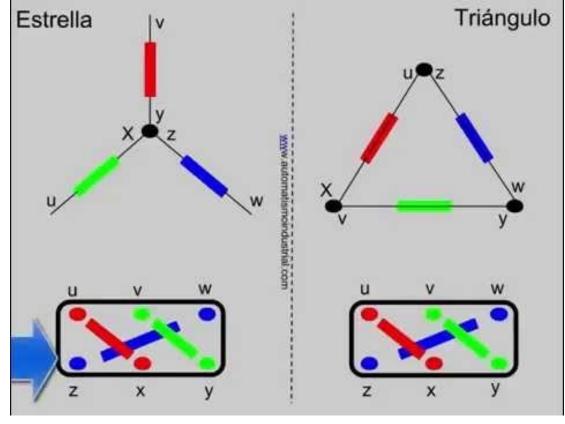
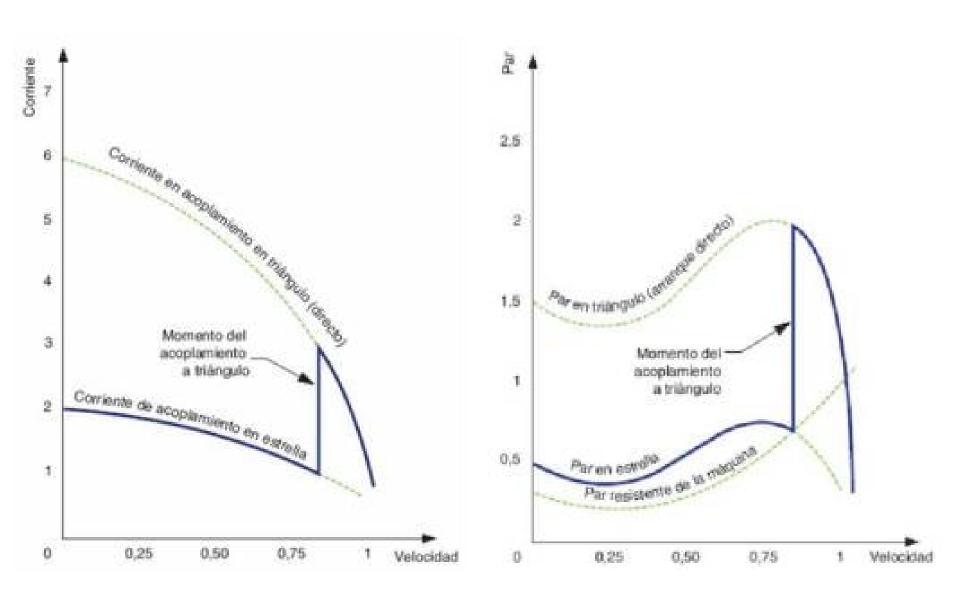
Autómatas

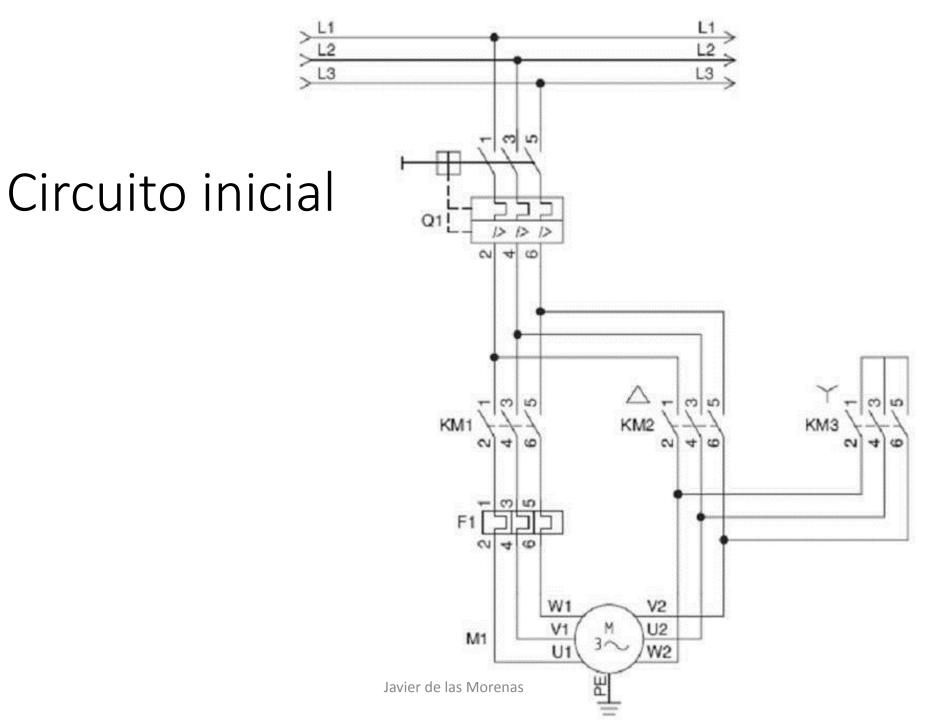
Curso de Mecatrónica

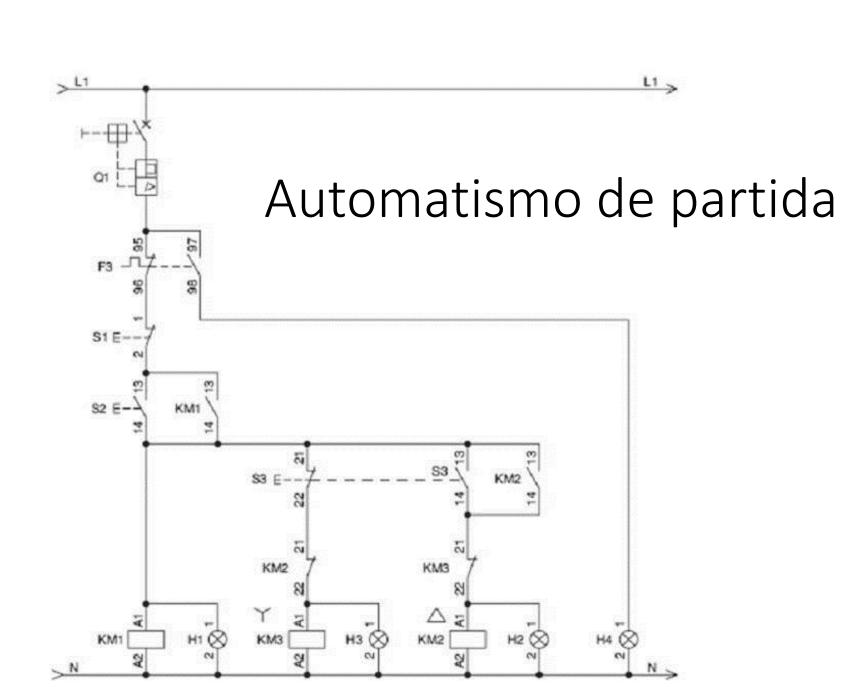
CASO PRÁCTICO: Conversión automatismo arranque estrella-triángulo con Autómatas

