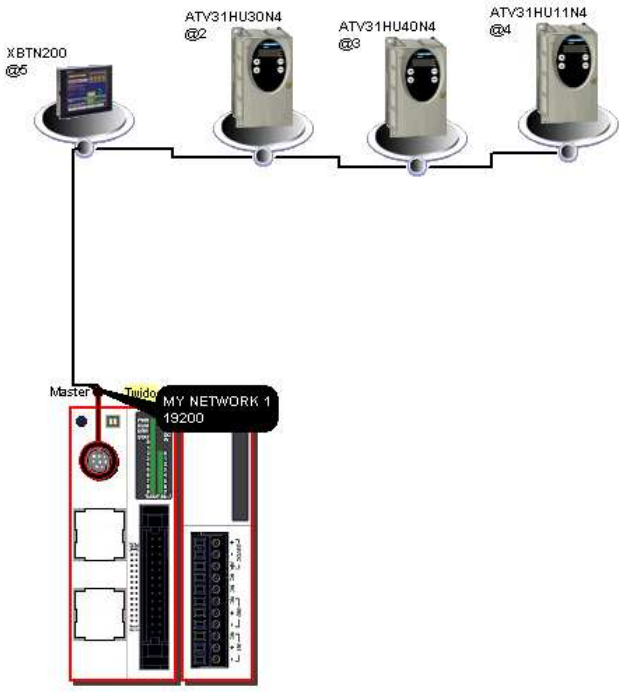
TwidoSuite
Recicladora de Placas V20

Project Information

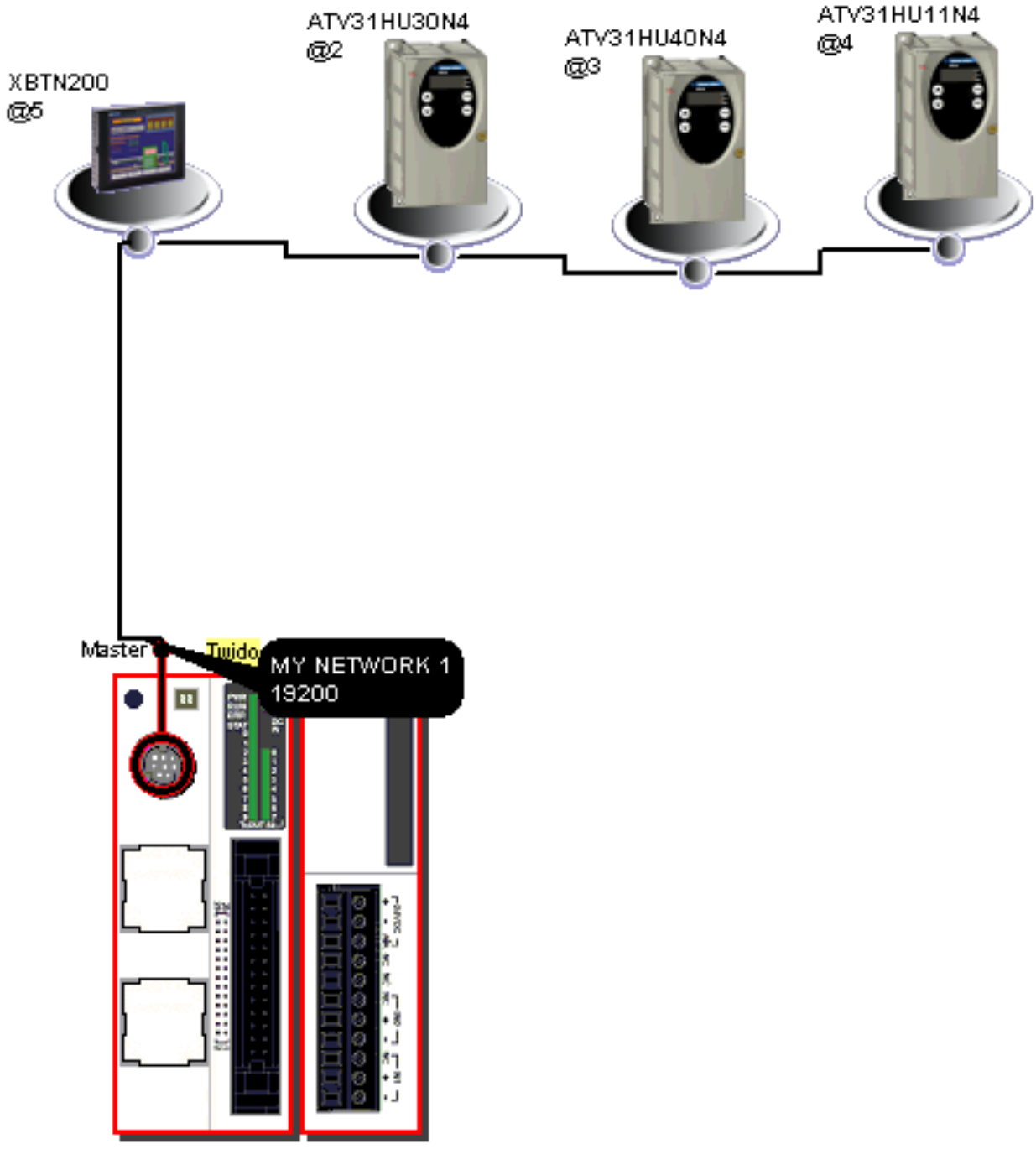
Print date	31/01/2010
Author	
Department	
Index	
Industrial Property	

Comment


ATV31HU30N4
@2
ATV31HU40N4
@3
ATV31HU11N4
@4
XBTN200
@5
Master
Twido
MY NETWORK 1
19200

Page 1

Page 2


XBTN200
@5
ATV31HU30N4
@2
ATV31HU40N4
@3
ATV31HU11N4
@4
Master
Twido
MY NETWORK 1
19200

Page 1

Properties

Network MY NETWORK 1 :

Parameters

Type : Modbus
Address : Master
Baudrate : 19200
Data Bits : 8 (RTU)
Parity : even
Stop Bit : 1
Response Timeout: (x 100ms) : 10
Time between frames (ms) : 10

Element

Name	Type	Address
XBTN200	Modbus	5
ATV31HU30N4	Modbus	2
ATV31HU40N4	Modbus	3
ATV31HU11N4	Modbus	4

Bill of material

Family	Reference number	Quantity
Twido	TWDLMDA20DTK	1
Twido	TWDAMI2HT	1
Modbus elements	Magelis	1
Modbus elements	ATV31	3

Hardware configuration

Base

TWDLMDA20DTK - Modular base controller, 12 24V DC inputs, 8 ouputs (0.3A source transistors). Removable MIL connectors.

