

# TECHNICAL DOCUMENTATION

## SP9\_5

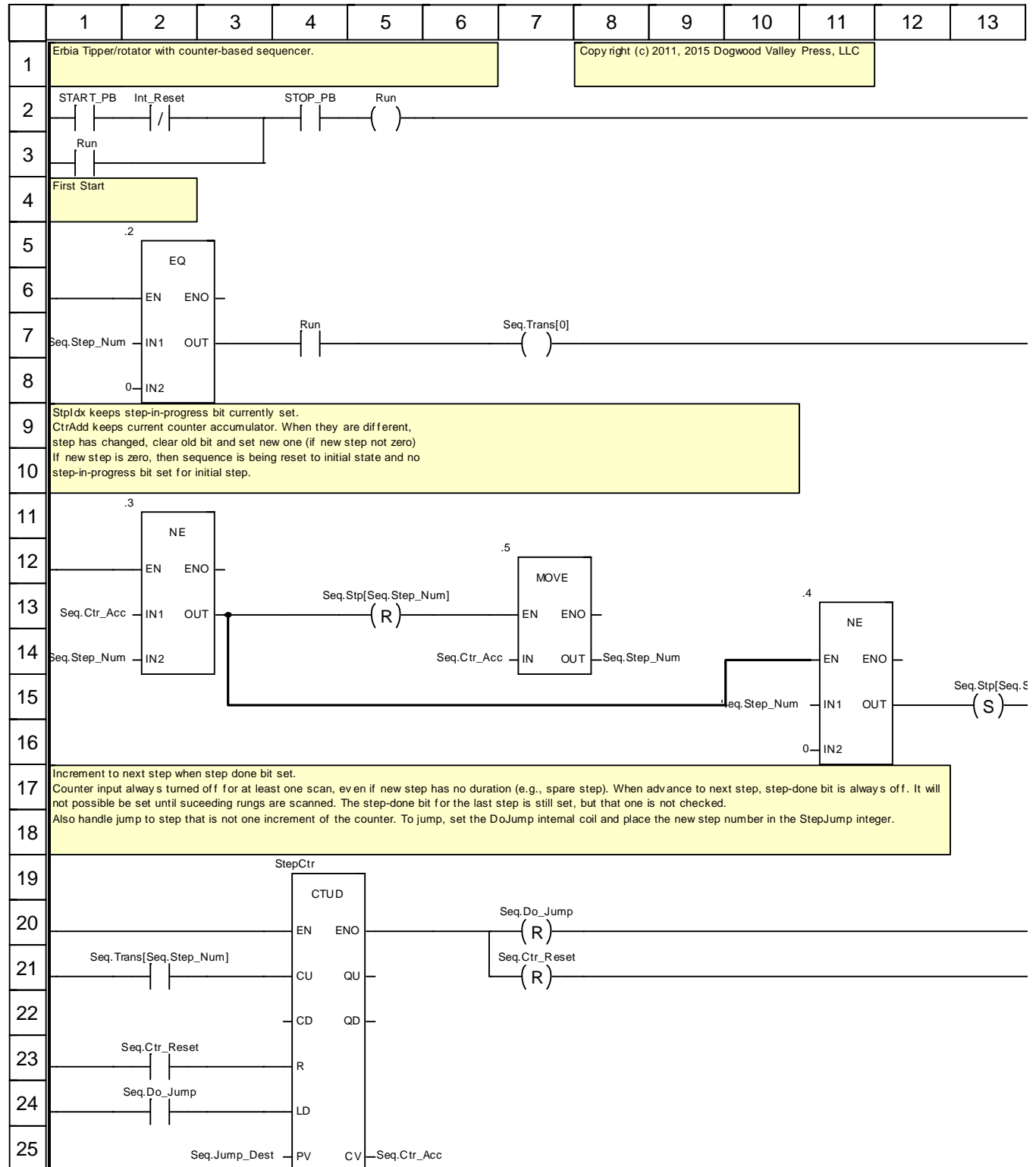
Project	SP9_5
Designer	
Application	sp9_05.stu
Software Version	ControlExpert V15.0-SP1
Creation Date	6/23/2023 5:08:21 PM
Last Modification Date	6/23/2023 5:08:21 PM
Target PLC	BMX P34 1000 02.00CPU 340-10 Modbus

