

Totally Integrated Automation Portal

Program blocks

Main [OB1]

Main Properties

General

Name	Main	Number	1	Type	OB	Language	LAD
Numbering	Automatic						

Information

Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

Network 1:

Program blocks

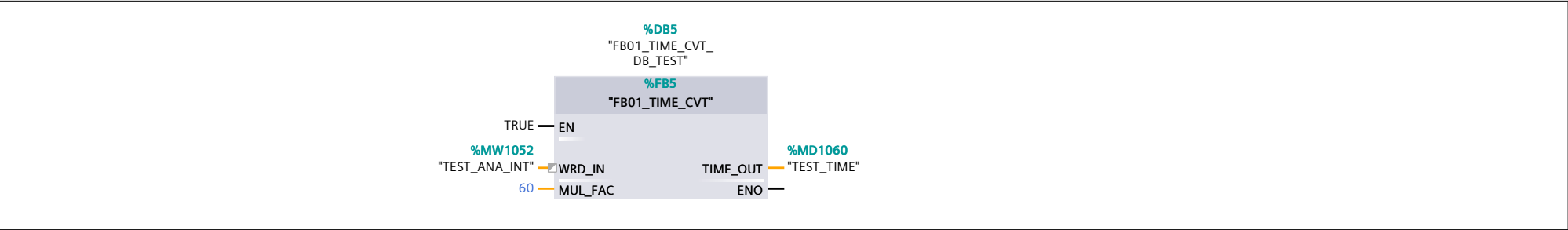
Dig_Convert [OB123]

Dig_Convert Properties

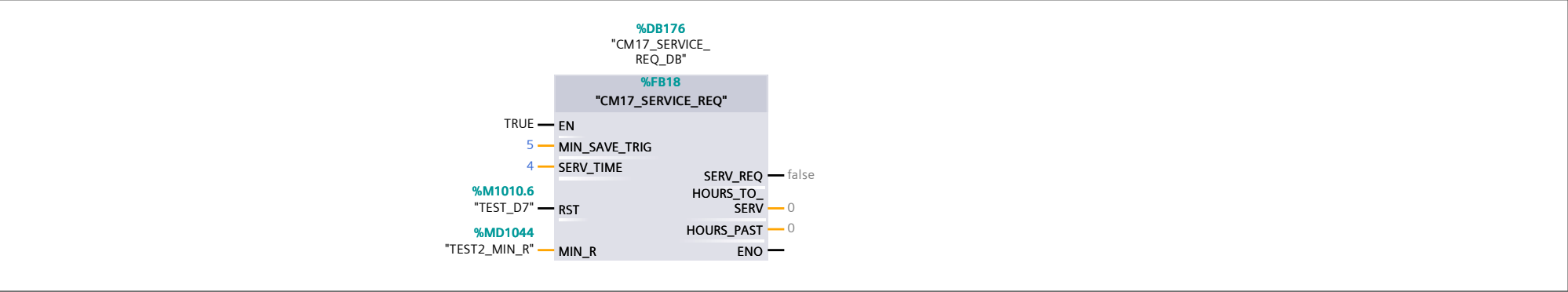
General							
Name	Dig_Convert	Number	123	Type	OB	Language	FBD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

Network 1:



Network 2:



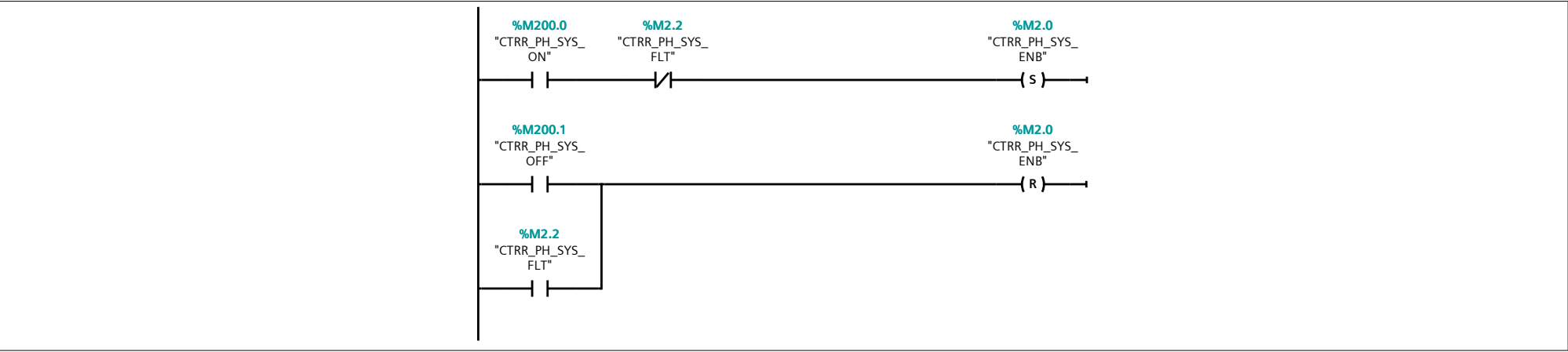
Program blocks

DEWATERING_CONTROL [OB124]

DEWATERING_CONTROL Properties							
General							
Name	DEWATERING_CONTROL	Number	124	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					
Name		Data type	Default value		Comment		
▼ Input							
Initial_Call		Bool			Initial call of this OB		
Remanence		Bool			=True, if remanent data are available		
▼ Temp							
CTRR_DD_VF_01_TIME_D_OP_T		Time					
CTRR_PH_PP_12_TIME_STT_SKIP_T		Time					
Constant							

Network 1:

Dewatering System Control



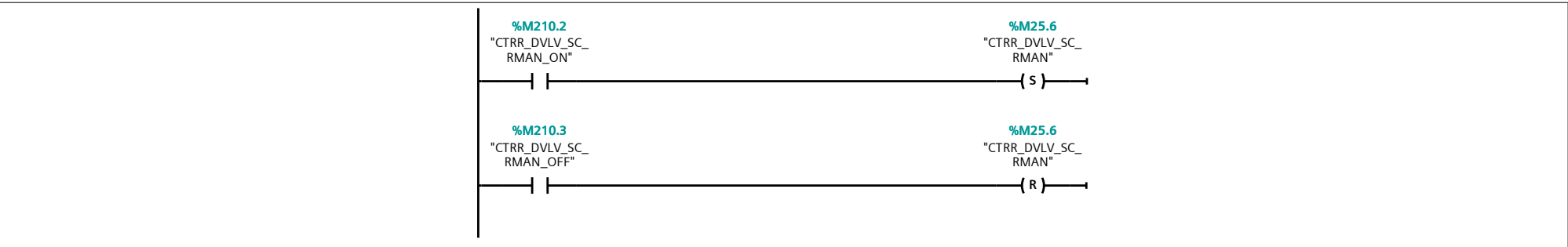
Network 2:

Dewatering System Remote Manual



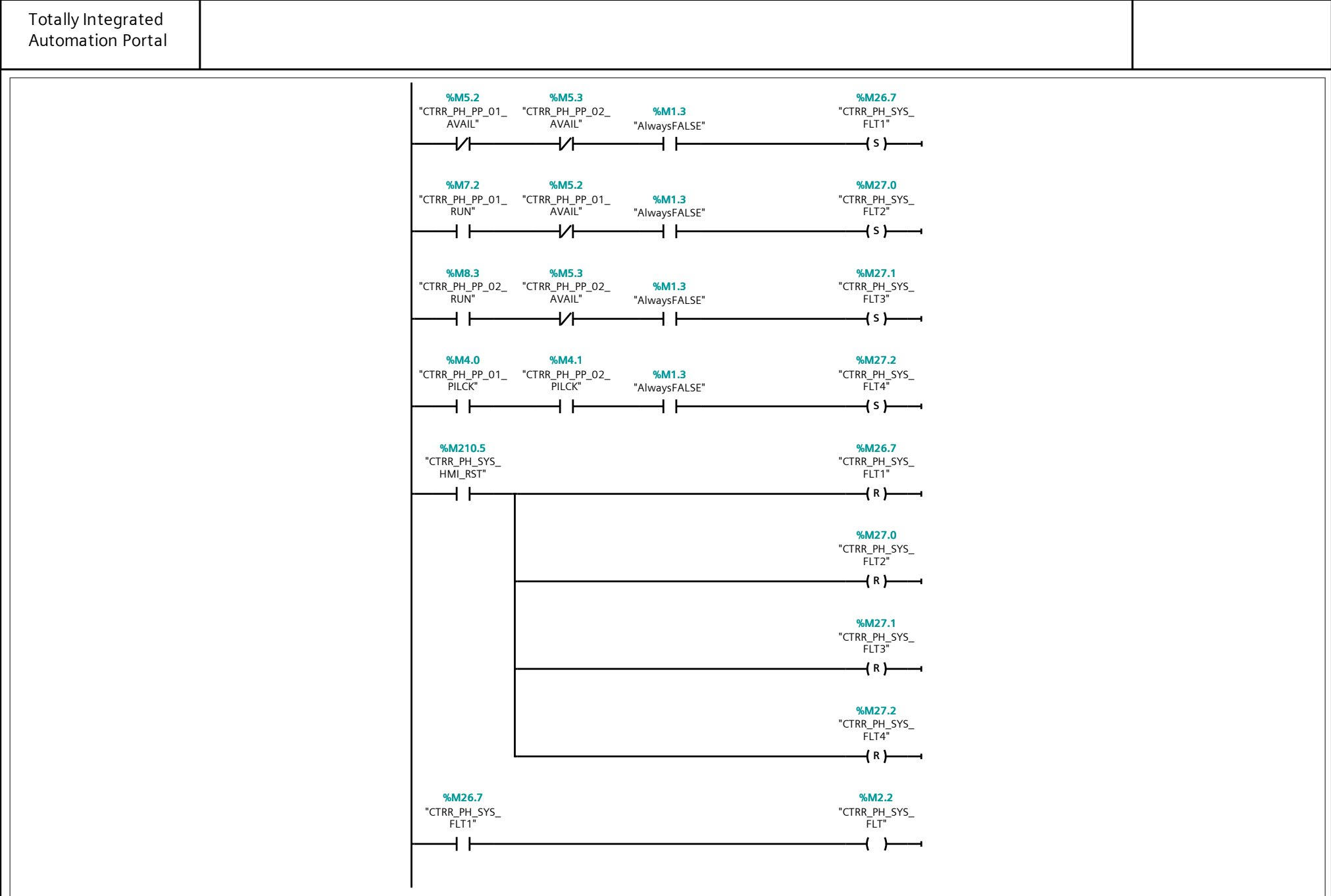
Network 3:

Dewatering Valves Remote Manual



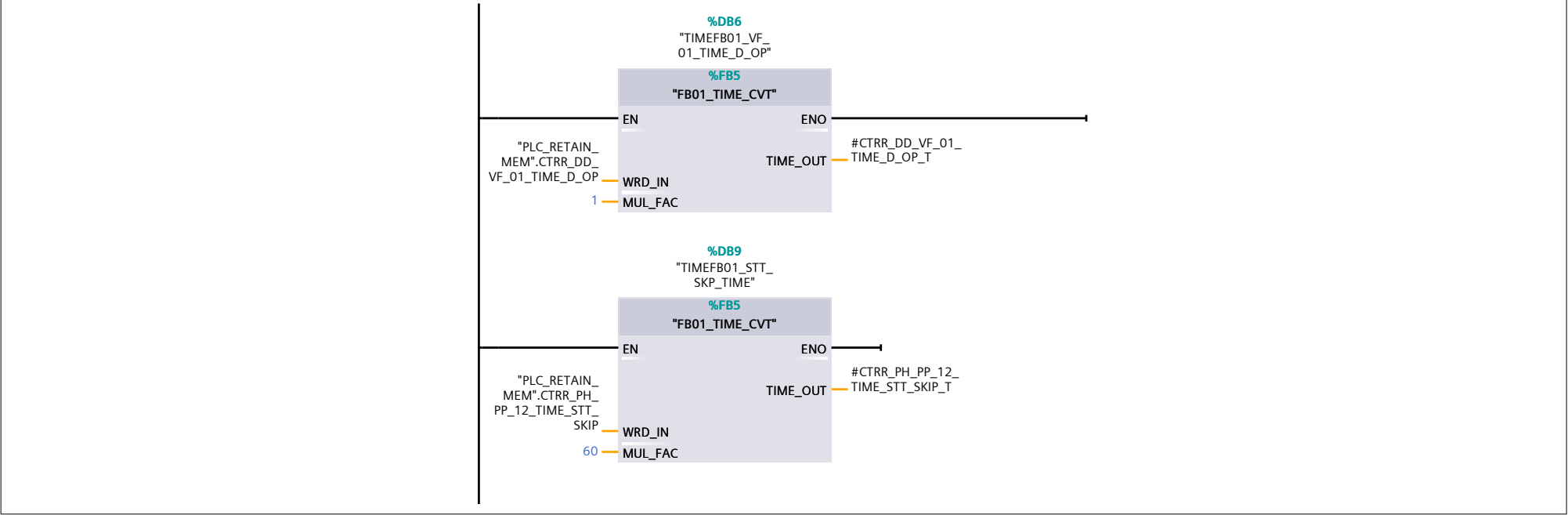
Network 4:

Dewatering System Fault



Network 5:

Dewatering Penstock Open Delay



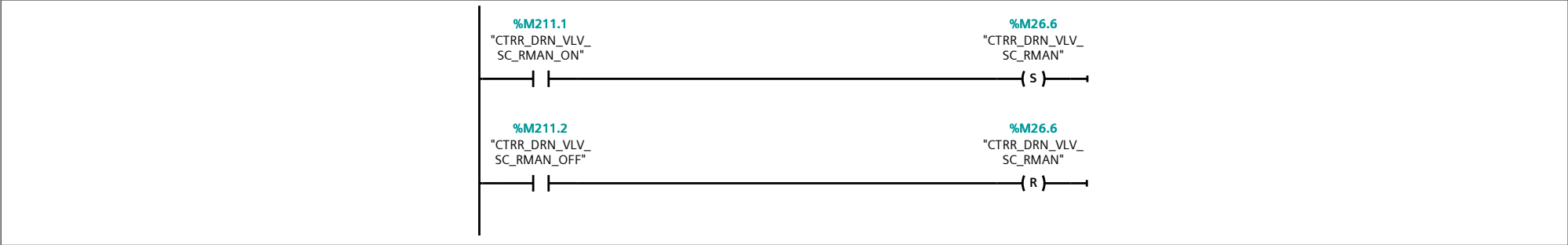
Network 6:

Drainage System Remote Manual



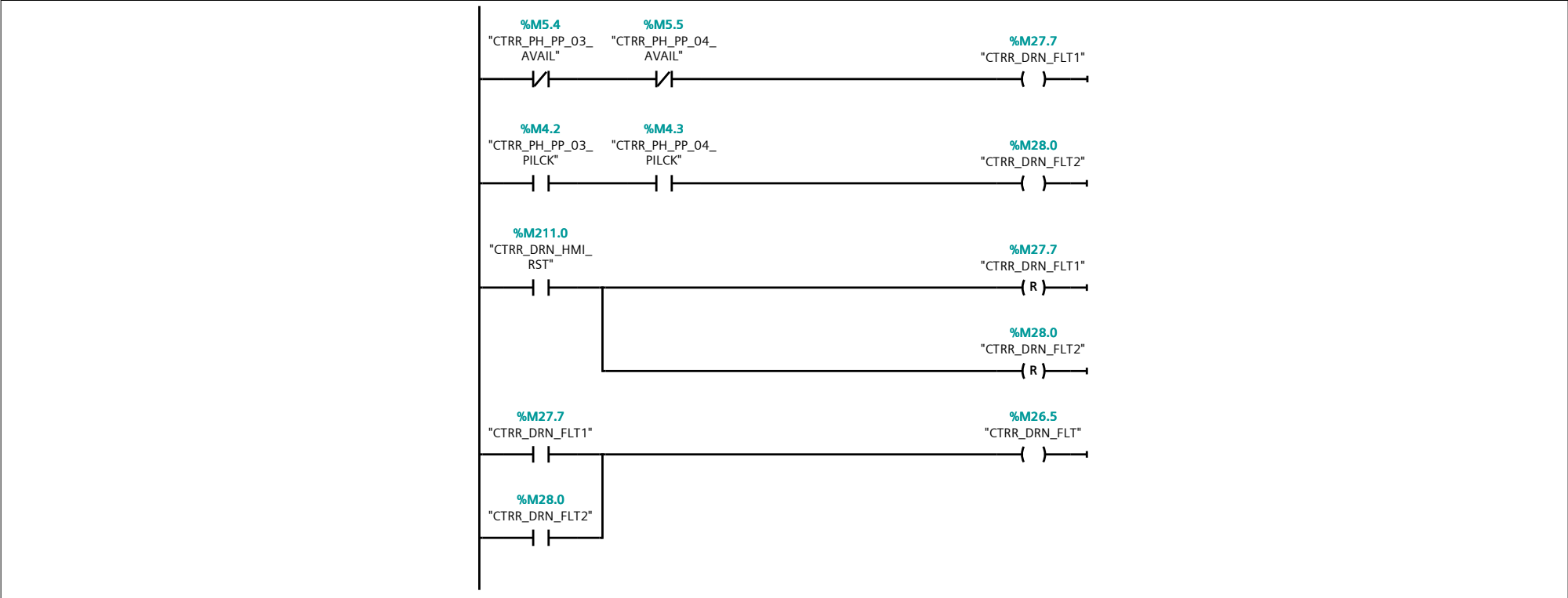
Network 7:

Drainage Pump Valves Remote Manual



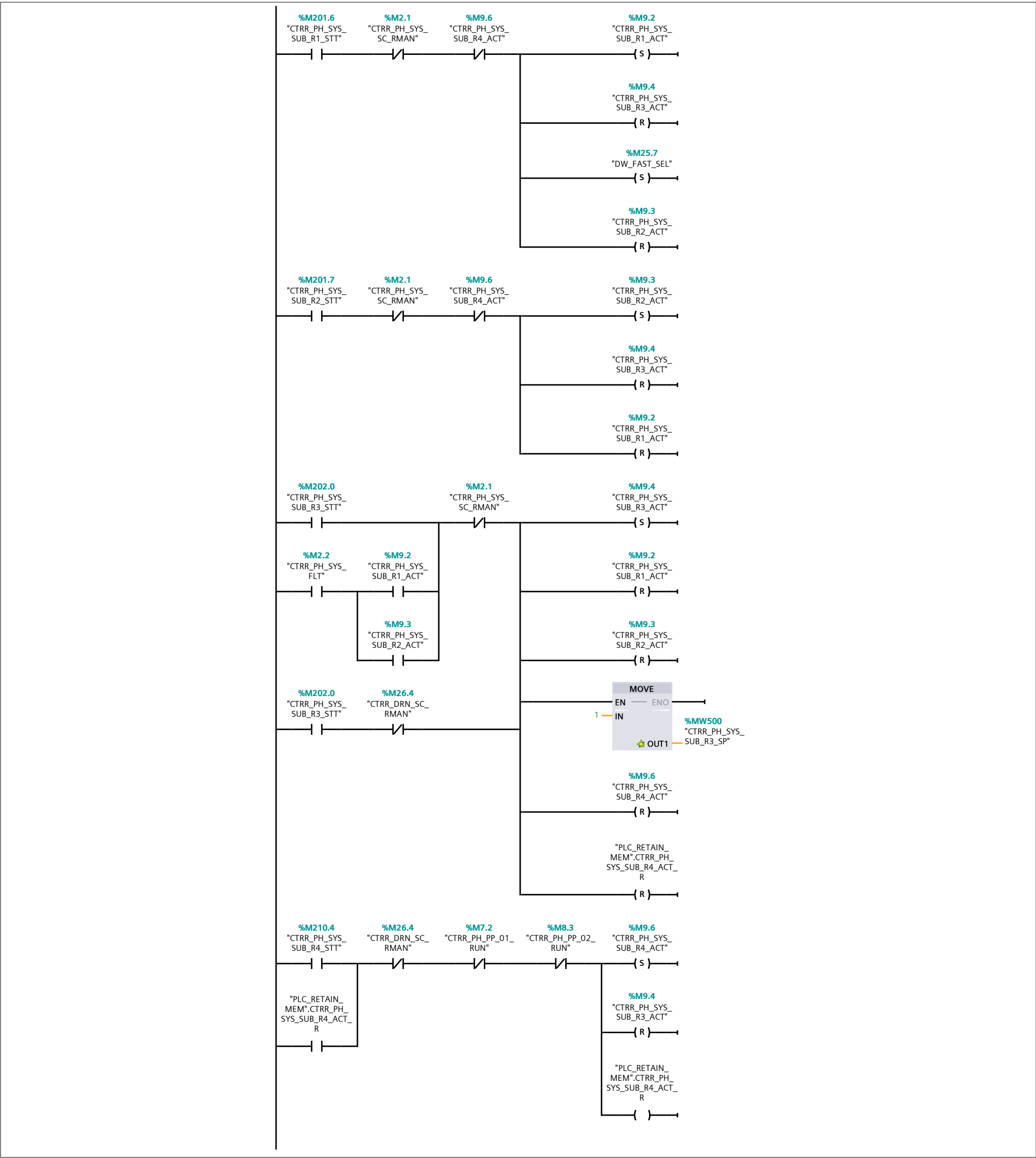
Network 8:

Drainage System Fault



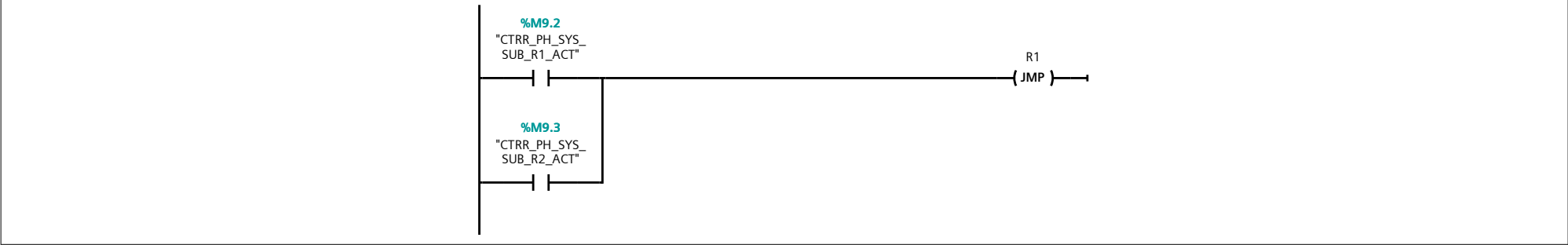
Network 9:

Start buttons from HMI To start routine



Network 10:

Do Main pump start routine R1/R2



Network 11:



Network 12:

Do Drainage pump start routine R4

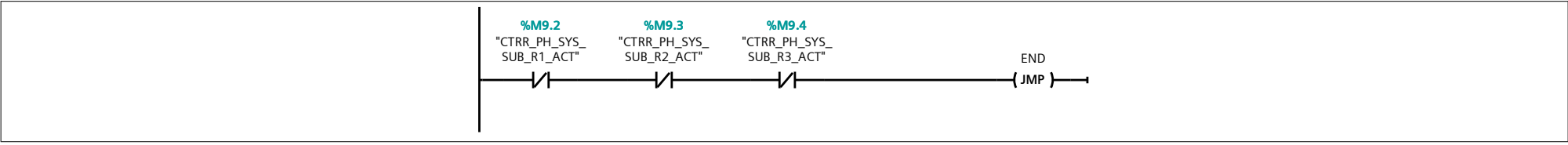


Network 13:



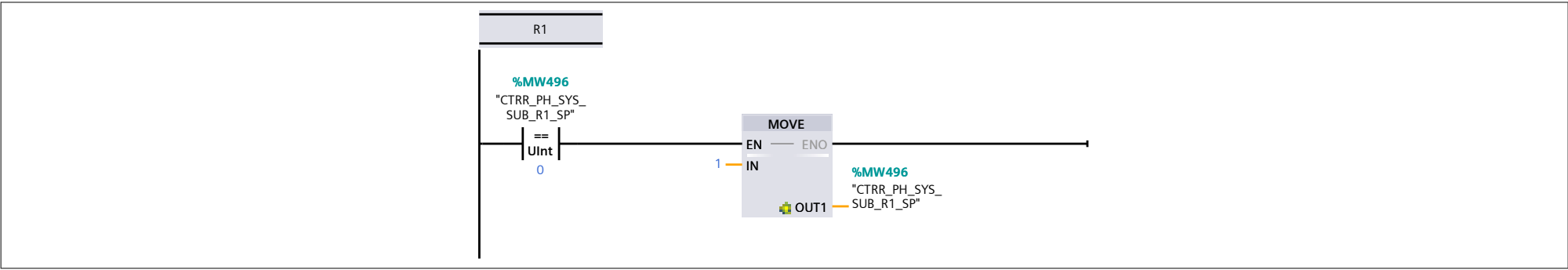
Network 14:

System is waiting for routine to start



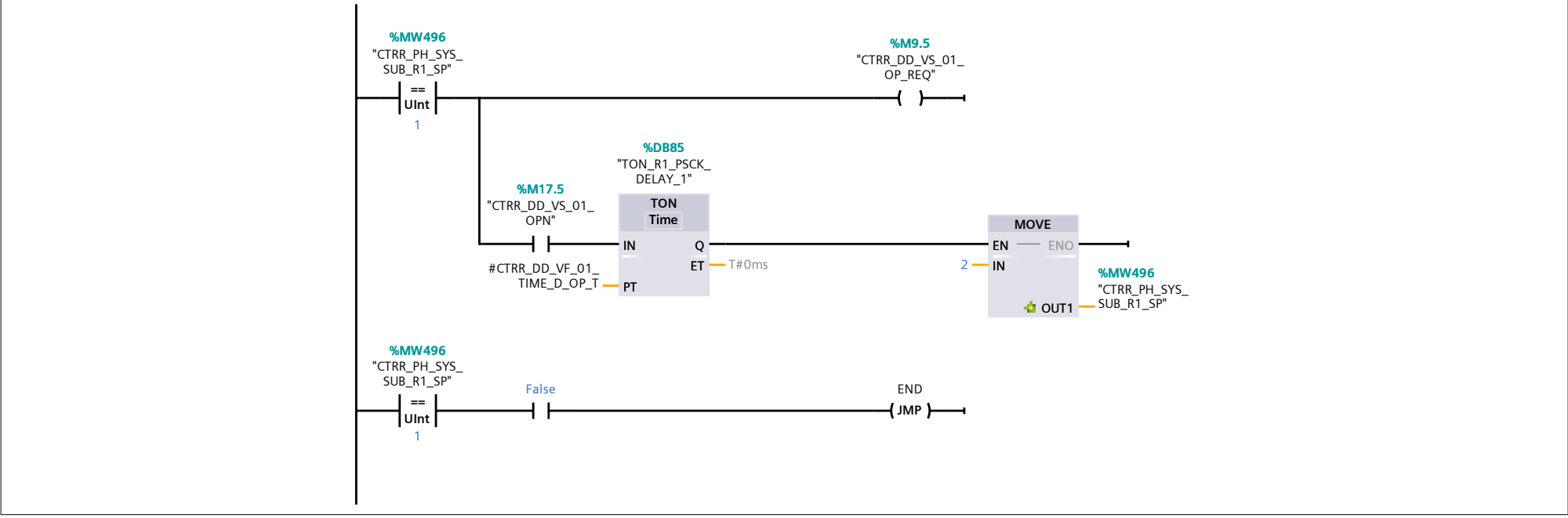
Network 15:

Dewatering Fast Routine - Step 0 Start



Network 16:

Dewatering Fast Routine Step 1 Open Drainage Penstock and wait for delay



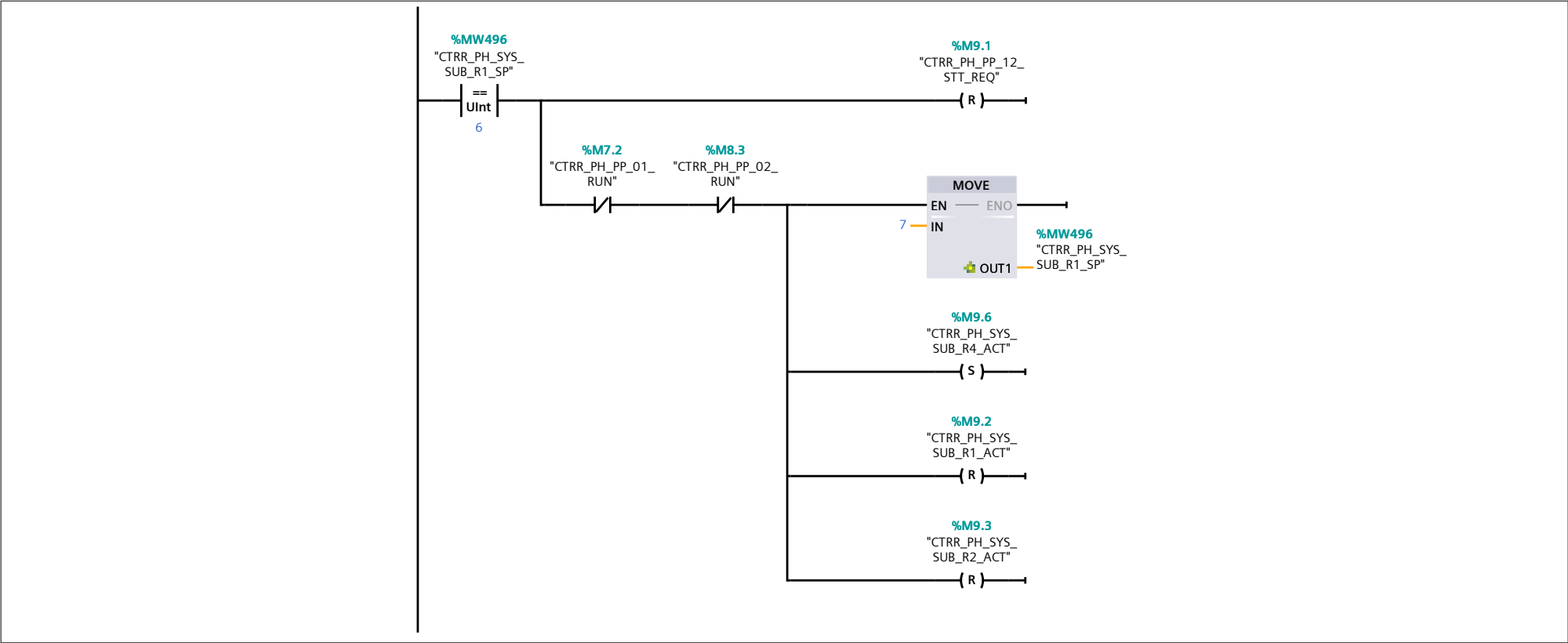
Network 17:

SR1 Main pump Duty select

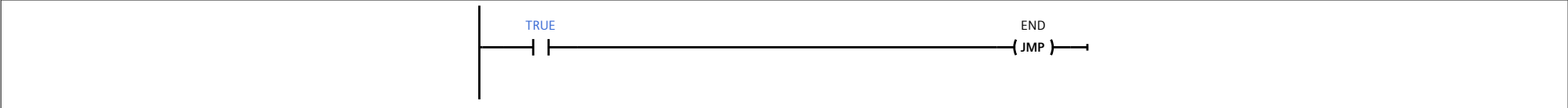


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Network 18: Sub routine 1 - Duty Select Current Duty = 0 Pump 1 , 1 Pump 2		

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Network 18: (2.1 / 2.1)		
1.1 (Page3 - 7)		
2 IN %MW496 "CTRR_PH_SYS_ SUB_R1_SP" OUT1		

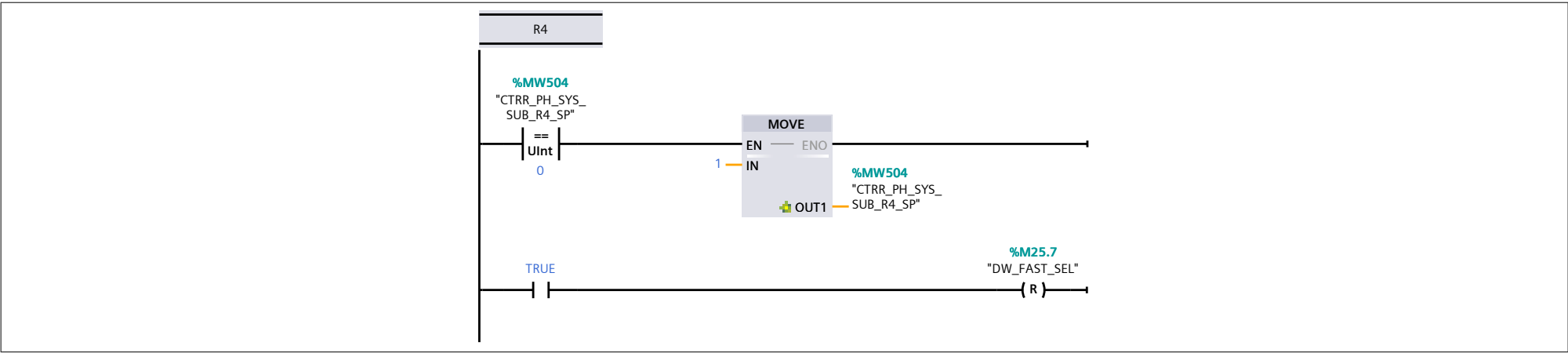


Network 23:



Network 24:

Drainage Pump Routine



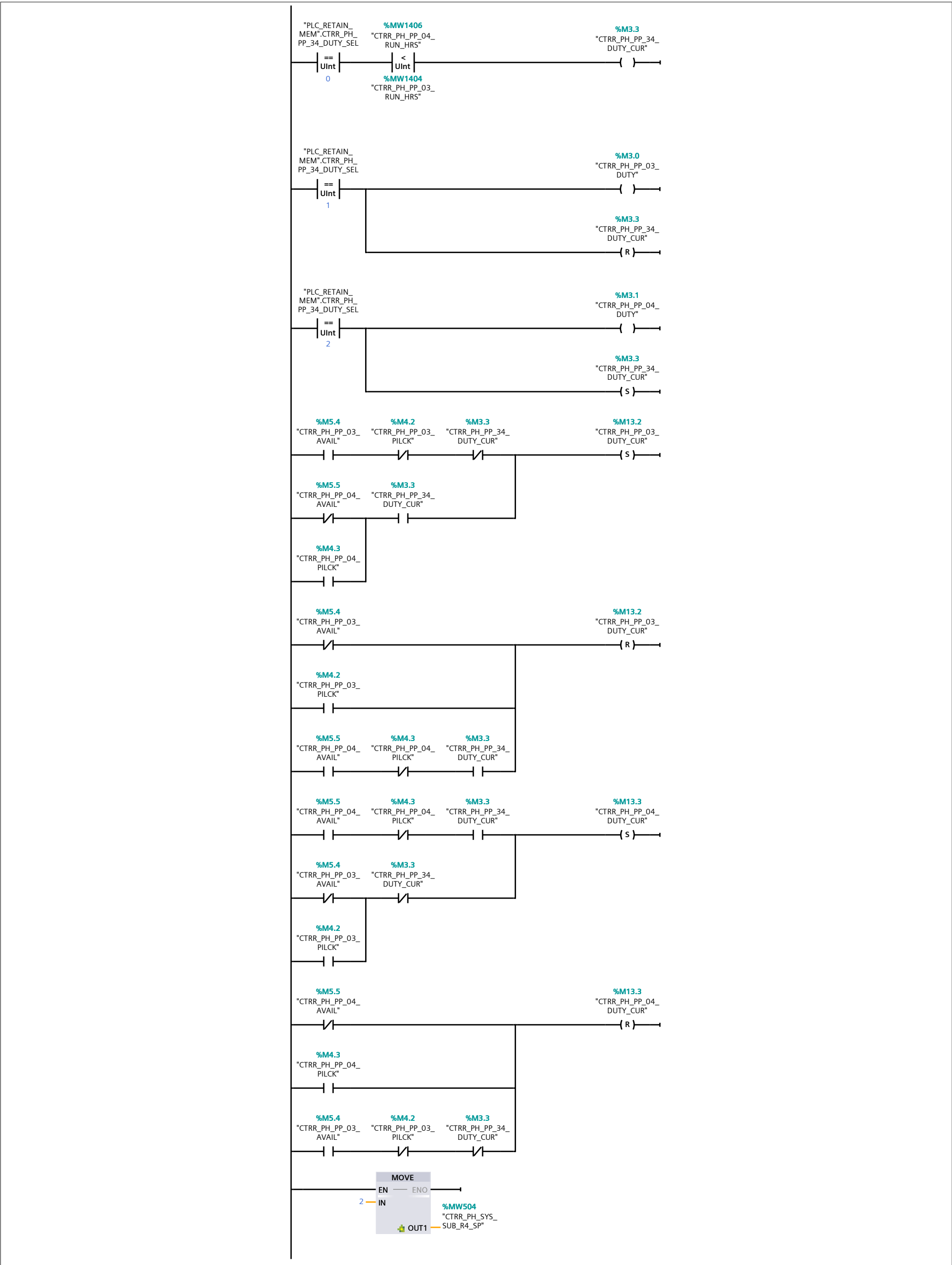
Network 25:

SR2 Drainage pump Duty select

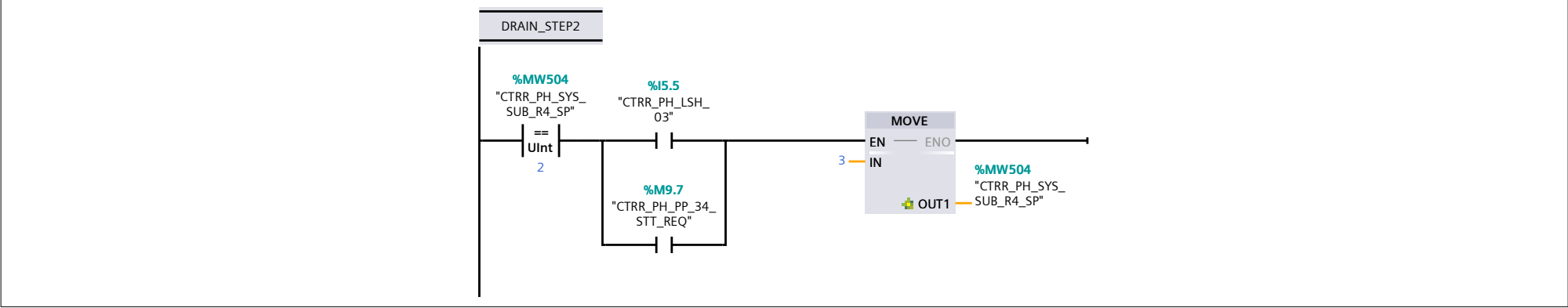


Network 26:

Sub routine 2 - Duty Select
Current Duty = 0 Pump 1 , 1 Pump 2

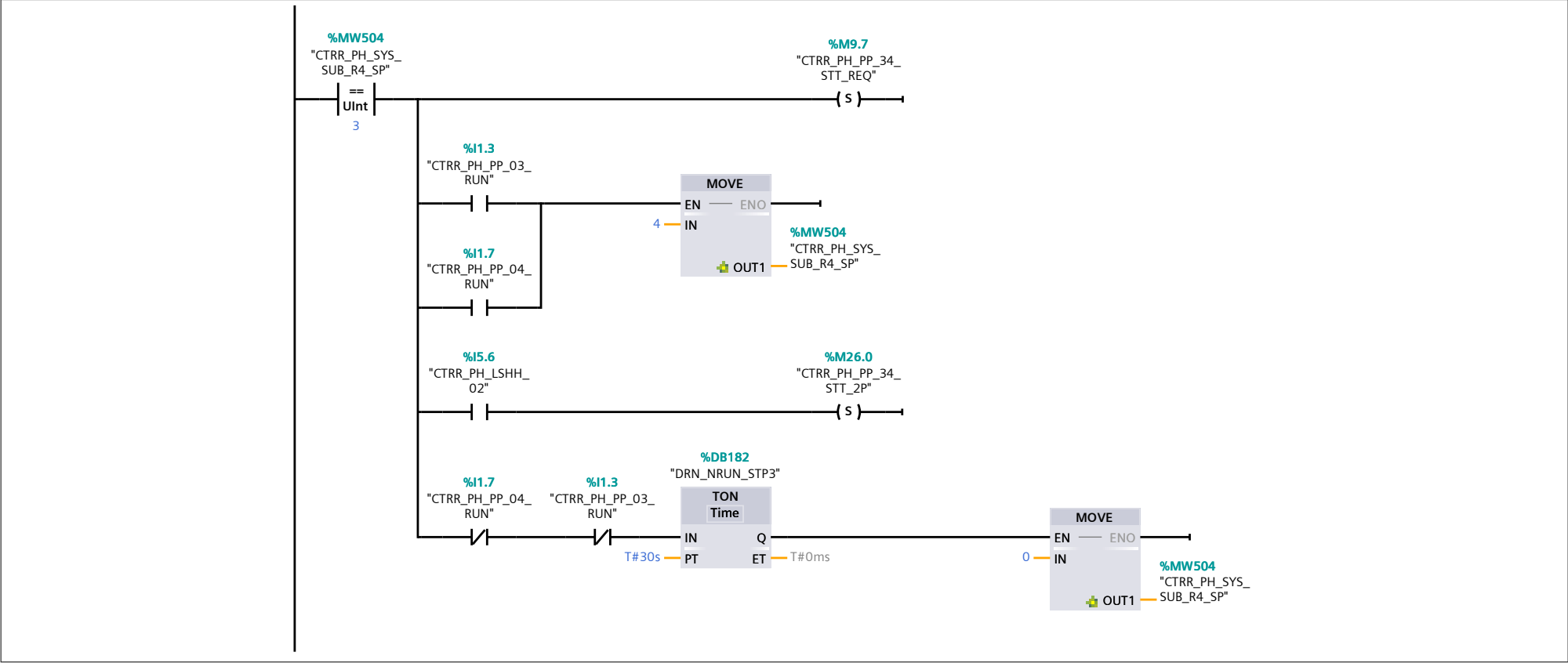


Drainage routine Step 2: Wait for Start Float



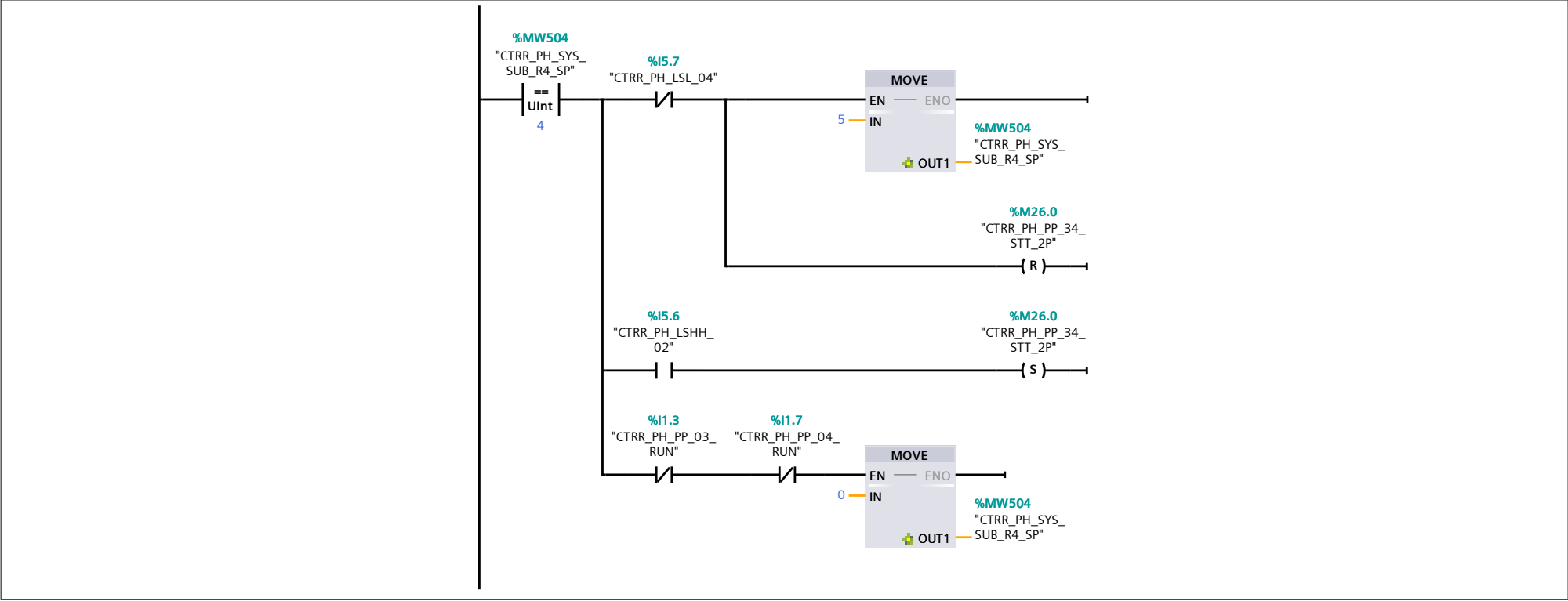
Network 28:

Drainage Step 3 Start pump



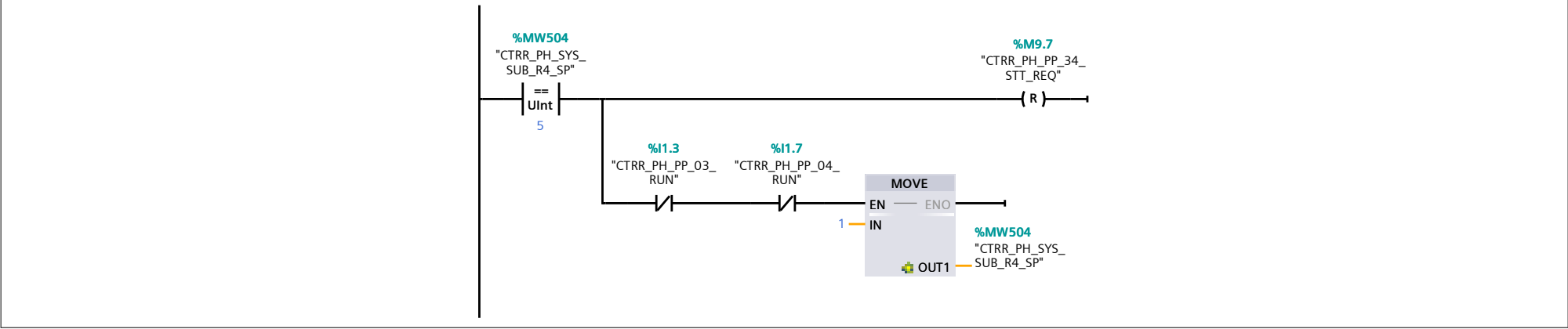
Network 29:

Drainage routine Step 4: Wait for Stop Float



Network 30:

Drainage routine Step 5: Stop Pumps

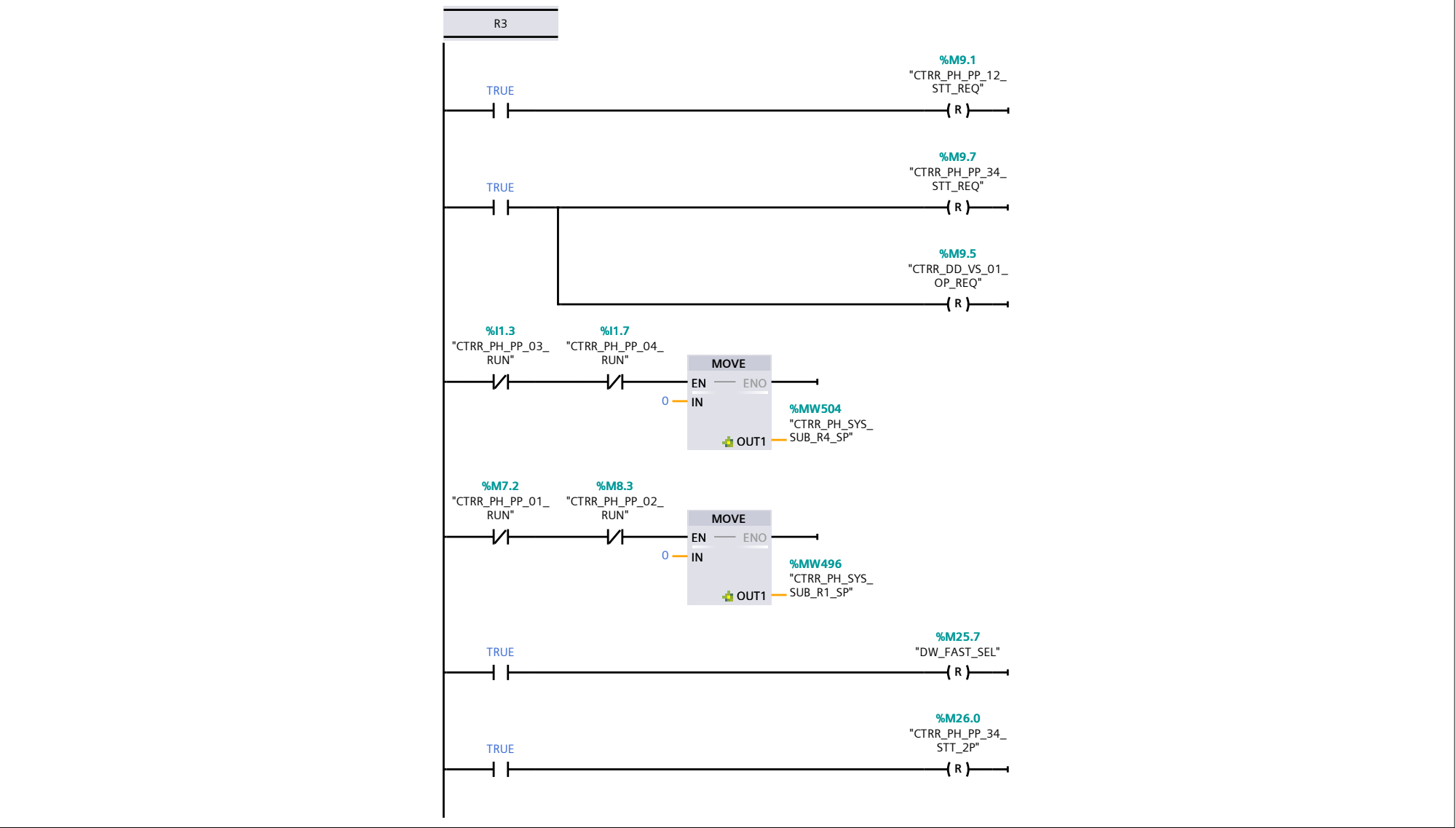


Network 31:



Network 32:

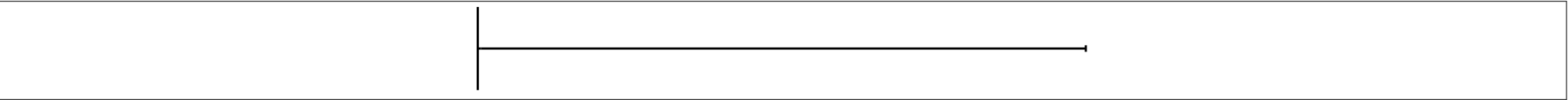
Dewatering Stop Routine



Network 34:



Network 35:

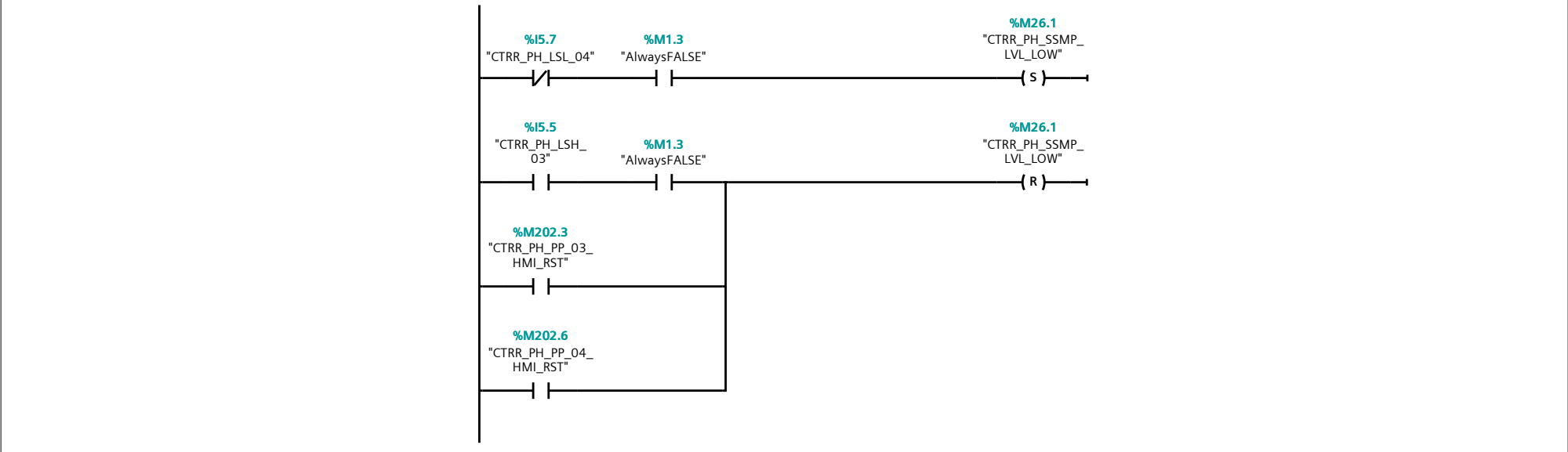


Network 36:



Network 37:

Low Level Latch



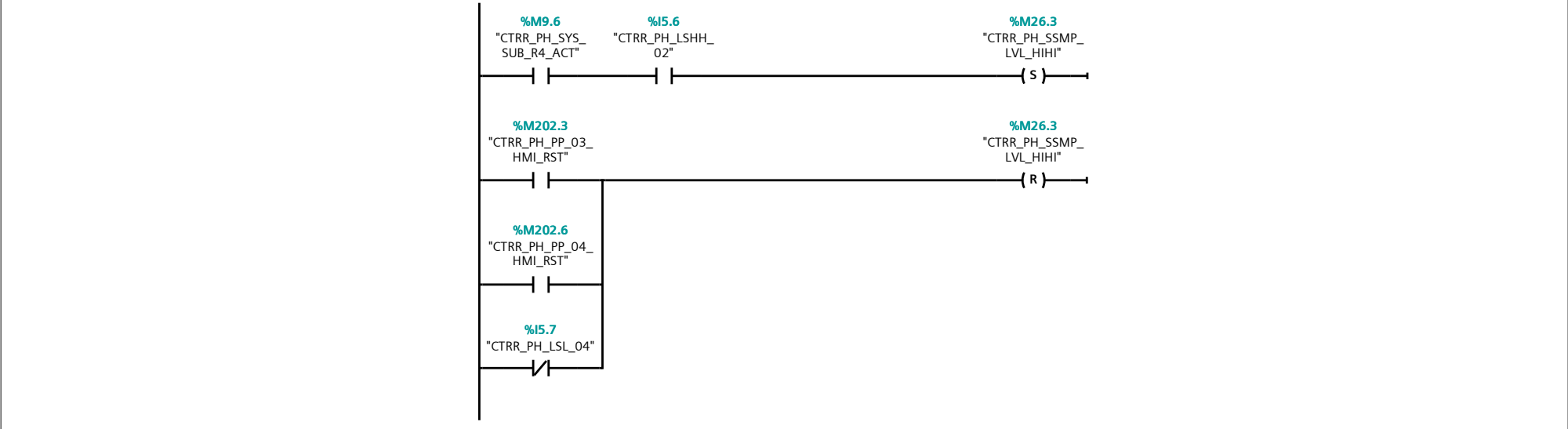
Network 38:

High Level Latch



Network 39:

High High Latch



Totally Integrated Automation Portal

Program blocks

MAIN_PUMP_CNTRL [OB125]

MAIN_PUMP_CNTRL Properties

General

Name	MAIN_PUMP_CNTRL	Number	125	Type	OB	Language	LAD
Numbering	Automatic						

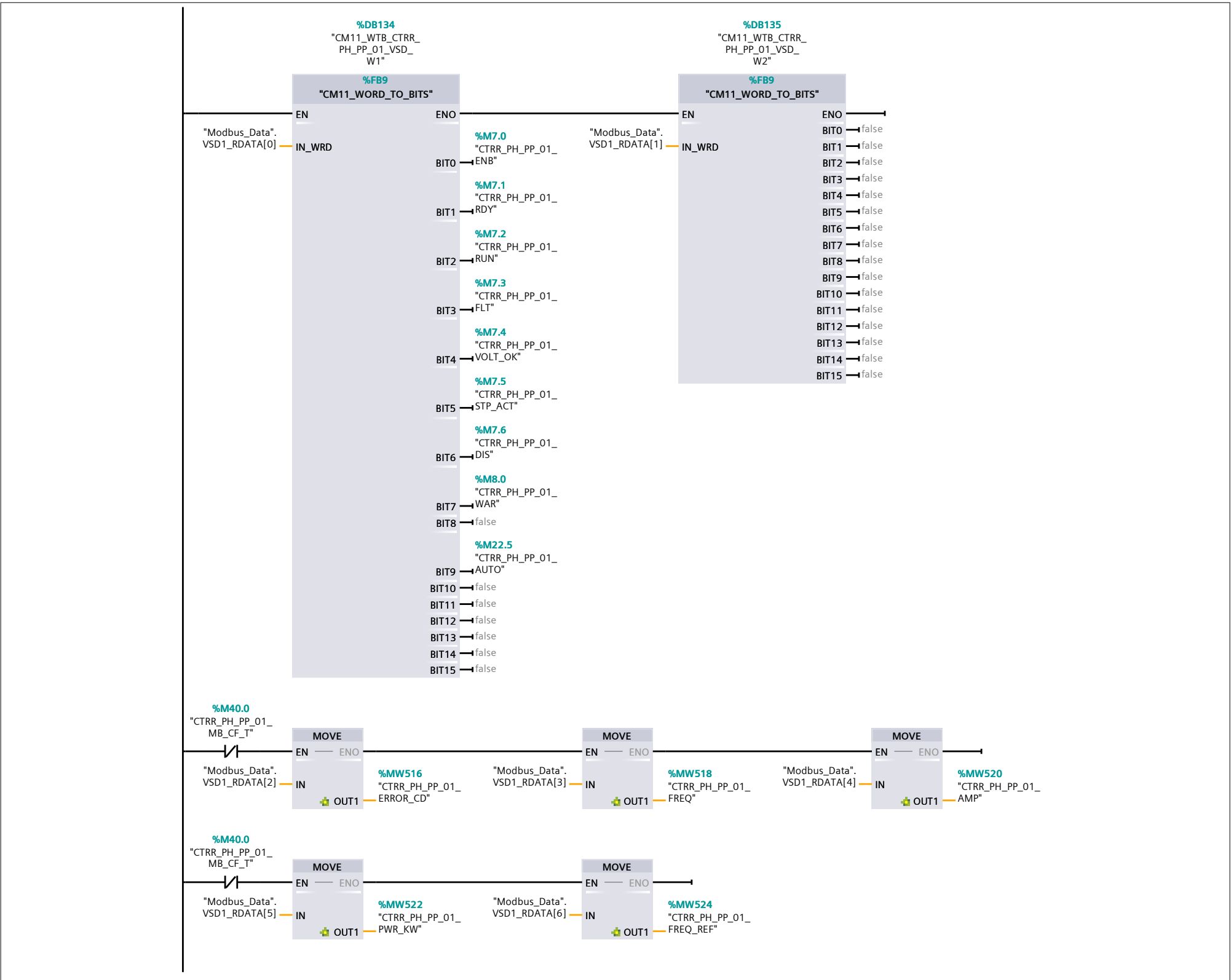
Information

Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
▼ Temp			
CTRR_PH_PP_01_SC_STP_T	Bool		
CTRR_PH_PP_01_SC_STT_T	Bool		
CTRR_PH_PP_02_SC_STT_T	Bool		
CTRR_PH_PP_02_SC_STP_T	Bool		
CTRR_PH_PP_12_TIME_D_VLV_OP_T	Time		
CTRR_PH_AES_03_TEMP	Bool		
RealTemp	Real		
▼ Constant			
MTR_BR_FTEMP	UInt	60	
MTR_WD_FTEMP	UInt	90	
PMP_FVIB	UInt	250	
NF_TIME	Time	T#60s	
FLT_TIME	Time	T#30s	
VIB_TIME	Time	T#10s	

Network 1:

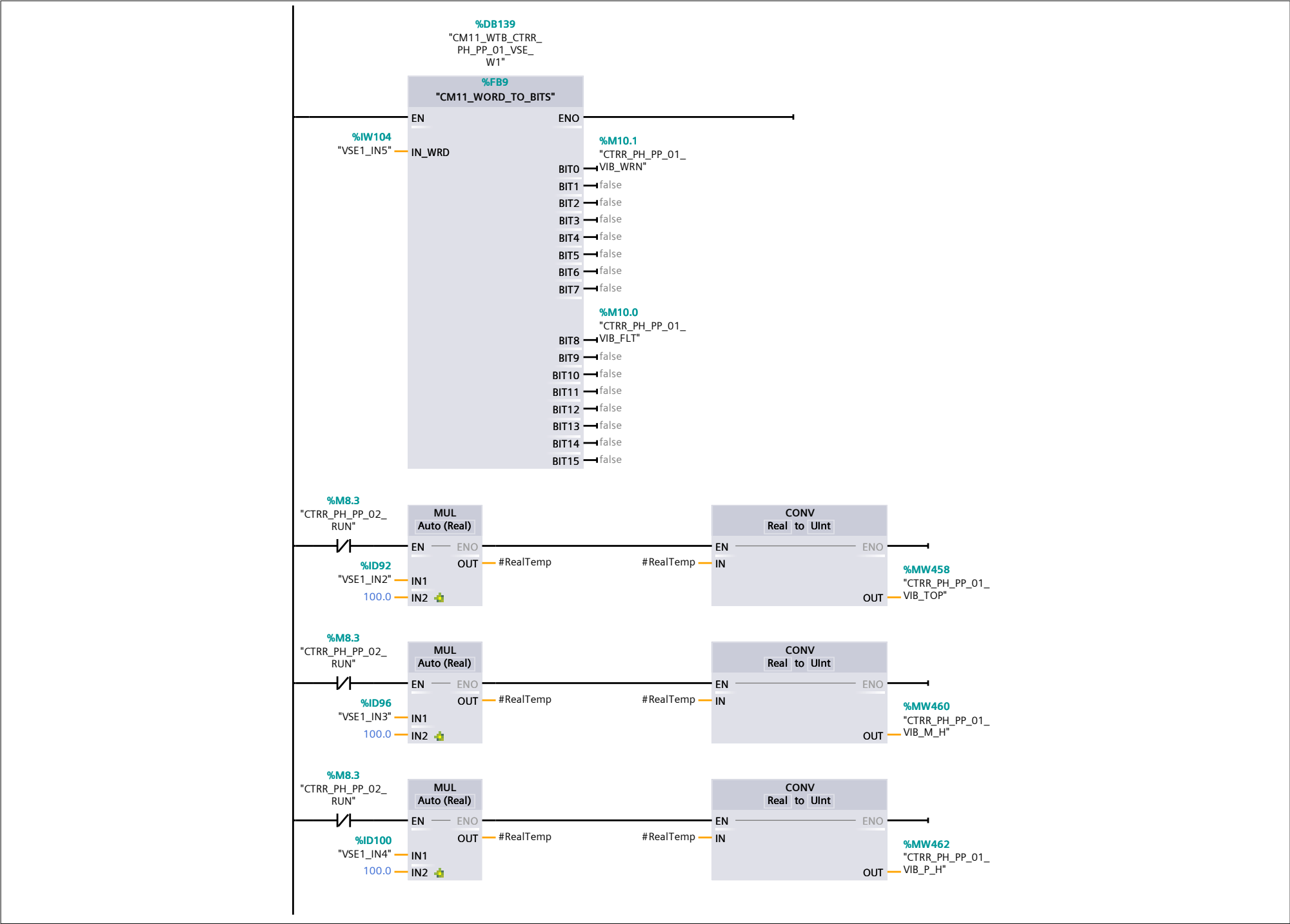
Main Pump 1 VSD Data Digitals



Network 2:

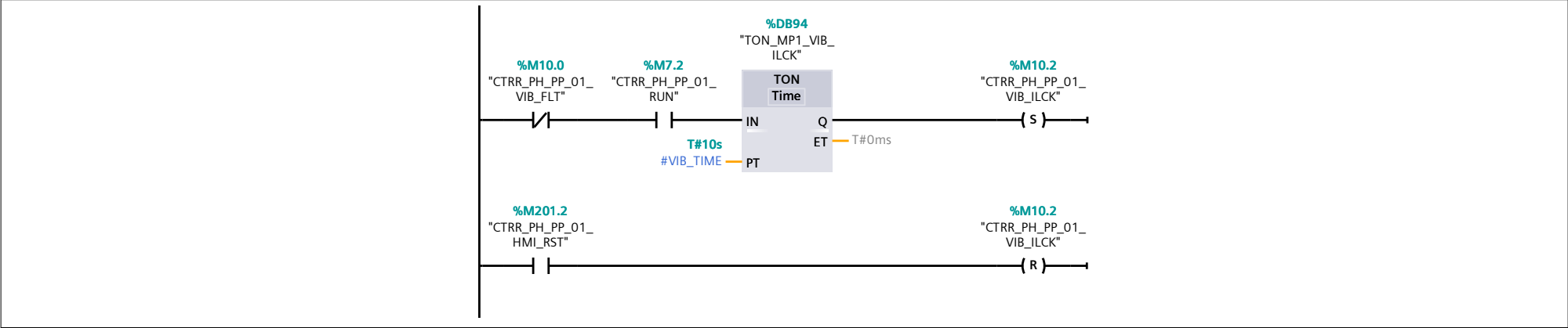
Main Pump 1 VSE Data

Main Pump 1 VSE Data



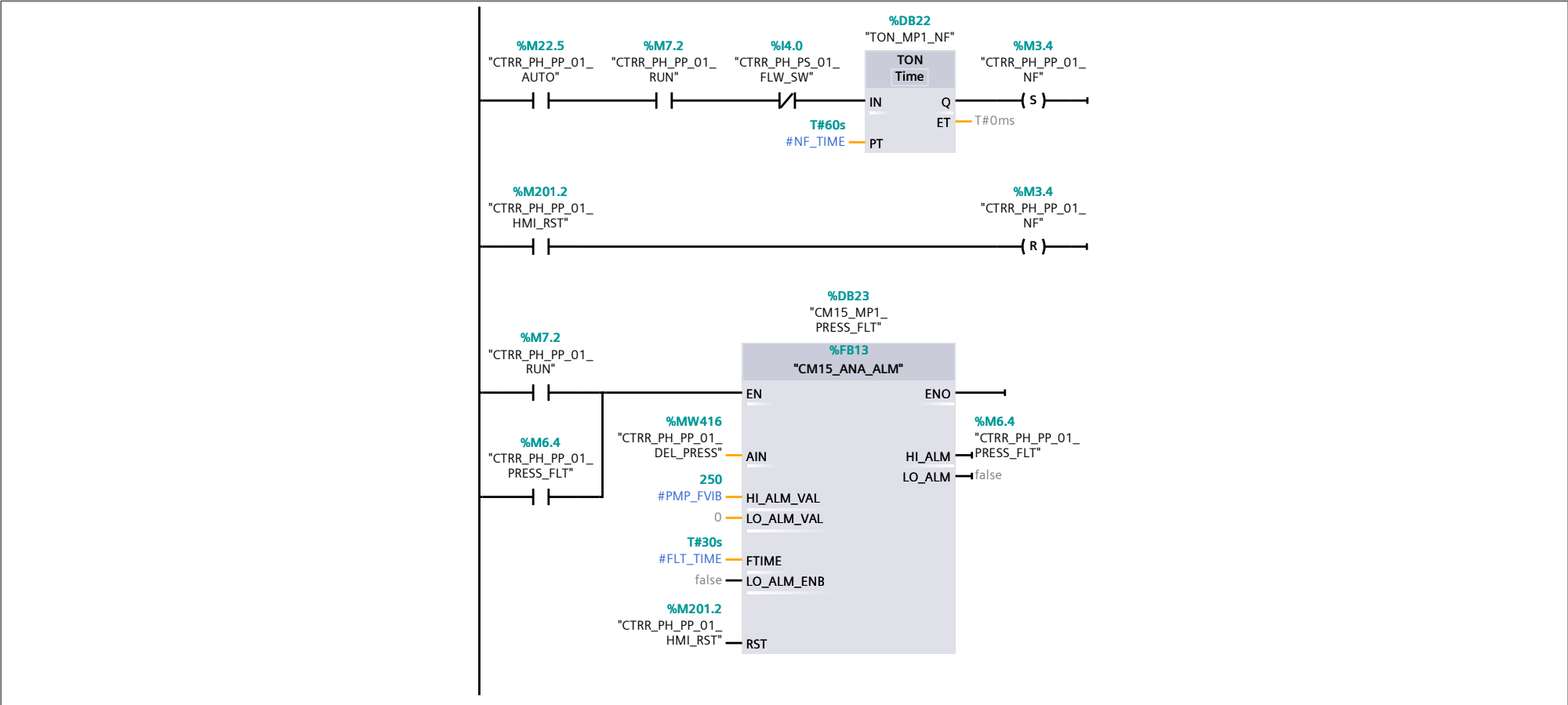
Network 3:

Mian Pump 1 Vibration Interlocks



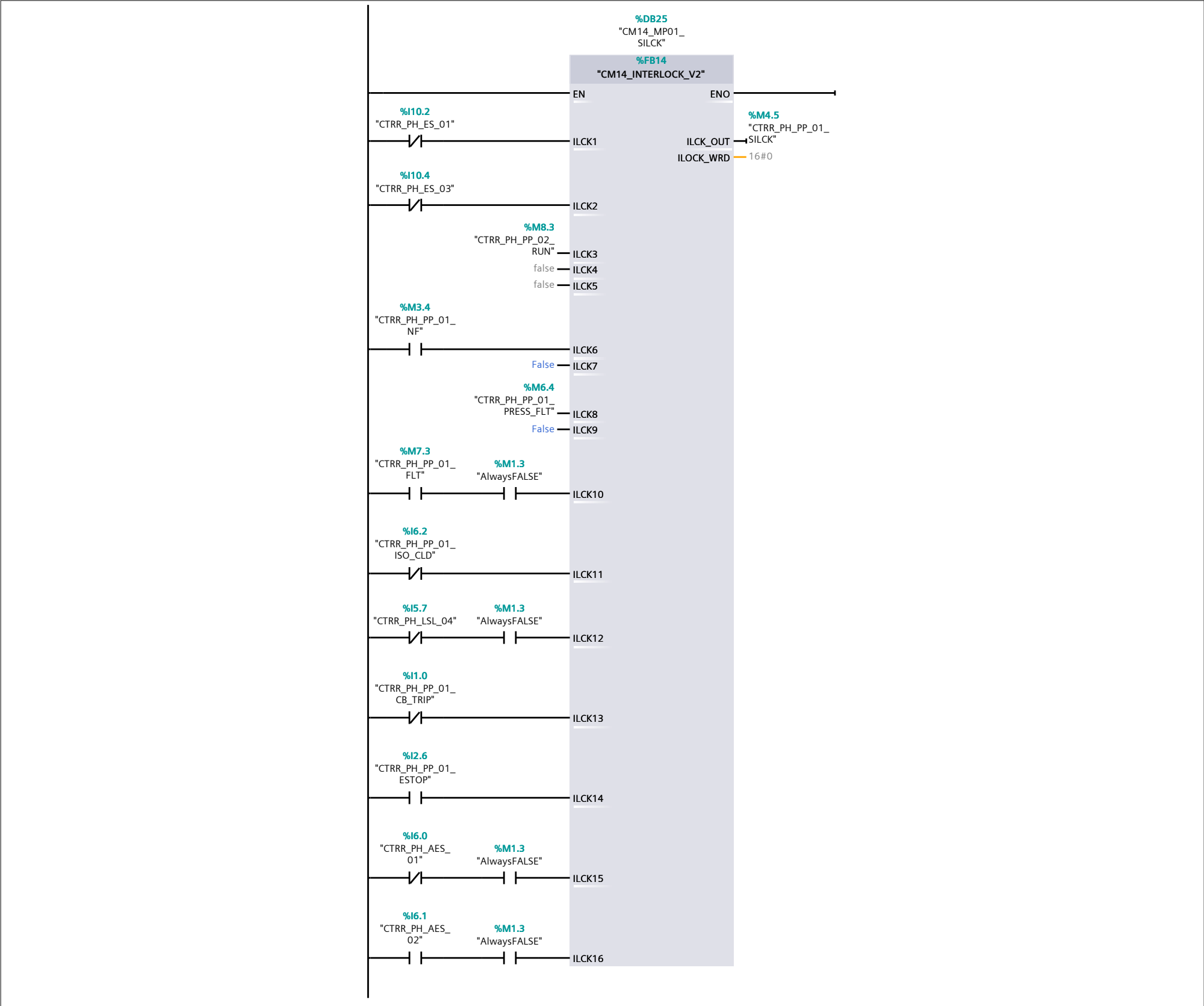
Network 4:

Mian Pump 1 No Flow and Overpressure Interlocks



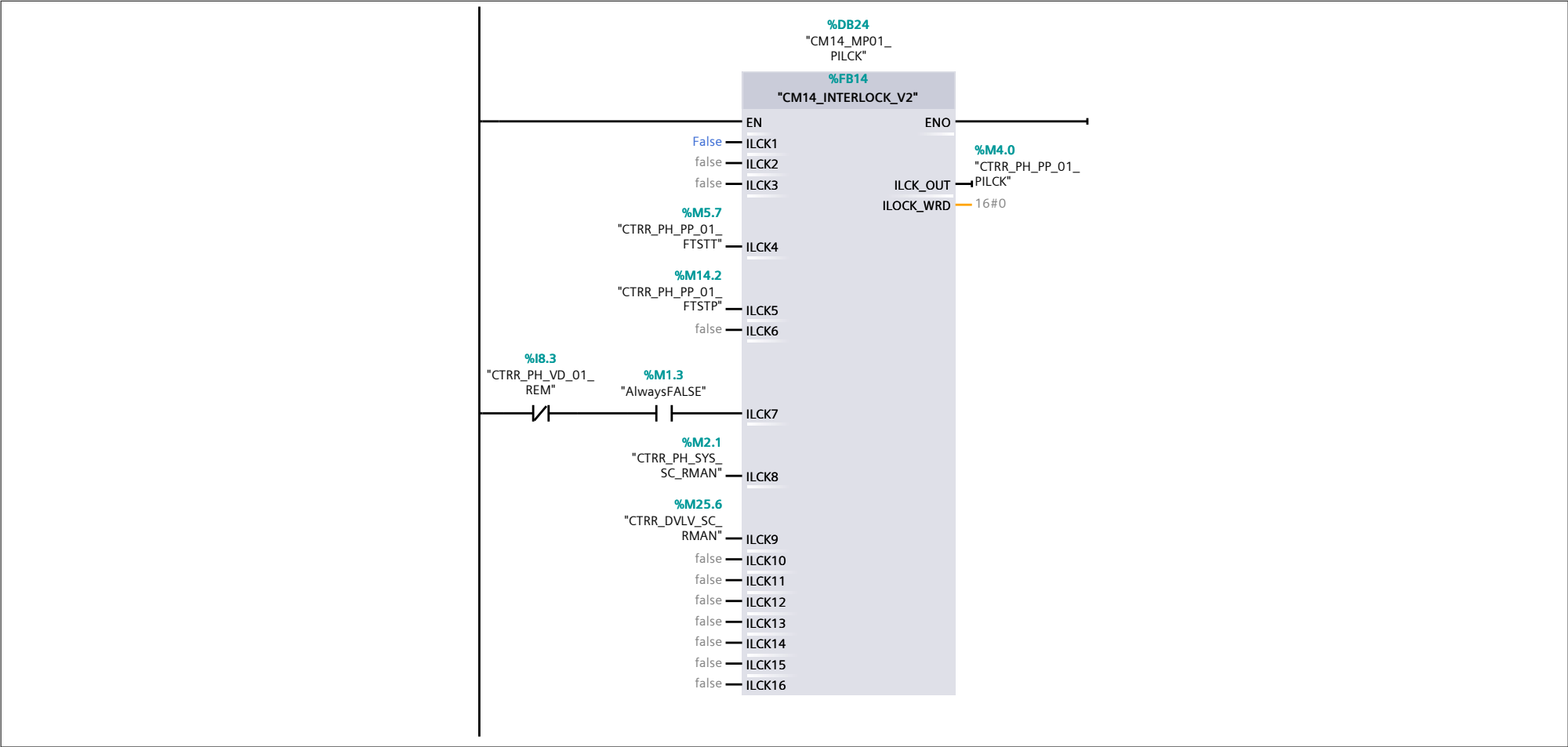
Network 5:

Main Pump 1 Safety Interlocks



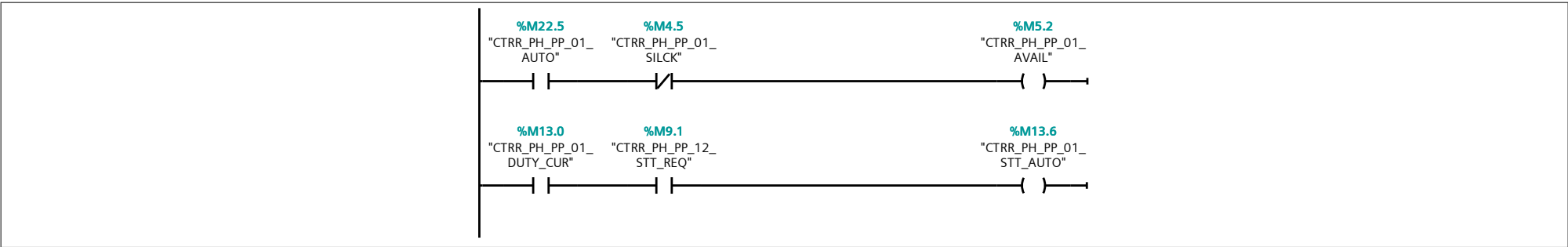
Network 6:

Main Pump 1 Process Interlocks

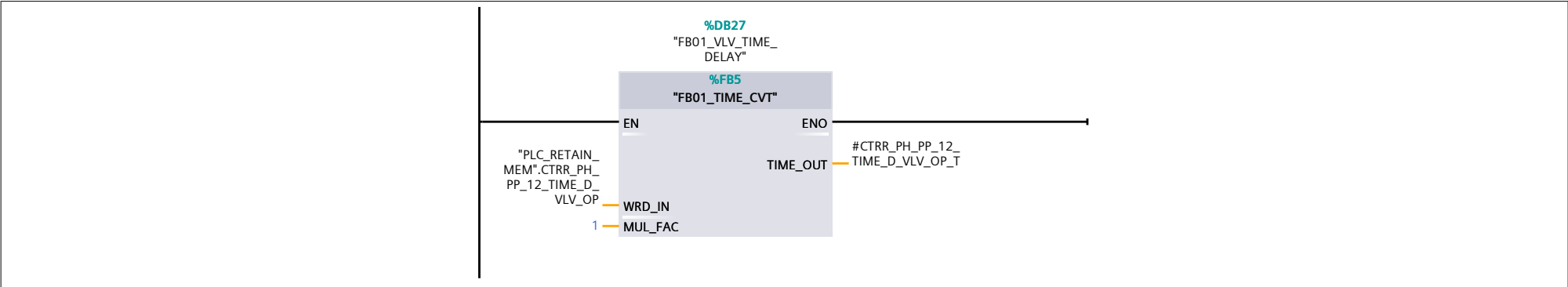


Network 7:

Main pump 1 Available and Auto Start

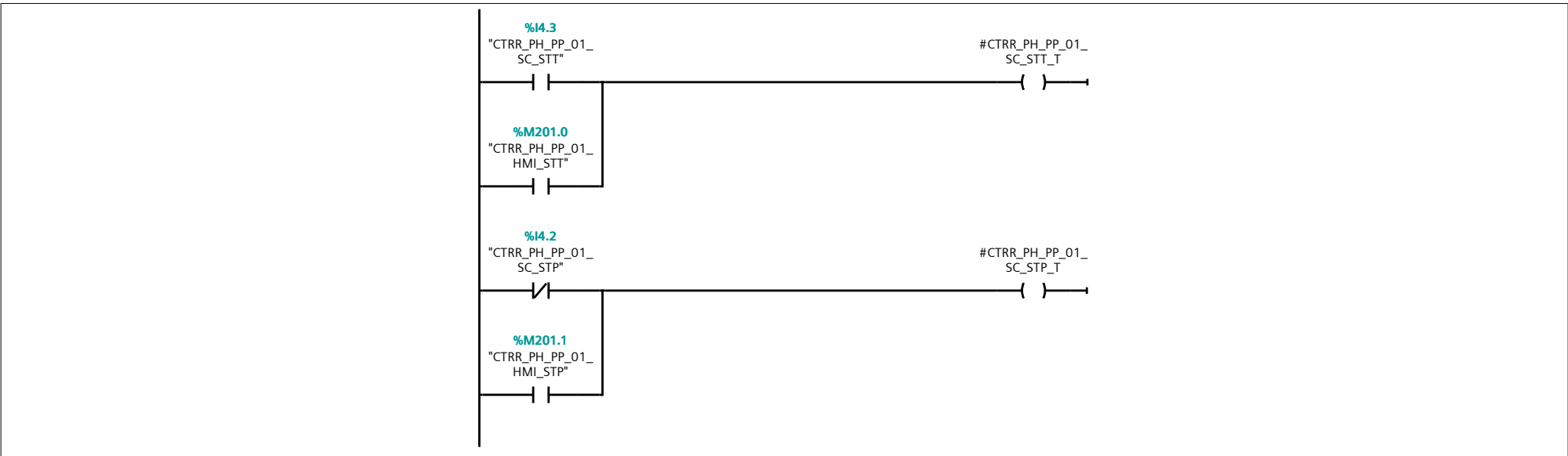


Network 8:



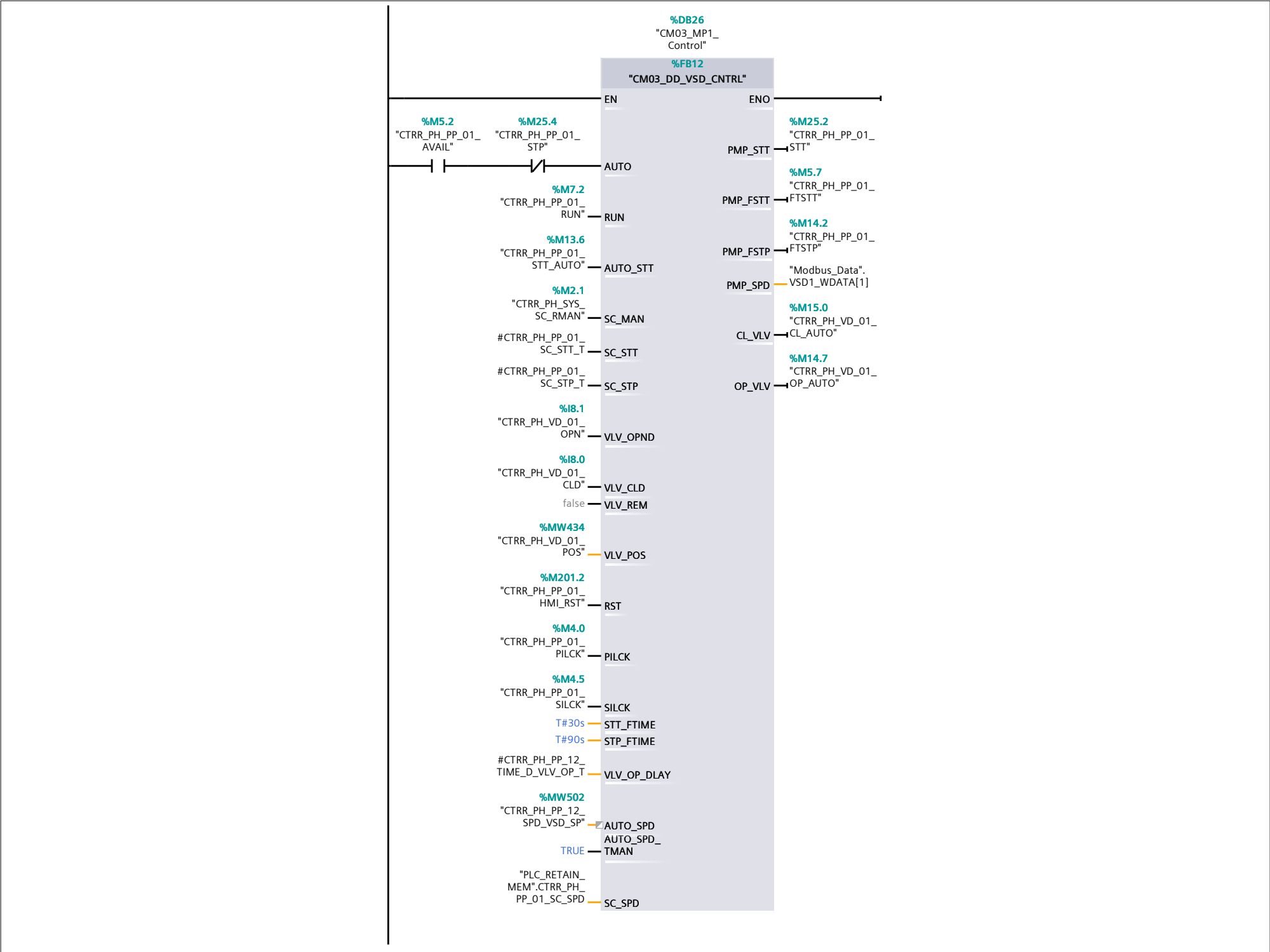
Network 9:

Remote Manual Main Pump 1



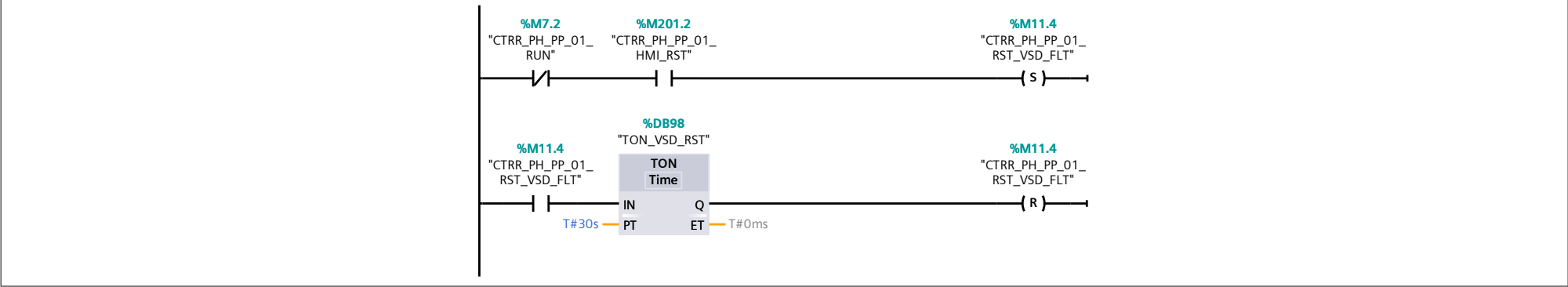
Network 10:

Main Pump 1 Control Block



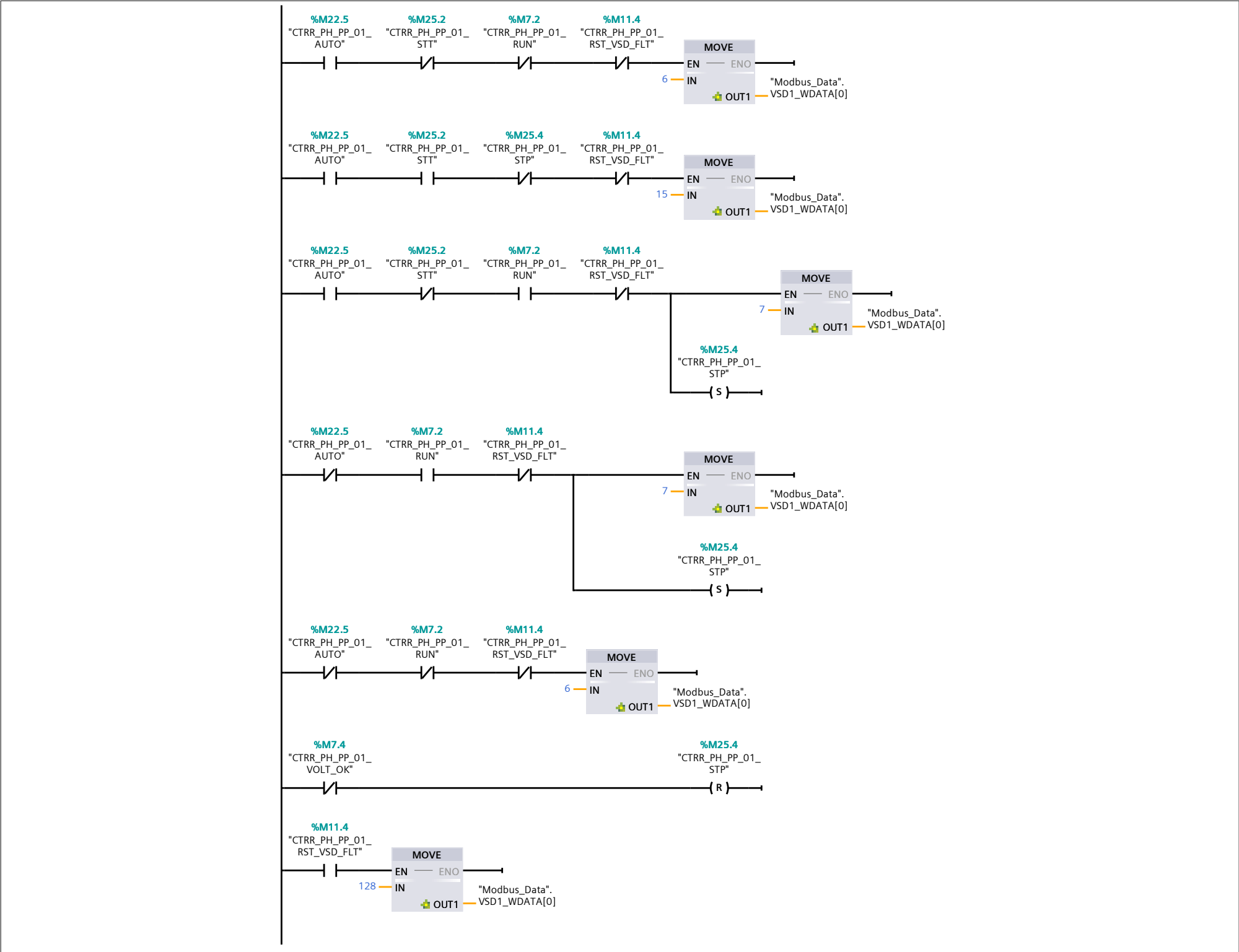
Network 11:

Main Pump 1 VSD Reset



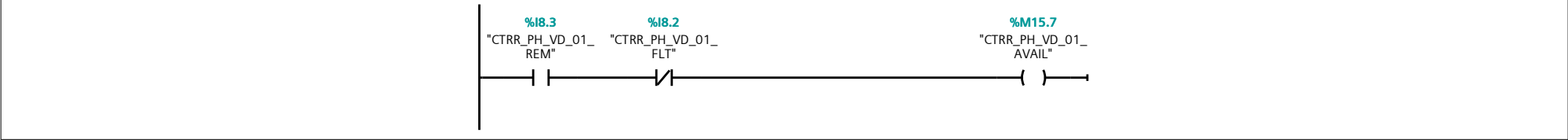
Network 12:

Main Pump 1 VSD Start Sequence



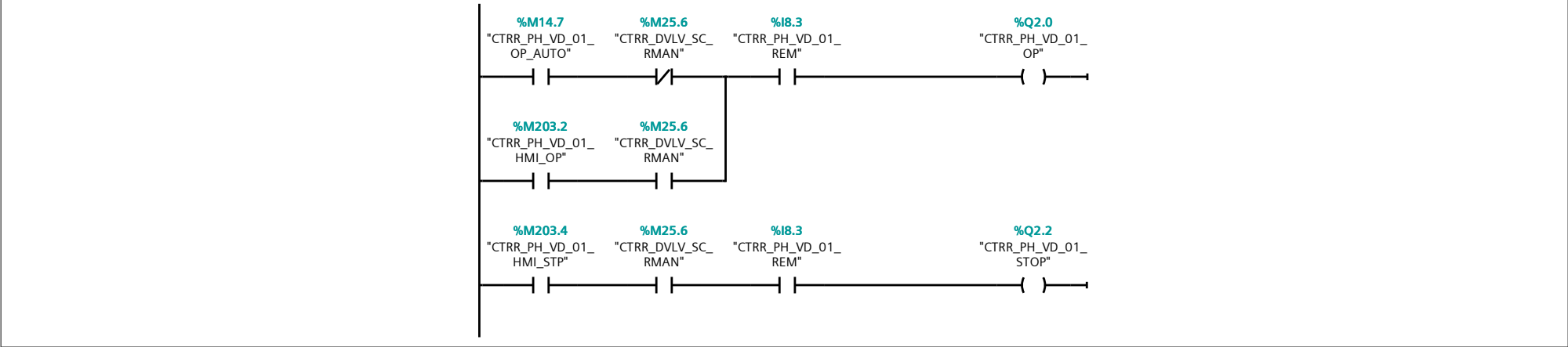
Network 13:

Main Pump 1 Valve Available



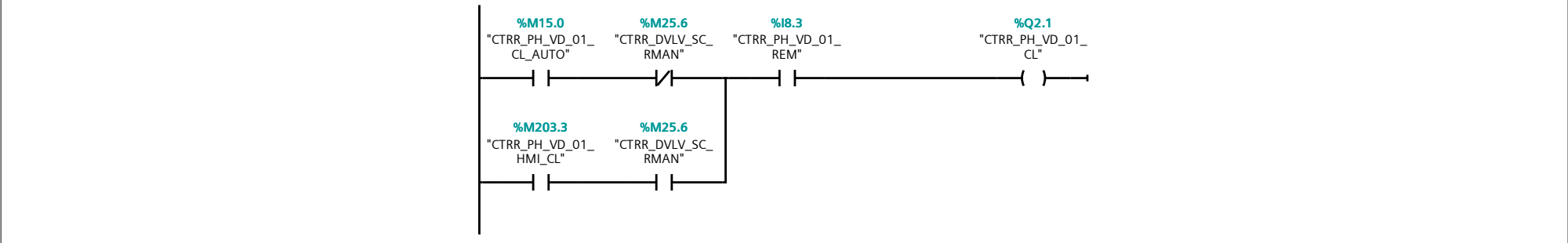
Network 14:

Main Pump 1 Valve Open Control



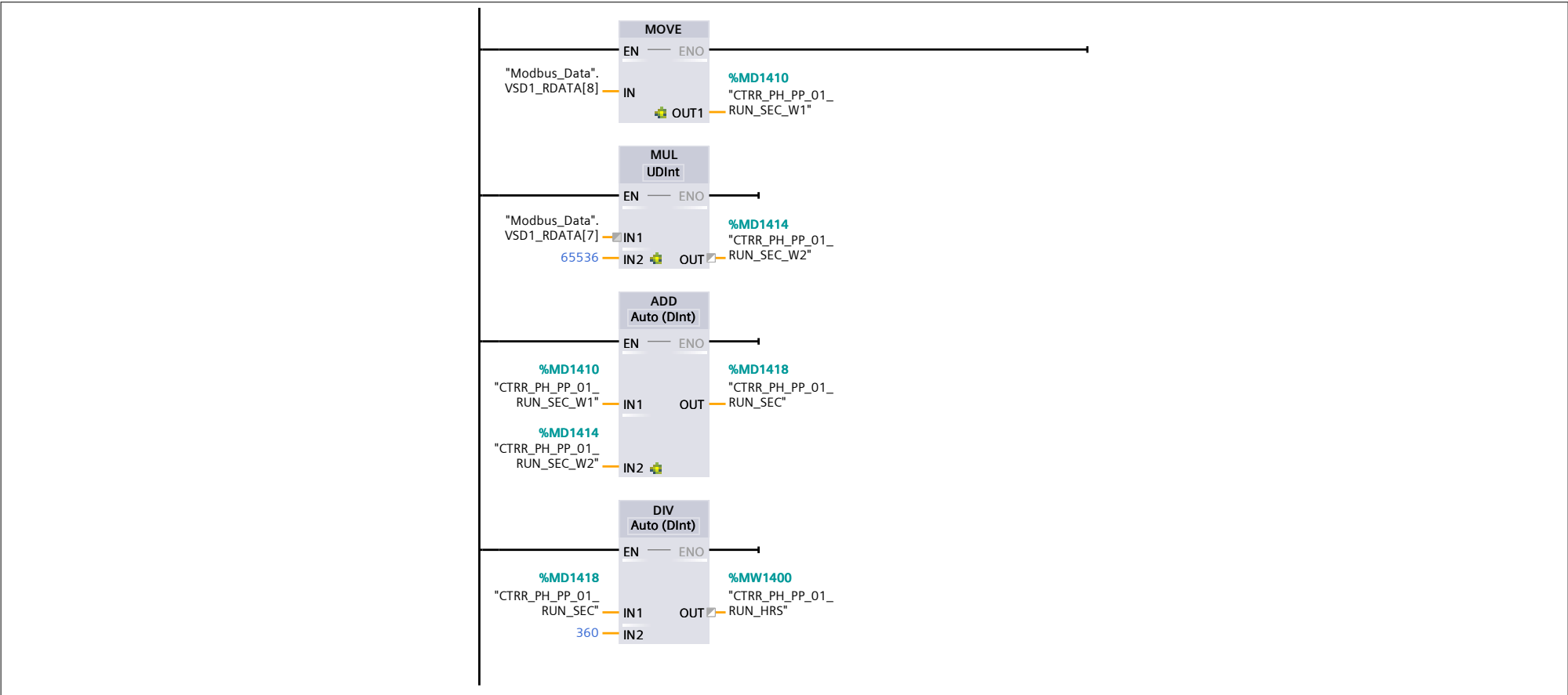
Network 15:

