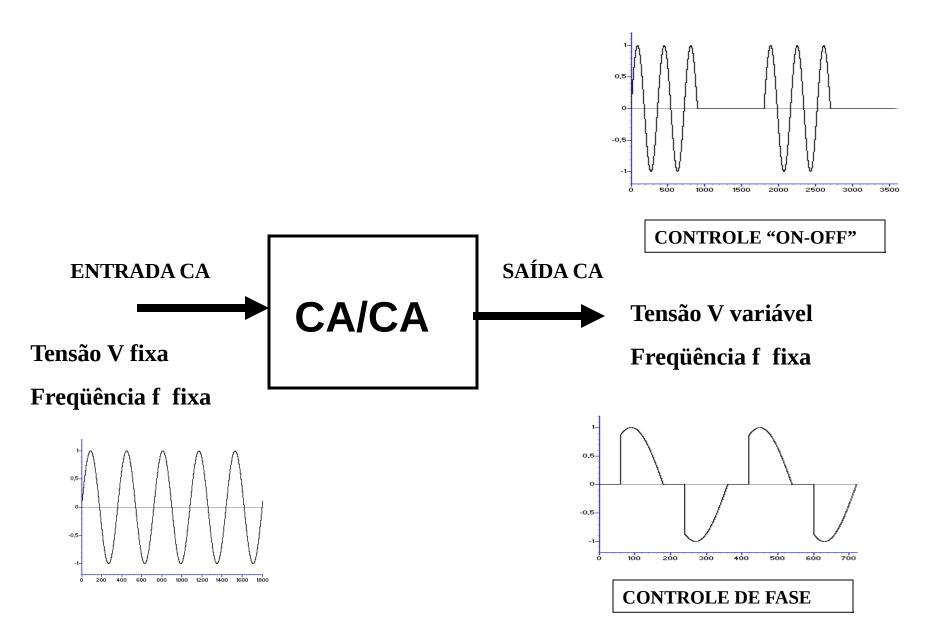
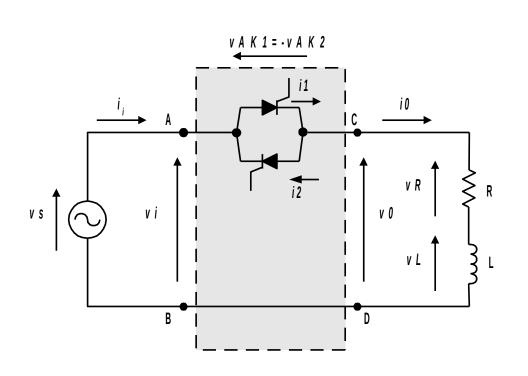
CONTROLADORES DE TENSÃO CA MONOFÁSICOS

Prof. Azauri A. de Oliveira Jr.

