## Series - Parallel equivalents

|  | $\begin{aligned} & R_{S}=\frac{R_{P} \cdot X_{P}{ }^{2}}{R_{P}{ }^{2}+X_{P}{ }^{2}} \\ & X_{S}=\frac{R_{P}{ }^{2} \cdot X_{P}}{R_{P}{ }^{2}+X_{P}{ }^{2}} \end{aligned}$ |
| :---: | :---: |
|  | $\begin{aligned} & R_{P}=\frac{R_{S}{ }^{2}+X_{S}{ }^{2}}{R_{S}} \\ & X_{P}=\frac{R_{S}{ }^{2}+X_{S}{ }^{2}}{X_{S}} \end{aligned}$ |

