

STUDI HUBUNGSINGKAT UNTUK GANGGUAN DUA FASA ANTAR SALURAN PADA SISTEM TENAGA LISTRIK (Studi Kasus : PT. PLN Sumbar-Riau 150 KV)

Ichwan Yellianhar

*Jurusan Teknik Elektro, Universitas Negeri Padang
Padang, Sumatera Barat*

ABSTRAK

Perluasan sistem tenaga yang dilakukan oleh PT. PLN Sumbar-Riau menuntut perlunya analisis ulang terhadap rating peralatan pemutus tenaga (Circuit Breaker), seperti Circuit Breaker (CB) dapat mengoperasikan sistem tenaga listrik terhadap bahaya gangguan terutama gangguan hubungsingkat tidak simetris dua fasa antar saluran. Untuk hal itu dilakukan studi hubungsingkat pada sistem tenaga listrik PT. PLN Sumbar-Riau 150 KV. Perhitungan arus gangguan hubungsingkat tidak simetris ini didasarkan matriks impedansi nol dengan alat bantu perhitungan, digunakan komputer digital dengan bantuan software Matlab. Kesimpulan yang diperoleh adalah arus gangguan yang terbesar, Kapasitas Circuit Breaker (CB) dan kapasitas pemutus. Adapun hasil yang diperoleh untuk gangguan tidak simetris dua fasa antar saluran, gangguan terbesar terjadi pada bus 18 (Salak) dengan arus gangguan sebesar 184.7025 pu, kapasitas CB sebesar 28552.4000 MVA dan Kapasitas pemutus sebesar 22164.3000 MVA.

Keyword : Studi hubungsingkat, Gangguan Tidak Simetris Dua Fasa Antar Saluran, Kapasitas Circuit Breaker (CB), Kapasitas Pemutus

I. PENDAHULUAN

Didalam sistem tenaga listrik, studi arus hubungsingkat merupakan hal yang penting terutama untuk perencanaan, perancangan serta pelepasan sistem tenaga listrik. Data yang diperoleh dari perhitungan ini akan digunakan untuk menentukan penyediaan relai dan kapasitas pemutus tenaga. Pemilihan pemutus rangkaian untuk sistem tenaga listrik tidak hanya tergantung pada arus yang mengalir pada pemutus rangkaian dalam keadaan kerja normal saja tetapi juga pada arus maksimum yang mungkin mengalirnya beberapa waktu dan pada arus yang mungkin harus dipasukannya pada tegangan saluran dimana pemutus itu ditempatkan.

Jika terjadi gangguan pada jaringan sistem tenaga listrik, arus yang mengalir akan ditentukan oleh emf-internal mesin pada jaringan impedansinya dan impedansi pada jaringan antara mesin dengan titik tempat terjadinya gangguan tersebut. Arus yang mengalir dalam mesin serempak segera setelah terjadinya gangguan, yang mengalir beberapa periode kemudian dan terus bertahan atau dalam keadaan tetap, nilainya berbeda cukup jauh karena pengaruh arus jangka pada fluks yang membangkitkan tegangan dalam mesin itu. Arus

itu berubah relatif lambat dari nilai awalnya ke nilai keadaan mantapnya.

Pada umumnya ada 4 macam gangguan hubungsingkat yang ada pada sistem tenaga yaitu gangguan tiga fasa simetris, gangguan tidak simetris satu fasa ke tanah, gangguan tidak simetris dua fasa ke tanah dan gangguan tidak simetris antar fasa. Apabila gangguan ini sering terjadi dan tidak cepat diatas maka akan dapat menyebabkan kerusakan pada peralatan tegangan seperti transformator, generator dan sebagainya.

Untuk transformator, dikarenakan besarnya arus yang lewat maka akan timbul rugi daya yang besar dan timbul menjadi panas sehingga dapat merusak isolasi pada transformator tersebut, sehingga akan terjadi kecenderungan flash over pada kompartemen transformator pada generator. Saat sekejap ini, studi hubung singkat pada sistem yang besar, saling berkaitan akan melibatkan perhitungan-perhitungan yang kompleks dan membutuhkan tingkat kecermatan yang tinggi. Oleh karena itu dalam studi arus hubungsingkat ini sebagai alat bantu dalam perhitungan digunakan software Matlab.

Tujuan dari penelitian ini untuk menghitung besarnya arus dan tegangan hubungsingkat tidak

Studi Hubungsingkat Untuk Gangguan Dua Fasa Antar Saluran

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