Input configuration

Used	Input	Symbol	Filtering	Latch	R/S	Used by
Yes	%I0.0	E1	3 ms	No	No	user logic
Yes	%I0.1	PARO	3 ms	No	No	user logic
Yes	%I0.2	MARCHA	3 ms	No	No	user logic
Yes	%I0.3	PEMER	3 ms	No	No	user logic
Yes	%I0.4	S1	3 ms	No	No	user logic
Yes	%I0.5	SC1	3 ms	No	No	user logic
Yes	%I0.6	SC2	3 ms	No	No	user logic
Yes	%I0.7	SC3	3 ms	No	No	user logic

Output configuration

Used	Output	Symbol	State	Used by
Yes	%Q0.0	MOTORA	No	user logic
Yes	%Q0.1	MOTORB	No	user logic
Yes	%Q0.2	MOTORC	No	user logic
Yes	%Q0.3	ALARMA	No	user logic
Yes	%Q0.4	ENCENDIDO	No	user logic

Expansion bus modules

1 : TWDAMI2HT

Used	Channel	Symbol	Type	Range	Minimum	Maximum	Units
Yes	%IW1.0	INAV1	4 - 20 mA	Normal	0	4095	None
Yes	%IW1.1	INAV2	4 - 20 mA	Normal	0	4095	None

Memory objects configuration

Timer configuration (%TM)

Used	%TM	Symbol	Type	Adjustable	Time Base	Preset
Yes	%TM0		TOF	Yes	1 s	40
Yes	%TM1		TOF	Yes	1 s	40

Counter configuration (%C)

Used	%C	Symbol	Adjustable	Preset
Yes	%C0	PASO_DE_PANTALLA	Yes	3

Drum configuration (%DR)

Drum configuration

DRUM %DR0 Num. Step(s) : 3
Symbol : CONTROL_SUPERVISON__VARIADORES
Used : Yes

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
STEP 0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STEP 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STEP 2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Outputs	
Bit 0	%M100
Bit 1	%M101
Bit 2	%M102
Bit 3	None
Bit 4	None
Bit 5	None
Bit 6	None
Bit 7	None
Bit 8	None
Bit 9	None
Bit 10	None
Bit 11	None
Bit 12	None
Bit 13	None
Bit 14	None
Bit 15	None

Memory words (%MW)

Used	%MW	Symbol	Allocated
Yes	%MW0		Yes
Yes	%MW1		Yes
Yes	%MW2		Yes
Yes	%MW3		Yes
Yes	%MW4	V_VARIADOR_1	Yes
Yes	%MW5		Yes
Yes	%MW6		Yes
Yes	%MW7		Yes
Yes	%MW8		Yes
Yes	%MW9		Yes
Yes	%MW10		Yes
Yes	%MW11		Yes
Yes	%MW12		Yes
Yes	%MW13		Yes
Yes	%MW14		Yes
Yes	%MW15		Yes
Yes	%MW16		Yes
Yes	%MW17		Yes
Yes	%MW18		Yes

Used	%MW	Symbol	Allocated
Yes	%MW19		Yes
Yes	%MW20		Yes
Yes	%MW21		Yes
Yes	%MW22		Yes
Yes	%MW23		Yes
Yes	%MW24		Yes
Yes	%MW25		Yes
Yes	%MW26		Yes
Yes	%MW27		Yes
Yes	%MW28		Yes
Yes	%MW29		Yes
Yes	%MW30		Yes
Yes	%MW31		Yes
Yes	%MW32		Yes
Yes	%MW33		Yes
Yes	%MW34		Yes
Yes	%MW35	V_VARIADOR_2	Yes
Yes	%MW36		Yes
Yes	%MW37		Yes
Yes	%MW38		Yes
Yes	%MW39		Yes
Yes	%MW40		Yes
Yes	%MW41		Yes
Yes	%MW42		Yes
Yes	%MW43		Yes
Yes	%MW44		Yes
Yes	%MW45		Yes
Yes	%MW46		Yes
Yes	%MW47		Yes
Yes	%MW48		Yes
Yes	%MW49		Yes
Yes	%MW50		Yes
Yes	%MW51		Yes
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Yes	%MW53		Yes
Yes	%MW54		Yes
Yes	%MW55		Yes
Yes	%MW56		Yes
Yes	%MW57		Yes
Yes	%MW58		Yes
Yes	%MW59		Yes
Yes	%MW61		Yes
Yes	%MW62		Yes
Yes	%MW63		Yes
Yes	%MW64		Yes
Yes	%MW65		Yes
Yes	%MW66	V_VARIADO_3	Yes
Yes	%MW67		Yes
Yes	%MW68		Yes
Yes	%MW69		Yes
Yes	%MW70		Yes
Yes	%MW71		Yes
Yes	%MW72		Yes
Yes	%MW73		Yes
Yes	%MW74		Yes
Yes	%MW75		Yes
Yes	%MW76		Yes
Yes	%MW77		Yes
Yes	%MW78		Yes
Yes	%MW79		Yes
Yes	%MW80		Yes
Yes	%MW81		Yes
Yes	%MW82		Yes
Yes	%MW83		Yes
Yes	%MW84		Yes
Yes	%MW85		Yes

Used	%MW	Symbol	Allocated
Yes	%MW86		Yes
Yes	%MW87		Yes
Yes	%MW88		Yes
Yes	%MW89		Yes
Yes	%MW90		Yes
Yes	%MW100		Yes
Yes	%MW101		Yes
Yes	%MW150		Yes
Yes	%MW152		Yes
Yes	%MW200	VELOCIDAD_MOTRO_A	Yes
Yes	%MW201	VELOCIDAD_MOTOR_B	Yes
Yes	%MW202	VELOCIDAD_MOTRO_C	Yes

Memory bits (%M)

Used	%M	Symbol	Allocated
Yes	%M1	ENCENDIDO_OK	Yes
Yes	%M2	CON_F_OK	Yes
Yes	%M3	S_I_MOLIDO	Yes
Yes	%M4	S_I_TRITURADO	Yes
Yes	%M5	AUX_M3	Yes
Yes	%M6	AUX_M4	Yes
Yes	%M7	S_I_MOLID_REV	Yes
Yes	%M8	S_I_TRITU_REV	Yes
Yes	%M10	SEN_MOTORA	Yes
Yes	%M11	SEN_MOTORB	Yes
Yes	%M12	SEN_MOTORC	Yes
Yes	%M13	AUX_4	Yes
Yes	%M14	AUX_5	Yes
Yes	%M20	AUX_1	Yes
Yes	%M21	AUX_2	Yes
Yes	%M22	AUX_3	Yes
Yes	%M100	VARIADOR_3	Yes
Yes	%M101	VARIADOR_2	Yes
Yes	%M102	VARIADOR_1	Yes
Yes	%M103	RESET	Yes

Configuration of external objects Drive

Macro Drive 0 : configured

General			
Network : Modbus - Port 1 Network address : 2			
Function	Start address	Number of words	Symbols
D_MANAGER	0	30	No
D_RUN_FWD	0	30	No
D_RUN_REV	0	30	No
D_STOP	0	30	No
D_SELECT_SPEED	0	30	No
D_CLEAR_ERR	0	30	No

Macro Drive 1 : configured

General			
Network : Modbus - Port 1 Network address : 3			
Function	Start address	Number of words	Symbols
D_MANAGER	30	30	No
D_RUN_FWD	30	30	No
D_RUN_REV	30	30	No
D_STOP	30	30	No
D_SELECT_SPEED	30	30	No
D_CLEAR_ERR	30	30	No

Macro Drive 2 : configured

General
Network : Modbus - Port 1

Network address : 4			
Function	Start address	Number of words	Symbols
D_MANAGER	61	30	No
D_RUN_FWD	61	30	No
D_RUN_REV	61	30	No
D_STOP	61	30	No
D_SELECT_SPEED	61	30	No
D_CLEAR_ERR	61	30	No

Memory

Memory usage statistic

User data			
Memory bits	:	104 Bits	0.2%
Memory words	:	203 Words	5.9%
Backed up	:	???	
RAM = EEPROM	:	???	
Constants	:	0 Words	0.0%
Configuration	:	352 Words	10.2%
Avail. mem. data	:	2749 Words	79.7%

