



*Full Load Current*

$$I_{F.L.} = \frac{TX_{kVA} \times 1000}{\sqrt{3} \times V_{L-L}} \quad (A)$$

*Transformer Impedance*

$$Z = \frac{V_{L-L}^2}{TX_{kVA} \times 1000} \times \frac{\%Z}{100} \times 90\% * \quad (\Omega)$$

*Short Circuit Current*

$$I_{S.C.} = \frac{V_{L-L}}{\sqrt{3} \times Z \times 1000} \quad (kA)$$

*Motor Contributed Short Circuit Current*

$$I_{S.C.Motor} = \frac{4 \times I_{F.L.}}{1000} \quad (kA)$$

*Total Symmetrical Short Circuit Current*

$$I_{S.C.Total} = I_{S.C.} + I_{S.C.Motor} \quad (kA)$$

*Multiplier*

$$M = \frac{I_{S.C.}}{I_{F.L.}}$$

# Transformer Short Circuit Current Calculation And Solutions

**S Baum**



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