INVESTIGATION OF UNIPOLAR CONTACTS WITH AXIAL MAGNETIC FIELD

ABSTRACT  The paper presents test results of contacts generating axial magnetic field. The distribution of the magnetic field was measured in a stand enabling investigation of different contact construction. Short-circuit tests were made in a dismountable vacuum chamber on two contact types generating axial magnetic field. The test circuit and the equipment used were described as well as the oscillograms and pictures of the diffusion arc of the interrupted short circuit currents recorded by means of a high speed camera are shown.

Keywords: distribution of the magnetic field, electric arc, vacuum circuit breaker, unipolar contacts