User program			
Executable code	:	5578 Words	34.1%
Prog. data	:	38 Words	1.1%
Online modif.	:	0 Words	0.0%
Avail. code mem.	:	10807 Words	65.9%

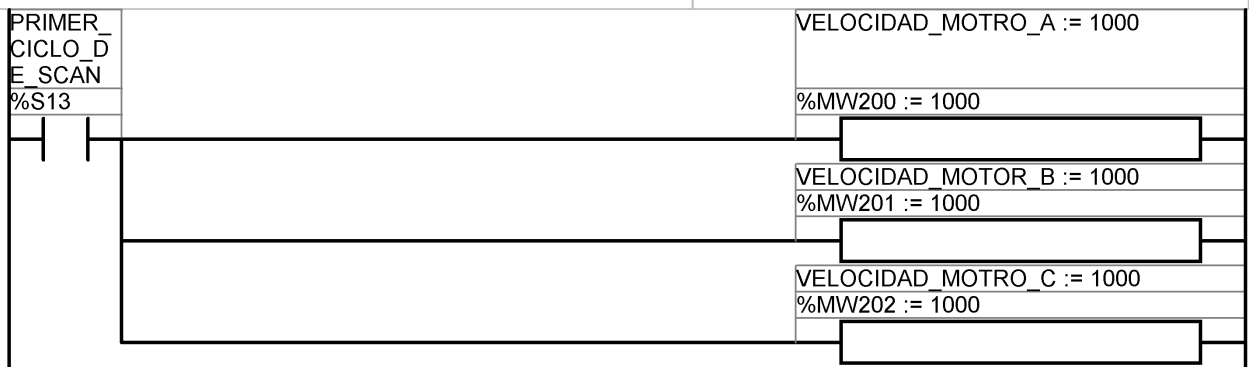
Other			
Execution data	:	100 Words	2.9%

Program lists and diagrams

1 LD A6 PUESTA EN ESTADO INICIAL

INICALIZAMOS LA VELOCIDAD DE LOS VARIADORES A LA MAXIMA

Rung 0

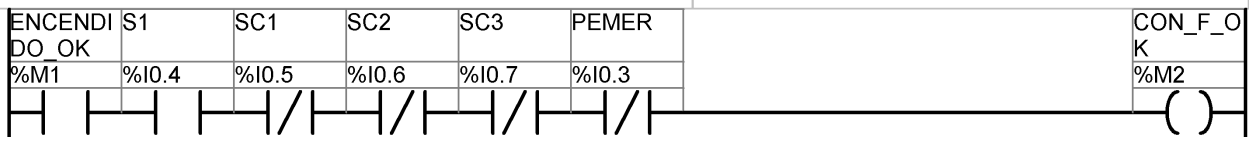


CONDICION DE ENCENDIDO

Rung 1

CONDICION DE FUNCIONAMIENTO OK

Rung 2



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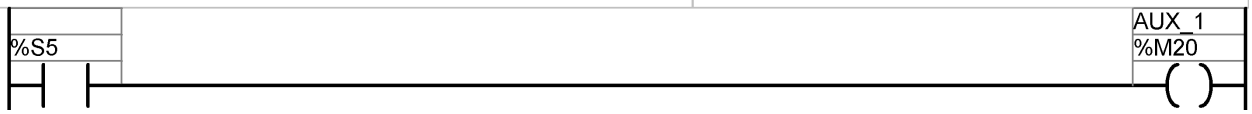

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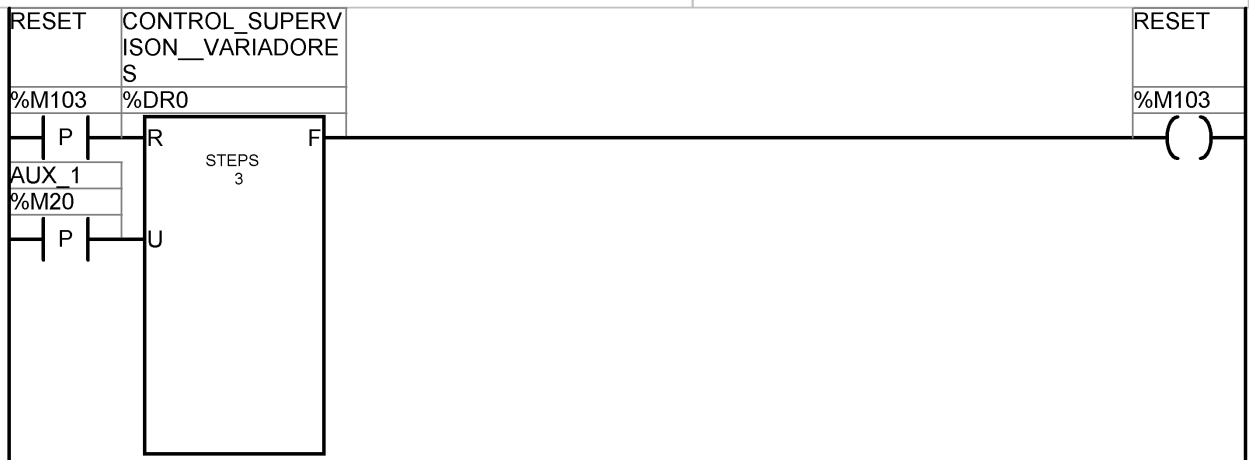
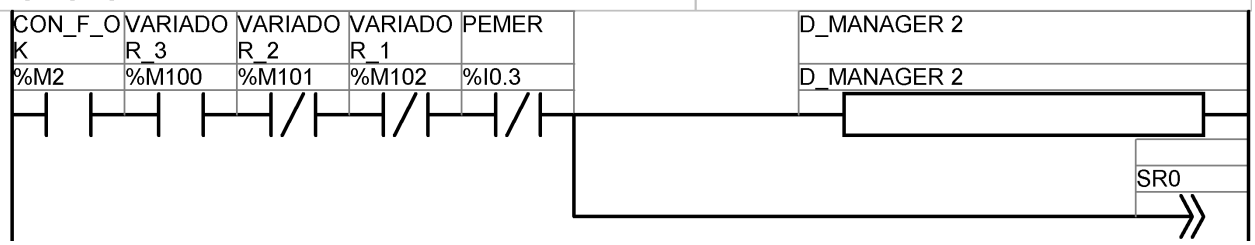


