## UNIDAD 2: EDERCICIO DE CAÍCULO TERMICO

## DESARROLLO

$$I = \frac{400W}{60V} = 6,67A$$

$$Re_{JA} = 62 \frac{\circ c}{W}$$

Margen de 
$$40^{\circ}C \Rightarrow T = 175^{\circ}C - 40^{\circ}C - 50^{\circ}C$$
  
 $T = 85^{\circ}C$ 

I<sup>2</sup>. Roscon(85°C) (Rosc + Rosc + Rosc) = 85°C

Rep = 76°C

Selection de dissipador: 45227 - ND

(Nadral) (Rosc = 68°C/W)

$$t_f = 45ms$$
  $t_r = 66ms \Rightarrow t = 105ms$ 
 $f = 100 \text{ kHz}$   $f_p = 100.10^3$ ,  $105.10^{-9}$ 
 $f_p = 0.0105$ 

Permutaur =  $\frac{V_x I}{H}$ ,  $f_p = 1.05W$ 

Protec =  $I^2$  Roscon(85°C) + 1.05W

Protec = 2.1HW

Rob =  $\frac{85°C}{Protec}$  - Rosc - Rocs

Rep = 37,72°C

W

Selection de dissipador: HS273-ND

(Nadral) | Rob = 34°C/W|