ABSTRACT

Short circuit is one of the faults in an electric power system has transient characteristic which has to get settled by protection equipment. It happens because of increase of high magnitude current from normal state and become low voltage in fault location. This study explains simulation of short circuit in transmission line 150 kV in South Sulawesi. This method uses simulation with ATP/EMTP (Electromagnetic Transient Program) software is used to get current and voltage characteristic in transmission line 150 kV. The discussion of the study aim to research current and voltage change at short circuit condition with impedance fault or without impedance fault has been taken as example the short circuit of transmission line in BONE with BLKMB substation, so that the result is short circuit without impedance fault at three phase fault has transient current 8,882.1 A and at single phase to ground fault has minimum current 2,487.7 A, Whereas short circuit with impedance fault 5 Ohm at three phase fault has transient current 6,530.1 A and at single phase to ground fault has minimum current 2,260.0 A.
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