

3D Dynamic Linear Electromagnetic Actuator Modeling and Simulation

O. Craciun¹

¹ABB AG, Ladenburg, Germany

Abstract

Abstract: Single coil actuators are representing one important component of ABB's medium voltage reclosers. Their performance is strongly influenced by the considered material properties as well as by the electronic control units' properties that will power the actuator. Therefore, this paper focuses on electromagnetic actuators modeling and simulation in COMSOL Multiphysics®.

Keywords: medium voltage recloser, single coil actuator, 3D dynamic modeling, simulation, validation.

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