2 LD F2 MARCHA PREPARACION

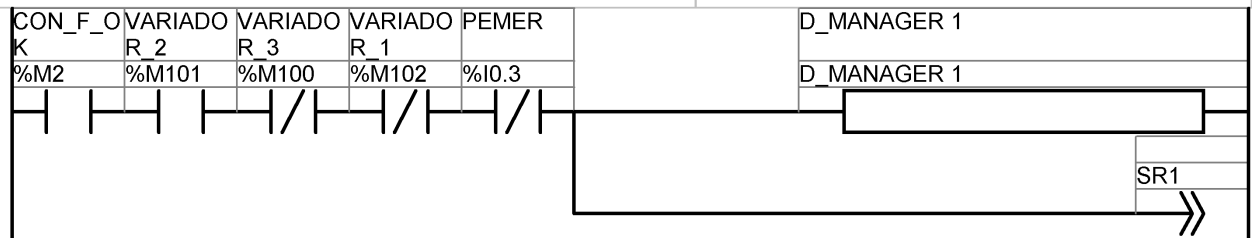
ENCENDIDOMOTOR CINTA

Rung 0



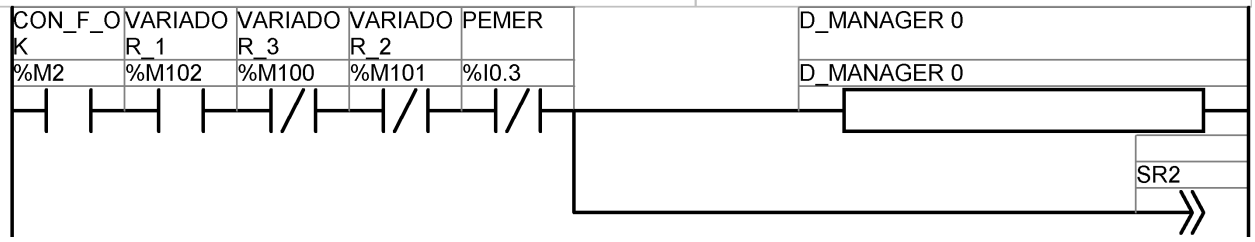
ENCENDIDO MOTOR MOLIDO

Rung 1



ENCENDIDO MOTOR TRITURADO

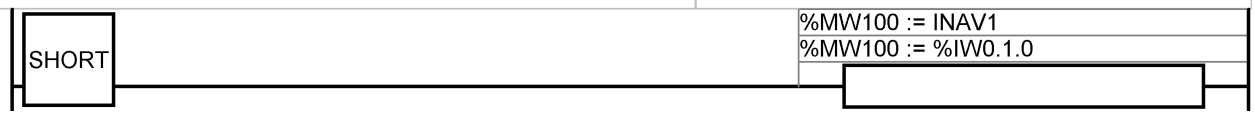
Rung 2



3 LD F1 FUNCIONAMIENTO NORMAL

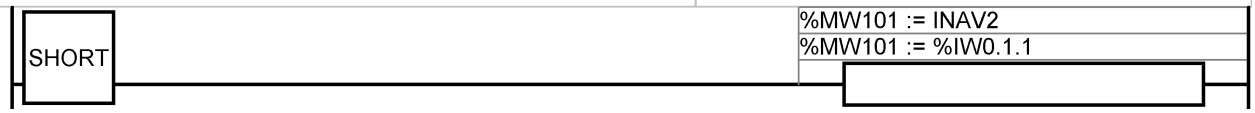
LECTURA DE LA CORRIENTE CONSUMIDA DEL MOTOR A

Rung 0



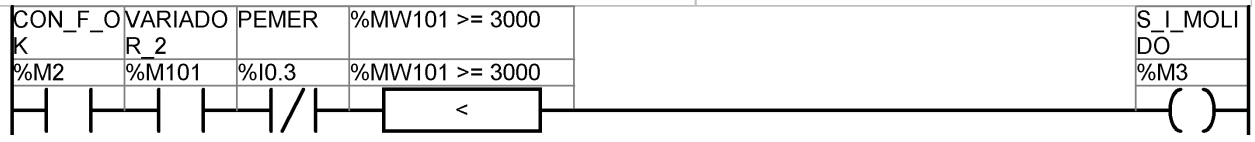
LECTURA DE LA CORRIENTE CONSUMIDA DEL MOTOR B

Rung 1



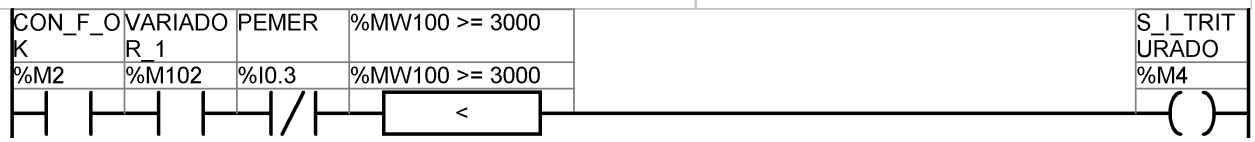
CONTROL CORRIENTE EN B NO SUPERE EL 1.5IN

Rung 2



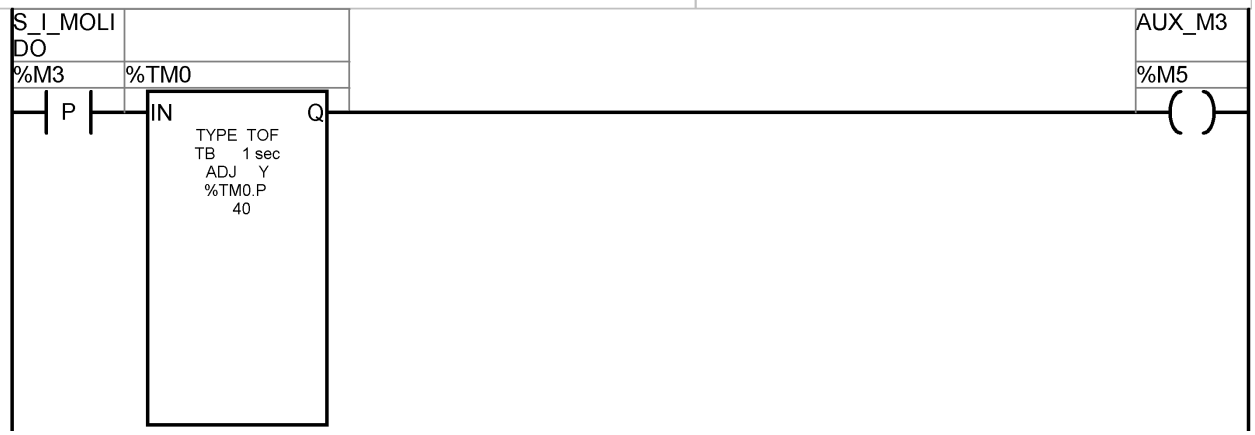
CONTROL CORRIENTEEN A NO SUPERE EL 1.5IN

Rung 3



TIEMPO DE DESATASCAR

Rung 4



TIEMPO DE DESATASCAR

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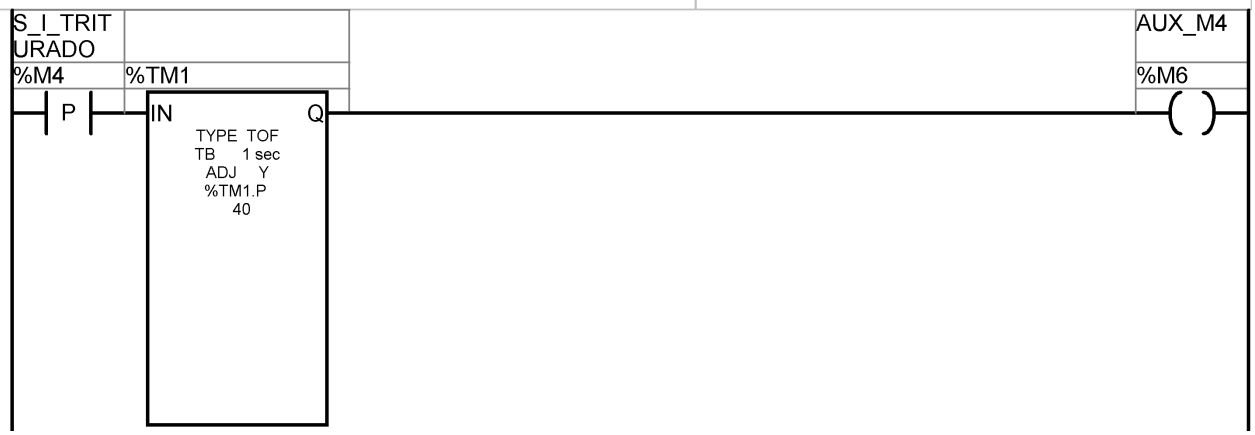
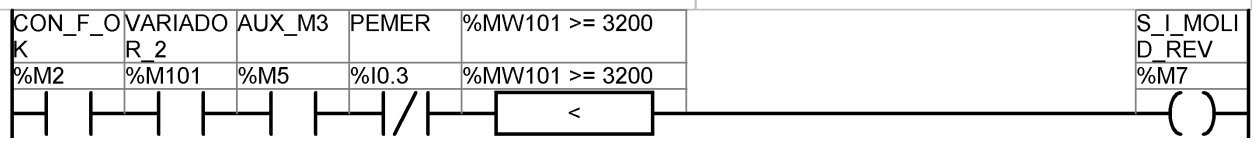


