

Development of the software for automated calculation of relay protection and automaton «ARU RZA»: new program units and functions.

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The article describes main features and main program units of the software for automated calculation of relay protection and automaton «ARU RZA» (PVK «ARU RZA»). The text contains information about interaction of the user with model of network within implementation of the concept of tripartite representation of parameters of objects of electric network: in a graphic, tabular and text style. Much attention is given to features of the graphical editor, application of current sources to the modeling of FACTS devices, use of the combined calculation method in symmetrical components and in phase components, automatic calculation of equivalent circuit parameters on passport parameters of equipment, automatic formation of the protocol of calculation. Main features and advantages of calculation of relay protection and automation settings are described, furthermore main features of the program unit of operation analysis of relay protection with relative selectivity are described.

Keywords: software, short-circuit currents calculation, setting of relay protection, check of the electrical power equipment, operation analysis, overhead line, cable line.