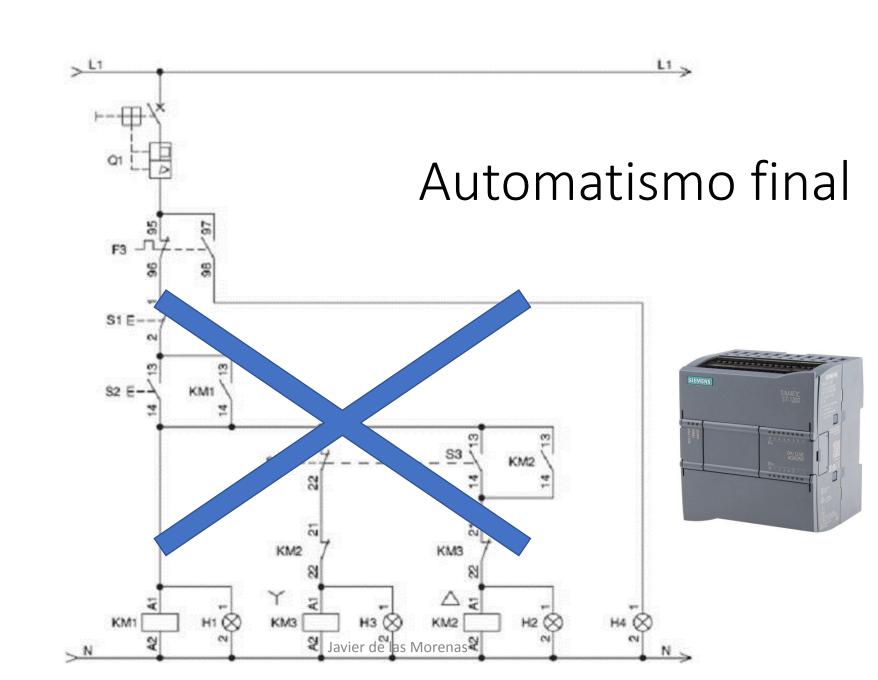


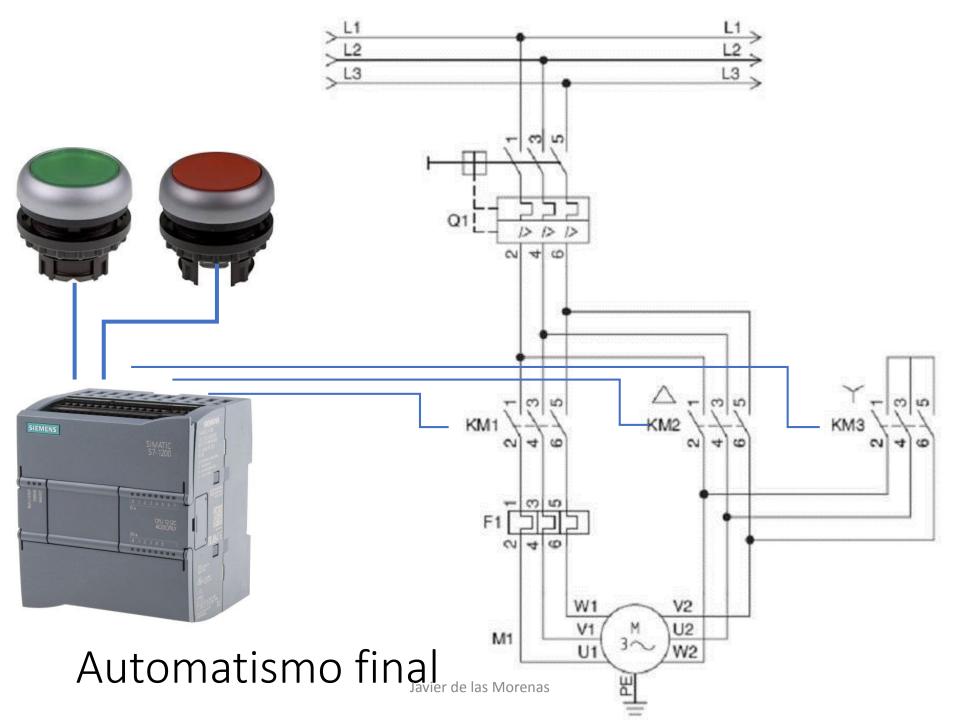
Javier de las Morenas



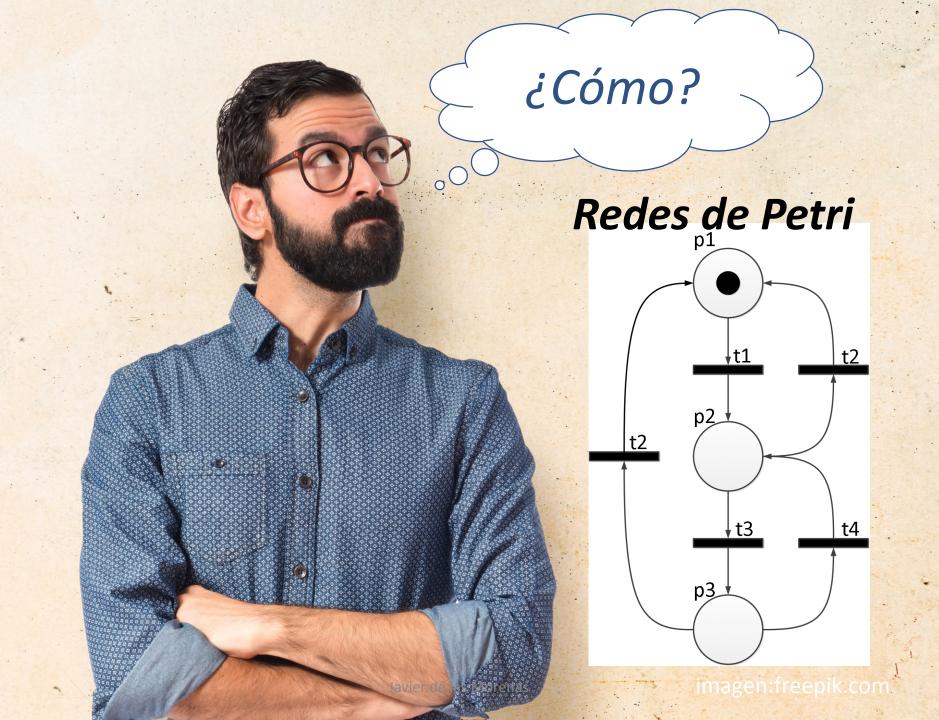


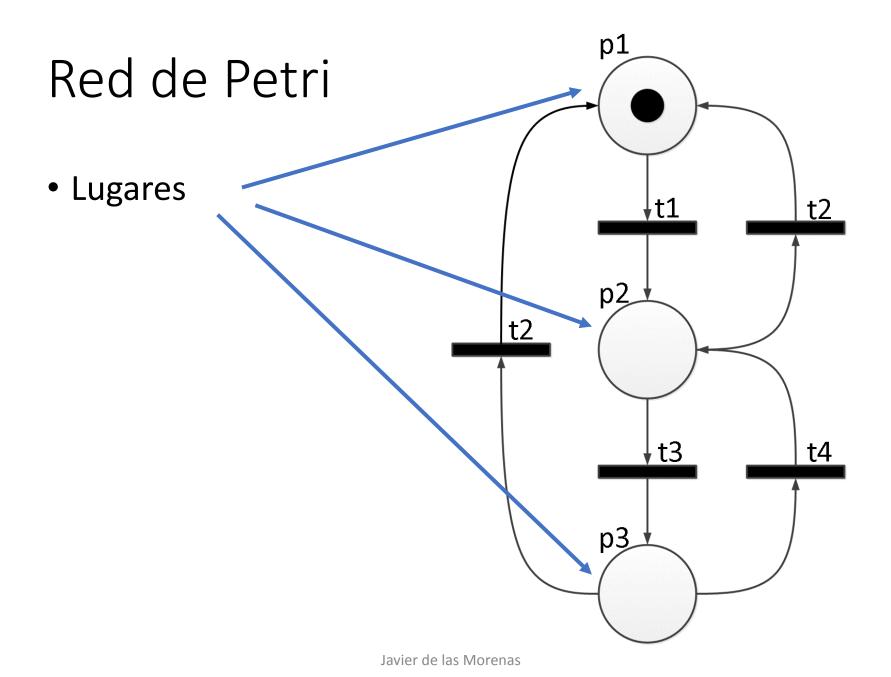


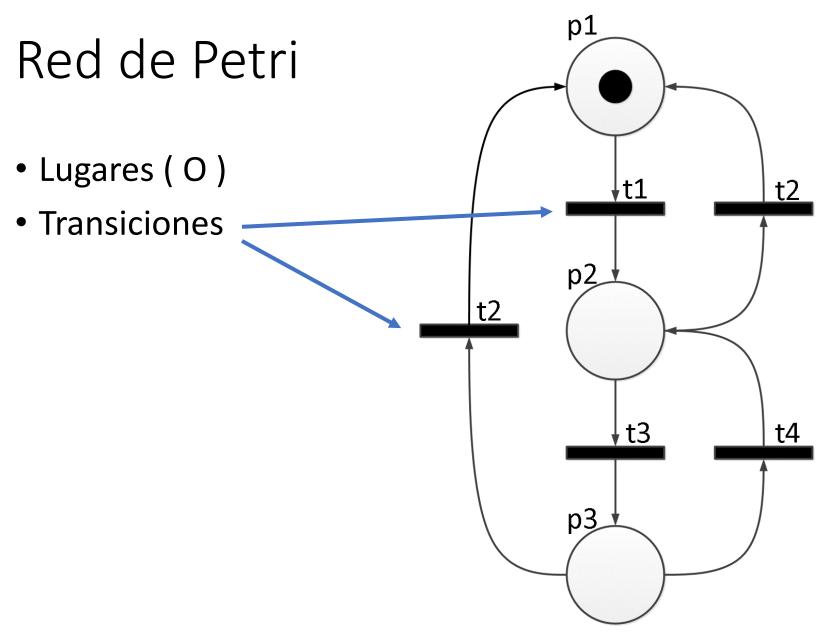




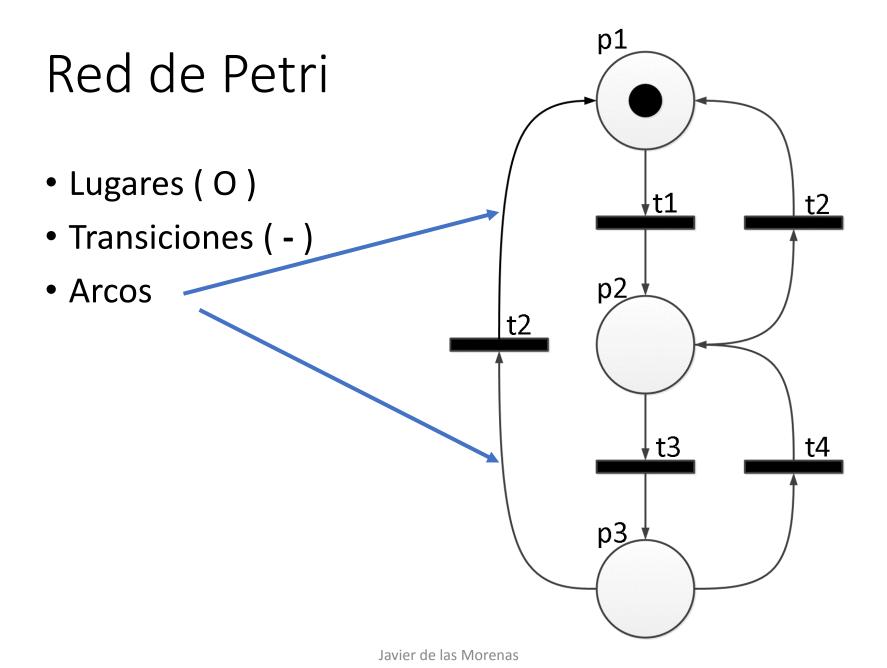






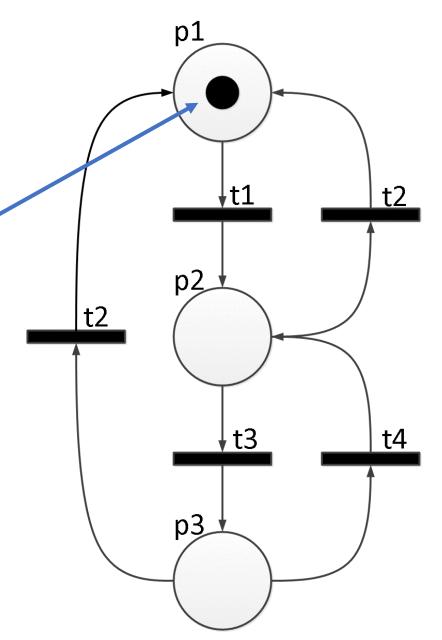