# MAST

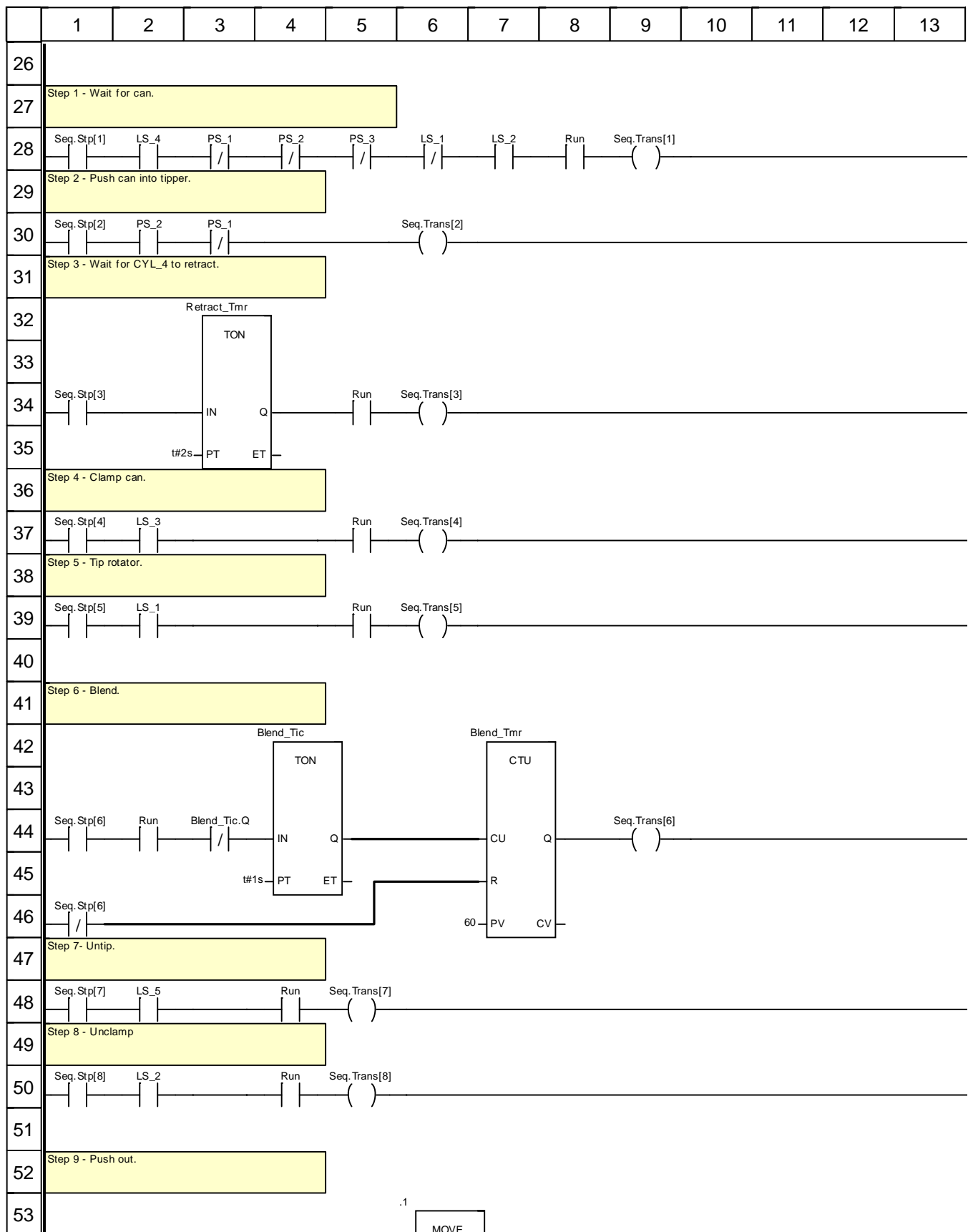
**Specific properties**

Configuration	Cyclic