Main Pump 1 Valve Close Control



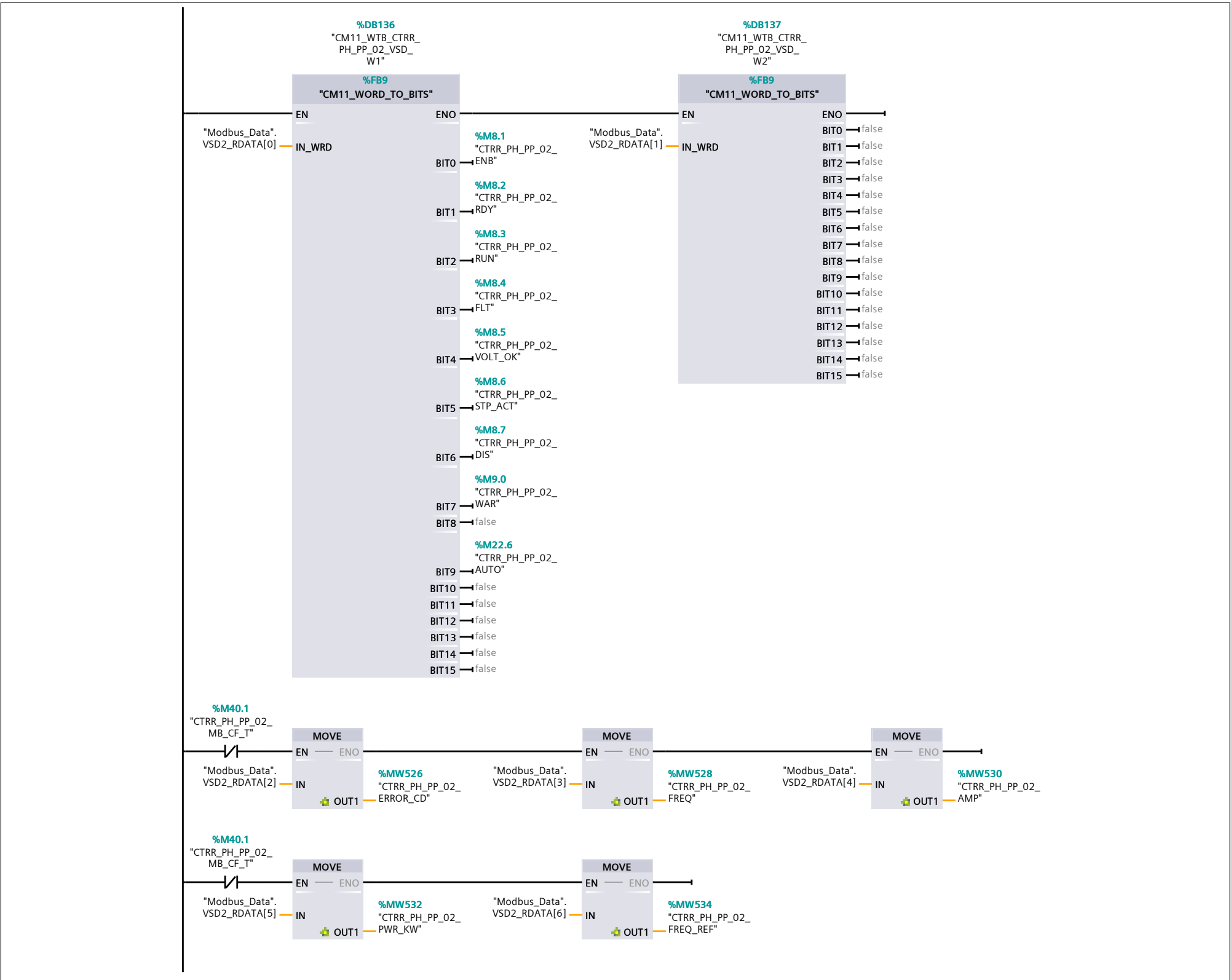
Network 16:

Main Pump 1 Run Hours



Network 17:

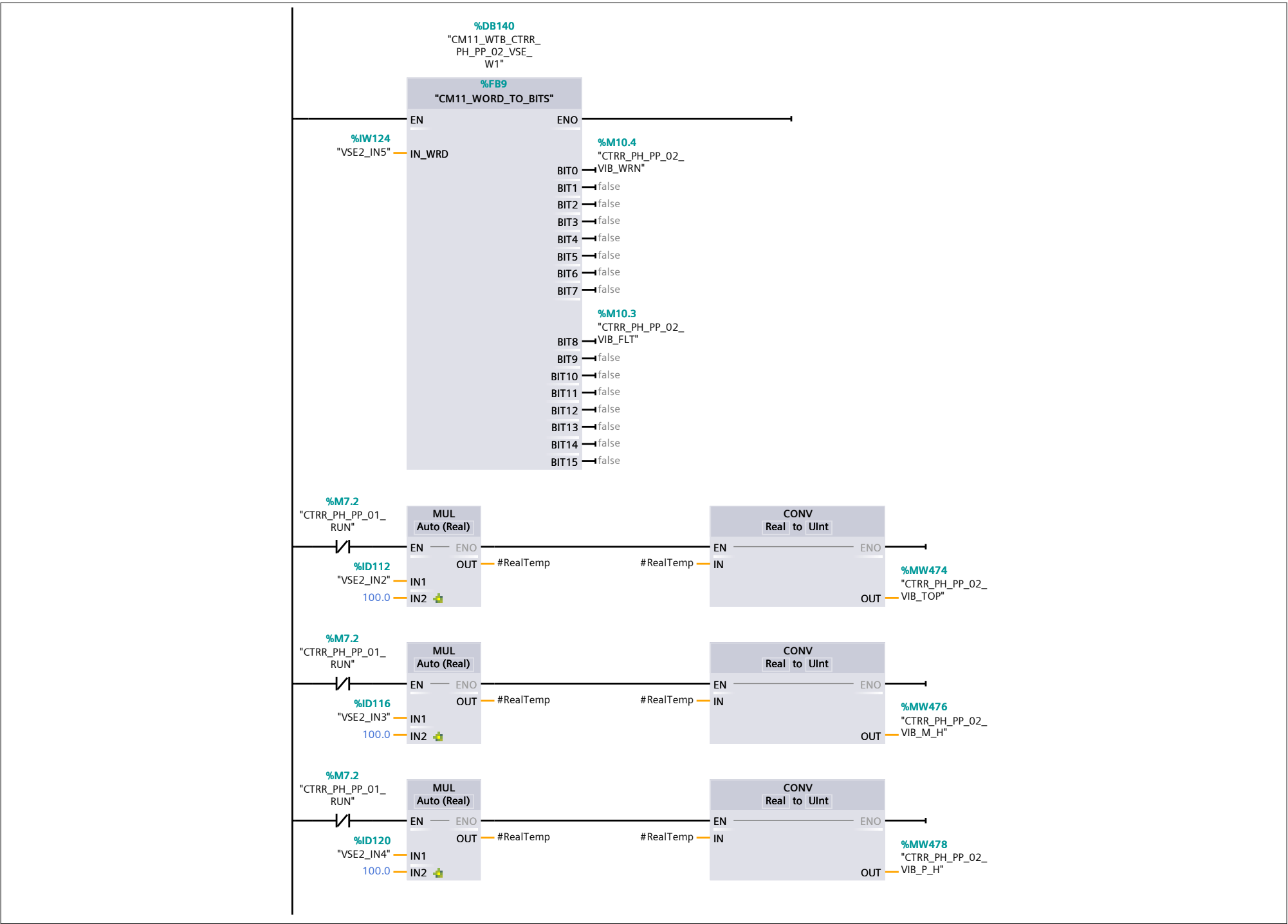
Main Pump 2 VSD Data Digitals



Network 18:

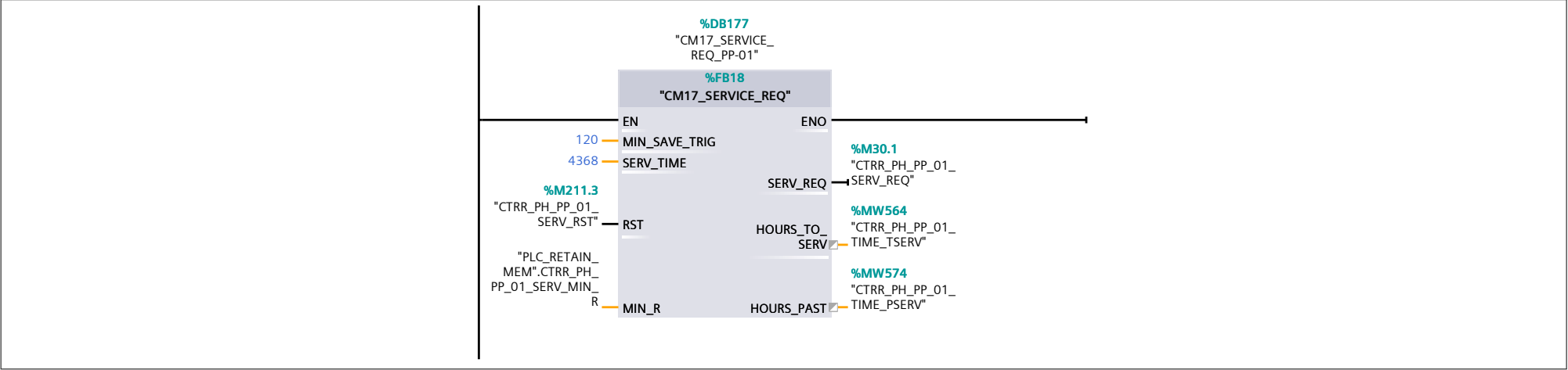
Main Pump 1 VSE Data

Main Pump 1 VSE Data



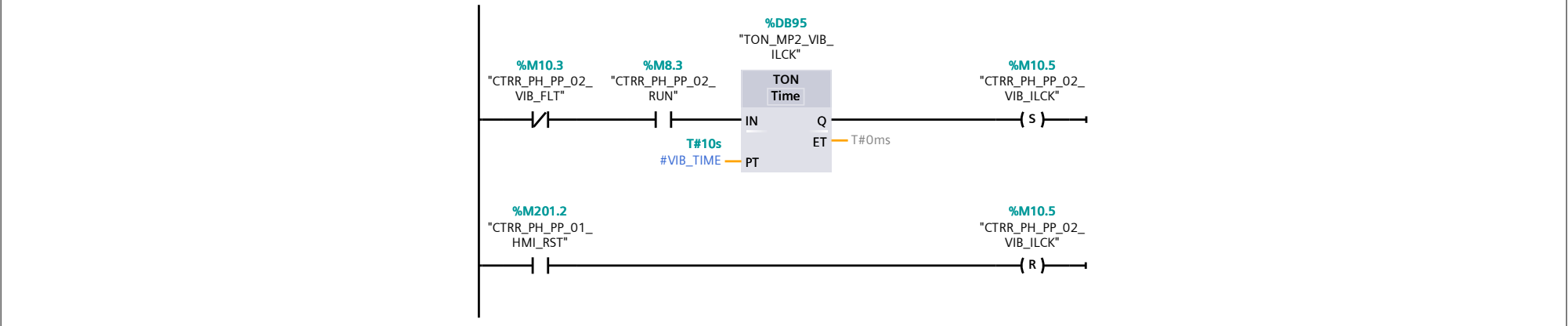
Network 19:
Main Pump 1 Service Counter

Main Pump 1 Service Counter



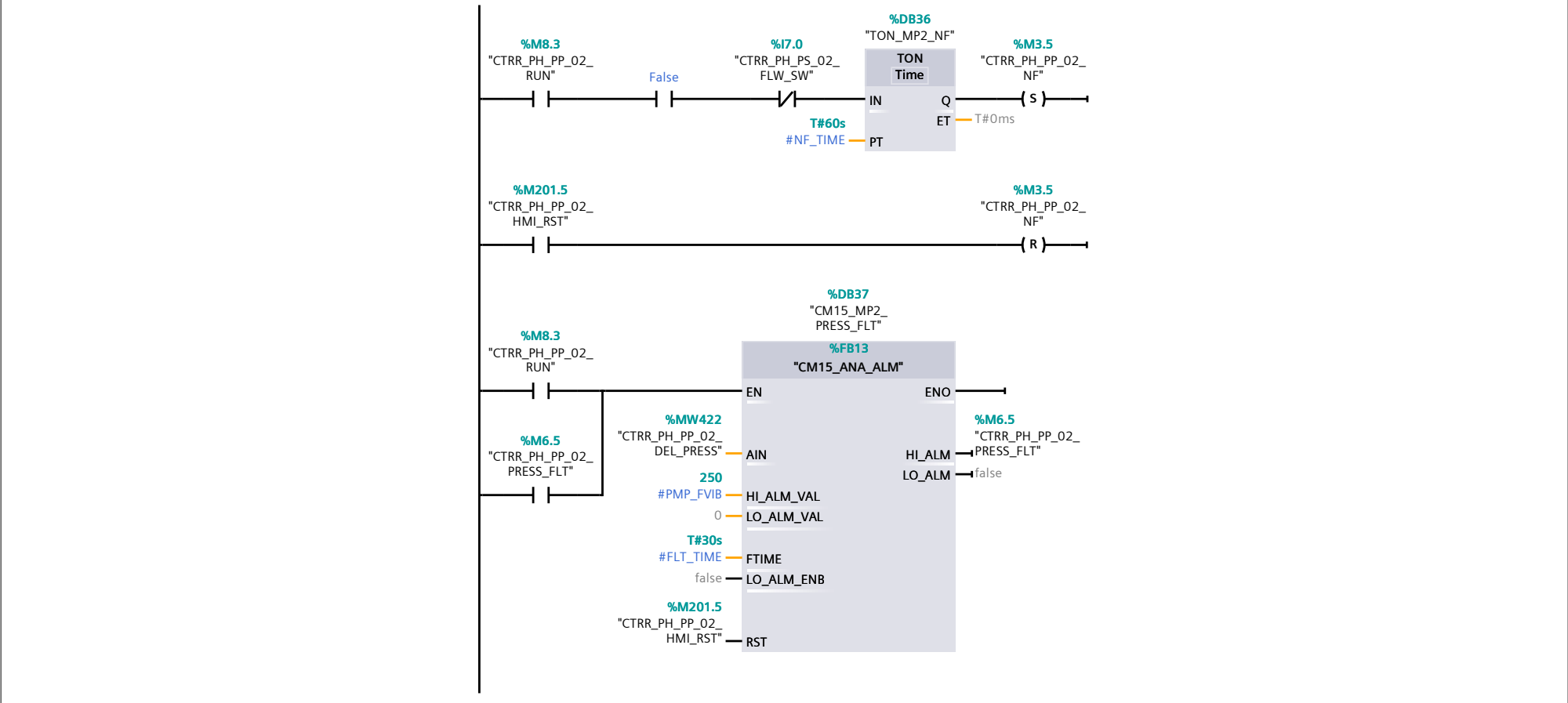
Mian Pump 2 Vibration Interlocks

Mian Pump 2 Vibration Interlocks

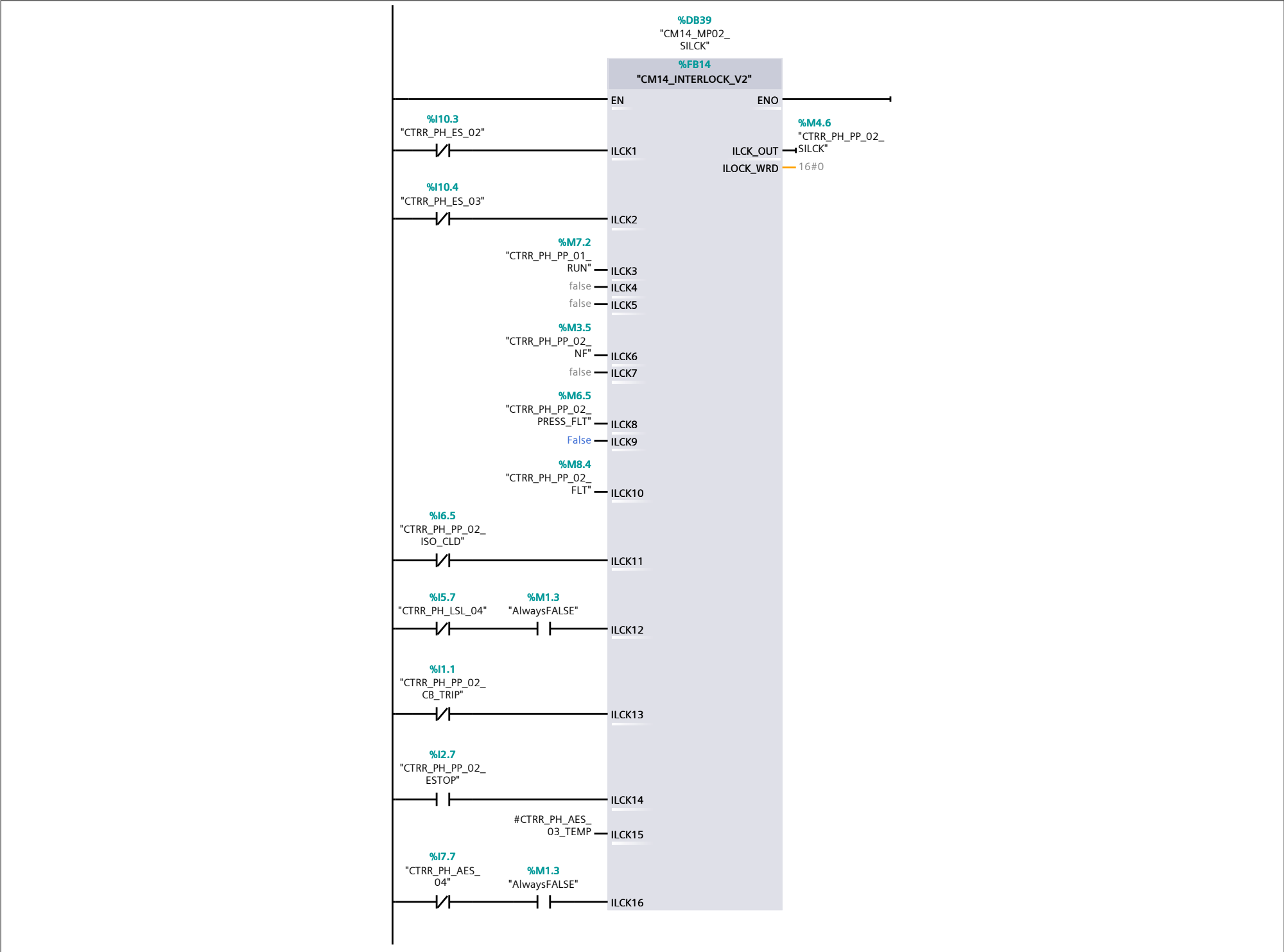


Mian Pump 2 No Flow and Overpressure Interlocks

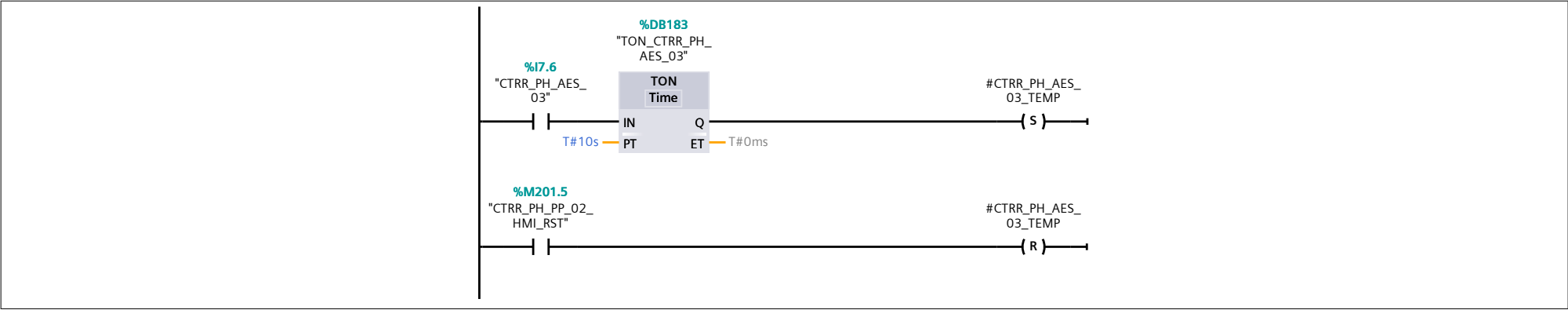
Mian Pump 2 No Flow and Overpressure Interlocks



Network 22:
Main Pump 2 Safety Interlocks

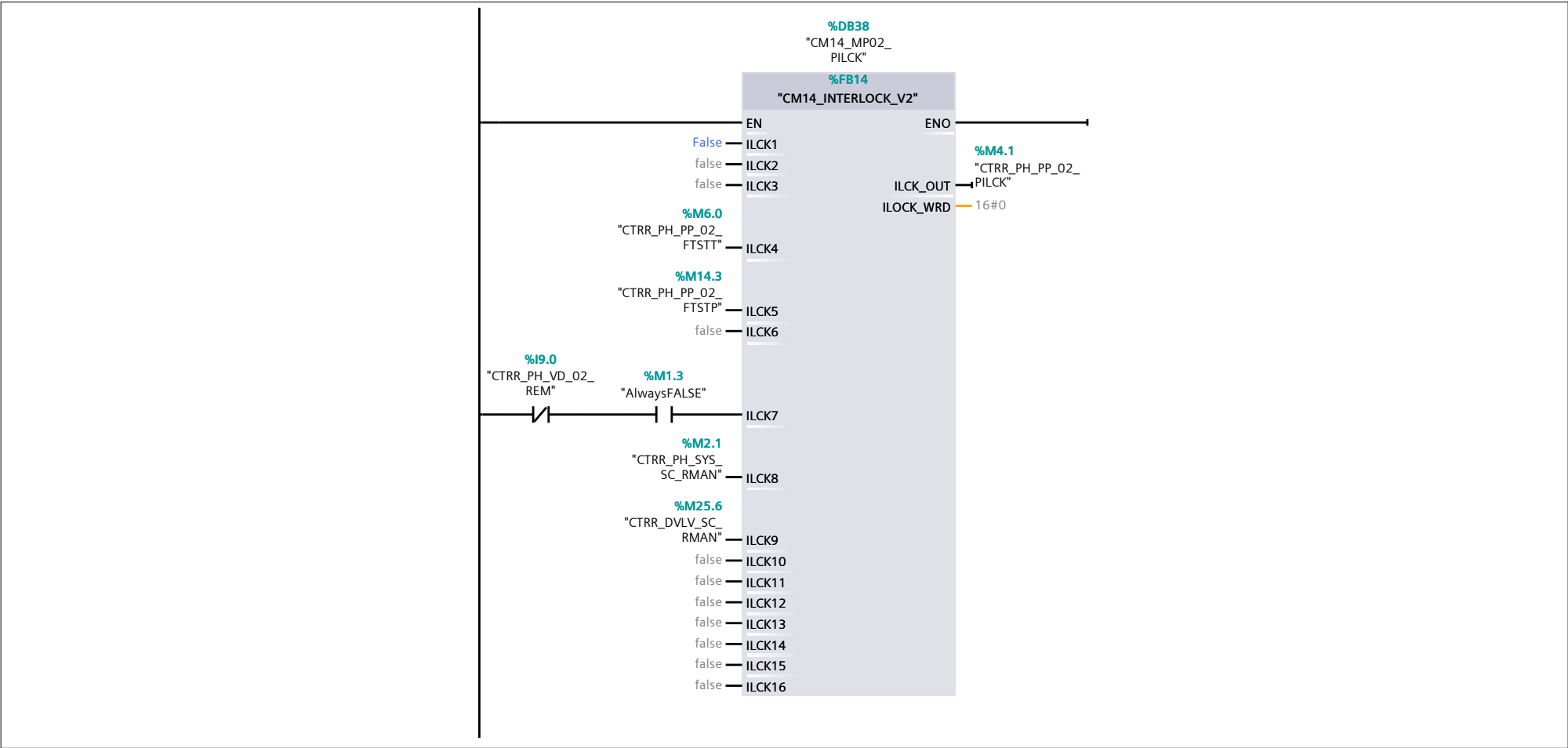


Network 23:



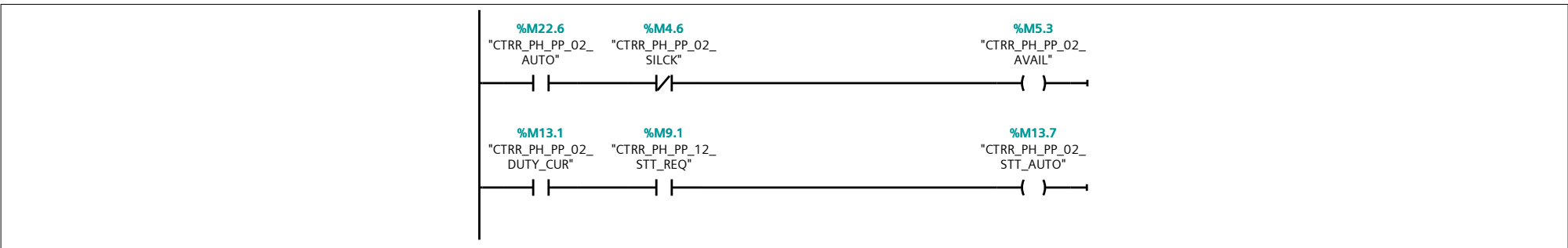
Network 24:

Main Pump 2 Process Interlocks



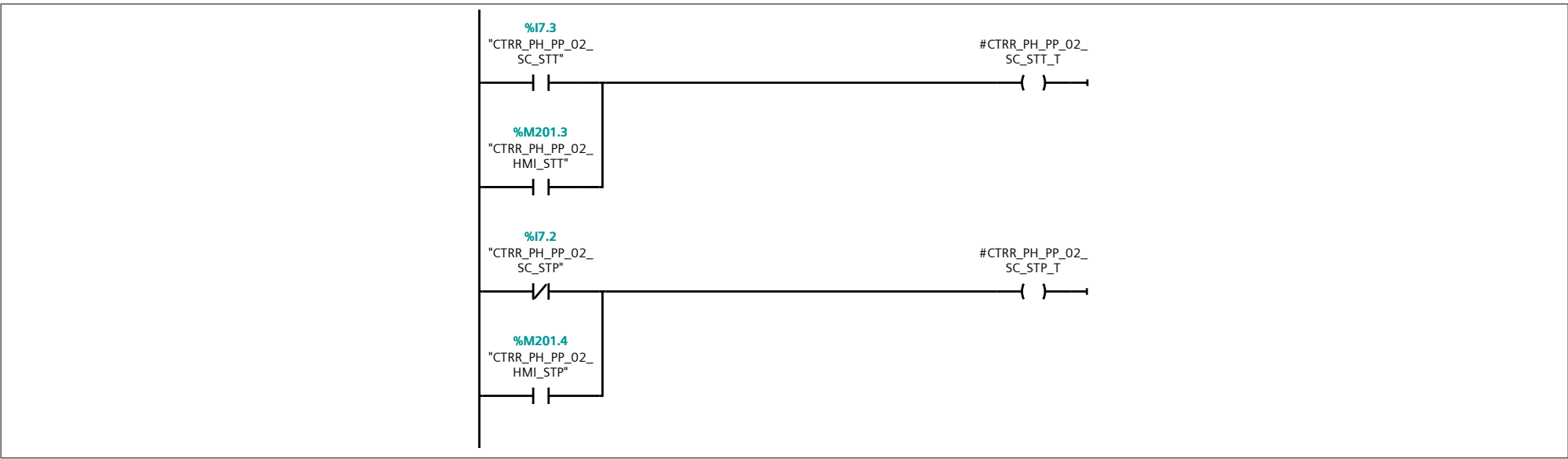
Network 25:

