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MONITORING SYSTEM FOR STATE OF 10(6) KV SIGNALIZATION AND BLOCKING LINES ON RAILWAY

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Abstract

Implementation of monitoring system for state of signalization and blocking lines on railway has been examined. System supports fault location for single-phase earth faults by automatic analysis of current's null string vector. Use of artificial electrical network has been proposed, which creates needed parameters of null string circuit and evens phase to ground voltages. Mathematical model of electrical network has been developed to determine parameters of

monitoring system. References 6, figures 5, table 1.

Key words: railway power supply, mathematical model, insulated neutral, earth fault, fault location.

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