Task period configuration	0
Watchdog time configuration	250

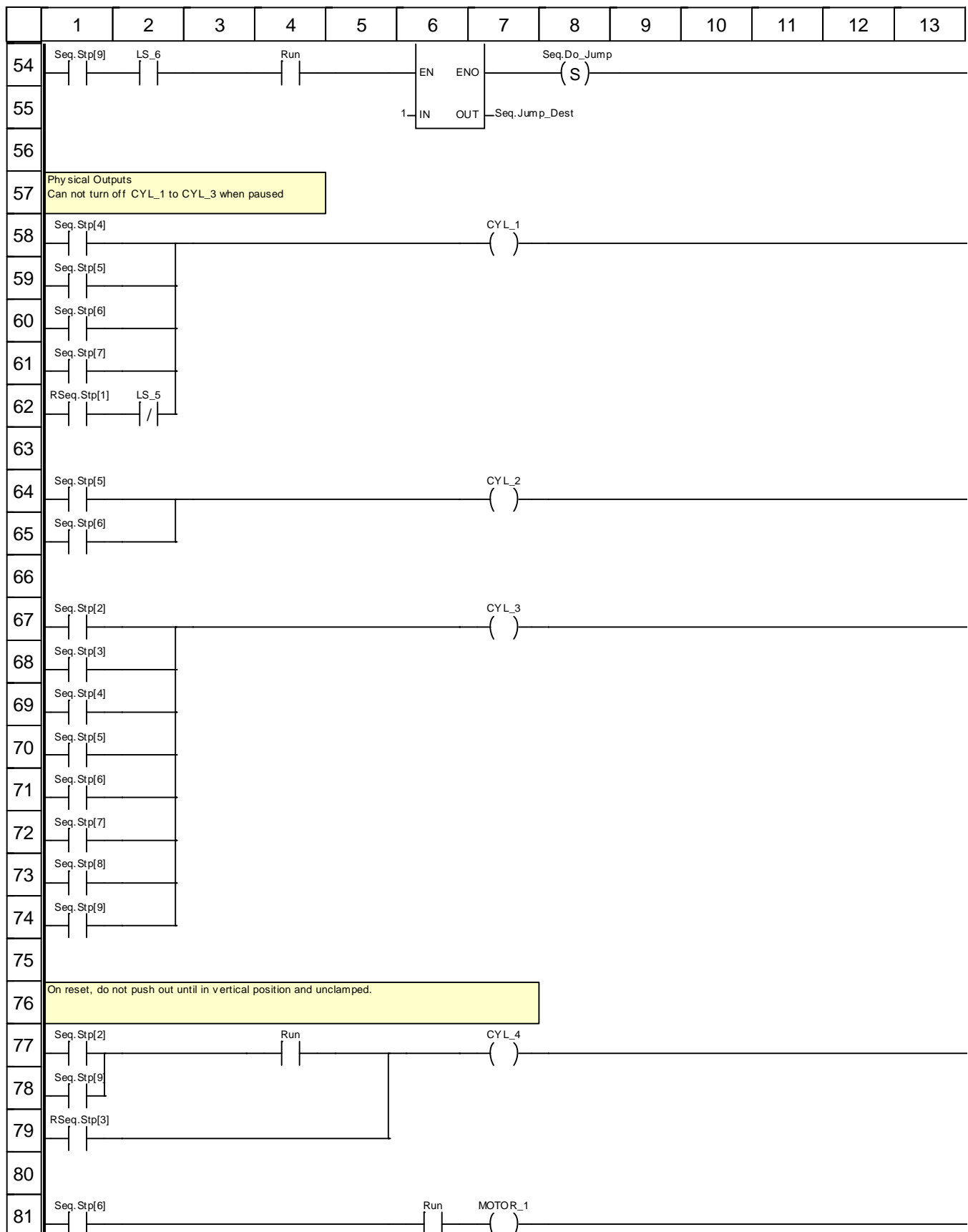
# Main : [MAST]