Javier de las Morenas



Red de Petri

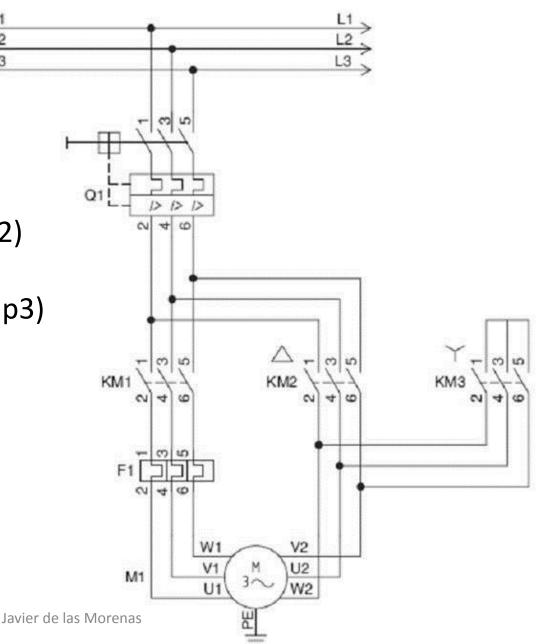
- Lugares (O)
- Transiciones ()
- Arcos (->)
- Marcas



Javier de las Morenas

Arranque estrella-triángulo

- Lugares (estados):
 - Parado (p1)
 - Conexión estrella (p2)
 - KM1+KM3
 - Conexión triángulo (p3)
 - KM1+KM2



