

Automated process of calculation of relay protection settings and determination of the minimal number of generating equipment in the software «ARU RZA».

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The main requirements for the software designed to solve the problem of determining the minimal number of generating equipment under the conditions of correct operation of relay protection devices are described. The article also describes tools for automation of the process of selecting setpoints and analyzing the operation of relay protection. It is shown how these requirements are realized in program units as a part of the software («ARU RZA»). The operation of software units, input and output data, the advantages of each of the developed units are described in detail.

Keywords: software, short-circuit currents calculation, relay protection and emergency automation, relay protection settings, operation analysis, relay backup, minimal set of generators, automated calculation of relay protection settings.