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## **HARDWARE ELECTRICAL SAFETY PROBLEMS WITH OPERATION OF ELECTROTECHNICAL COMPLEXES WITH REGULATED ELECTRIC DRIVES IN MINING AREA DISTRIBUTION NETWORKS UP TO 1200V**

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### **Abstract**

*Set forth the author's vision of the structure protection devices against alternative operating leakage current for combined mining distribution networks. Conditions have been given an achievement of minimal normative safety and calculation of its settings according to standards*

of electrical safety. The measurement functions structural scheme was developed for monitoring and fulfillment of minimal safety conditions for continuous and short time currents passing through the human body. References 6, figures 2.

**Key words:** electrical safety, leakage current, insulation of the network, semiconductor power converters, electric adjustable, combined electrical networks, protection devices.

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