

The proposed controlled fuse system is designed for protecting an electric installation. The system contains controlled fuses, which are inserted in each phase circuit of the power line, and a control unit for controlling the fuses. Each fuse contains a casing with a fuse link that is connected in series to a temperature-sensitive element made of material with shape memory effect. The fuse link and the temperature-sensitive element are inserted between the contact terminals of the casing of the fuse. The outputs of the control unit are connected to the terminals of the corresponding temperature-sensitive elements, and the inputs are connected to the outputs of the performance parameters of the electric installation.