CONTROLADOR CA – CONVERSOR TIPO CA/CA



CONTROLADOR DE TENSÃO CA MONOFÁSICO



$$v_{AK1} = -v_{AK2}$$

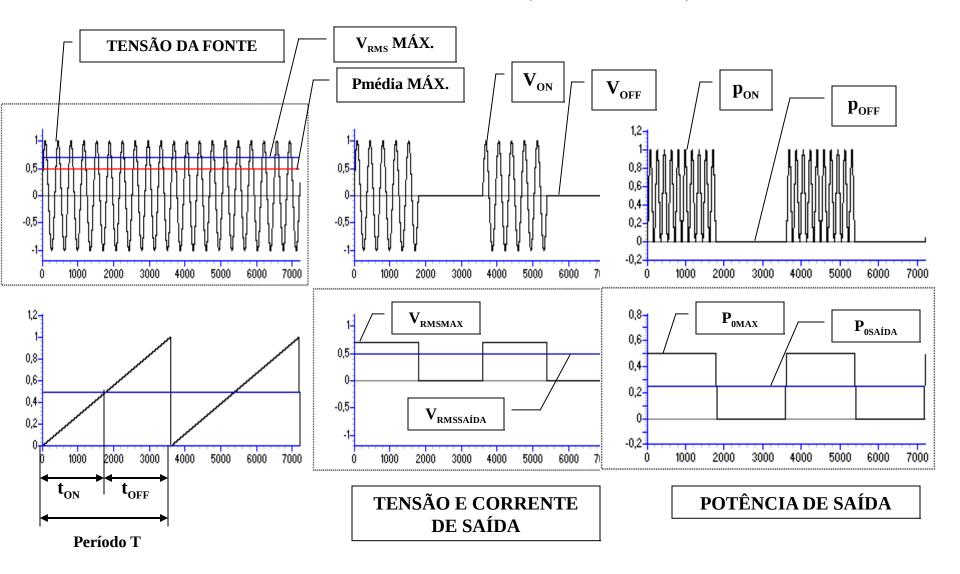
$$v_i = v_o + v_{AK1} = v_o - v_{AK2}$$

$$v_0 = v_{carga}$$

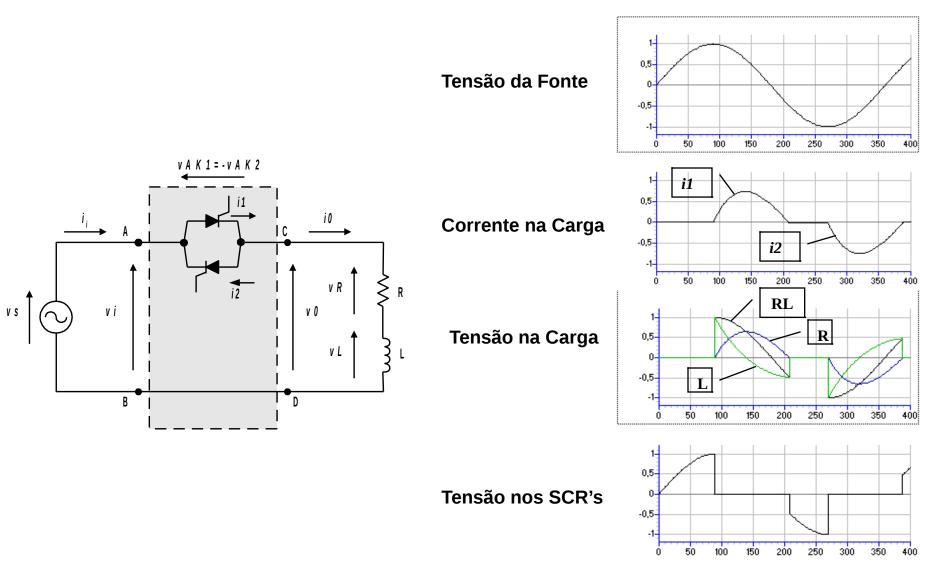
$$v_s = v_i$$

$$i_0 = i_i = i_1 - i_2$$

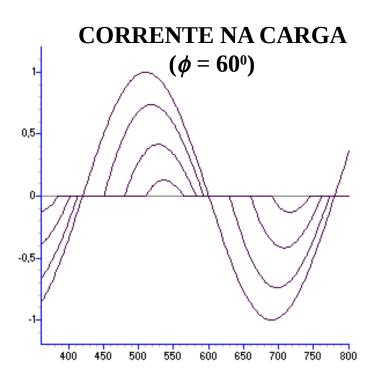
CONTROLADOR DE TENSÃO CA MONOFÁSICO CONTROLE LIGA/DESLIGA ("ON/OFF") - CARGA R



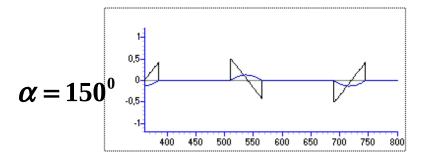
CONTROLADOR DE TENSÃO CA MONOFÁSICO CONTROLE DE FASE

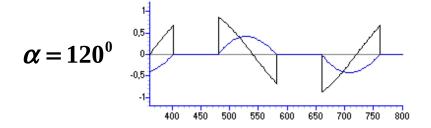