Main pump 2 Available and Auto Start



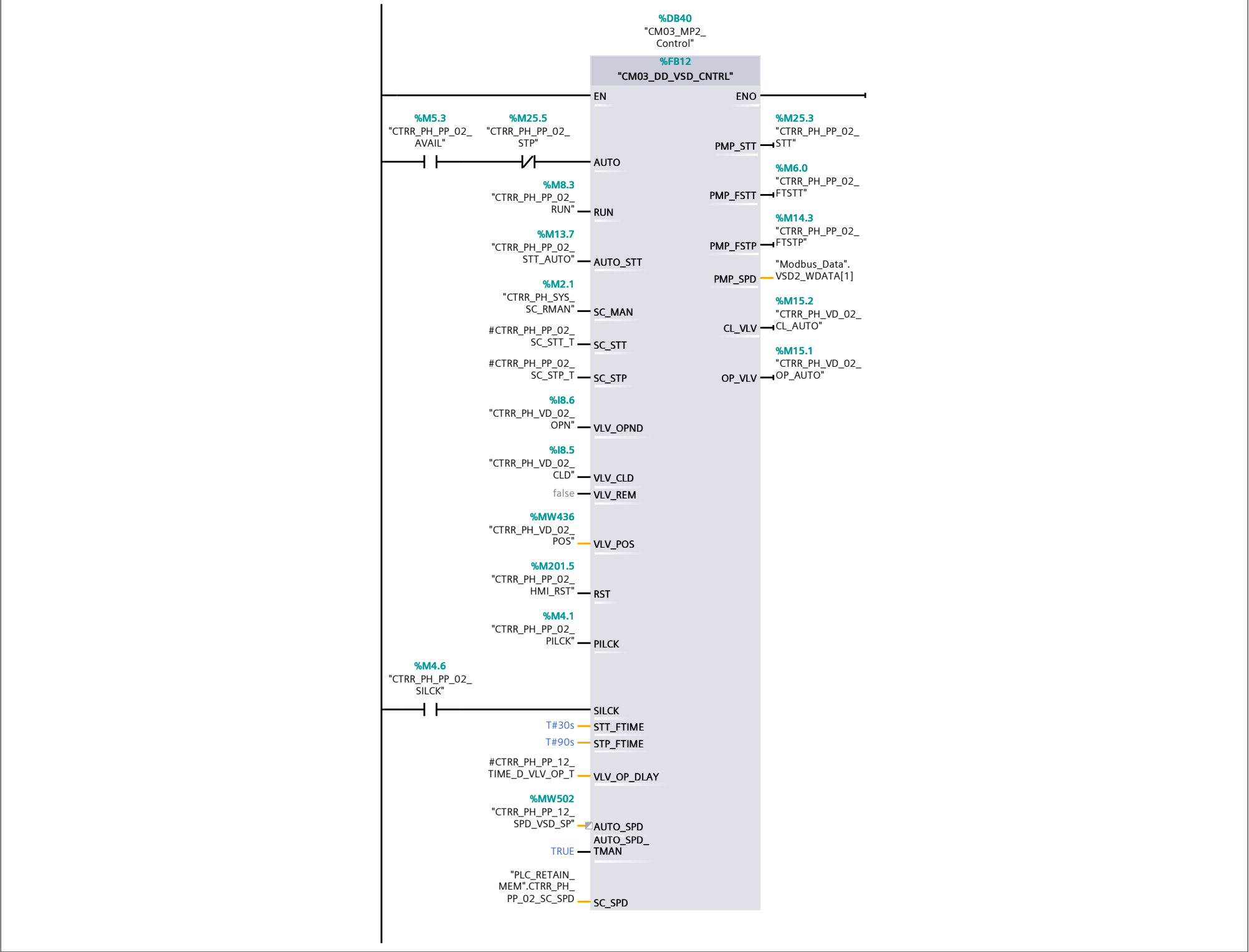
Network 26:

Remote Manual Main Pump 2



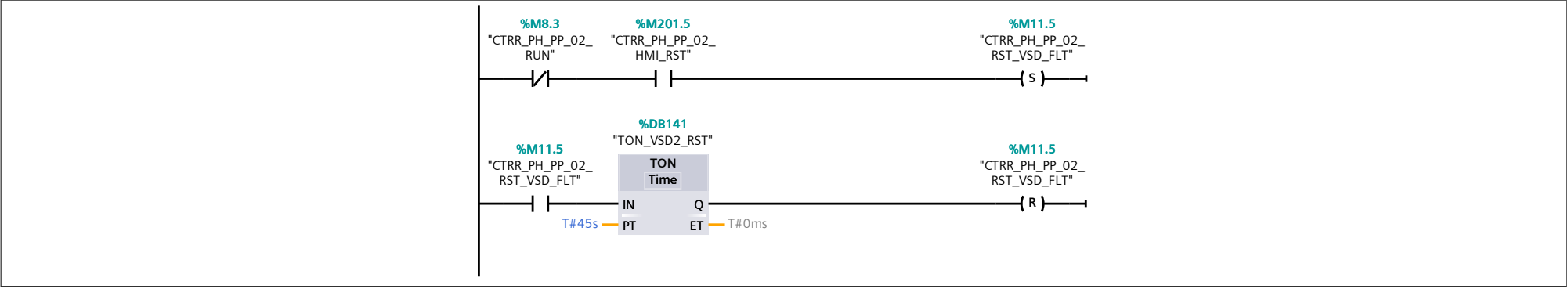
Network 27:

Main Pump 2 Control Block



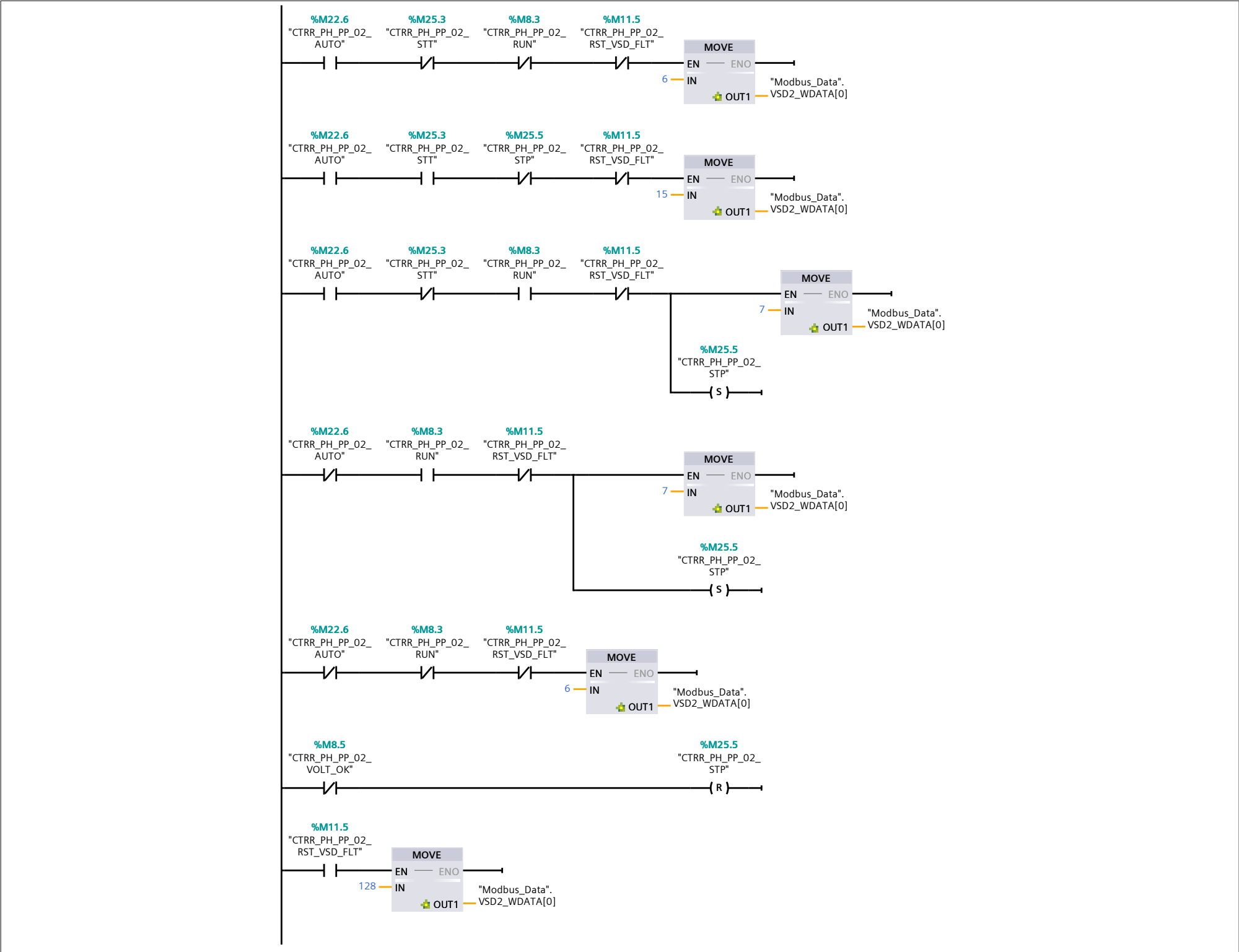
Network 28:

Main Pump 2 VSD Reset

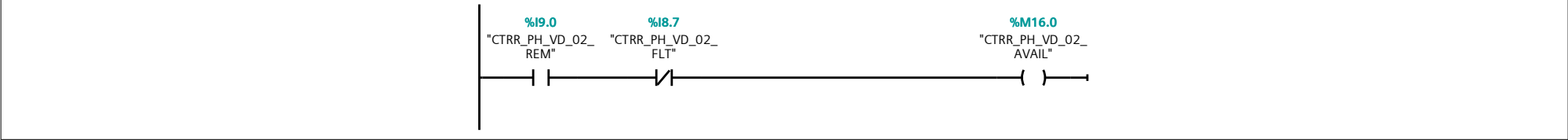


Network 29:

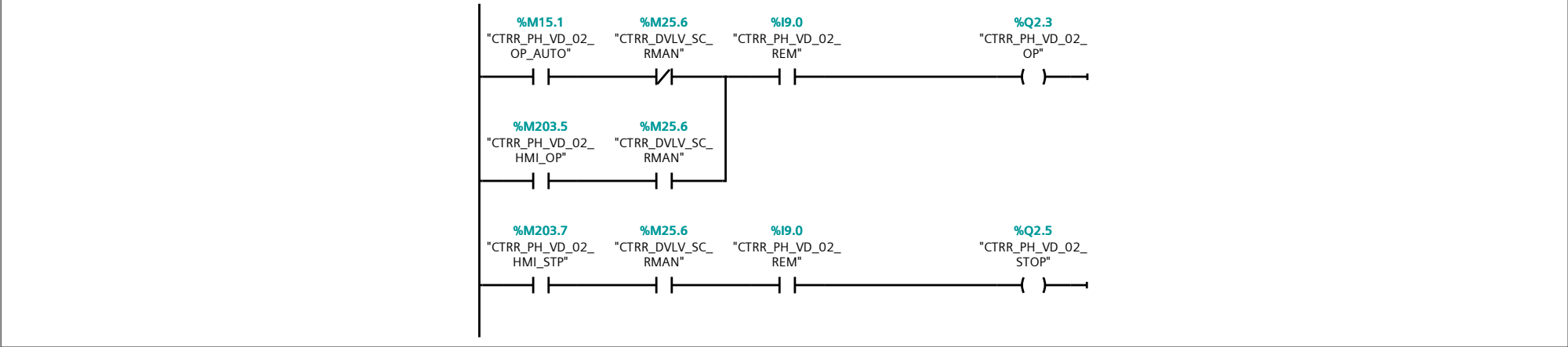
Main Pump 2 VSD Start Sequence



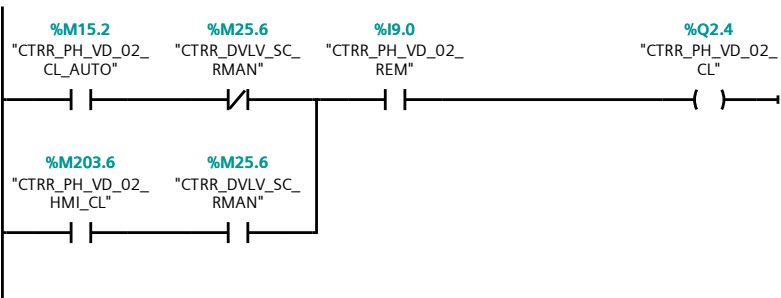
Network 30:
Main Pump 2 Valve Available



Network 31:
Main Pump 2 Valve Open Control

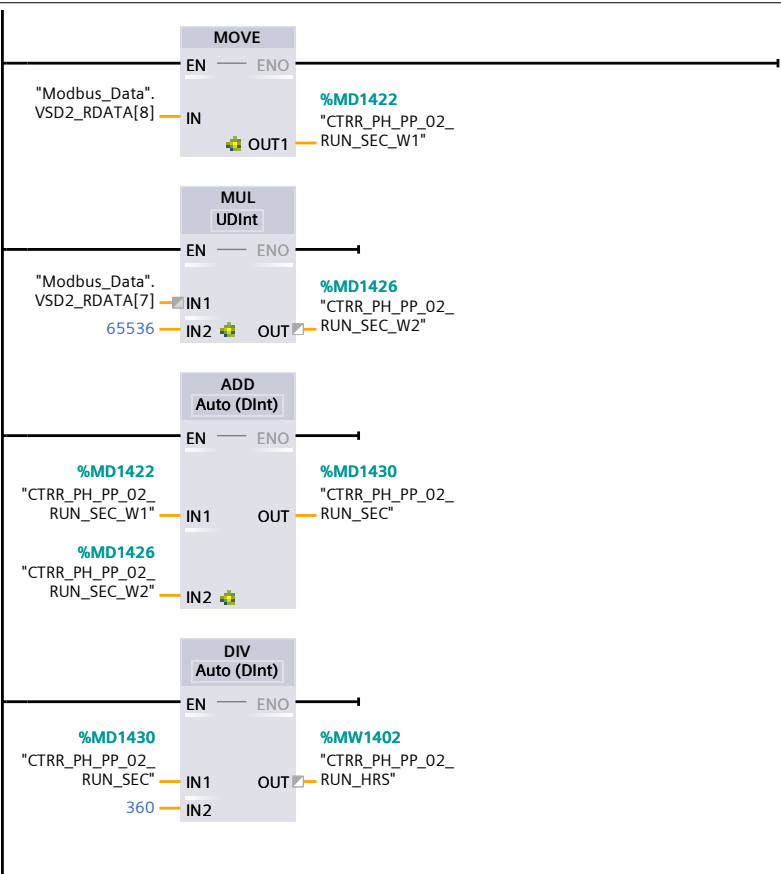


Network 32:
Main Pump 2 Valve Close Control



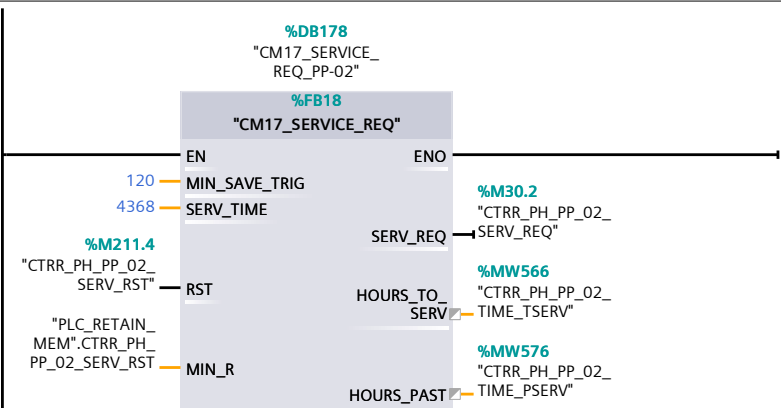
Network 33:

Main Pump 2 Run Hours



Network 34:

Main Pump 1 Service Counter



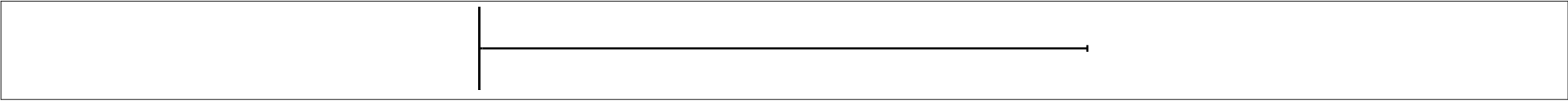
Program blocks

SEEPAGE_PMP_CNTRL [OB126]

SEEPAGE_PMP_CNTRL Properties							
General							
Name	SEEPAGE_PMP_CNTRL	Number	126	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

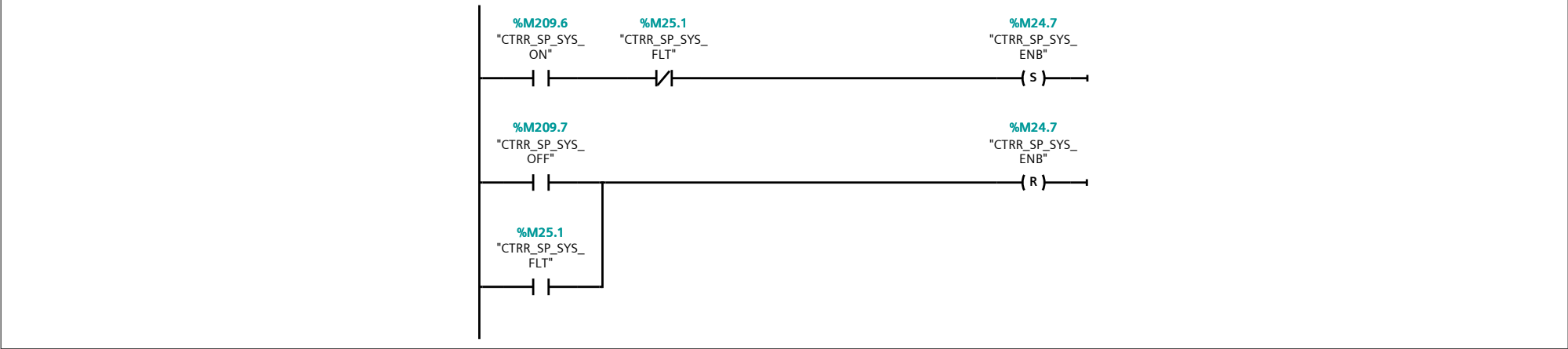
Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

Network 1:



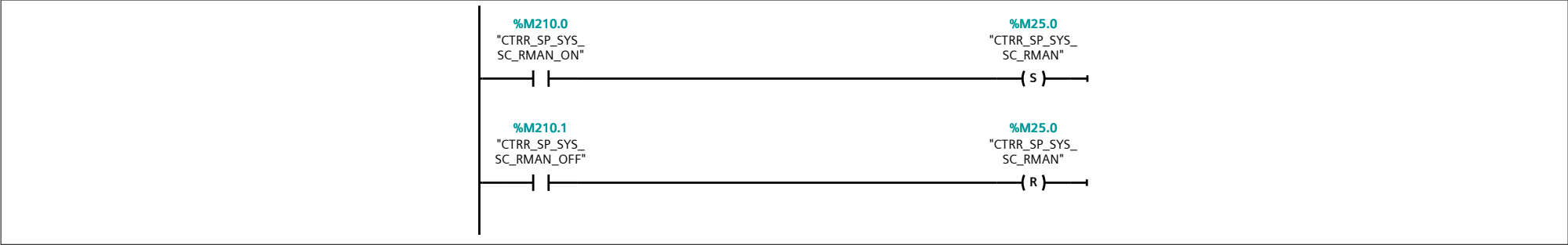
Network 2:

Seepage System Control



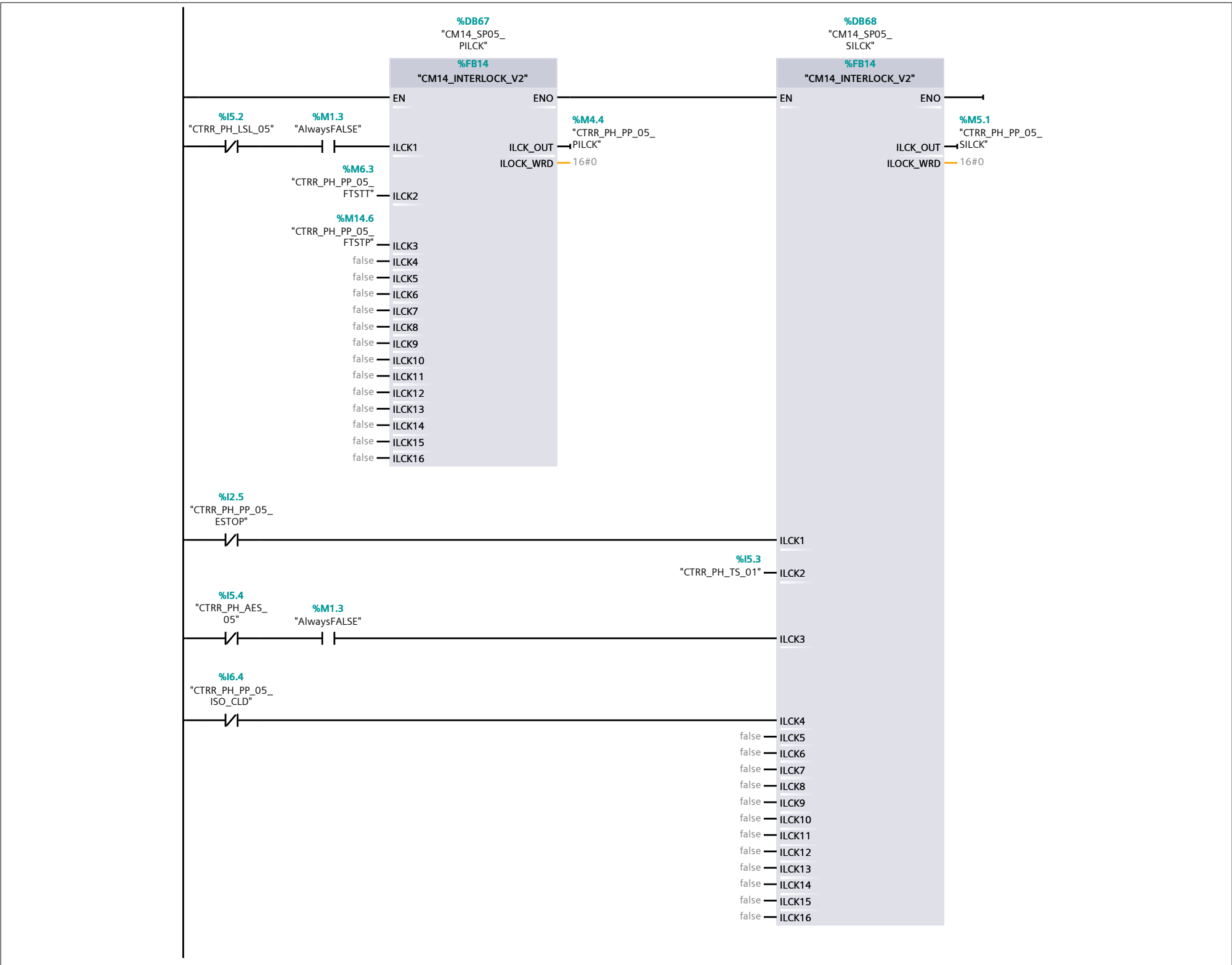
Network 3:

Dewatering System Remote Manual



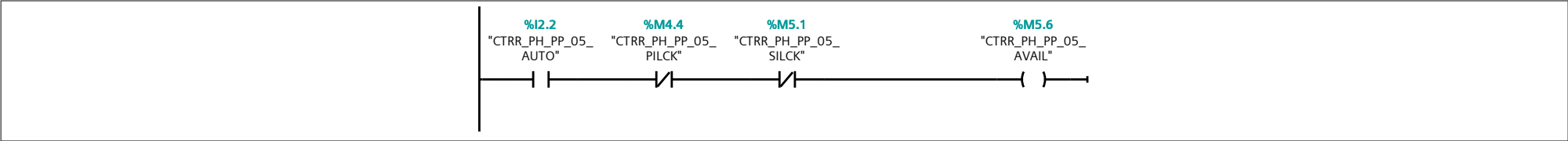
Network 4:

