COORDINATION OVER CURRENT RELAY ON TRANSFORMER POWER IN GARDU INDUK MILLENIUM 15/20 kV

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ABSTRACT

In an electric circuit interference occurs most often to the interference resulting in a over current value exceeding the maximum on the system and the device, so voltage declined. So is required protection in chain electricity to the over current are over current relay is a relay woring against the over current. Gardu Induk as a means of a system of liaison electricity transmisin to primary distribution system that had a lot of electrical components, hence in the distribution should run smoothly, safe and reliable. Because in Gardu Induk having component parts very much ike to be protected by feeders, busbars, and transformer power that it takes a lot afo protection against any area the to be covered. Protection over current are plenty in electricity chain, protection tha is work hanging from the current disorder in areas. Protection can provide in a breaker (PMT) when power of disruption, so that the disease has not spread. But in going in safety against the gardu induk done against the side of early on to are busbars, feeders, and transformer power that constitutes the principal component gardu induk in conducting the distribution of electric power. To avoid possible racin between relai current to interference that occurs who to get failure relay who works we need to coordination in every relay to which it is attached started from the early (feeder) to side the end (transformer power) that interference has not spread to the areas a transformer power, Then valuation coordination is needed the time value of a delay, So that protection coordination delay on at the feeder until transformation power are 0.23 s, 0.4 s, 0.8 s, 0,57 s dengan nilai Tms 0.1, 0.23, 0.24, 0.34. So in the finished project discussed issues that need to be given attention to in setting relai and the coordination that is in the value of the stream and the provision of setting over current and delay in every relay each other so that they do not used to each other in each of the relay (coordinative).

Keywords : Over current relay, transformer power, interference of over current