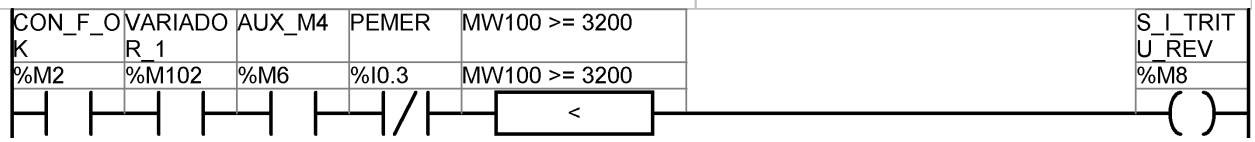
CONTROL DE I EN B DESATASCANDO

Rung 6



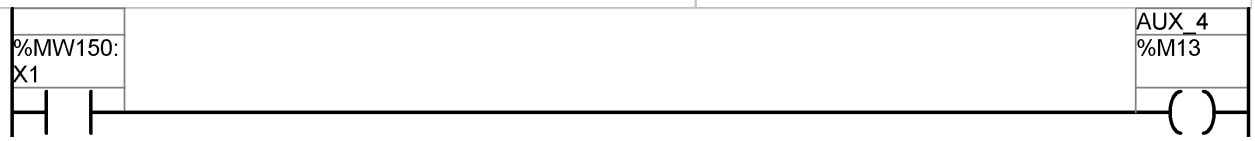
CONTROL DE I EN A DESATASCANDO

Rung 7

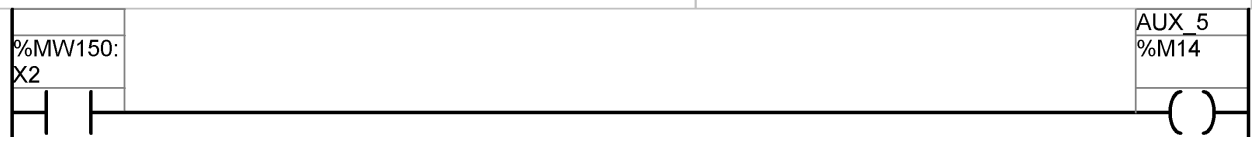


TELCAS DE FUNCION DEL TERMINAL

Rung 8

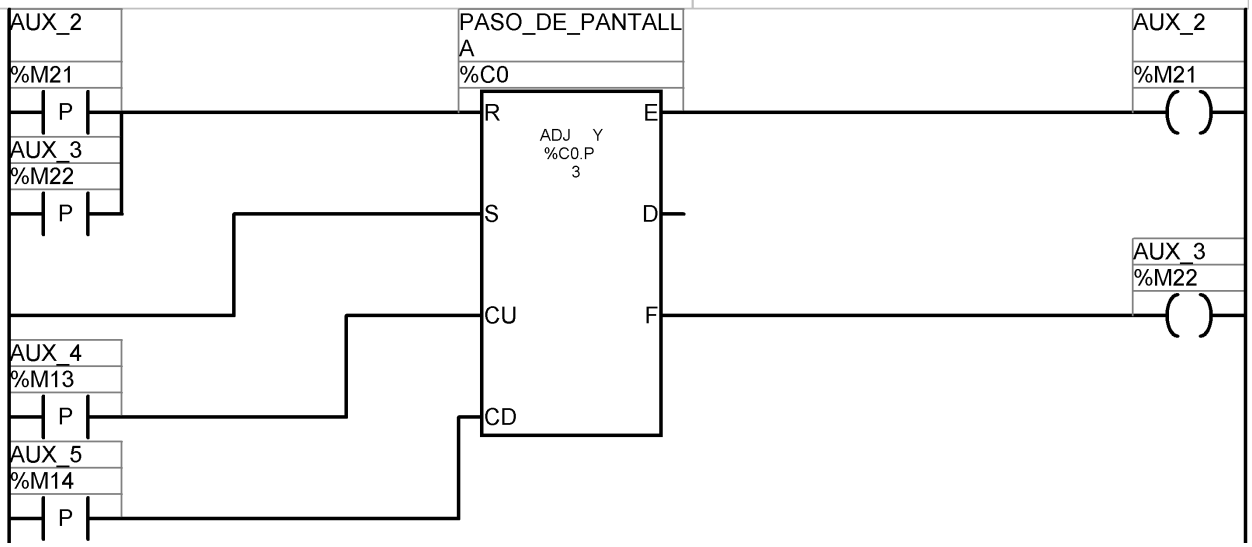


Rung 9



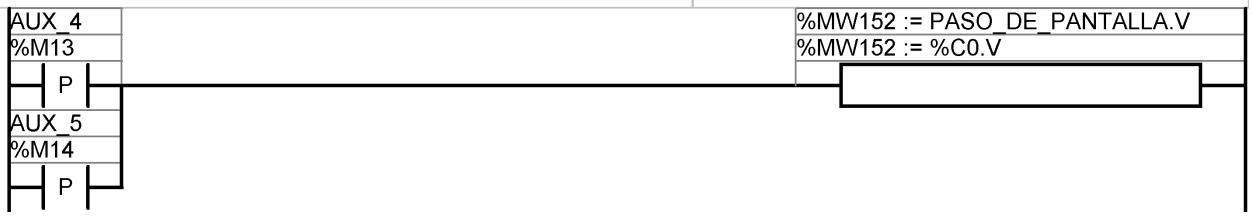
CICLO DE PANTALLAS 1-2-3

Rung 10



INDICAMOS QUE PANTALLA QUEREMOS

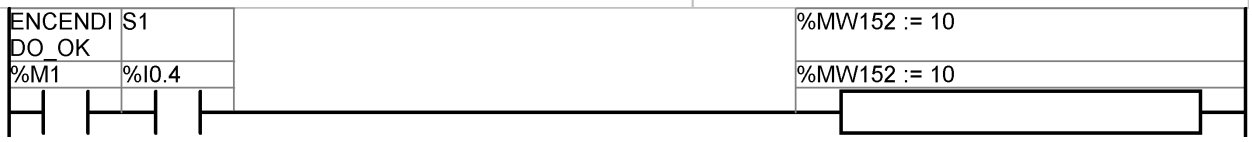
Rung 11



4 LD D1 D2 DETECCION TRATAMIENTO DE ALARMAS FALLOS

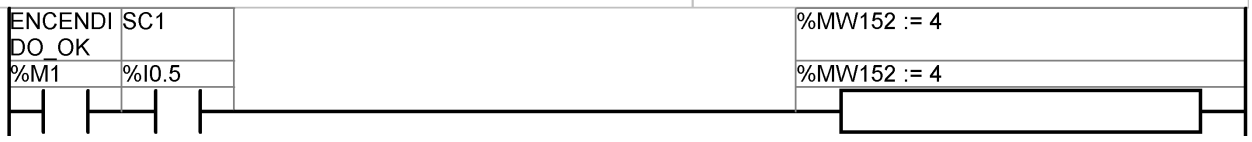
INDICAR ERROR EN PANTALLA

Rung 0



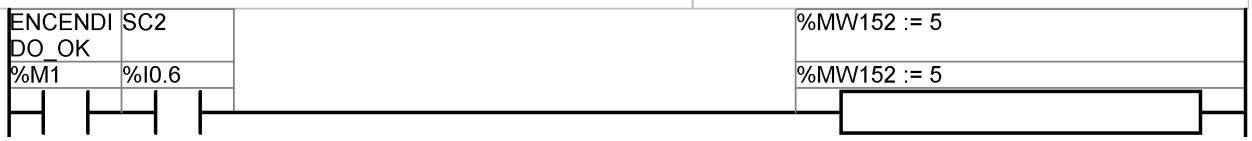
INDICAR ERROR EN PANTALLA

Rung 1



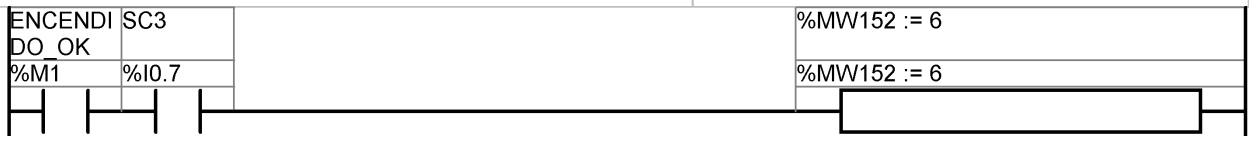
INDICAR ERROR EN PANTALLA

Rung 2



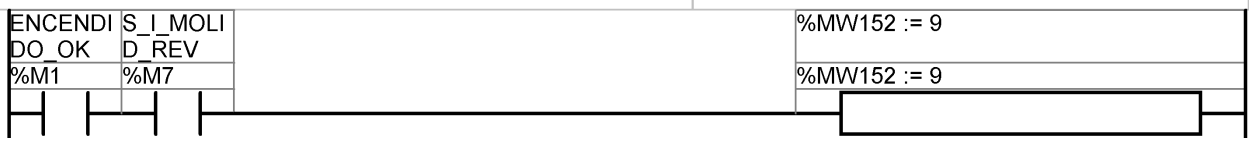
INDICAR ERROR EN PANTALLA

Rung 3



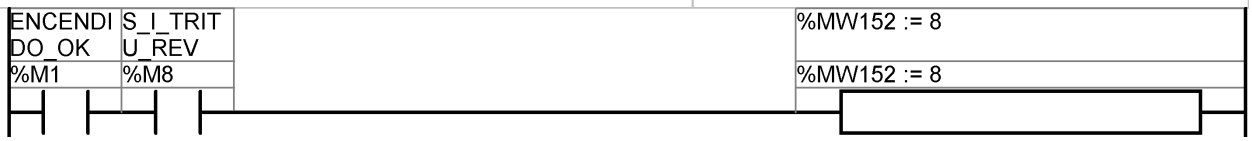
INDICAR ERROR EN PANTALLA