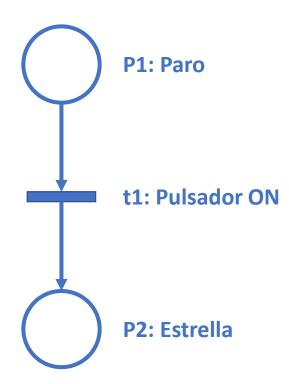




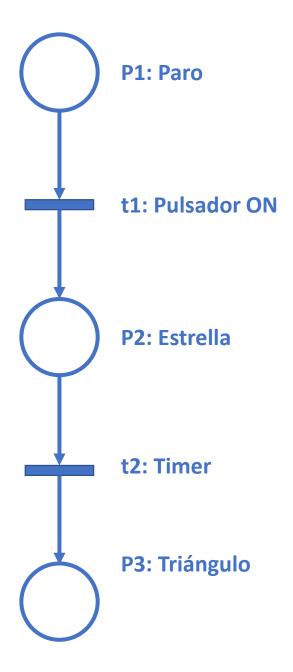
P2: Estrella

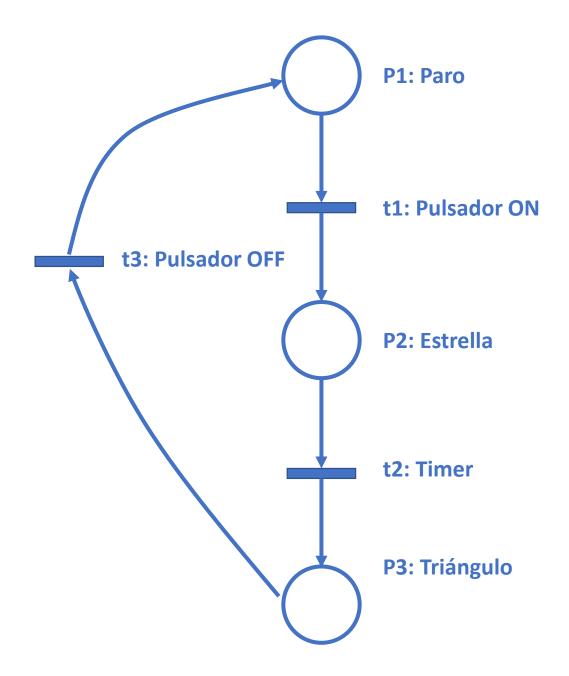


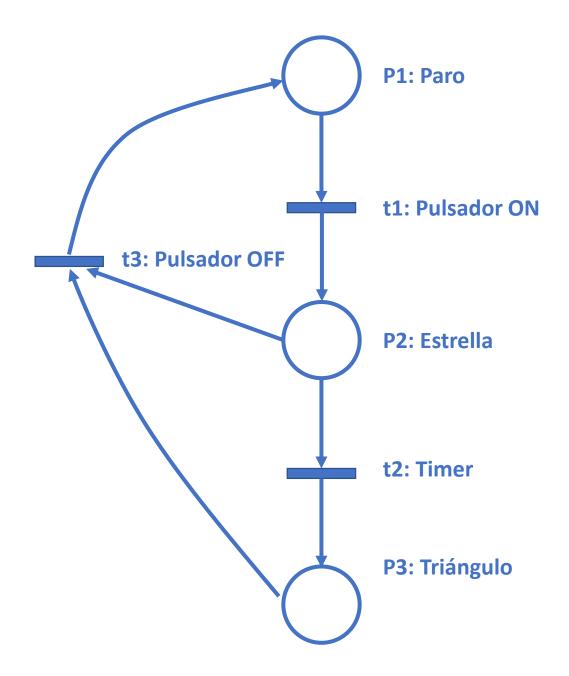
P3: Triángulo

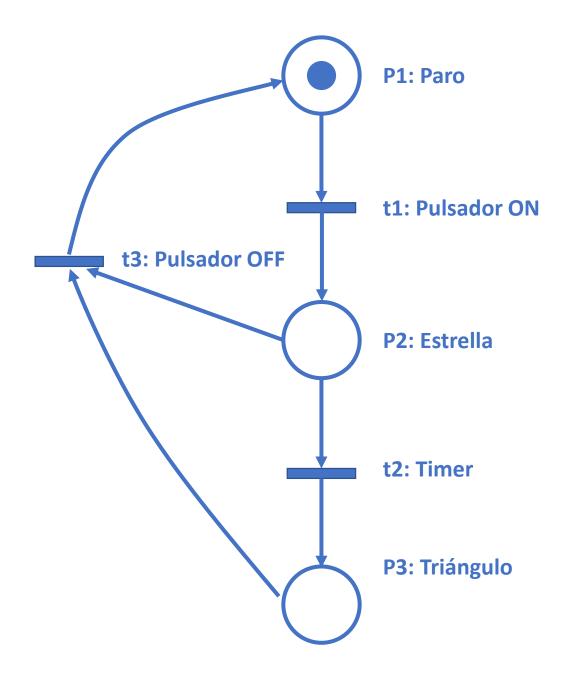


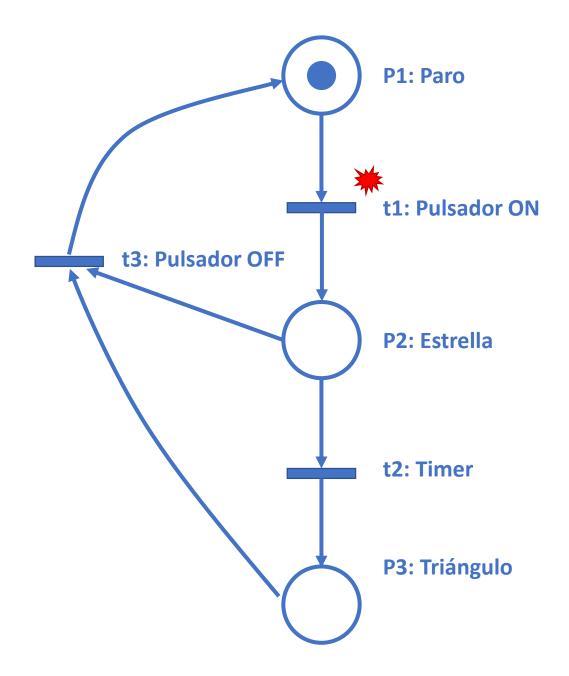


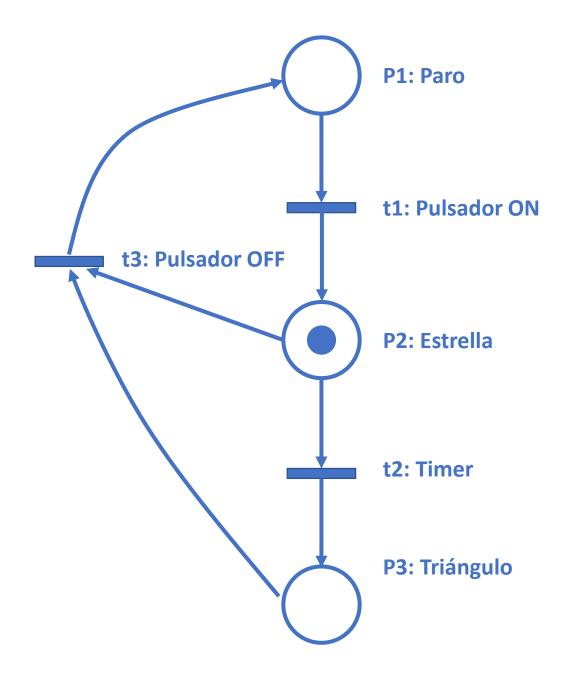


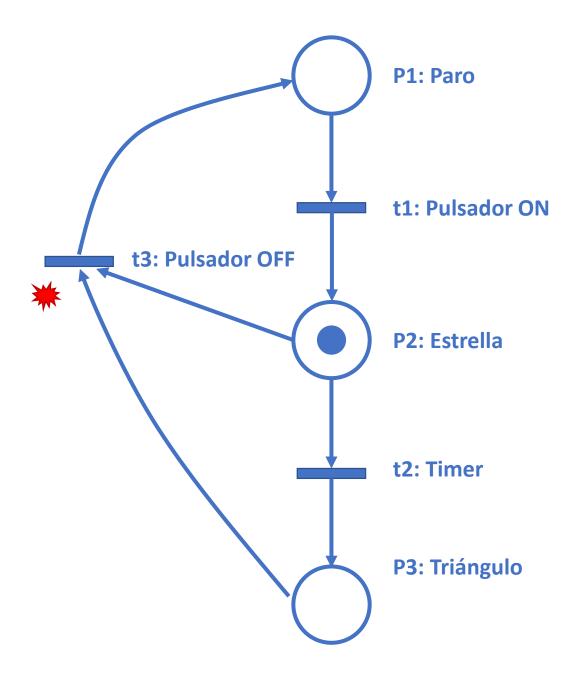


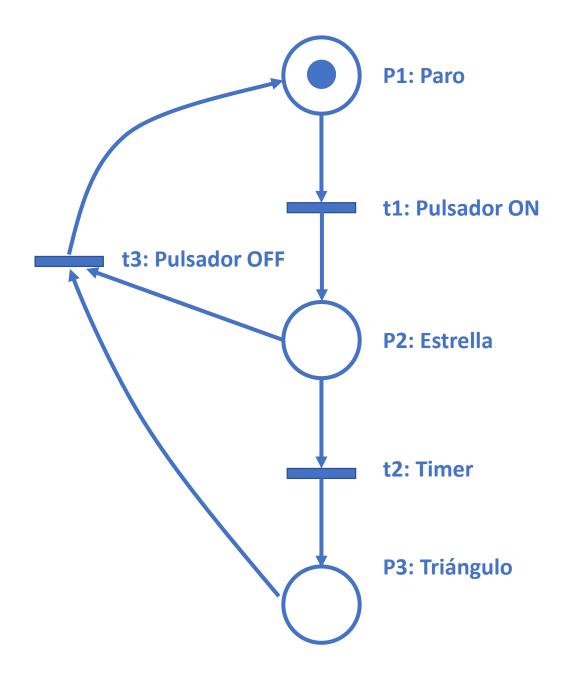