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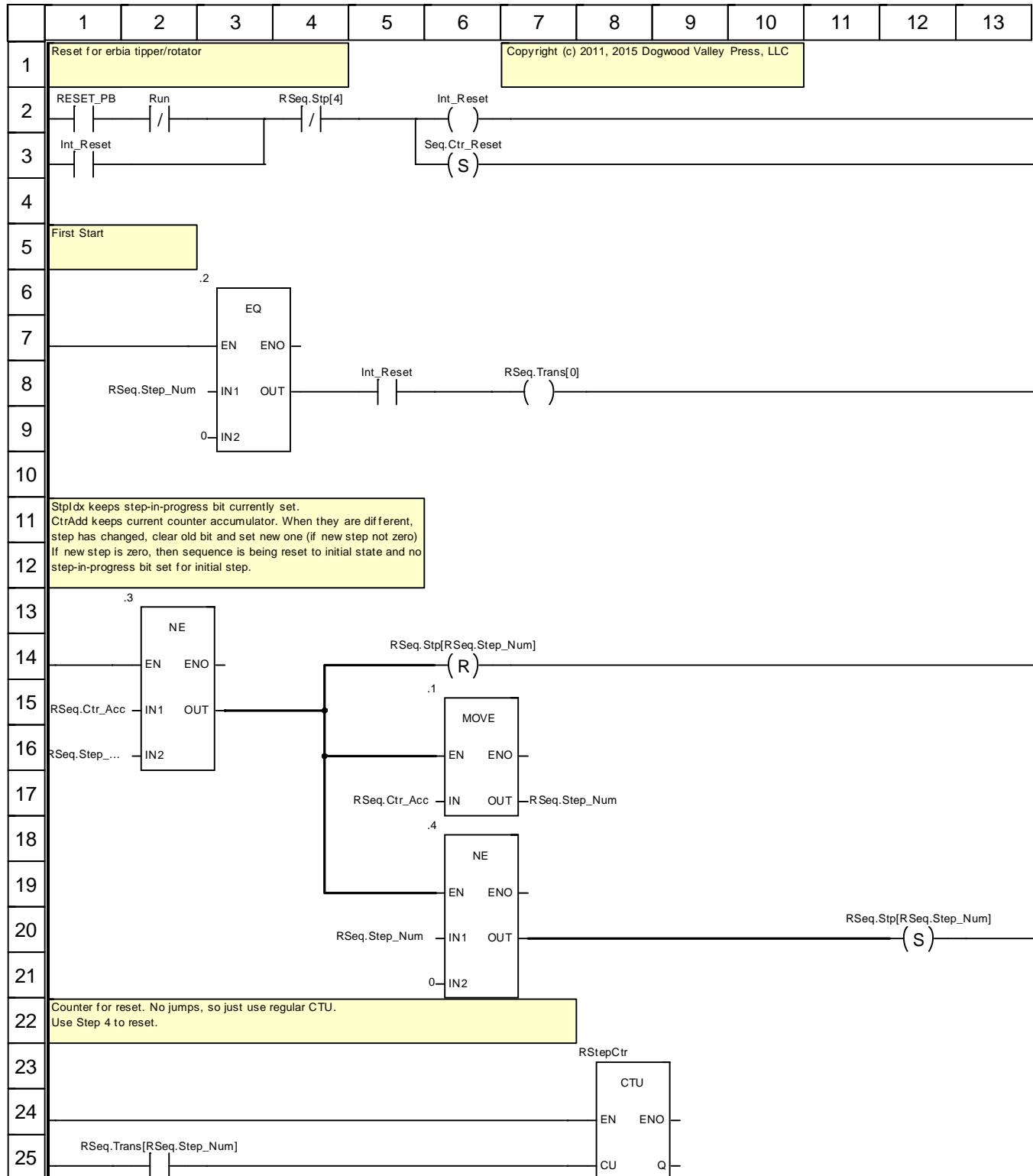
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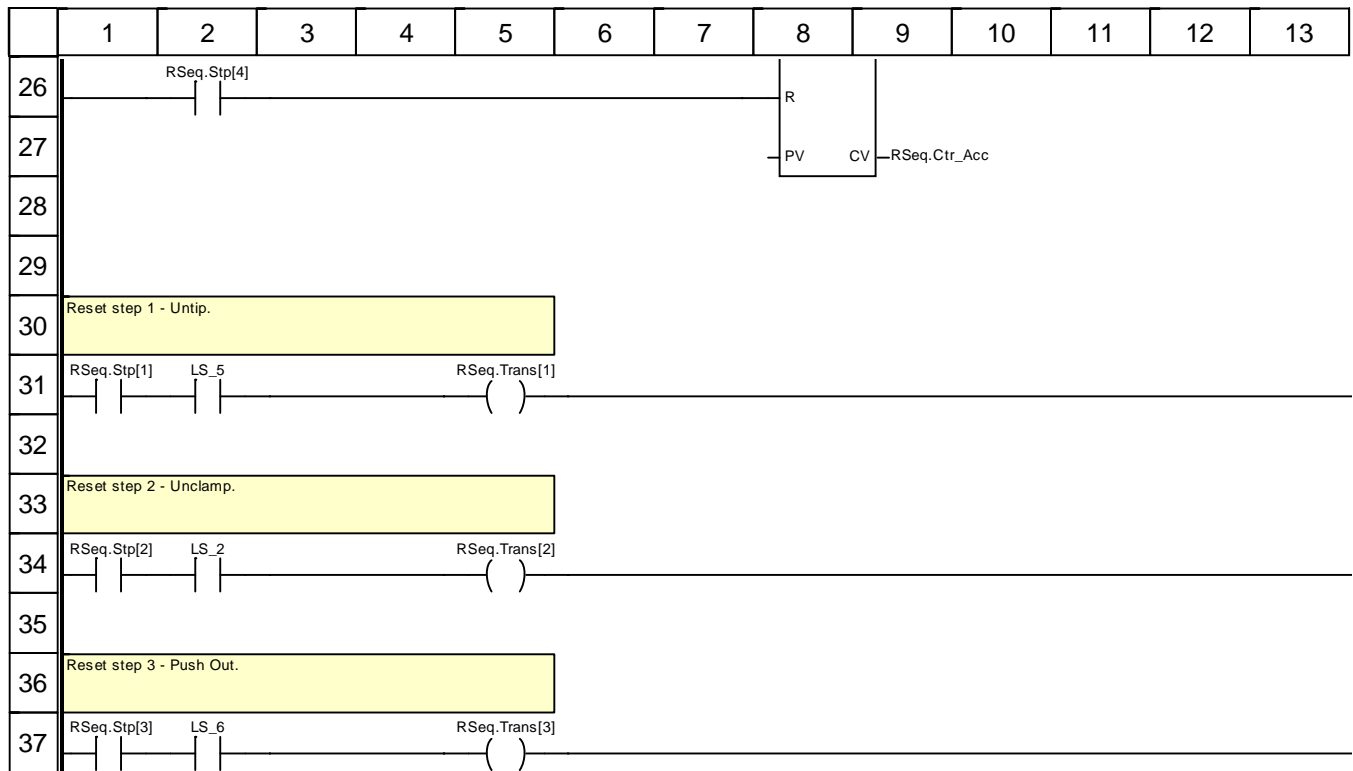
	1	2	3	4	5	6	7	8	9	10	11	12	13
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	14	15	16
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# Reset : [MAST]