Rung 4



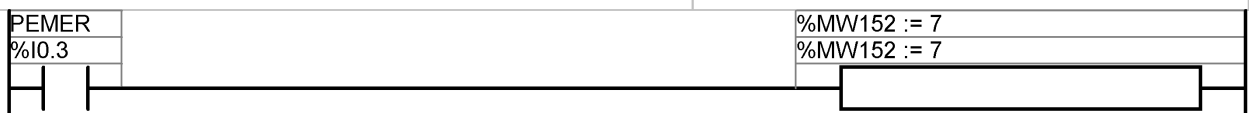
INDICAR ERROR EN PANTALLA

Rung 5



INDICAR ERROR EN PANTALLA

Rung 6

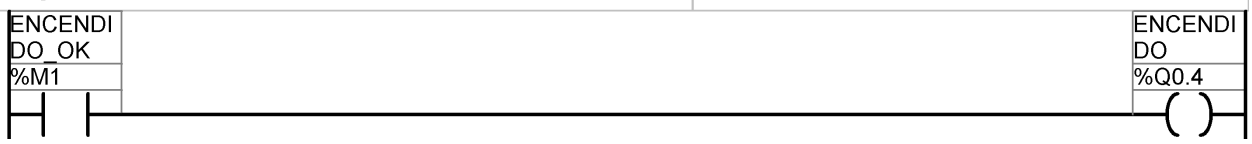


ALARMA

Rung 7

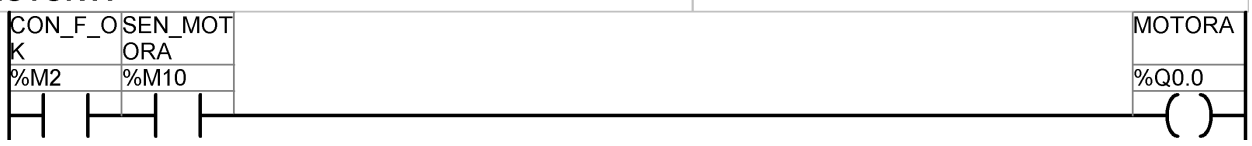
ENECENDIDO

Rung 8



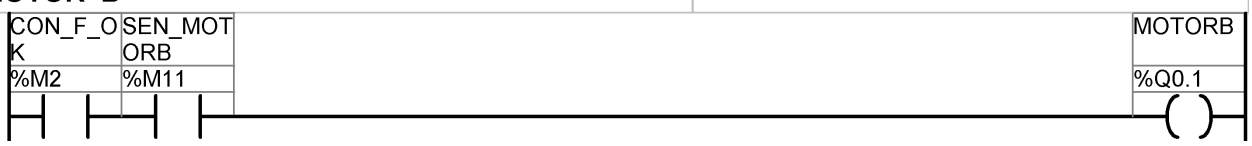
PILOTO MOTOR A

Rung 9



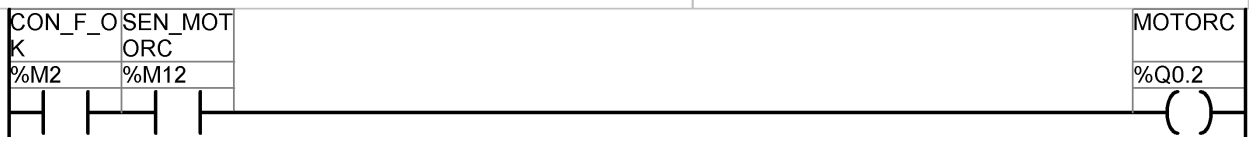
PILOTO MOTOR B

Rung 10



PILOTO MOTOR C

Rung 11

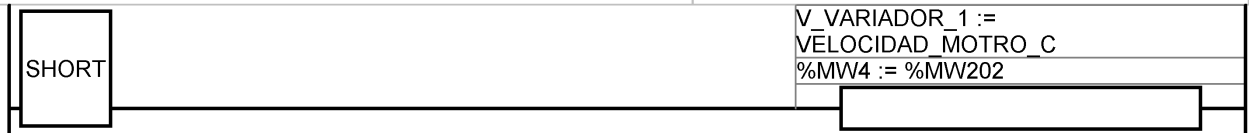


5 LD CONTROL VARIADOR MOTOR CINTA

SE INDICA LA VELOCIDAD

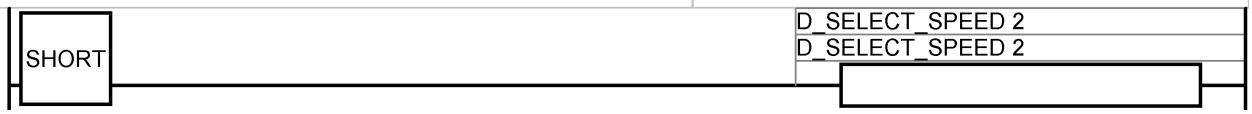
Rung 0

SR 0



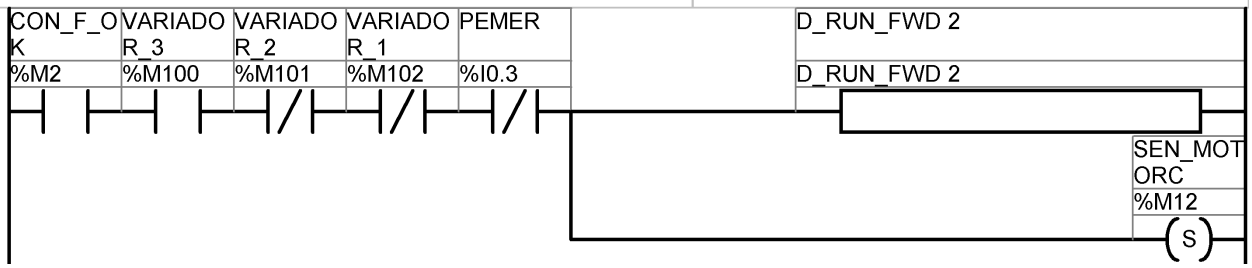
LECTURA VELOCIDAD

Rung 1



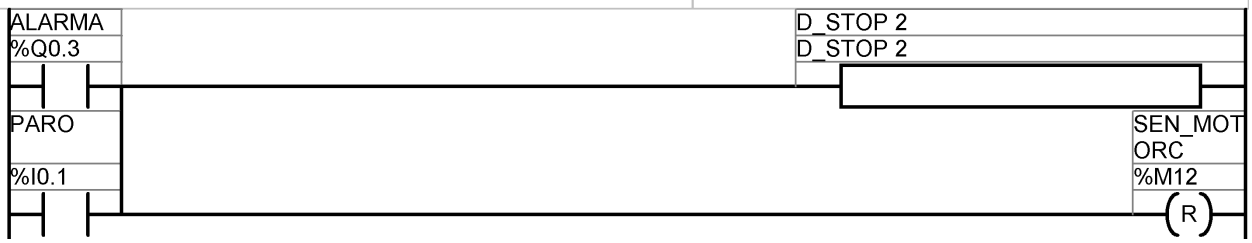
RUN FWD

Rung 2

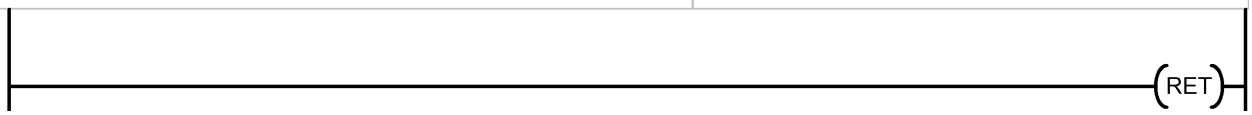


STOP

Rung 3



Rung 4

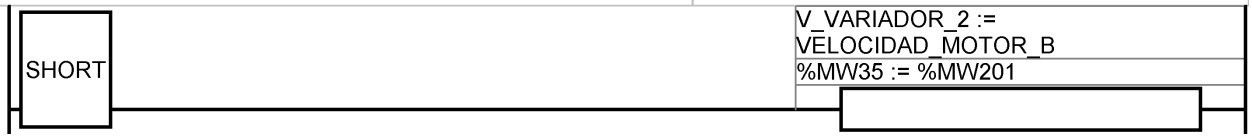


6 LD CONTROL VARIADOR MOTOR MOLIDO

SE INDICA LA VELOCIDAD

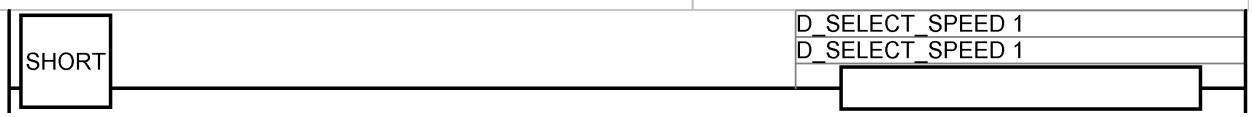