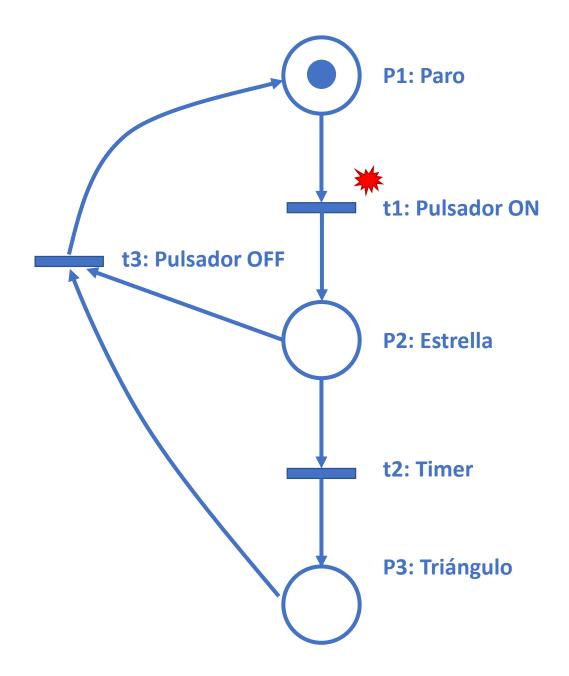


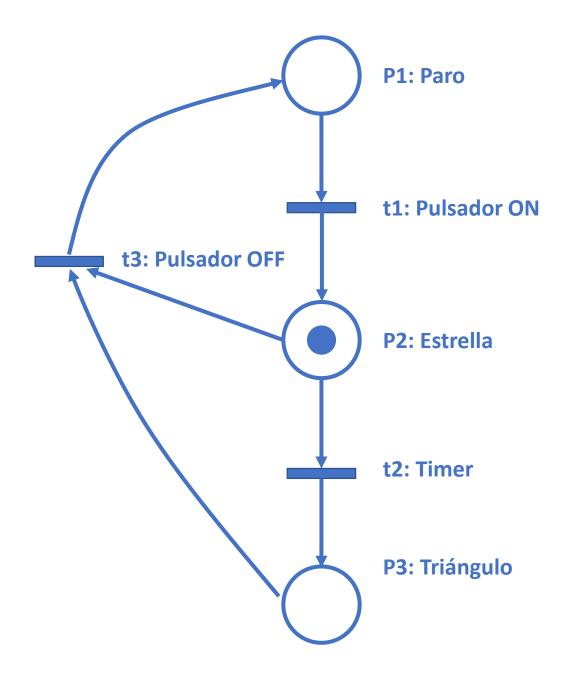


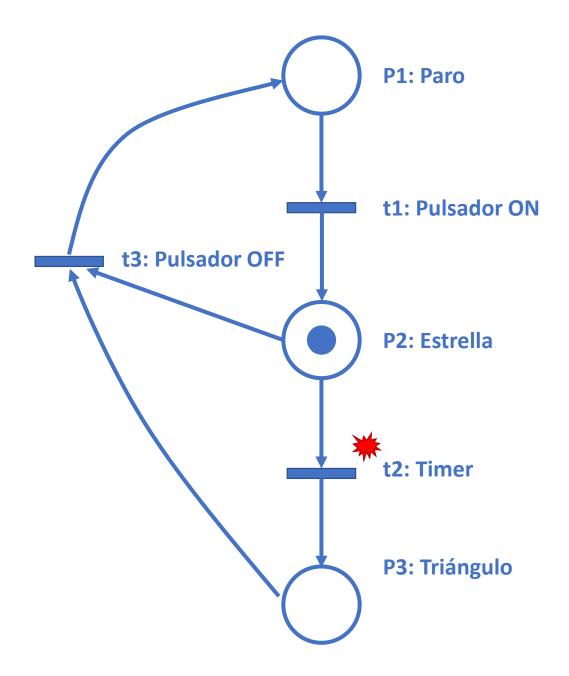


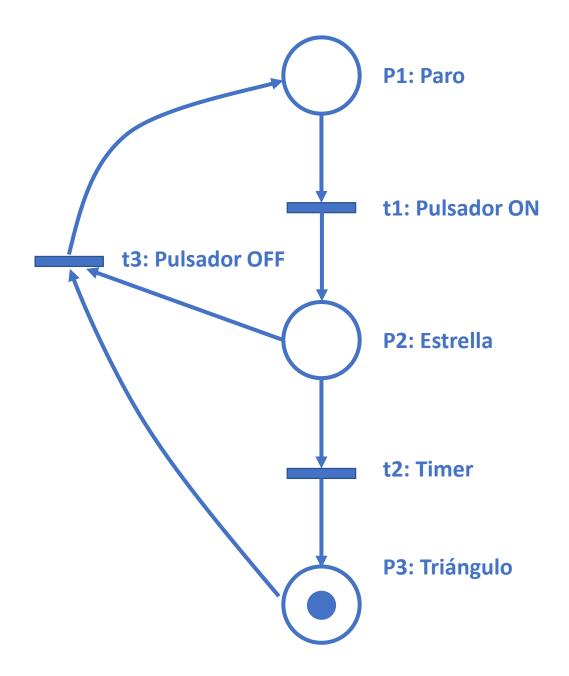


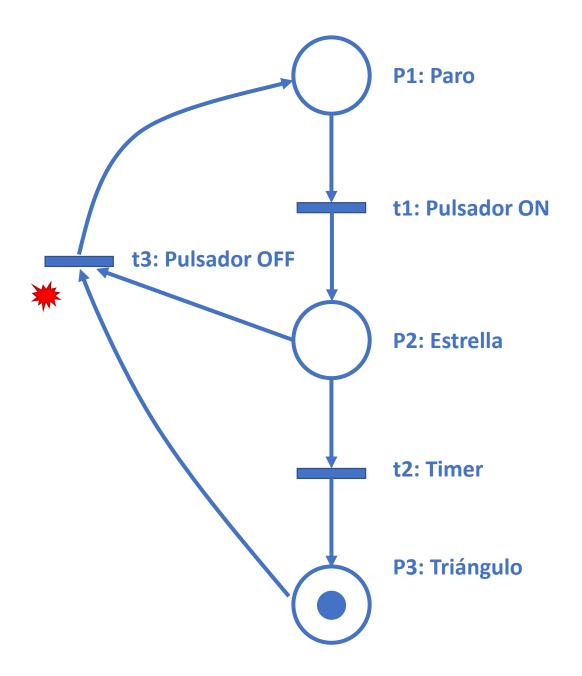












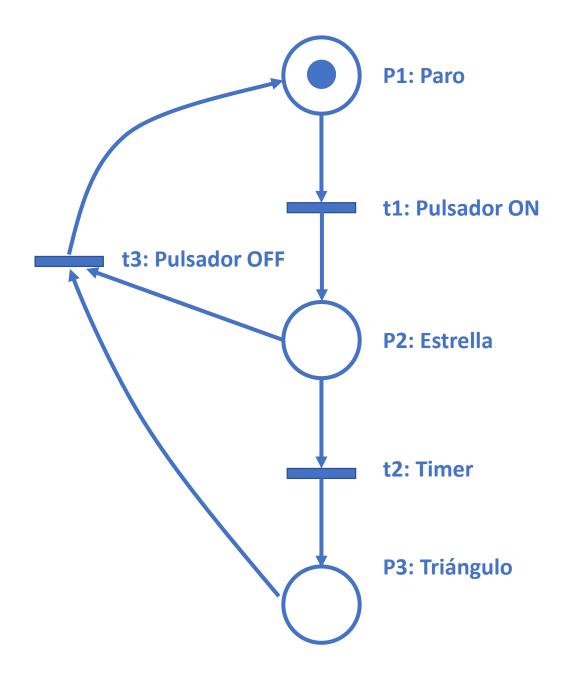
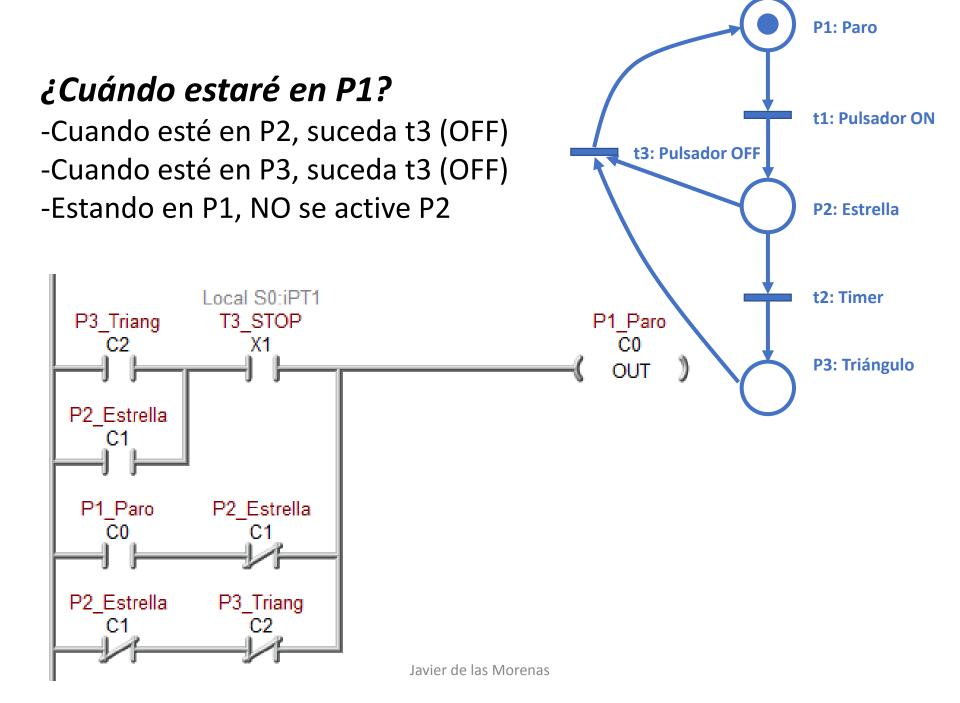




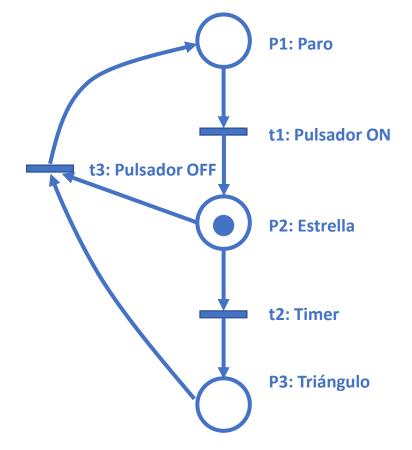
Tabla de variables

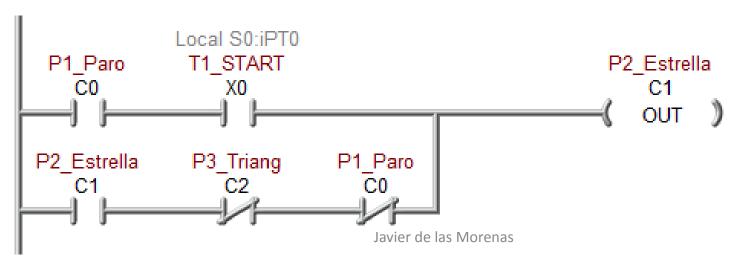
Element	Nickname