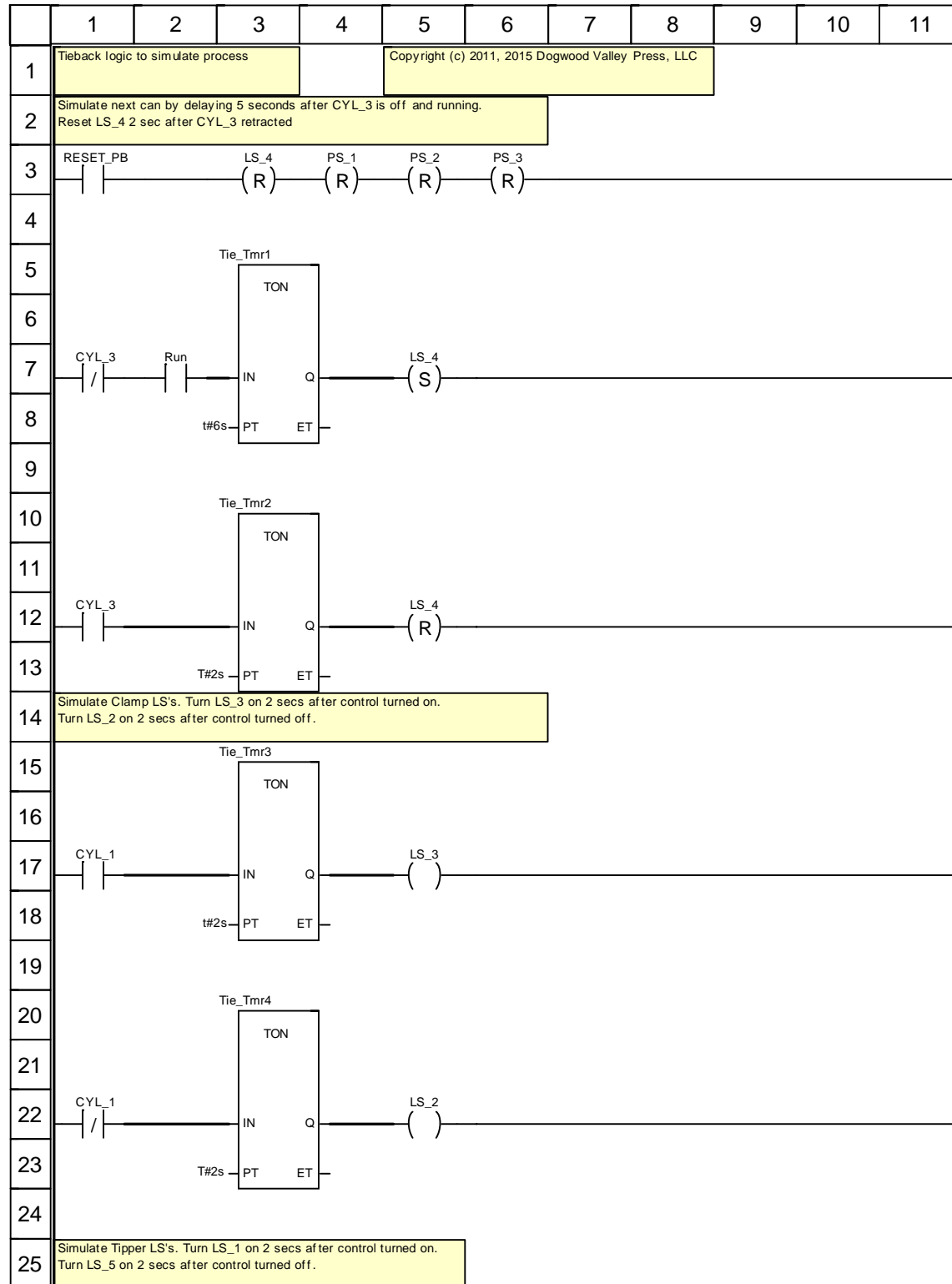


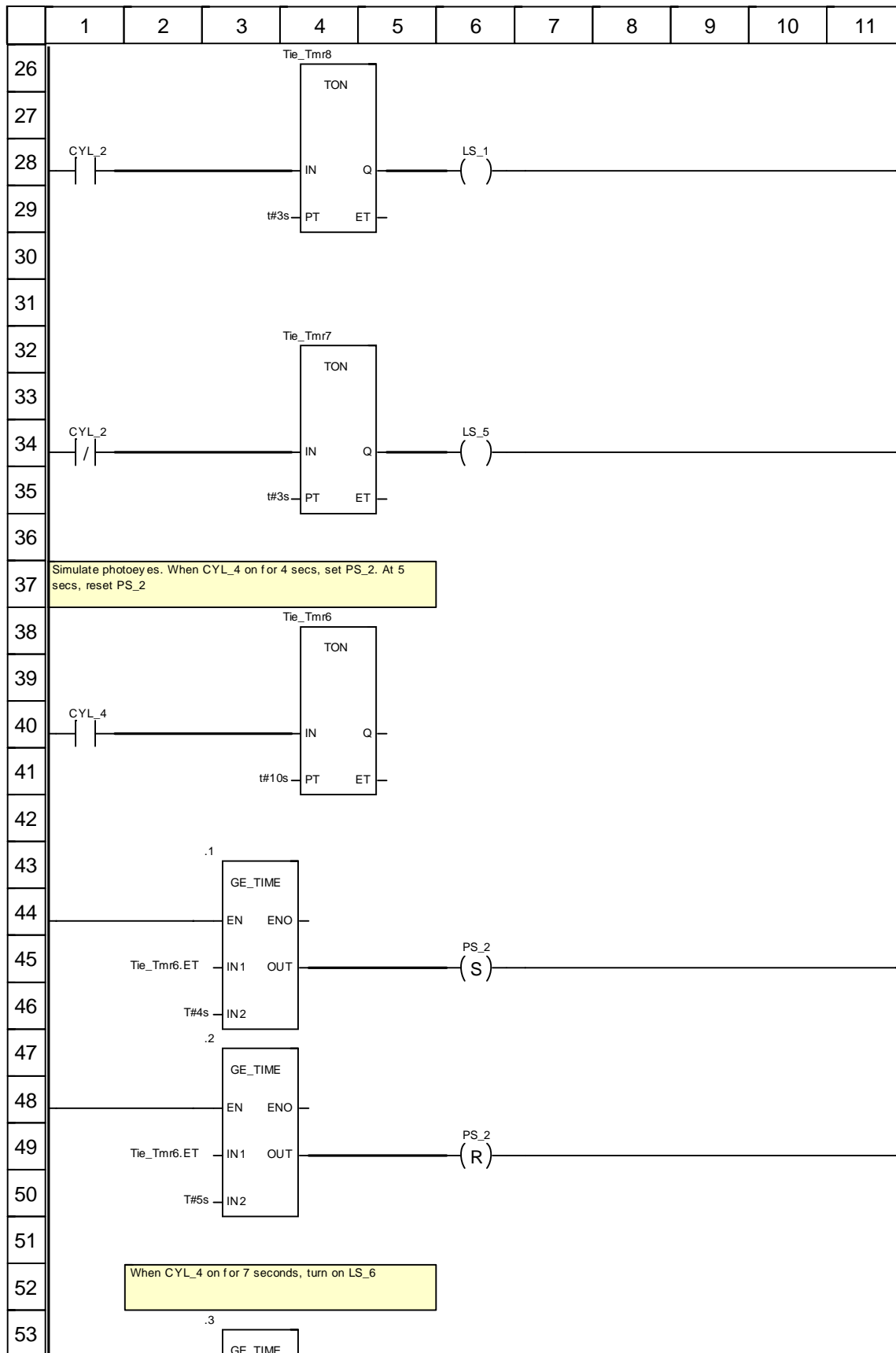
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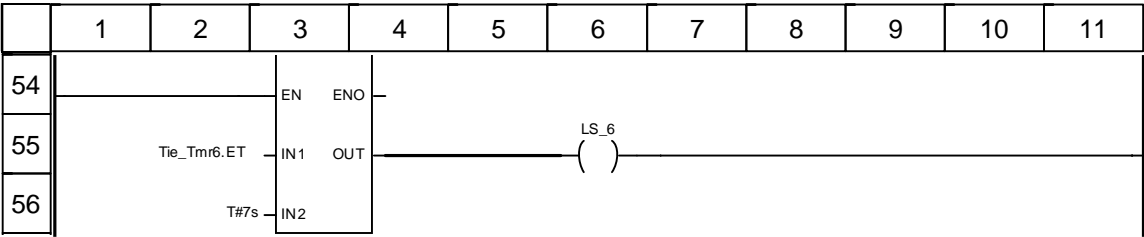
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# Simulation : [MAST]









# FAST

**Specific properties**

Configuration	Periodic
Task period configuration	5
Watchdog time configuration	100

# Cross References

## Application:

### Addresses

Object	Referred into	Location	Usage
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### Variables or FB instances

