

ABSTRAK

Rangkaian Trip dari *Circuit Breaker* sangat penting fungsinya, yaitu sebagai rangkaian mekanik (*electronic*) yang menggerakkan *circuit breaker* untuk melepas koneksi listrik. Jika rangkaian trip rusak tanpa terdeteksi maka *circuit breaker* tidak akan terlepas (trip) meskipun relay proteksi sudah memerintahkan *circuit breaker* untuk melepaskan koneksi (*tripping*). Oleh karena itu di perlukan peralatan motor visual yang dapat senantiasa melakukan deteksi dini terhadap kerusakan *tripping coil Circuit Breaker*. Dengan adanya *tripping circuit supervisory* ini kerusakan rangkaian trip akan terdeteksi secara dini yang akan mencegah terjadinya gangguan jaringan listrik yang meluas sehingga layanan listrik ke konsumen tetap terjamin.

Kata kunci: *Trip Circuit supervisory, Circuit Breaker, Gardu Induk*



ABSTRAC

The trip circuit of a circuit breaker is very important, namely as a mechanical (electronic) circuit that drives a circuit breaker to release electrical connections. If the trip circuit is damaged without being detected, the circuit breaker will not be separated (trip) even though the protection relay has ordered the circuit breaker to disconnect (tripping). Therefore we need a visual motor equipment that can always make early detection of damage to the Triping coil Circuit Breaker. With this tripping circuit supervisor, damage to the trip circuit will be detected early which will prevent the disruption of the expanding electricity network so that electricity service to consumers is guaranteed.

Keywords: Trip Circuit supervisory, Circuit Breaker, Substation

