

RLC-KRINGBANE	DRIEFASE-WS-OPWEKKING
<p> $P = V \times I \times \cos \theta$ $X_L = 2\pi fL$ $X_C = \frac{1}{2\pi fC}$ $F_r = \frac{1}{2\pi\sqrt{LC}}$ $BW = \frac{f_r}{Q}$ </p> <p>SERIE</p> <p> $V_R = I.R$ $V_L = I.X_L$ $V_C = I.X_C$ $I_T = \frac{V_T}{Z}$ OF $I_T = I_R = I_C = I_L$ $Z = \sqrt{R^2 + (X_L - X_C)^2}$ $V_T = \sqrt{V_R^2 + (V_L - V_C)^2}$ OF $V_T = IZ$ $\cos \theta = \frac{R}{Z}$ OF $\cos \theta = \frac{V_R}{V_T}$ $Q = \frac{X_L}{Z} = \frac{X_C}{Z} = \frac{V_L}{V_T} = \frac{V_C}{V_T} = \frac{1}{R} \sqrt{\frac{L}{C}}$ </p> <p>PARALLEL</p> <p> $V_T = V_R = V_C = V_L$ $I_R = \frac{V_R}{R}$ $I_C = \frac{V_T}{X_C}$ $I_L = \frac{V_T}{X_L}$ $I_T = \sqrt{I_R^2 + (I_L - I_C)^2}$ $Z = \frac{V_T}{I_T}$ $\cos \theta = \frac{I_R}{I_T}$ $Q = \frac{X_L}{Z} = \frac{X_C}{Z} = \frac{V_L}{V_T} = \frac{V_C}{V_T} = \frac{1}{R} \sqrt{\frac{L}{C}}$ </p>	<p>STER</p> <p> $V_L = \sqrt{3} V_F$ $V_F = I_F \times Z_F$ $I_L = I_F$ </p> <p>DELTA</p> <p> $V_L = V_F$ $V_F = I_F \times Z_F$ $I_L = \sqrt{3} I_F$ </p> <p>DRYWING</p> <p> $S(P_{skyn}) = \sqrt{3} \times V_L \times I_L$ $Q(P_r) = \sqrt{3} \times V_L \times I_L \times \sin \theta$ $P = \sqrt{3} \times V_L \times I_L \times \cos \theta$ $\cos \theta = \frac{P}{S}$ </p> <p>RENDEMENT</p> <p> $\eta = \frac{\text{uitsetdrywing}}{\text{insetdrywing}} \times 100\%$ </p> <p>TWEEWATTMETERMETODE</p> <p> $P_T = P_1 + P_2$ $\tan \theta = \sqrt{3} \left(\frac{P_1 - P_2}{P_1 + P_2} \right)$ </p> <p>DRIEWATTMETERMETODE</p> <p> $P_T = P_1 + P_2 + P_3$ </p>

DRIEFASETTRANSFORMATORS	DRIEFASEMOTORS EN -AANSITTERS
<p>STER</p> $V_L = \sqrt{3} V_F \quad \text{en} \quad I_L = I_F$ <p>DELTA</p> $I_L = \sqrt{3} I_F \quad \text{en} \quad V_L = V_F$ <p>DRYWING</p> $S(P_{skyn}) = \sqrt{3} \times V_L \times I_L$ $Q(P_r) = \sqrt{3} \times V_L \times I_L \times \sin\theta$ $P = \sqrt{3} \times V_L \times I_L \times \cos\theta$ $\cos\theta = \frac{P}{S}$ $\frac{V_{f(p)}}{V_{f(s)}} = \frac{N_p}{N_s} = \frac{I_{f(s)}}{I_{f(p)}}$ <p>Transformatorverhouding (TR)</p> $TR = \frac{N_p}{N_s}$	<p>STER</p> $V_L = \sqrt{3} V_F \quad \text{en} \quad I_L = I_F$ <p>DELTA</p> $I_L = \sqrt{3} I_F \quad \text{en} \quad V_L = V_F$ <p>DRYWING</p> $S(P_{skyn}) = \sqrt{3} \times V_L \times I_L$ $Q(P_r) = \sqrt{3} \times V_L \times I_L \times \sin\theta$ $P = \sqrt{3} \times V_L \times I_L \times \cos\theta$ $\cos\theta = \frac{P}{S}$ <p>RENDEMENT</p> $\eta = \frac{\text{uitsetdrywing}}{\text{insetdrywing}} \times 100\%$ $n_s = \frac{60 \times f}{p}$ $\% \text{ glip} = \frac{n_s - n_r}{n_s} \times 100$ <p>Per Eenheid Glip = $\frac{n_s - n_r}{n_s}$</p> <p>Glip = $n_s - n_r$</p>