Object	Referred into	Location	Usage
Blend_Tic	Main : [MAST]	(l 44, c: 3)	R
		(l 42, c: 4)	FC
Blend_Tmr	Main : [MAST]	(l 42, c: 7)	FC
CYL_1	Simulation : [MAST]	(l 17, c: 1)	R
		(l 22, c: 1)	R
	Main : [MAST]	(l 58, c: 7)	W
CYL_2	Simulation : [MAST]	(l 28, c: 1)	R
		(l 34, c: 1)	R
	Main : [MAST]	(l 64, c: 7)	W
CYL_3	Simulation : [MAST]	(l 7, c: 1)	R
		(l 12, c: 1)	R
	Main : [MAST]	(l 67, c: 7)	W
CYL_4	Simulation : [MAST]	(l 40, c: 1)	R
	Main : [MAST]	(l 77, c: 7)	W
Int_Reset	Reset : [MAST]	(l 2, c: 6)	W
		(l 3, c: 1)	R
		(l 8, c: 5)	R
	Main : [MAST]	(l 2, c: 2)	R
LS_1	Simulation : [MAST]	(l 28, c: 6)	W
	Main : [MAST]	(l 28, c: 6)	R
		(l 39, c: 2)	R
LS_2	Simulation : [MAST]	(l 22, c: 5)	W
	Reset : [MAST]	(l 34, c: 2)	R
	Main : [MAST]	(l 28, c: 7)	R
		(l 50, c: 2)	R
LS_3	Simulation : [MAST]	(l 17, c: 5)	W
	Main : [MAST]	(l 37, c: 2)	R
LS_4	Simulation : [MAST]	(l 3, c: 3)	W
		(l 7, c: 5)	W
		(l 12, c: 5)	W
	Main : [MAST]	(l 28, c: 2)	R
LS_5	Simulation : [MAST]	(l 34, c: 6)	W
	Reset : [MAST]	(l 31, c: 2)	R
	Main : [MAST]	(l 48, c: 2)	R
		(l 62, c: 2)	R
LS_6	Simulation : [MAST]	(l 55, c: 6)	W
	Reset : [MAST]	(l 37, c: 2)	R
	Main : [MAST]	(l 54, c: 2)	R
MOTOR_1	Main : [MAST]	(l 81, c: 7)	W
PS_1	Simulation : [MAST]	(l 3, c: 4)	W
	Main : [MAST]	(l 28, c: 3)	R
		(l 30, c: 3)	R
PS_2	Simulation : [MAST]	(l 3, c: 5)	W
		(l 45, c: 6)	W
		(l 49, c: 6)	W

## Cross References

Object	Referred into	Location	Usage
	Main : [MAST]	(l 28, c: 4)	R
		(l 30, c: 2)	R
PS_3	Simulation : [MAST]	(l 3, c: 6)	W
	Main : [MAST]	(l 28, c: 5)	R
RESET_PB	Simulation : [MAST]	(l 3, c: 1)	R
	Reset : [MAST]	(l 2, c: 1)	R
Retract_Tmr	Main : [MAST]	(l 32, c: 3)	FC
RSeq	Reset : [MAST]	(l 2, c: 4)	R
		(l 6, c: 3)	R
		(l 8, c: 7)	W
		(l 13, c: 2)	R
		(l 13, c: 2)	R
		(l 14, c: 6)	R
		(l 14, c: 6)	W
		(l 15, c: 6)	R
		(l 15, c: 6)	W
		(l 18, c: 6)	R
		(l 20, c: 12)	R
		(l 20, c: 12)	W
		(l 23, c: 8)	W
		(l 25, c: 2)	R
		(l 25, c: 2)	R
		(l 26, c: 2)	R
		(l 31, c: 1)	R
		(l 31, c: 5)	W
		(l 34, c: 1)	R
		(l 34, c: 5)	W
		(l 37, c: 1)	R
		(l 37, c: 5)	W
	Main : [MAST]	(l 62, c: 1)	R
		(l 79, c: 1)	R
RStepCtr	Reset : [MAST]	(l 23, c: 8)	FC
Run	Simulation : [MAST]	(l 7, c: 2)	R
	Reset : [MAST]	(l 2, c: 2)	R
	Main : [MAST]	(l 2, c: 5)	W
		(l 3, c: 1)	R
		(l 7, c: 4)	R
		(l 28, c: 8)	R
		(l 34, c: 5)	R
		(l 37, c: 5)	R
		(l 39, c: 5)	R
		(l 44, c: 2)	R
		(l 48, c: 4)	R
		(l 50, c: 4)	R
		(l 54, c: 4)	R
		(l 77, c: 4)	R
		(l 81, c: 6)	R
Seq	Reset : [MAST]	(l 3, c: 6)	W
	Main : [MAST]	(l 5, c: 2)	R
		(l 7, c: 7)	W
		(l 11, c: 2)	R
		(l 11, c: 2)	R
		(l 12, c: 7)	R
		(l 12, c: 7)	W
		(l 13, c: 5)	R

