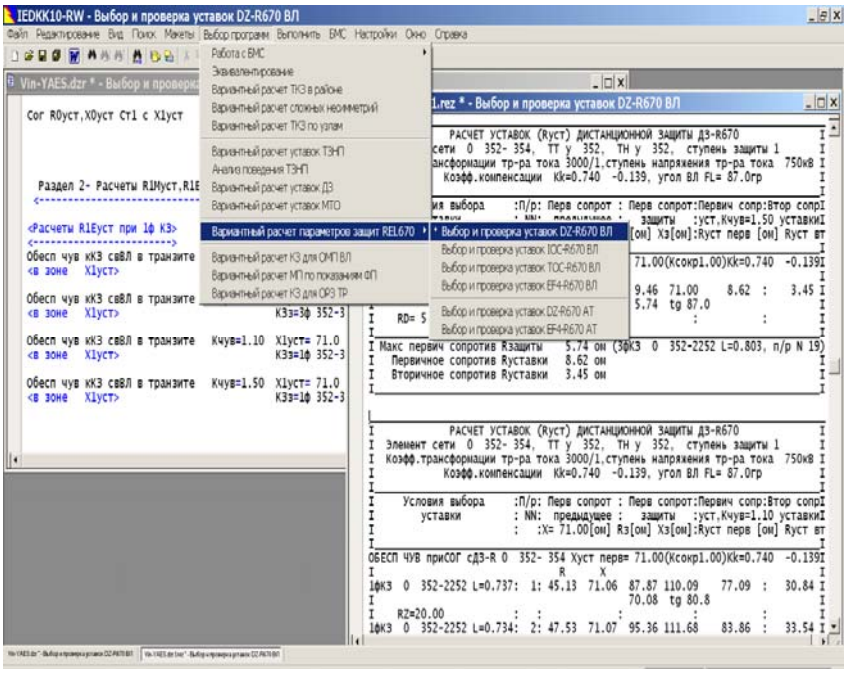
1.09. SOFTWARE COMPLEXES IEDKK10-SW, IEDKK10-RW

The software complexes are designed for automated calculations of emergency modes of overhead power transmission lines, and also the settings' calculations of standard relay protections and microprocessor devices such as Siemens 7SA** (7SA6**) and ABB REL6**.



Dialog box of IEDKK10-RW software complex

Characteristics

A volume of settlement network is up to 10,000 knots, which makes it possible to completely reflect in a basic mathematical model a scheme of network elements' substitution, take into account a discontinuity and branching of 110kV network, and all peculiarities of high-voltage networks of 330-750kV.

The factors that are taken into account:

- capacity susceptances and complex mutual induction of high-voltage lines;
- difference of EMF in magnitude and angle;
- transformation ratios of transformers and autotransformers;
- complex compounds of the elements of zero resistance;
- complex resistances of the elements, fault active resistances;
- parameters of load modes and electromechanical processes.

Advantages

The software complexes IEDKK10-RW and IEDKK10-SW (certificates of copyright registration № 59378 and 59379) are unique systems without any analogues in Ukraine and abroad. They are implemented on a number of power systems of Ukraine and Kazakhstan. Their usage provides high reliability, stability and efficiency of an operation of electric power systems and networks.