CO	P1_Paro
C1	P2_Estrella
C2	P3_Triang
TO	T2_TIMER
TO.Done *	T2_TIMER.Done
XO	T1_START
X1	T3_STOP
YO	KM1
Y1	KM3
Y2	KM2

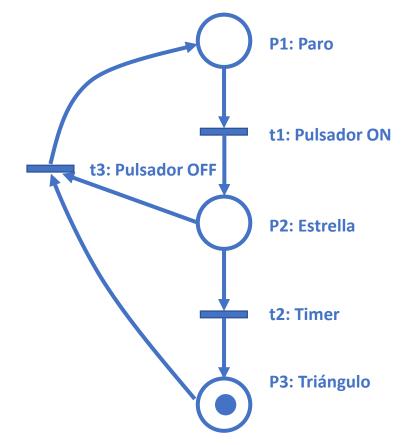


¿Cuándo estaré en P2?

- -Cuando esté en P1, suceda t1 (ON)
- -Estando en P2, NO se active P1 (t3)
- -Estando en P2, NO se active P3 (t2)

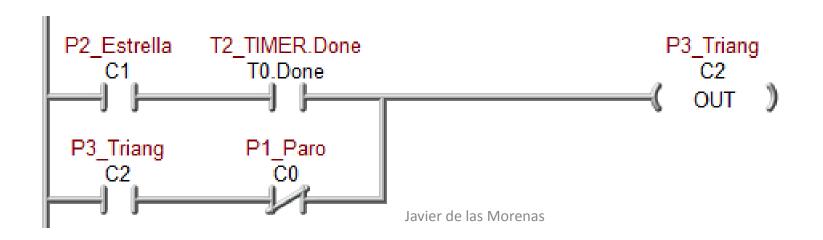






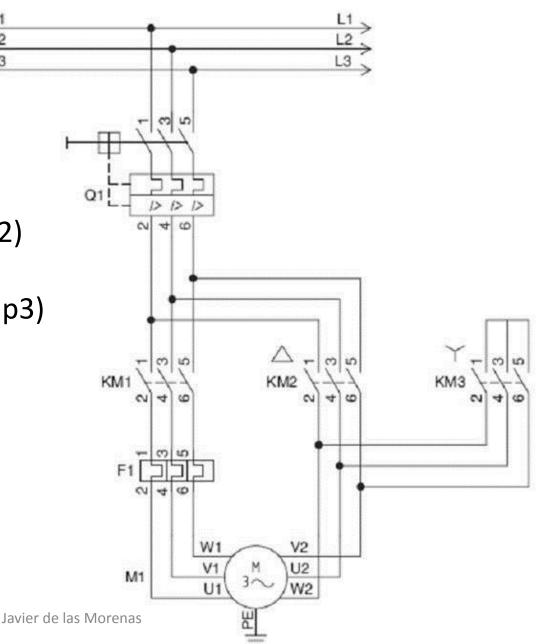
¿Cuándo estaré en P3?