# Cross References

Object	Referred into	Location	Usage
		(t 13, c: 5)	W
		(t 13, c: 11)	R
		(t 15, c: 13)	R
		(t 15, c: 13)	W
		(t 19, c: 4)	R
		(t 19, c: 4)	W
		(t 20, c: 7)	W
		(t 21, c: 2)	R
		(t 21, c: 2)	R
		(t 21, c: 7)	W
		(t 23, c: 2)	R
		(t 24, c: 2)	R
		(t 28, c: 1)	R
		(t 28, c: 9)	W
		(t 30, c: 1)	R
		(t 30, c: 6)	W
		(t 34, c: 1)	R
		(t 34, c: 6)	W
		(t 37, c: 1)	R
		(t 37, c: 6)	W
		(t 39, c: 1)	R
		(t 39, c: 6)	W
		(t 44, c: 1)	R
		(t 44, c: 9)	W
		(t 46, c: 1)	R
		(t 48, c: 1)	R
		(t 48, c: 5)	W
		(t 50, c: 1)	R
		(t 50, c: 5)	W
		(t 53, c: 6)	W
		(t 54, c: 1)	R
		(t 54, c: 8)	W
		(t 58, c: 1)	R
		(t 59, c: 1)	R
		(t 60, c: 1)	R
		(t 61, c: 1)	R
		(t 64, c: 1)	R
		(t 65, c: 1)	R
		(t 67, c: 1)	R
		(t 68, c: 1)	R
		(t 69, c: 1)	R
		(t 70, c: 1)	R
		(t 71, c: 1)	R
		(t 72, c: 1)	R
		(t 73, c: 1)	R
		(t 74, c: 1)	R
		(t 77, c: 1)	R
		(t 78, c: 1)	R
		(t 81, c: 1)	R
START_PB	Main : [MAST]	(t 2, c: 1)	R
StepCtr	Main : [MAST]	(t 19, c: 4)	FC
STOP_PB	Main : [MAST]	(t 2, c: 4)	R
Tie_Tmr1	Simulation : [MAST]	(t 5, c: 3)	FC
Tie_Tmr2	Simulation : [MAST]	(t 10, c: 3)	FC
Tie_Tmr3	Simulation : [MAST]	(t 15, c: 3)	FC

## Cross References

Object	Referred into	Location	Usage
Tie_Tmr4	Simulation : [MAST]	(l 20, c: 3)	FC
Tie_Tmr6	Simulation : [MAST]	(l 43, c: 3)	R
		(l 47, c: 3)	R
		(l 53, c: 3)	R
		(l 38, c: 4)	FC
Tie_Tmr7	Simulation : [MAST]	(l 32, c: 4)	FC
Tie_Tmr8	Simulation : [MAST]	(l 26, c: 4)	FC

### EF objects

Object	Referred into	Location	Usage
eq	Reset : [MAST]	(l 6, c: 3)	FC
	Main : [MAST]	(l 5, c: 2)	FC
eq_int	Reset : [MAST]	(l 6, c: 3)	FC
	Main : [MAST]	(l 5, c: 2)	FC
ge_time	Simulation : [MAST]	(l 43, c: 3)	FC
		(l 53, c: 3)	FC
		(l 47, c: 3)	FC
move	Reset : [MAST]	(l 15, c: 6)	FC
	Main : [MAST]	(l 12, c: 7)	FC
		(l 53, c: 6)	FC
ne	Reset : [MAST]	(l 18, c: 6)	FC
		(l 13, c: 2)	FC
	Main : [MAST]	(l 13, c: 11)	FC
		(l 11, c: 2)	FC
ne_int	Reset : [MAST]	(l 18, c: 6)	FC
		(l 13, c: 2)	FC
	Main : [MAST]	(l 13, c: 11)	FC
		(l 11, c: 2)	FC

# Cross References

## Seq\_Trans:

Variables or FB instances

Object	Referred into	Location	Usage
Sequence	Main <DFB> : [Seq_Trans]	(l 2, c: 4)	R
		(l 2, c: 25)	R
		(l 3, c: 18)	R
		(l 3, c: 5)	W
		(l 4, c: 26)	R
		(l 4, c: 5)	W
		(l 5, c: 8)	R
		(l 6, c: 22)	R
		(l 6, c: 9)	W
		(l 9, c: 30)	R
		(l 9, c: 15)	R
		(l 11, c: 6)	R
		(l 12, c: 8)	R
		(l 13, c: 8)	R
		(l 15, c: 1)	W
		(l 16, c: 1)	W
StepCtr	Main <DFB> : [Seq_Trans]	(l 9, c: 1)	FC