

INTISARI

Kehandalan sistem distribusi dipengaruhi oleh seberapa cepat peralatan proteksi sistem berkerja untuk meminimalisir gangguan. FCO merupakan peralatan proteksi pertama untuk meminimalisir arus gangguan di jaringan fase tunggal (tegangan kerja 11.547 kV). Jika FCO tidak berkerja maka Recloser dan PMT akan berkerja untuk meminimalisir arus ganggan di jaringan tiga fase (tegangan kerja 20 kV). Berdasarkan data setting Recloser dan PMT, waktu kerja recloser selama 0.26 s. PMT *Outgoing* selama 0.41 s dan PMT *Incoming* selama 0.52 s. Sedangkan berdasarkan arus beban recloser dan PMT (Maret 2019) dapat dihitung waktu operasi recloser selama 0.268 s. PMT *Outgoing* selama 0.408 s dan PMT *Incoming* selama 0.519 s.

Kata Kunci - FCO , Waktu Kerja Recloser, Waktu Kerja PMT *Outgoing* dan PMT *Incoming*.

ABSTRACT

The reliability of the distribution system is influenced by how fast the system protection equipment works to minimize current's disruption. FCO is the first protection equipment to minimize current's disruption in single phase networks (11,547 kV). If the FCO does not work, the Recloser and PMT will work to minimize the current's disruption in the three-phase network (20 kV). Based on setting's data of Recloser and PMT, recloser has working time is 0.26 s. PMT Outgoing for 0.41 s and PMT Incoming for 0.52 s. Whereas, based on recloser and PMT load's currents (March 2019), recloser has operating time can be calculated for 0.268 s. PMT Outgoing has working time 0.408 s and PMT Incoming has working time 0.519 s.

Keywords – FCO, Working Time Recloser, Working Time PMT Outgoing and PMT Incoming