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The magnetizing current (I_0) and harmonics phenomena which are evaluated in terms of percent total harmonic distortion of current (THDi) and power factor are shown in Table 1. The excitation (magnetizing) current, I_0 at magnetic flux density $B = 1.8$ T (i.e., $I_0 = 0.827$ A) is more than doubled compare to at 1.4 or 1.5 T ($I_0 = 0.317$ A or 0.388).

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The results show that the magnetization current and harmonic content increase significantly when high magnetic flux densities are injected and vice versa with power factor that decrease sharply....

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Magnetizing Current, Harmonic Content and Power Factor as the Indicators of Transformer Core Saturation Ismail Daut, Syafruddin Hasan, and Soib Taib DOI: 107763/JOCET2013V169 304 Journal of Clean Energy Technologies, Vol 1, No 4, October 2013

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If the third harmonic suppression in the magnetizing current produces a 35% third harmonic in the flux wave, this flux harmonic will generate a $3 \times 35 = 105\%$ third harmonic in voltage. The net effect is the induction of large third harmonic voltages in the transformer windings that may impose excessive stress on the insulation.

Magnetizing and Exciting Currents Waveshapes in ...

1 Low Second-Harmonic Content in Transformer Inrush Currents – Analysis and Practical Solutions for Protection Security Steven Hodder, Hydro One Networks, Inc. Bogdan Kasztenny, Normann Fischer, and Yu Xia, Schweitzer Engineering Laboratories, Inc. Abstract—This paper addresses the security of transformer differential protection with low levels of second harmonic during

Low Second Harmonic Content in Transformer Inrush Currents ...

Harmonics in the excitation current of Transformer is due to Hysteresis. As we know the relationship between Magnetic Flux Density, B and Magnetic Field Intensity, H is not linear as shown in figure below. Also, $B = \text{Flux } (\Phi) / \text{Area } (A)$, and $H = NI$. where $N = \text{Number of turns}$ and $I = \text{Magnetizing Current}$.

Why Harmonic Current in Transformer Excitation Current ...

Typically magnetizing current (I_m) can vary from about 0.25% to about 5% of full load current (0.05 pu) and can be as high as 10% in

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some special transformers. Below is a summary of actual exciting current and no-load losses test results for modern dry type transformers that can be used as a reference.

~~Transformer Excitation Current — Voltage Disturbance~~

The results show that the magnetization current and harmonic content increase significantly when high magnetic flux densities are injected and vice versa with power factor that decrease sharply. These phenomena can be used as the indication of transformer core saturation

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The harmonic voltage causes increased eddy current losses in the motors and transformers and it has a significant effect on the operating temperature. Harmonic voltages in a stator induce high-frequency currents in the rotor further increase losses.

~~Fundamental Frequency And Harmonics: What Are They ...~~

The phase magnetising currents in transformer should contain third harmonics and higher harmonics necessary to produce a sinusoidal flux. If the phase voltage across each phase is to remain sinusoidal, then the phase magnetising currents must be of the following form.

~~Harmonics in Three Phase Transformers — Meaning ...~~

Harmonic current is generated by the input rectifier of an a.c. drive shown in Fig. 7.8. The utility supply is rectified by the diode bridge, and the resulting d.c. voltage is smoothed by the d.c. link capacitor and, for drives rated typically at over 2.2 kW, the d.c. current is smoothed by an inductor in the d.c. circuit.

~~Current Harmonic — an overview | ScienceDirect Topics~~

The results showed that the magnetization current and harmonic phenomena increased significantly when the high magnetic flux density and vice versa injected with power factor declined sharply.

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This phenomenon can be used as an indication of saturation of the 3-phase transformer core. Keywords: Core Saturation, Magnetization Current, Harmonic. 1.

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