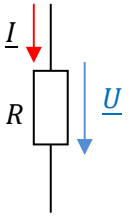
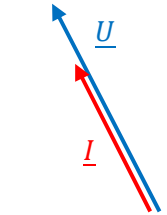
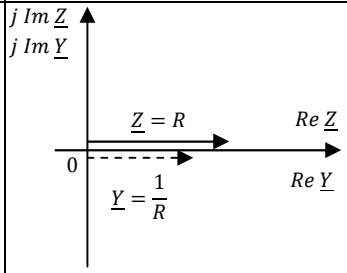
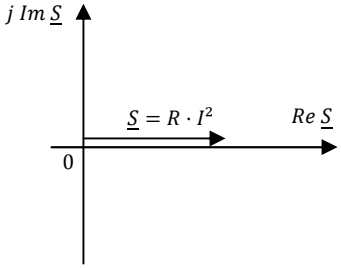
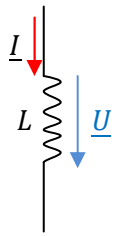
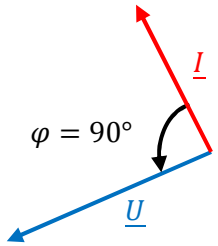
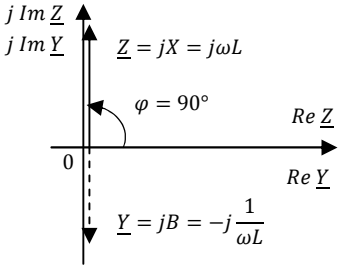
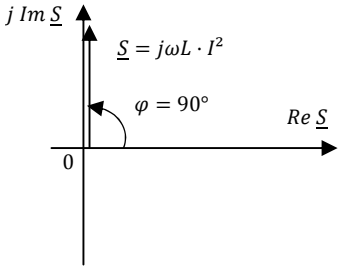
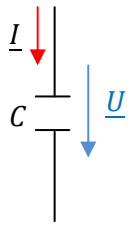
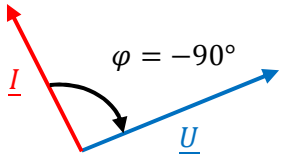
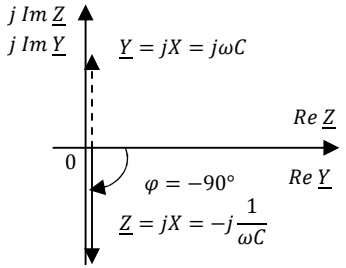
Schaltzeichen	Zusammenhang zwischen Strom & Spannung Zeitfunktion, komplexe Größen	Effektivwert-Zeigerdiagramme	Komplexer Widerstand und Leitwert Komplexe Größen, Phasenwinkel	Zeigerdiagramme	Komplexe Leistung Wirkleistung, Blindleistung, Leistungsfaktor	Zeigerdiagramme
Widerstand 	$u = R \cdot i$ $i = \frac{1}{R} \cdot I$ $\underline{U} = R \cdot \underline{I}$ $\underline{I} = \frac{1}{R} \cdot \underline{U}$		$\underline{Z} = R$ $\underline{Y} = \frac{1}{R}$ $\varphi = 0°$		$P = R \cdot I^2$ $= \frac{1}{R} \cdot U^2$ $Q = 0$ $\cos\varphi = 1$	
Induktivität 	$u = L\frac{di}{dt}$ $i = \frac{1}{L}\int u\,dt$ $\underline{U} = j\omega L \cdot \underline{I}$ $\underline{I} = \frac{1}{j\omega L}$		$\underline{Z} = j\omega L$ $\underline{Y} = \frac{1}{j\omega L}$ $= -j\frac{1}{\omega L}$ $\varphi = 90°$		$P = 0$ $Q = \omega L \cdot I^2$ $= \frac{1}{\omega L} \cdot U^2$ $\cos\varphi = 0$	
Kapazität 	$u = \frac{1}{C}\int i\,dt$ $i = C\frac{du}{dt}$ $\underline{U} = \frac{1}{j\omega L} \cdot \underline{I}$ $\underline{I} = j\omega L$		$\underline{Z} = \frac{1}{j\omega C}$ $= -j\frac{1}{\omega C}$ $\underline{Y} = j\omega C$ $\varphi = -90°$		$P = 0$ $Q = -\frac{1}{\omega C} \cdot I^2$ $= -\omega C \cdot U^2$ $\cos\varphi = 0$