

FAST METHOD FOR ACCURATE FAULT TYPE DETECTION IN HIGH VOLTAGE NETWORKS

BY

FLORIN MUNTEANU and CIPRIAN NEMEȘ

Abstract. The paper focuses on a fast and reliable method fault type detection based on the initial value of the DC components of the short-circuit current in every phase. To avoid some ambiguous cases due to initial voltage phase at the fault initiation, the negative and zero sequence fault components are to be considered. Fast and accurate are the main attributes of this method due to lack of iterative calculations and to the qualitative analysis of the initial DC components.

Key words: short-circuit current; fault type detection; DC component.