

Analisis Pengaruh Temperatur Terhadap Masa Guna Dan Pembebanan Darurat Transformator Daya = Analysis of the effect of temperature on the useful life and the emergency loading of power transformer

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Abstrak

[ABSTRAK

Transformator daya merupakan peralatan dengan investasi terbesar pada sebuah Gardu Induk, oleh karenanya diusahakan sebuah transformator daya dapat berfungsi sesuai dengan perkiraan masa gunanya. Penurunan masa guna dari transformator daya dipengaruhi oleh nilai akhir temperatur hot-spot dan operasi pembebanan.

Terdapat 2 jenis pembebanan darurat yaitu pembebanan darurat dalam waktu lama dan pembebanan darurat dalam waktu singkat. Kedua pembebanan tersebut dibatasi oleh nilai temperatur akhir hor-spot 140°C dan 180°C, dan dibutuhkan suatu estimasi beban agar didapatkan beban yang optimal pada saat terjadi pembebanan darurat.

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ABSTRACT

Power transformers are devices with the largest investment in a substation, thus cultivated a power transformer to function in accordance with the point estimates. Decrease in the useful life of power transformers is affected by the end of the hot-spot temperature and loading operations.

There are two types of emergency loading i.e. long time emergency loading and short time emergency loading. Both are limited by the value of the final temperature of the hotspot 140°C and 180°C, and required an estimate of load in order to obtain the optimal load in the event of emergency loading.;

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