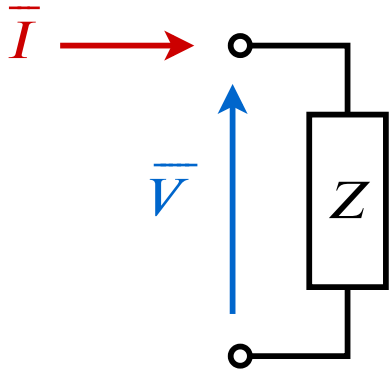


"Motor" convention :



Z produces active power
 Z produces reactive power

Z consumes active power
 Z consumes reactive power

Z produces active power
 Z consumes reactive power

Z consumes active power
 Z produces reactive power

When $|\varphi| < \frac{\pi}{2}$: The load consumes active power ($\cos(\varphi) > 0$)

When $\varphi > 0$: The load consumes reactive power ($\sin(\varphi) > 0$)

$(\bar{I}$ is lagging \bar{V})