Rung 0

SR 1



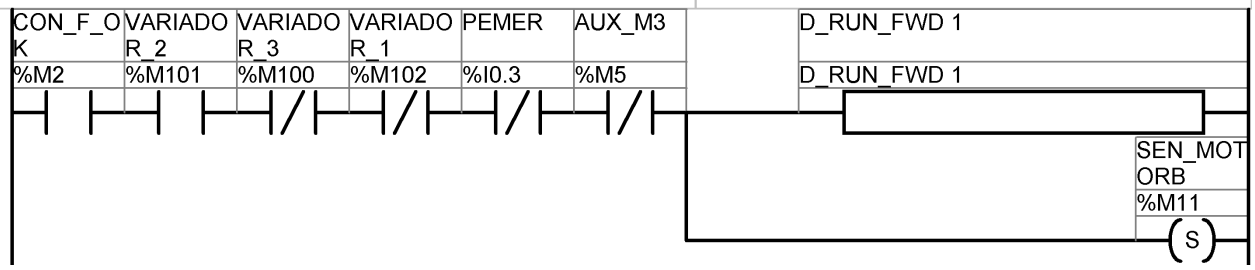
LECTURA VELOCIDAD

Rung 1



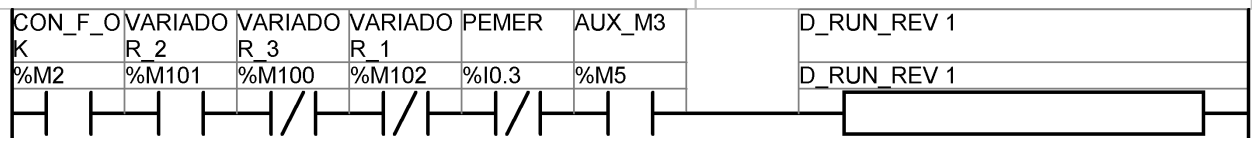
RUN FWD

Rung 2



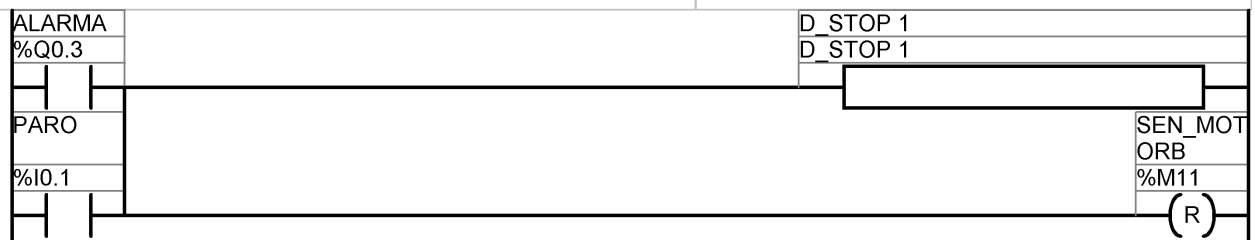
DESATASCAR REV

Rung 3

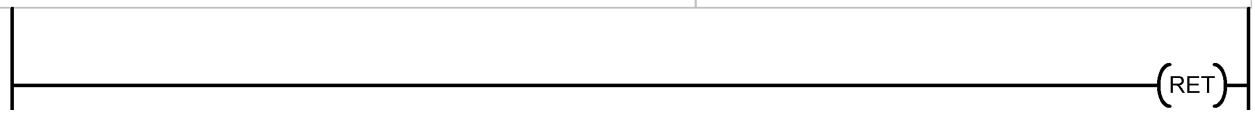


STOP

Rung 4



Rung 5

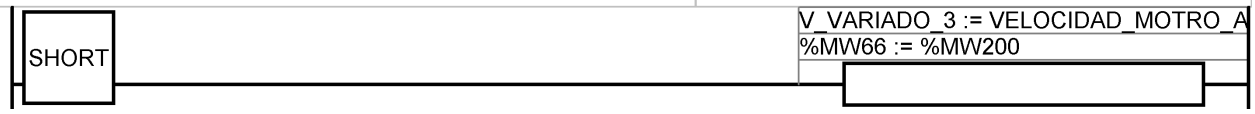


7 LD CONTROL VARIADOR MOTOR TRITURADO

SE INDICA LA VELOCIDAD

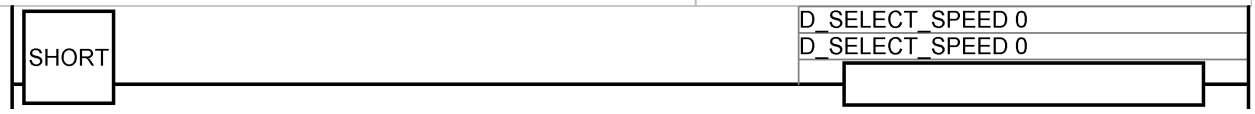
Rung 0

SR 2



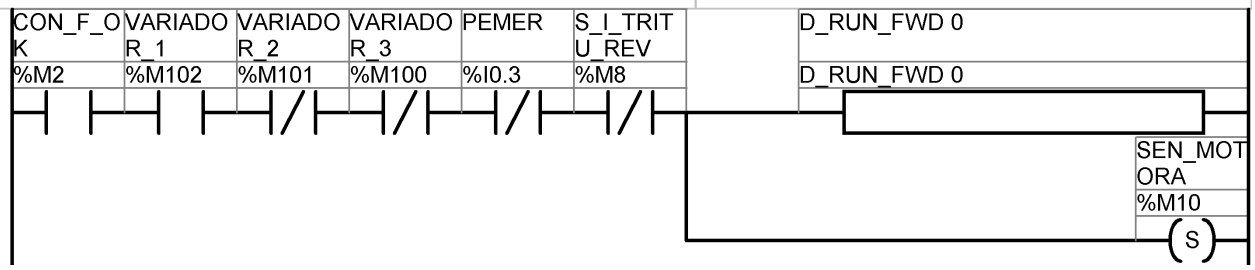
LECTURA VELOCIDAD

Rung 1



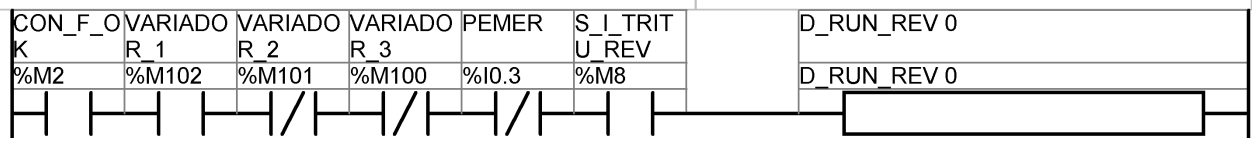
RUN FWD

Rung 2



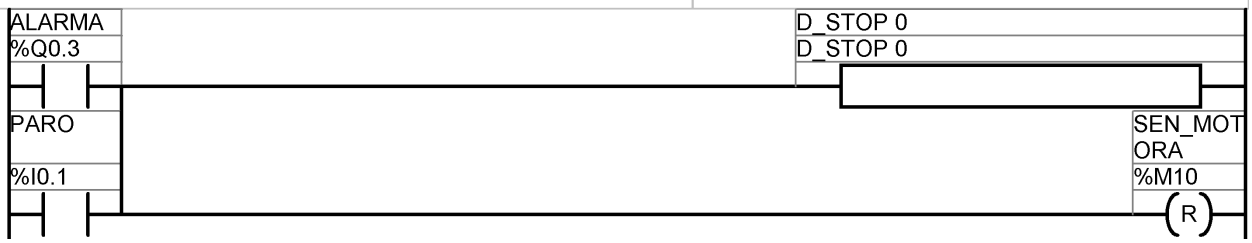
DESATASCAR REV

Rung 3

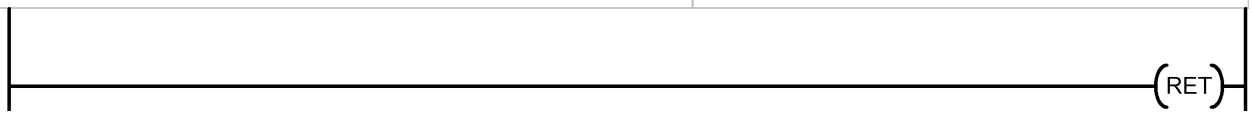


STOP

Rung 4



Rung 5



Symbols

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Yes	%M22	AUX_3	
Yes	%M13	AUX_4	
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Yes	%M5	AUX_M3	
