

Short Circuit Current Calculation (Method – 1)

Name Plate Impedance of Transformer	-	Z %
Short Circuit Current of Transformer	-	I_{sc}
Supply Test Voltage (3 Phase)	-	V_{supply} (Volt)
Rated Primary Current of Transformer	-	I_{pri}
Rated Primary Voltage of Transformer	-	V_{pri} (kV)

$$\text{Average Supply Voltage} \quad V_{supply} = \frac{V_{Ry} + V_{RB} + V_{yB}}{3}$$
$$I_{sc} = \frac{10\% V_{supply} \times I_{pri}}{V_{pri} \text{ (kV)} \times Z \%}$$

Example for 33/11 kV, 10 MVA (Supply Test Voltage = 400 Volt)

$$\begin{aligned} 10\% \text{ of } V_{supply} &= 400 \times 10/100 = 40 \text{ V} \\ I_{pri} &= 175 \text{ Amp} \\ V_{pri} \text{ (kV)} &= 33 \text{ kV} \\ Z \% &= 9 \% \end{aligned}$$

$$I_{sc} = \frac{10\% V_{supply} \times I_{pri}}{V_{pri} \text{ (kV)} \times Z \%}$$
$$I_{sc} = \frac{40 \times 175}{33 \times 9}$$
$$I_{sc} = 23.569 \text{ Amp}$$
$$Z \% = \frac{10\% V_{supply} \times I_{pri}}{V_{pri} \text{ (kV)} \times I_{sc}}$$

Transformer Short Circuit Current Calculation And Solutions

JG Myers



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