- -Cuando esté en P2, suceda t2 (Timer)
- -Estando en P3, NO se active P1 (t3)



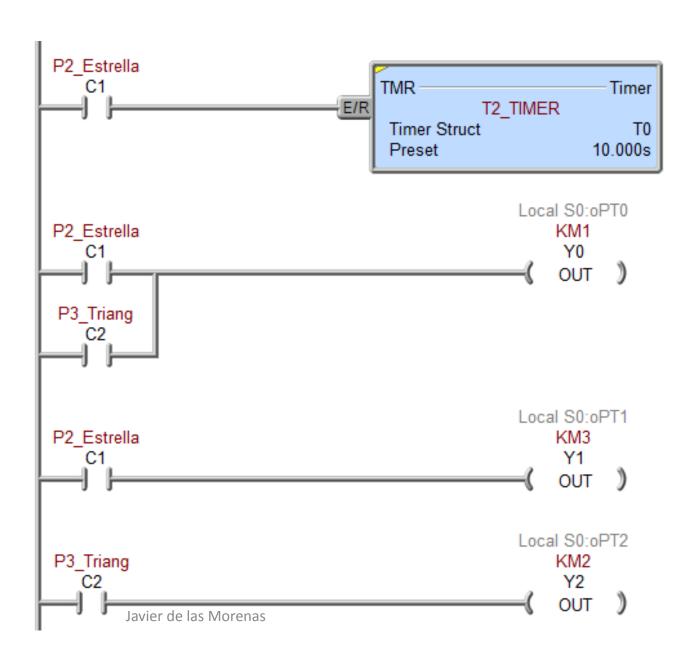
Arranque estrella-triángulo

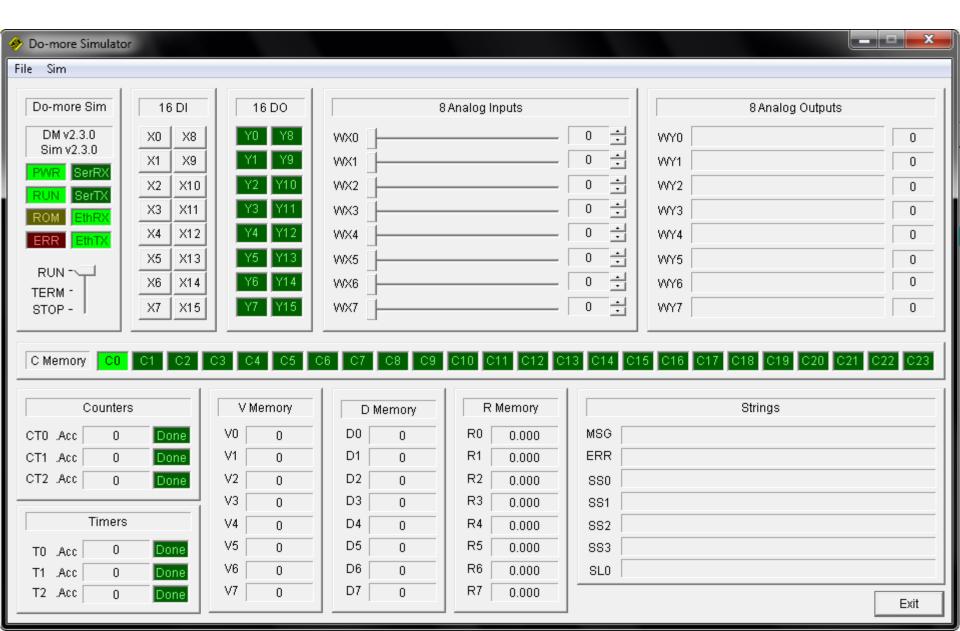
- Lugares (estados):
 - Parado (p1)
 - Conexión estrella (p2)
 - KM1+KM3
 - Conexión triángulo (p3)
 - KM1+KM2

