

Artur Rojek: Researches of Equipment and Electric Traction Power Supply Systems

The Electric Power Division of the Railway Research Institute conducts analyses, measurements, tests of electric traction supply systems, non-traction collections and high voltage equipment installed in rail vehicles. It performs expertise's and tests of short circuit protection and protection against electric shocks systems. The tests are performed in laboratories (including short-circuit ones), during field surveys and on electric traction supply objects. The Division performs research works of traction substations ad their elements, static inverters, short circuit protection and protection against electric shock systems, return circuit and its elements, pantograph and others. It conducts short circuit, load, heat, climate and other tests in accordance with requirements of standards for tested equipment and systems.

Keywords: electric traction supply, high-speed circuit breaker, short circuit current, rectifier set