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Diagram of Salient Pole Synchronous

Generator #7 Phasor Diagram of

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~~Introduction I synchronous Generator I~~  
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Why 3 Phase Power? Why not 6 or 12?  
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Reactance Prediction

For synchronous 3 phase electrical generator machine design, the ability to predict the subtransient reactance of a particular machine design is of prime importance. The subtransient reactance has a significant impact on the magnitude of the fault currents generated within the machine during an event such

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generated within the machine during an  
event such as a 3 phase ... Synchronous  
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Prediction.. This reactance is called subtransient reactance and is denoted by  $X''$ . The first few cycles come under subtransient state. After a first ...

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Chmelicek, P. Synchronous generator reactance prediction using FE analysis, Brno: Vysoke uceni Technicke v Brne, Fakulta Elektrotechniky a Komunikacnich Technologii, 2010. 62 s, Vedouci diplomove prace doc.Ing. Cestmir Ondrusek, CSc. Prohlášení Prohlašuji, že

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## ~~Synchronous Generator Subtransient Reactance Prediction~~

Although the resistance of the windings of a synchronous generator are generally negligible compared to their reactance, they do play a role in the decay rates of the transient currents in the form of  $L/R$  time

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~~An explanation of the origin of a  
generator's subtransient ...~~

The reactance during these first two or three cycle is least and the short circuit current is high. This reactance is called subtransient reactance and is denoted by

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$X''$ . The first few cycles come under sub-transient state.

~~Concept of Subtransient, Transient &  
Steady State ...~~

Synchronous Reactance [ $X_d$ ] - "The Push"  
Modern alternators, fitted with a control  
system capable of supporting a sustained

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Reactance Prediction  
steady state short circuit current, will typically sustain 2 to 4 x rated current under a steady state three phase short circuit condition.

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Discussion on how to calculate/convert

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Chmelíček. Get PDF (1 MB) Abstract.

Parametry nahradního obvodu synchronního stroje znance ovlivnují jeho chování jak při statickém provozu, tak především při náhlých dynamických jevech a poruchových stavech. Práce je zaměřena na zhodnocení dostupných metod pro výpočet těchto parametrů

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Reactance Prediction  
pomoci Metody konecných prvku. Prvni ...

~~Synchronous generator reactance  
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Subtransient (enabling ...  $X_{sc}$  □ Short-circuit reactance c/c. The most common values for a synchronous generator are:  
State: Subtransient  $X''_d$ : Transient  $X'_d$ :

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Permanent  $X_d$ :  $X_{sc}$ : 10 % 20%: 15 % 25%:  
200 % 350%: Example. Calculation method  
for an alternator or a synchronous motor.  
Alternator 15 MVA; Voltage  $U = 10$  kV ;  
 $X_d = 20\%$ ; All electrical installations  
have to be protected ...

~~Calculating the short circuit current across~~

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Sub transient reactance The period immediately after a short circuit on the generator and lasting upto 2-3 cycles, is called sub transient period. The current during this period is highest and is determined by sub transient reactance. The value of sub transient reactance is about

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