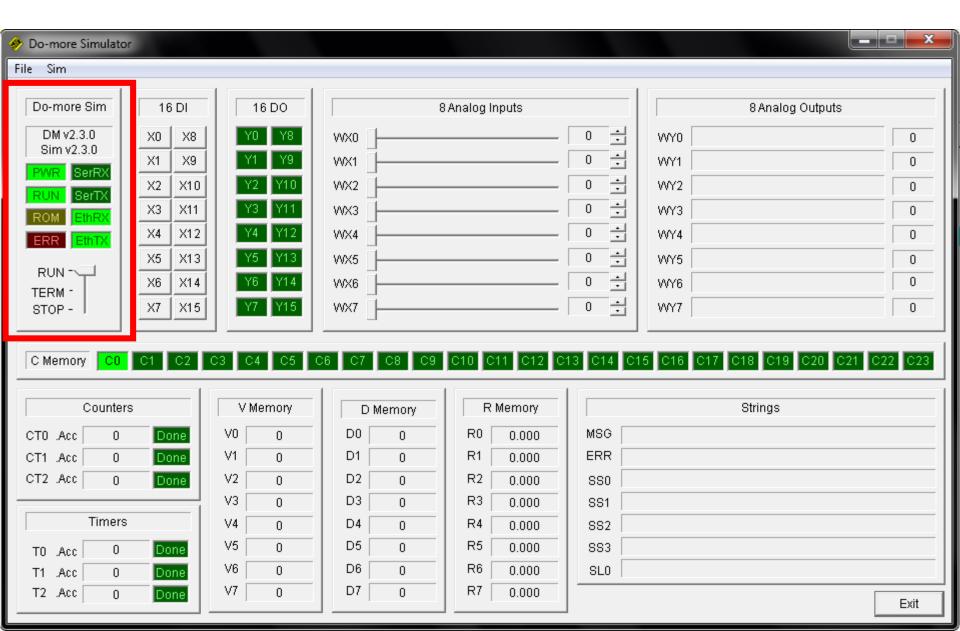


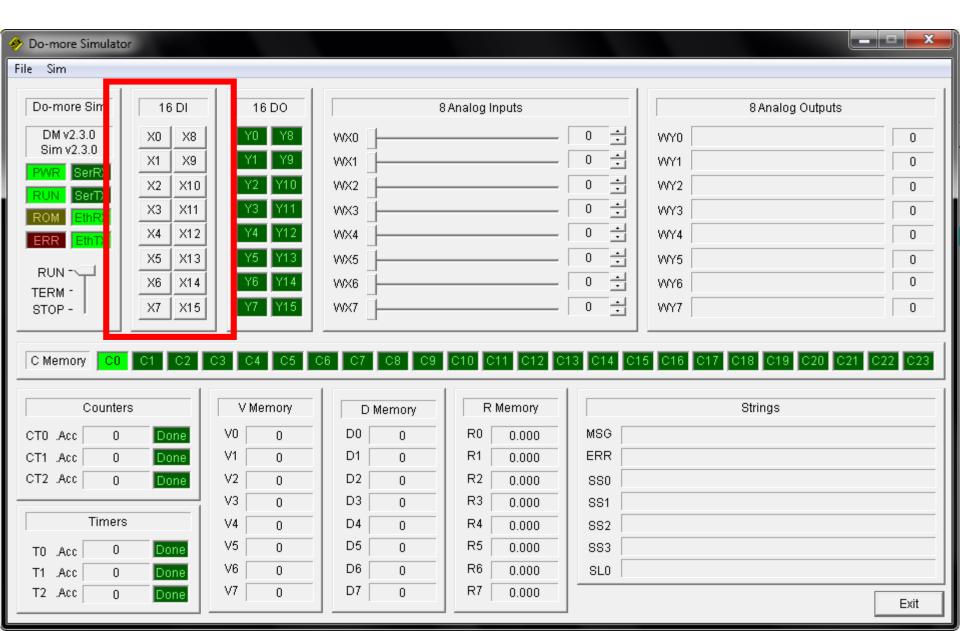
SALIDAS

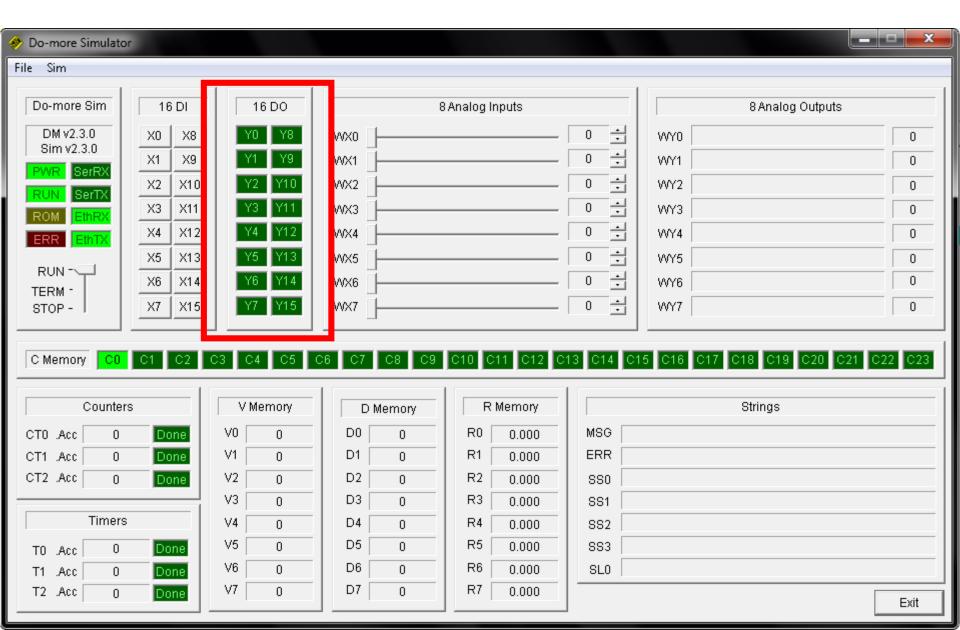
- Parado (P1)
- Estrella (P2)
 - KM1+KM3
- Triángulo (P3)
 - KM1+KM2

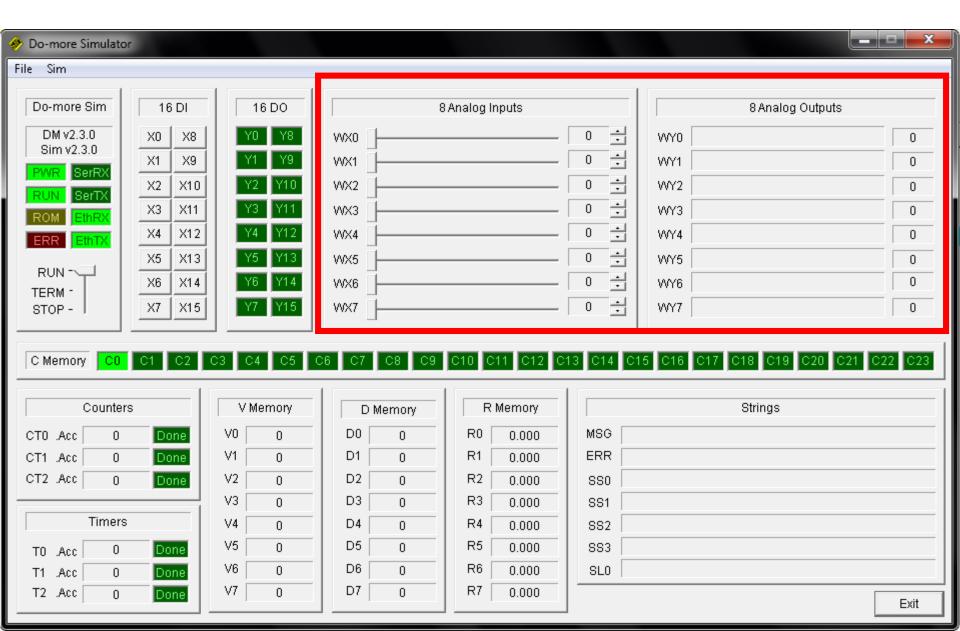


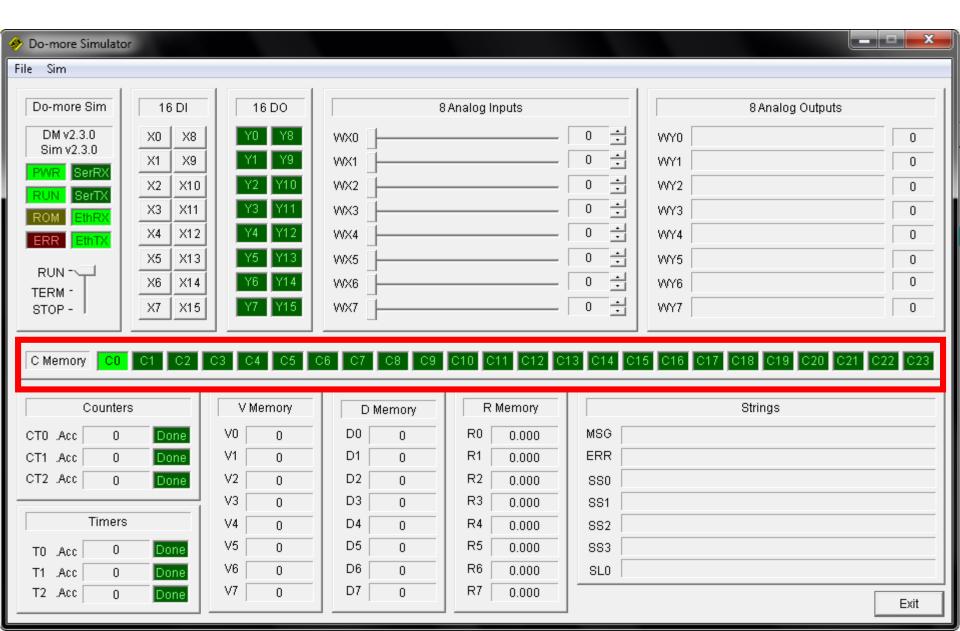


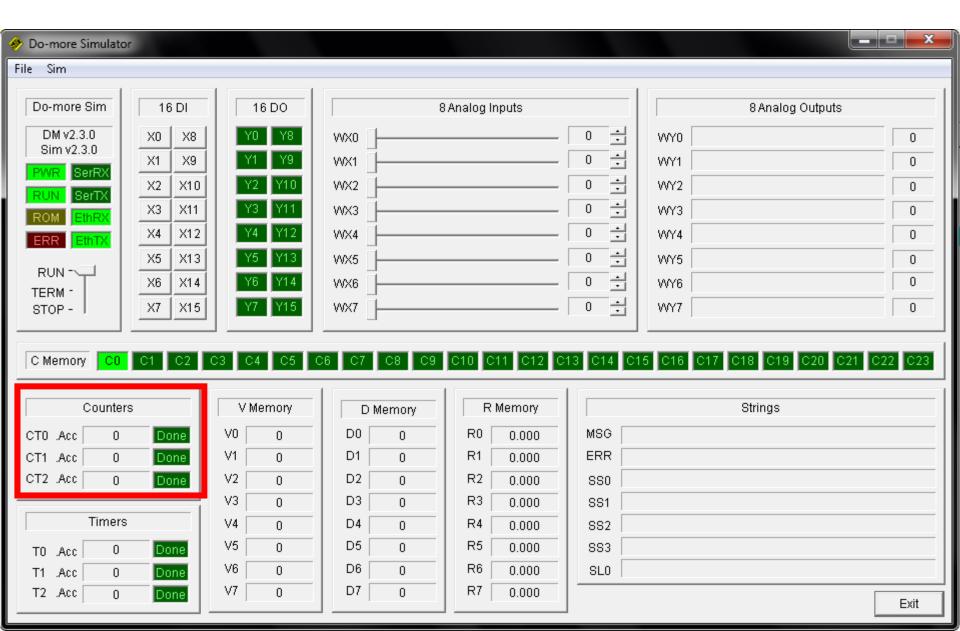












En funcionamiento

• Simulador Do-more

Información automatismo estrella-triángulo:

https://automatismoindustrial.com/motores/1-3-3-motores-asincronos/arranque-estrella-triangulo/

Simulador:

https://support.automationdirect.com/products/domore.html

Correo: Javier.delasMorenas@uclm.es