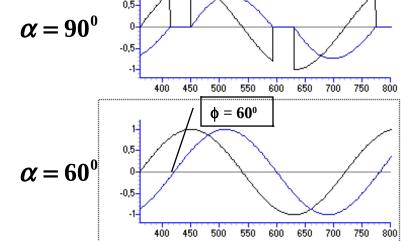
FAIXA DE CONTROLE DO ÂNGULO DE DISPARO



$$\phi \le \alpha \le 180^{\circ}$$

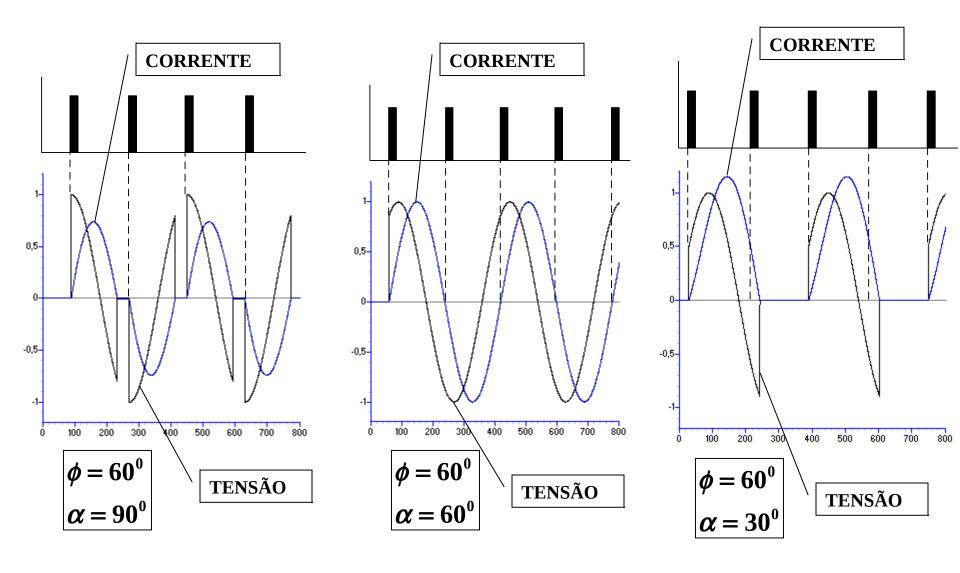




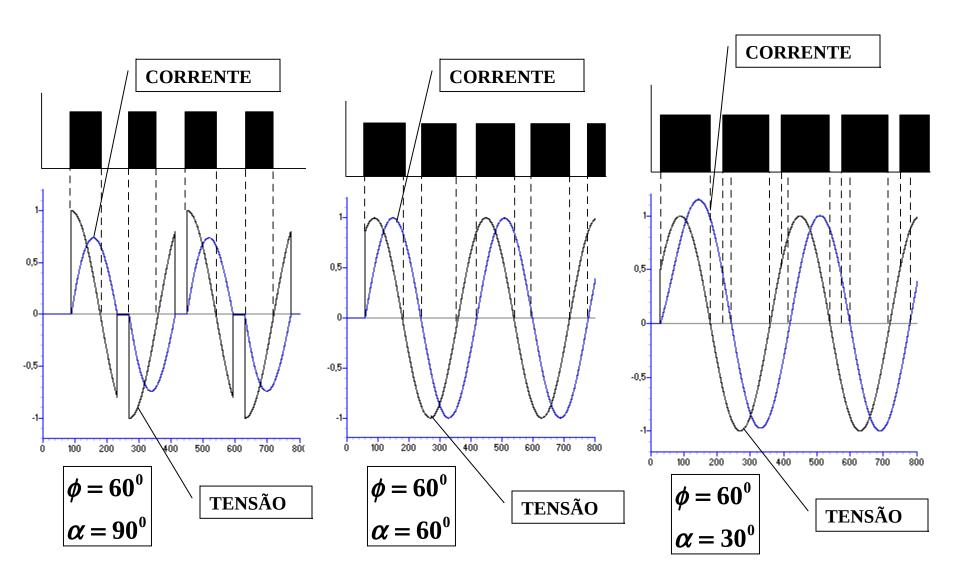


CORRENTES E TENSÕES NA CARGA $(\phi = 60^{\circ})$

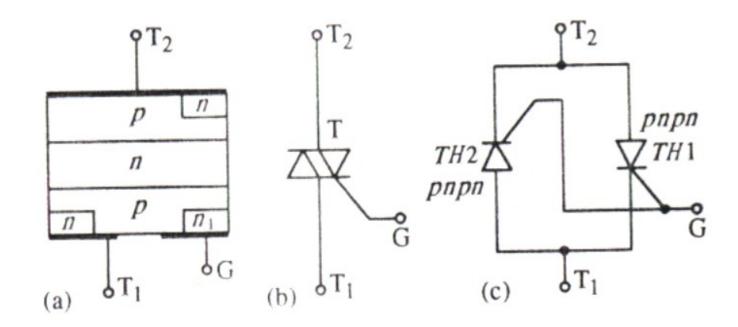
TÉCNICA DE DISPARO COM PULSO ESTREITO (EFEITO PARA $\alpha < \phi$)



TÉCNICA DE DISPARO COM PULSO LARGO (EFEITO PARA $\alpha < \phi$)



TRIAC – TRANSISTOR AC (TIRISTOR AC) ESTRUTURA FÍSICA



TRIAC – TRANSISTOR AC (TIRISTOR AC) CARACTERÍSTICAS ESTÁTICAS