Yes	%M6	AUX_M4	
Yes	%DR0	CONTROL_SUPERVISON__VARIADORES	
No	%C1	CONT_ATASCO_B	
Yes	%M2	CON_F_OK	
Yes	%I0.0	E1	
Yes	%Q0.4	ENCENDIDO	
Yes	%M1	ENCENDIDO_OK	
Yes	%IW1.0	INAV1	
Yes	%IW1.1	INAV2	
Yes	%I0.2	MARCHA	
Yes	%Q0.0	MOTORA	
Yes	%Q0.1	MOTORB	
Yes	%Q0.2	MOTORC	
Yes	%I0.1	PARO	
Yes	%C0	PASO_DE_PANTALLA	
Yes	%I0.3	PEMER	
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Yes	%M103	RESET	
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Yes	%I0.5	SC1	
Yes	%I0.6	SC2	
Yes	%I0.7	SC3	
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Yes	%M11	SEN_MOTORB	
Yes	%M12	SEN_MOTORC	
Yes	%M3	S_I_MOLIDO	
Yes	%M7	S_I_MOLID_REV	
Yes	%M4	S_I_TRITURADO	
Yes	%M8	S_I_TRITU_REV	
Yes	%M102	VARIADOR_1	
Yes	%M101	VARIADOR_2	
Yes	%M100	VARIADOR_3	
Yes	%MW201	VELOCIDAD_MOTOR_B	
Yes	%MW200	VELOCIDAD_MOTRO_A	
Yes	%MW202	VELOCIDAD_MOTRO_C	
Yes	%MW4	V_VARIADOR_1	
Yes	%MW35	V_VARIADOR_2	
Yes	%MW66	V_VARIADO_3	