Seepage Pump 5 Interlocks



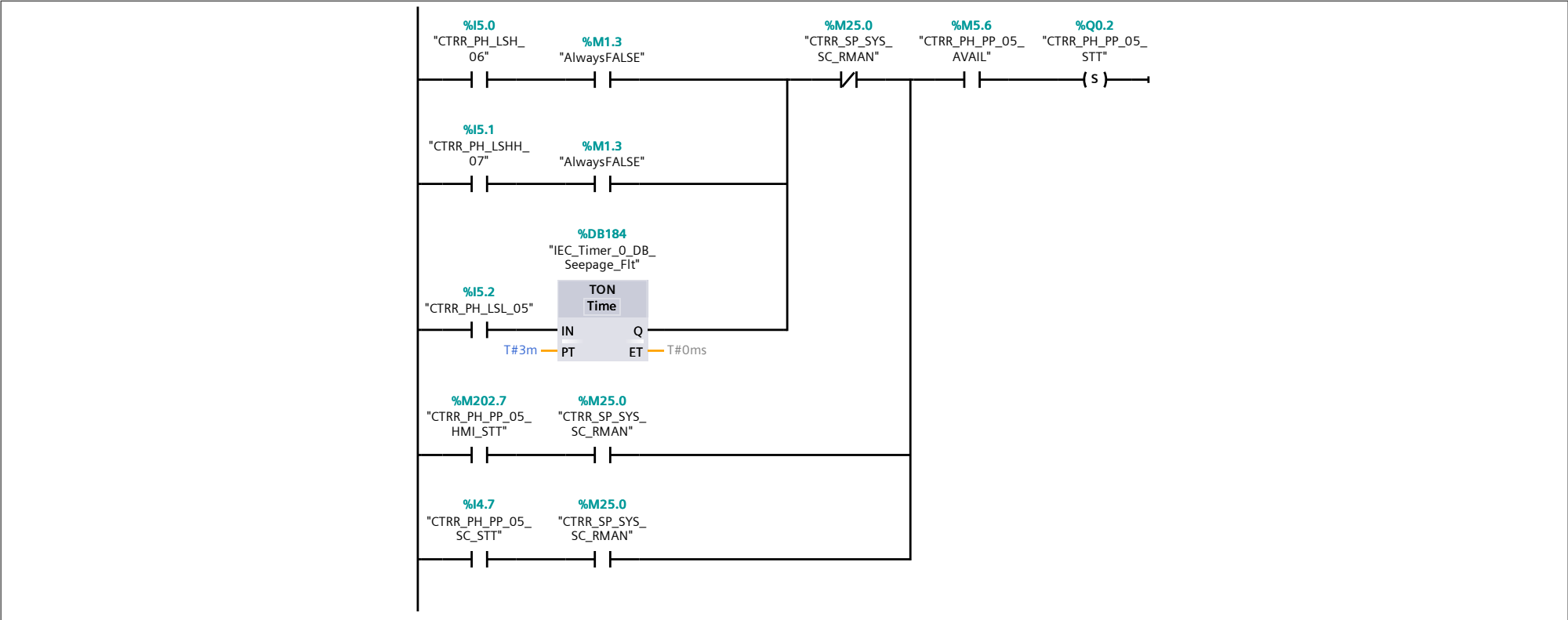
Network 5:

Seepage Pump 5 Available



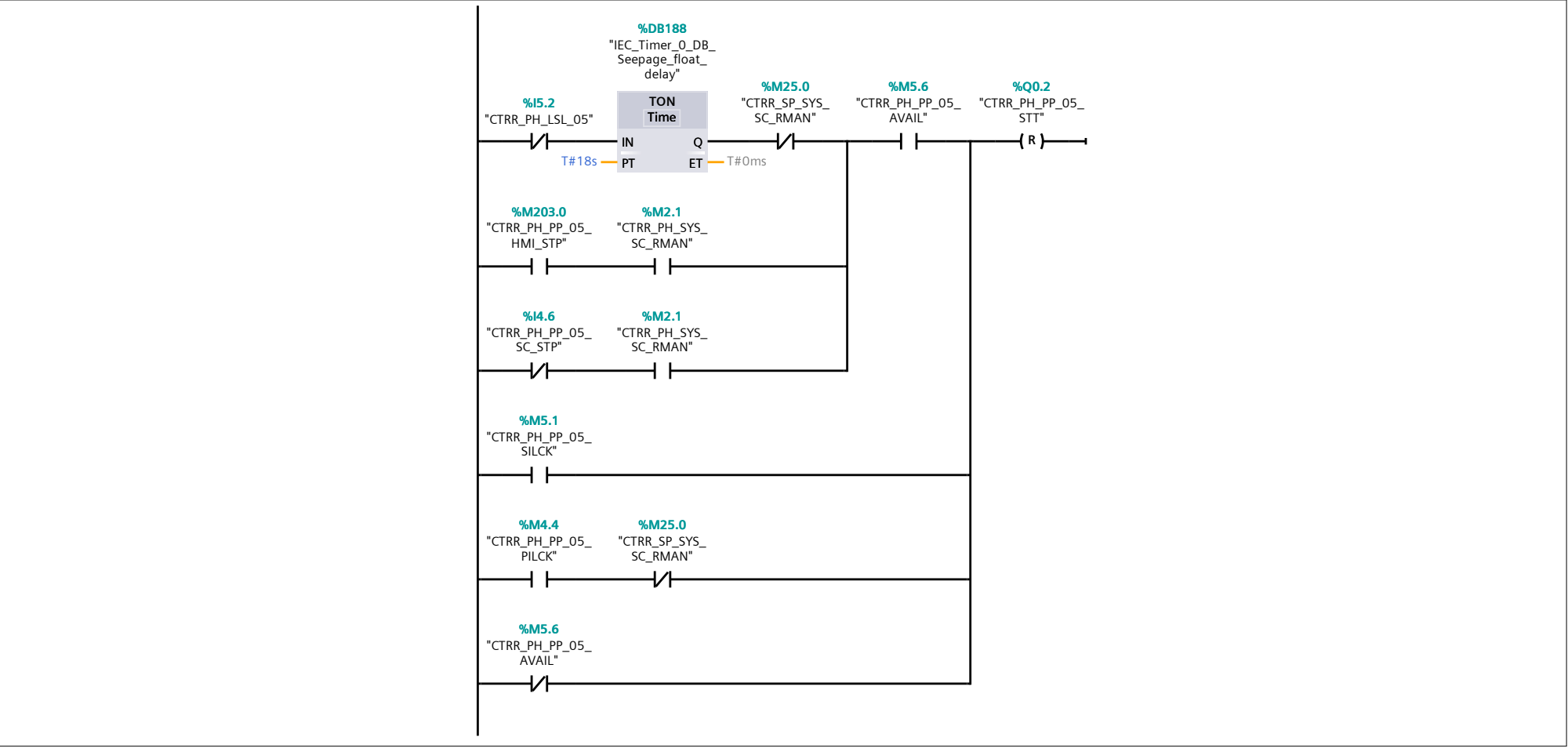
Network 6:

Seepage Pump 5 Start



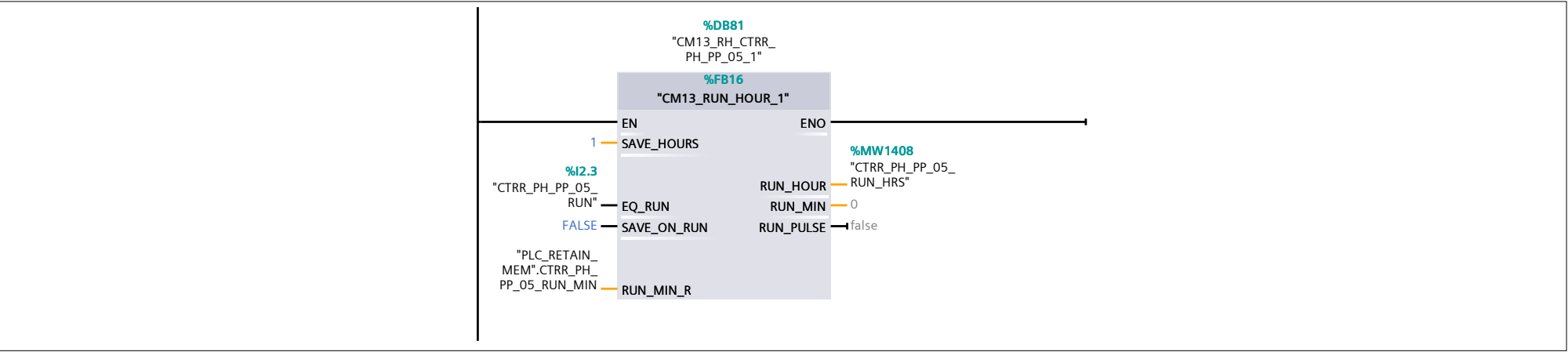
Network 7:

Seepage Pump 5 Stop



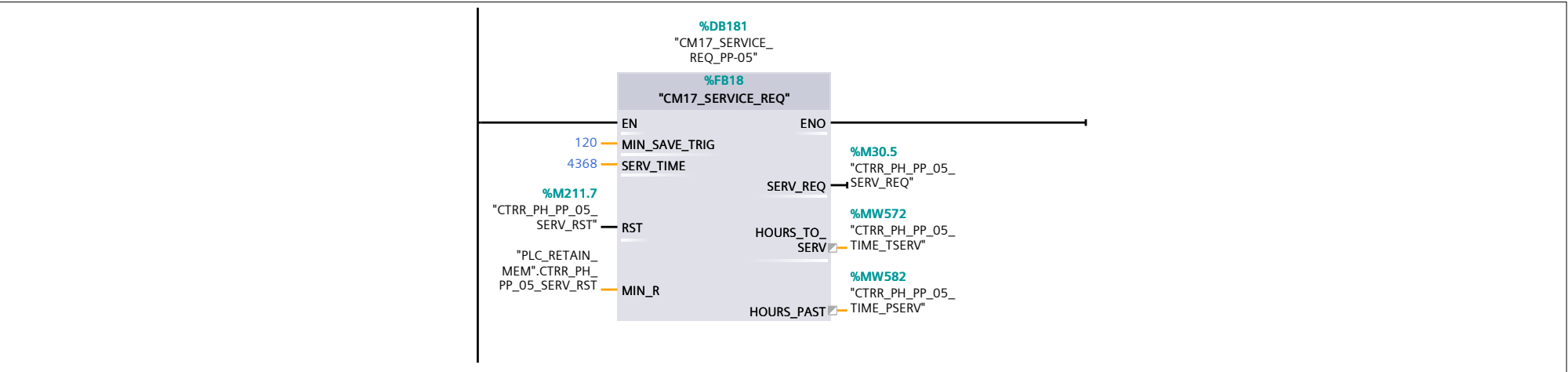
Network 8:

Seepage Pump 5 Run Hours



Network 9:

Main Pump 5 Service Counter



Program blocks

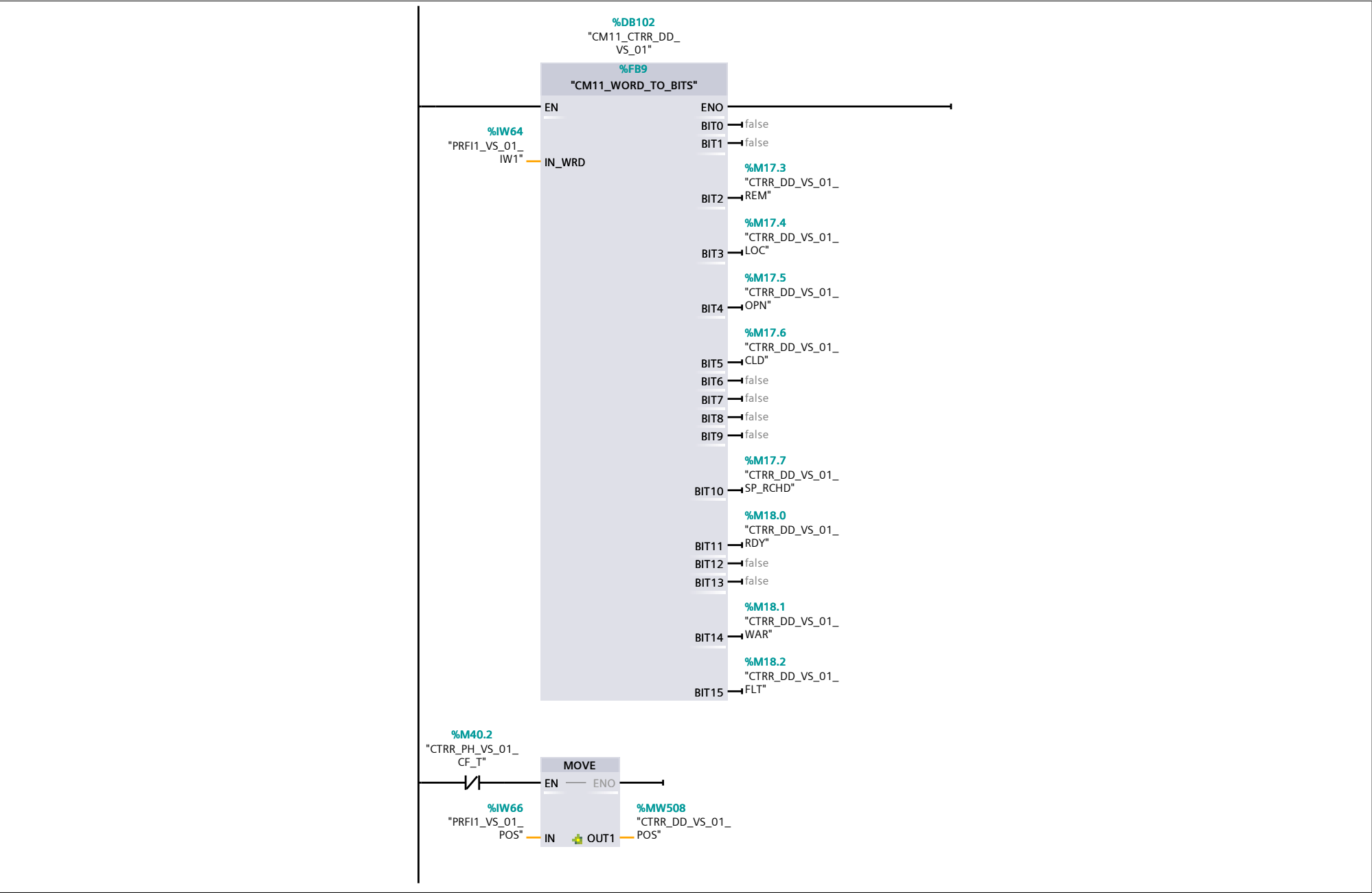
PENSTOCK_CNTRL [OB127]

PENSTOCK_CNTRL Properties							
General							
Name	PENSTOCK_CNTRL	Number	127	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

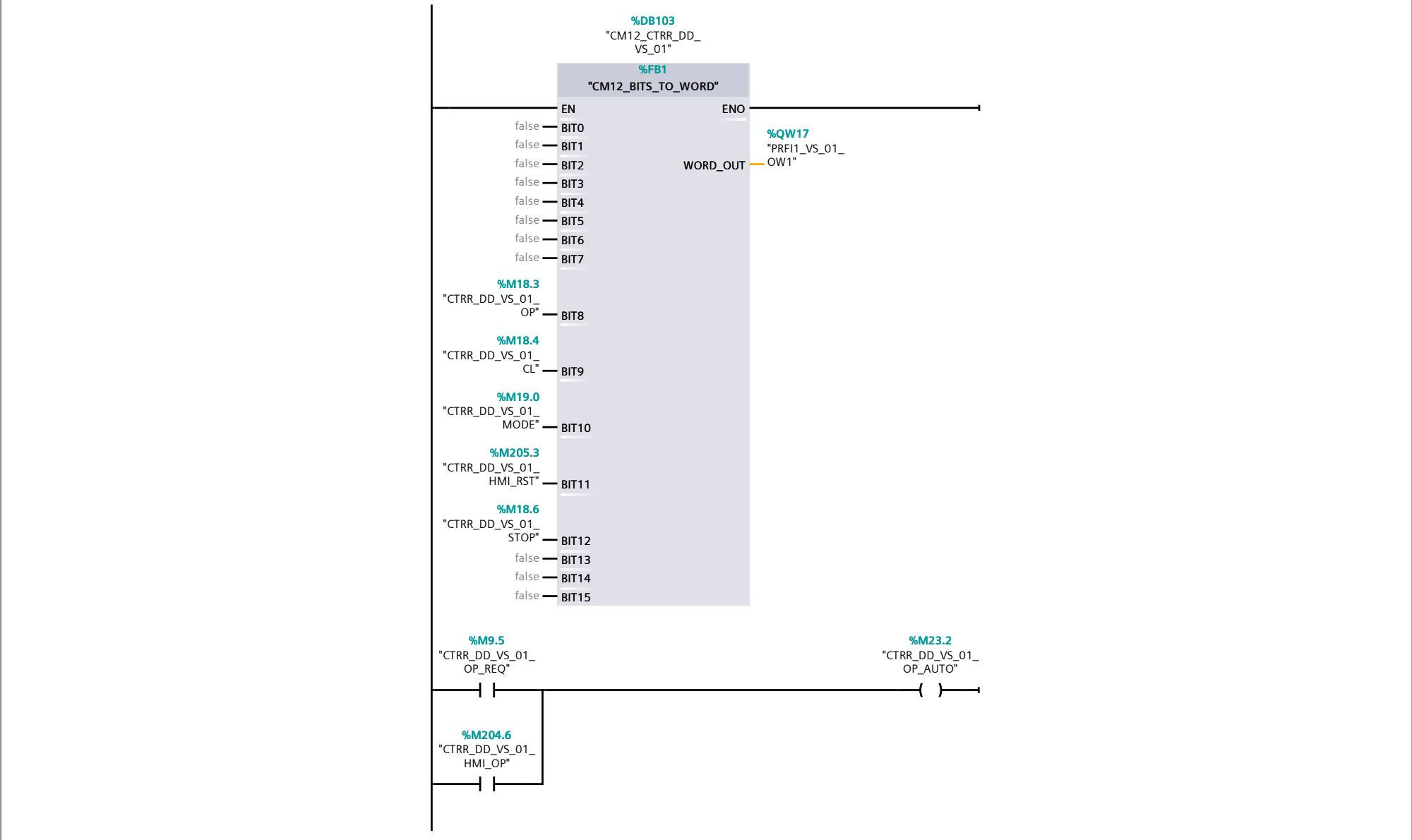
Network 1:

Dewatering Penstock IO Feedback



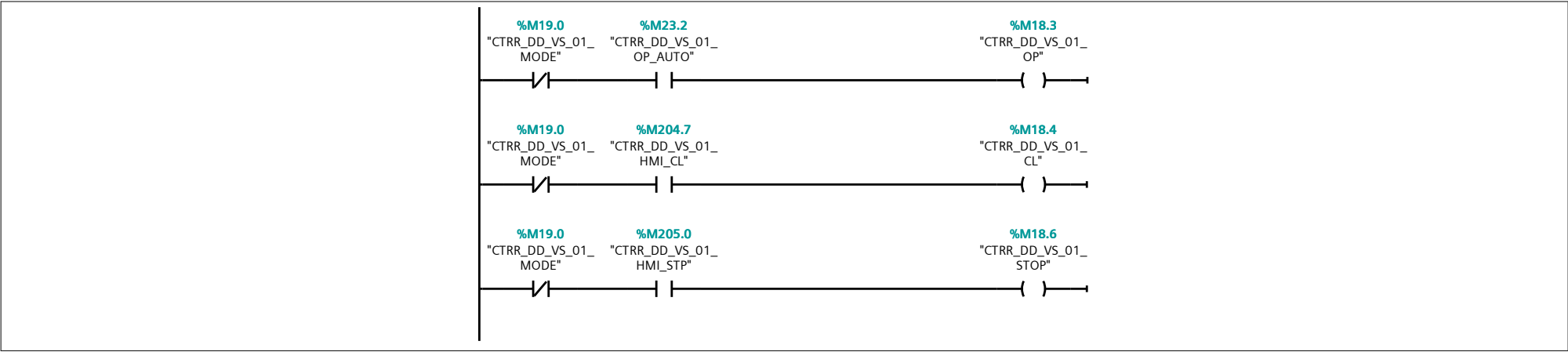
Network 2:

Dewatering Penstock IO Outputs



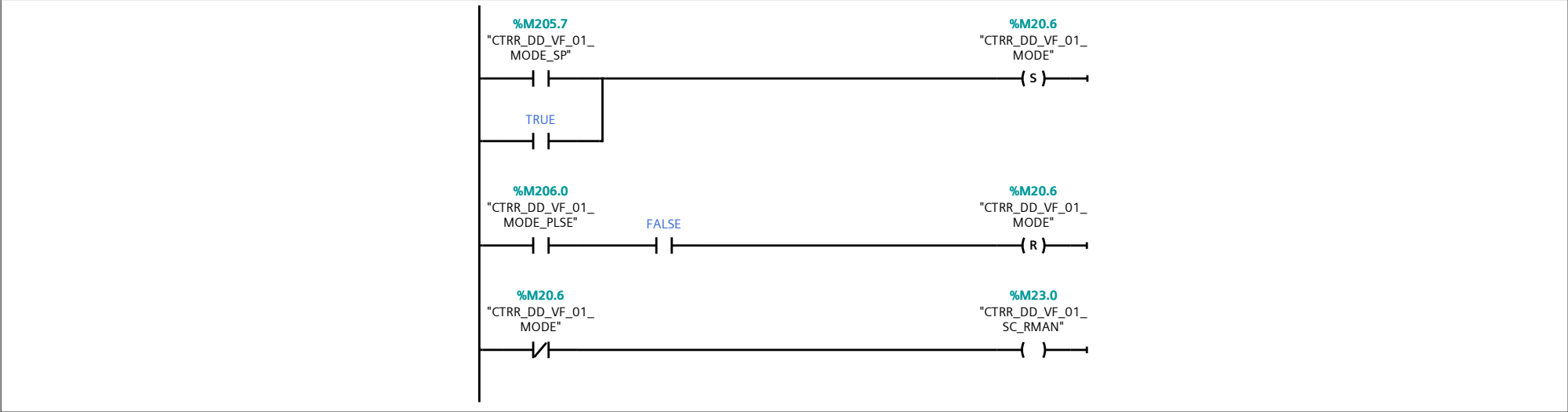
Network 3:

Filling Penstock 1 Pulse Control



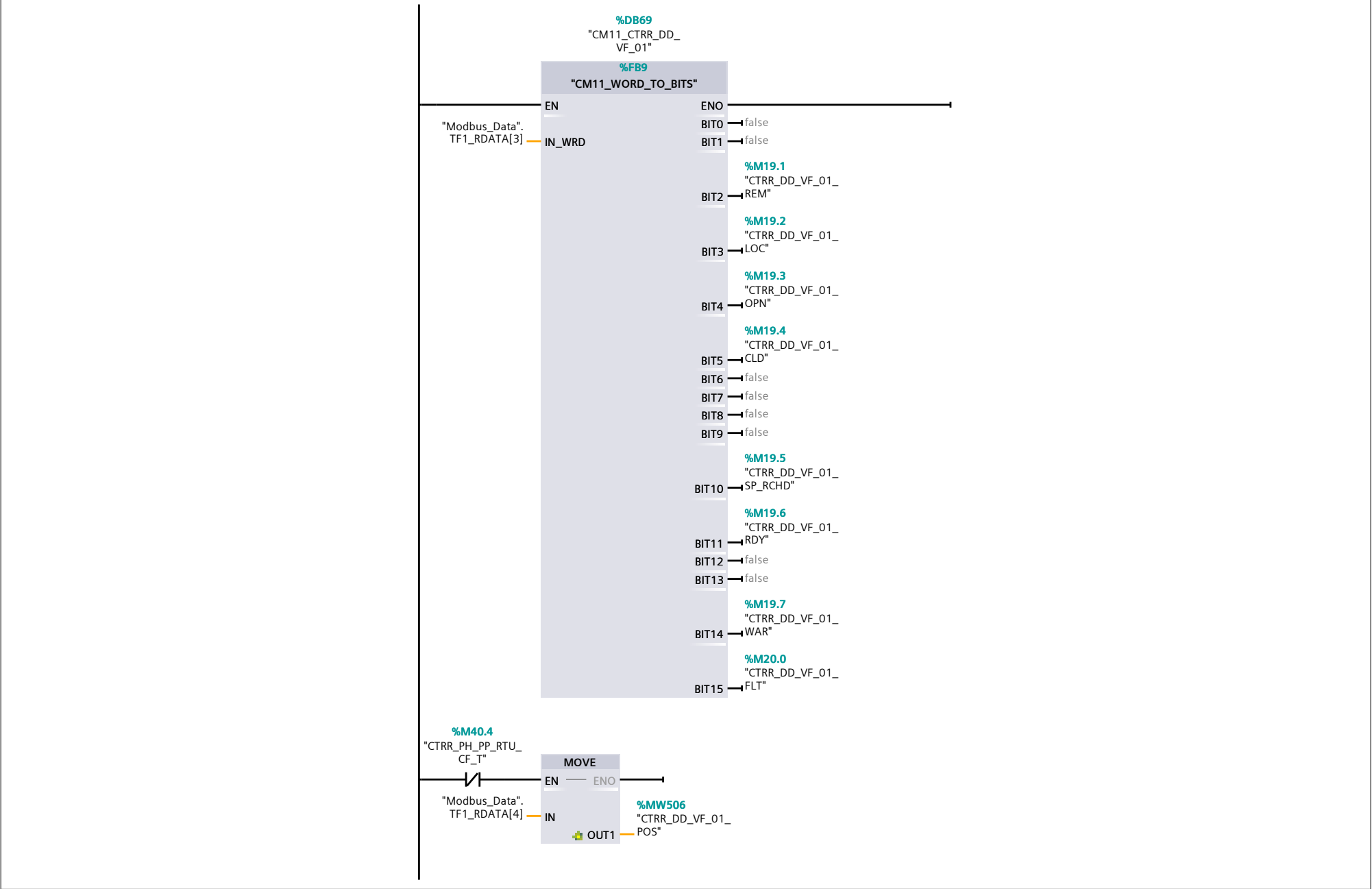
Network 5:

Filling Penstock 1



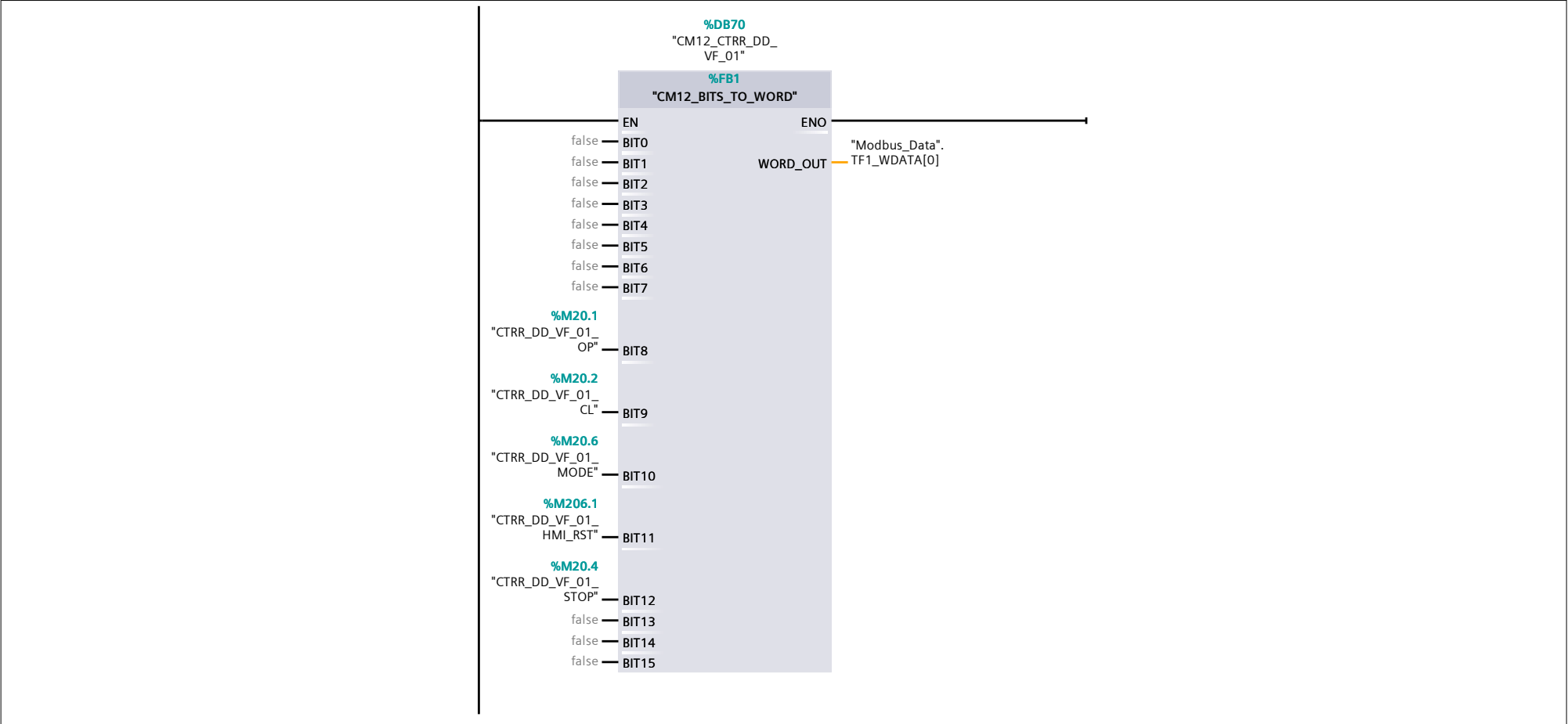
Network 6:

Filling Penstock 1



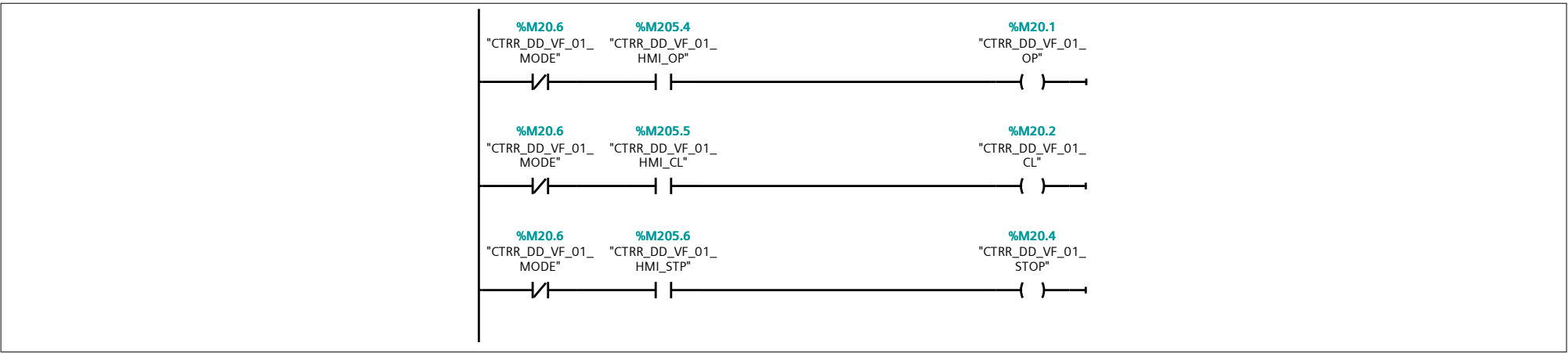
Network 7:

Filling Penstock 1



Network 8:

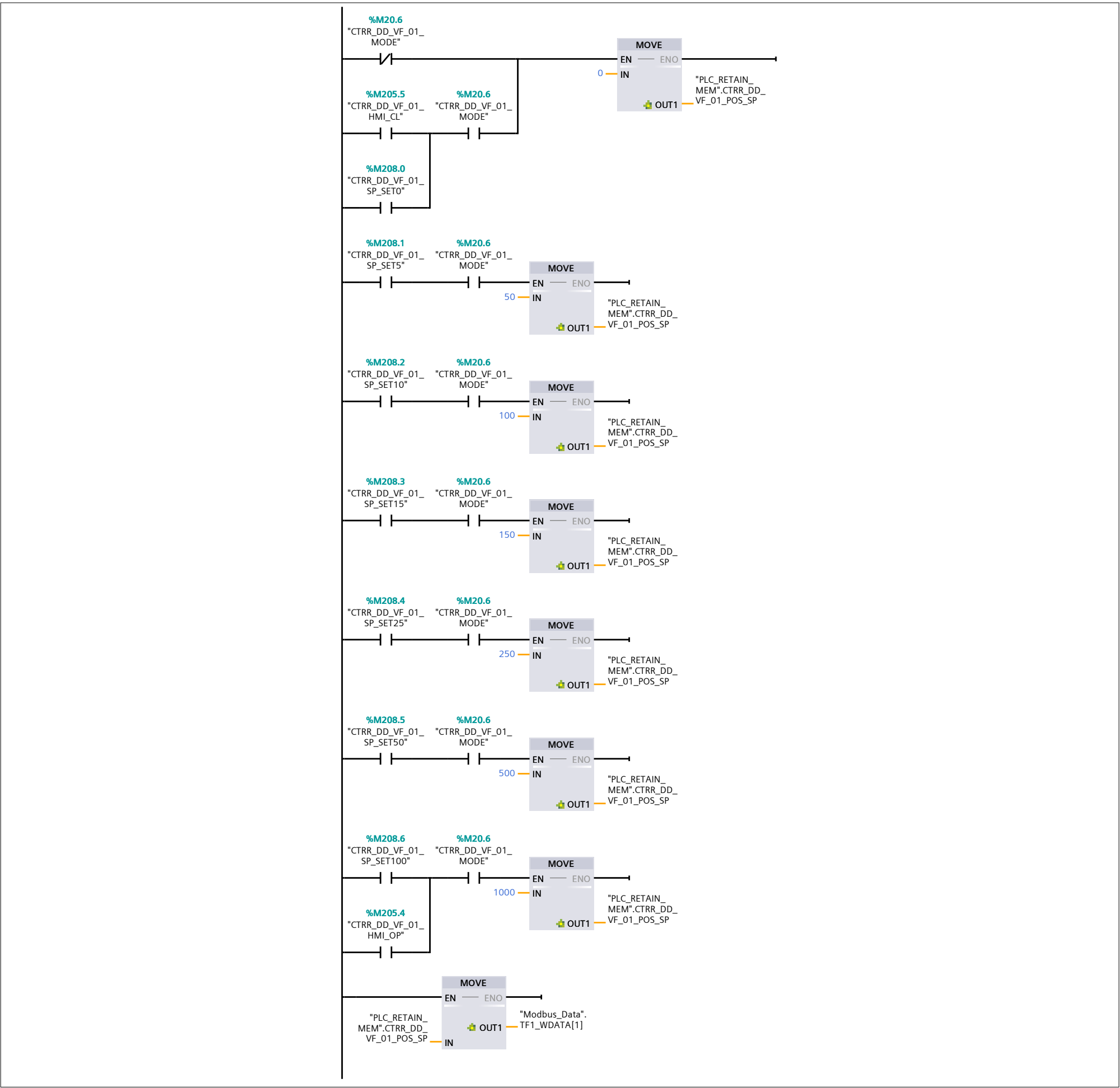
Filling Penstock 1 Pulse Control



Network 9:

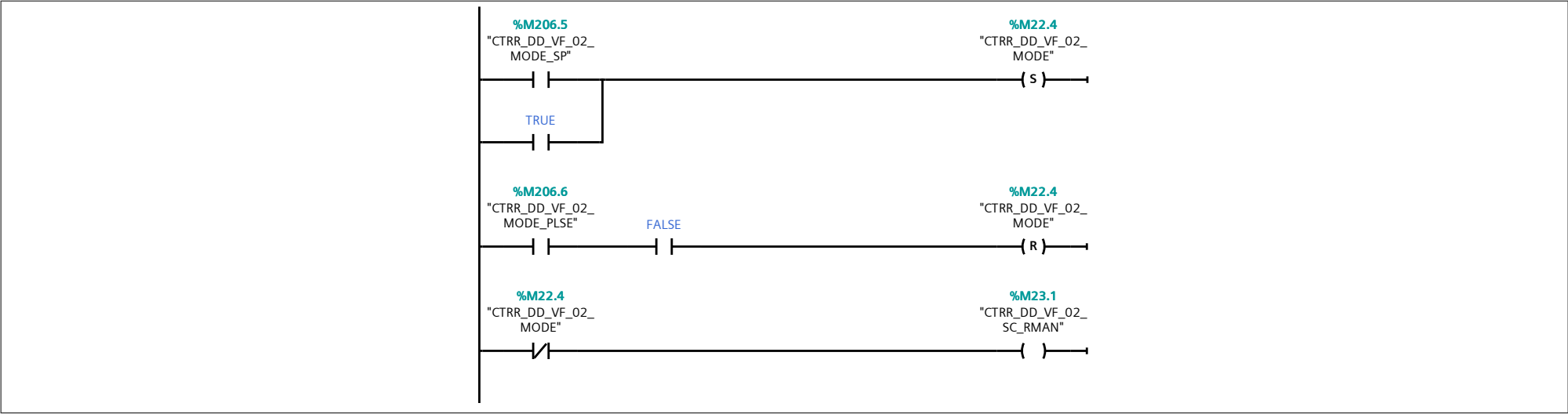
Filling Penstock 1 Setpoint Control

Filling Penstock 1 Setpoint Control



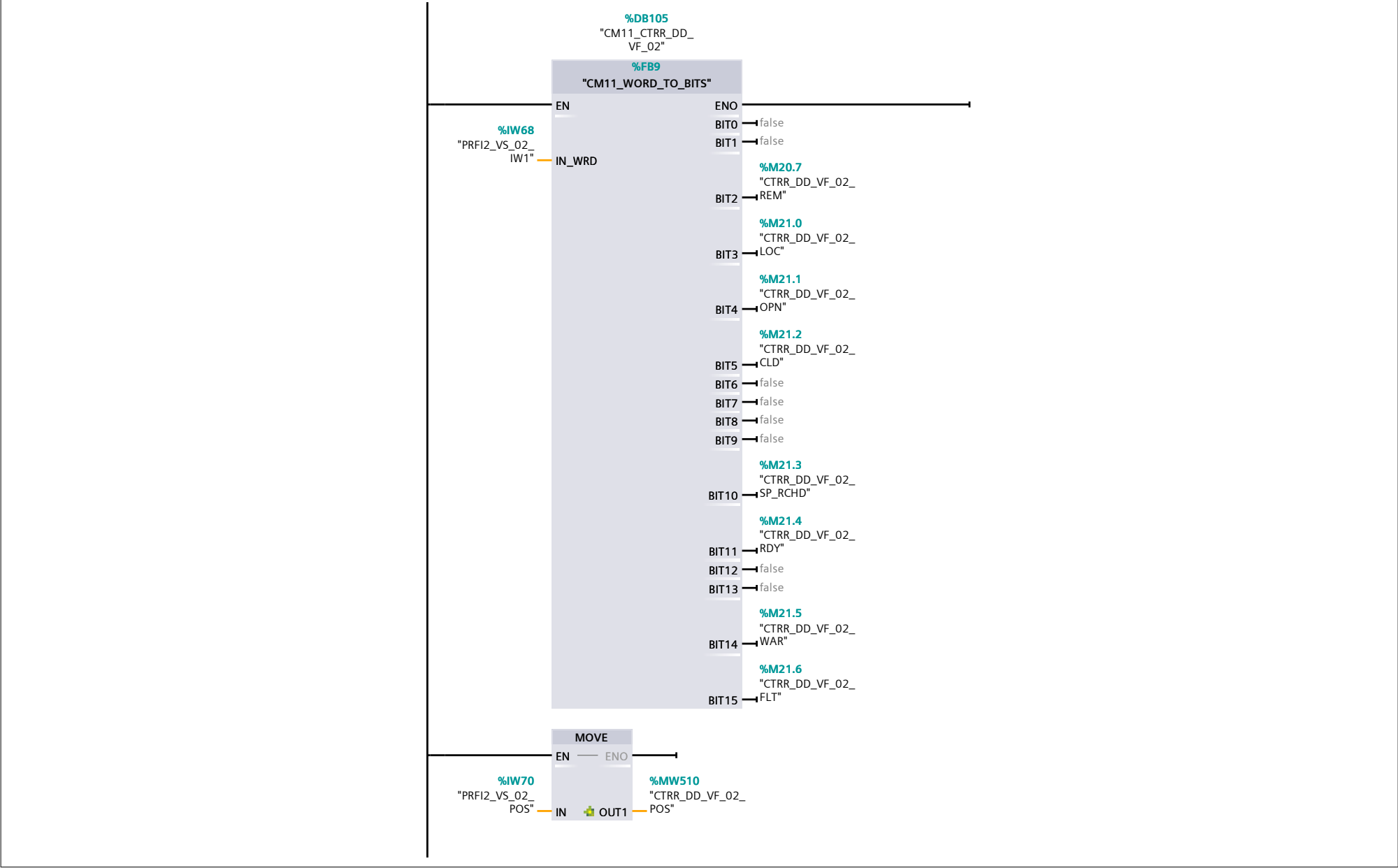
Network 11:

Filling Penstock 2 Starbord



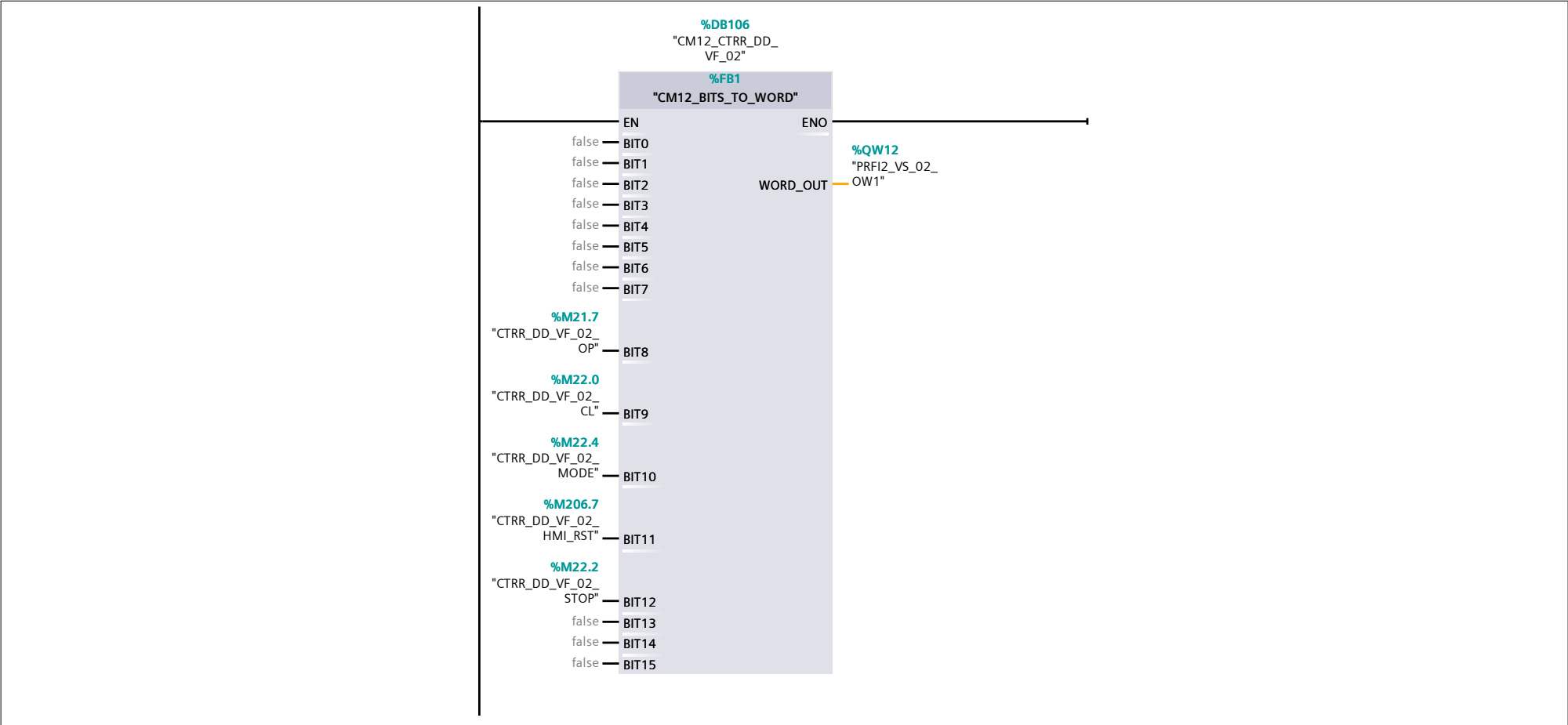
Network 12:

Filling Penstock 2 Port



Network 13:

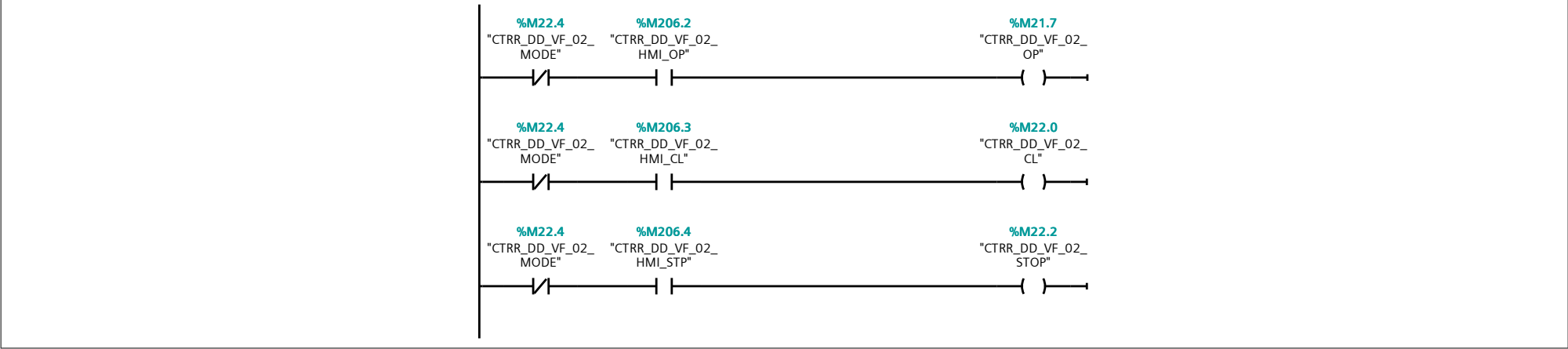
Filling Penstock 2



Network 14:

Filling Penstock 2 Pulse Control

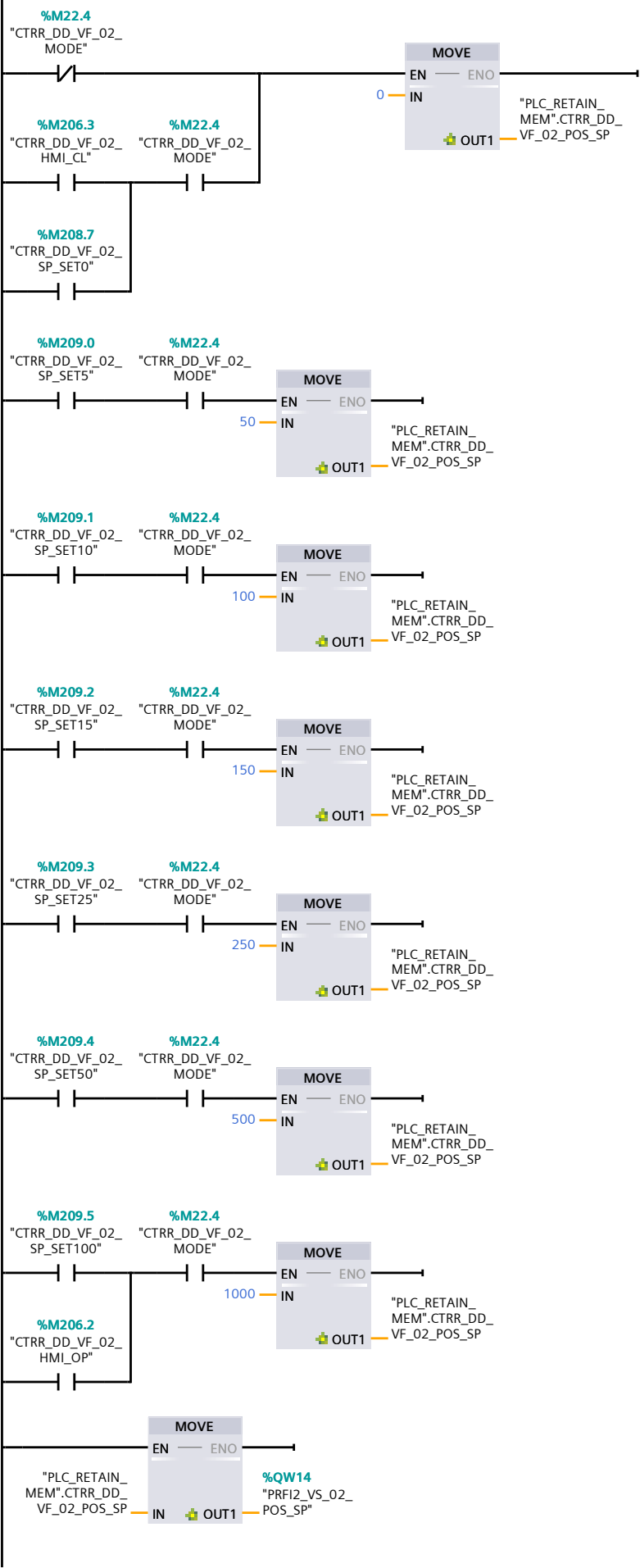
Filling Penstock 2 Pulse Control



Network 15:

Filling Penstock 2 Setpoint Control

Filling Penstock 2 Setpoint Control



Program blocks

DRAINAGE_PUMP_CNTRL [OB128]

DRAINAGE_PUMP_CNTRL Properties

General

Name	DRAINAGE_PUMP_CNTRL	Number	128	Type	OB	Language	LAD
Numbering	Automatic						

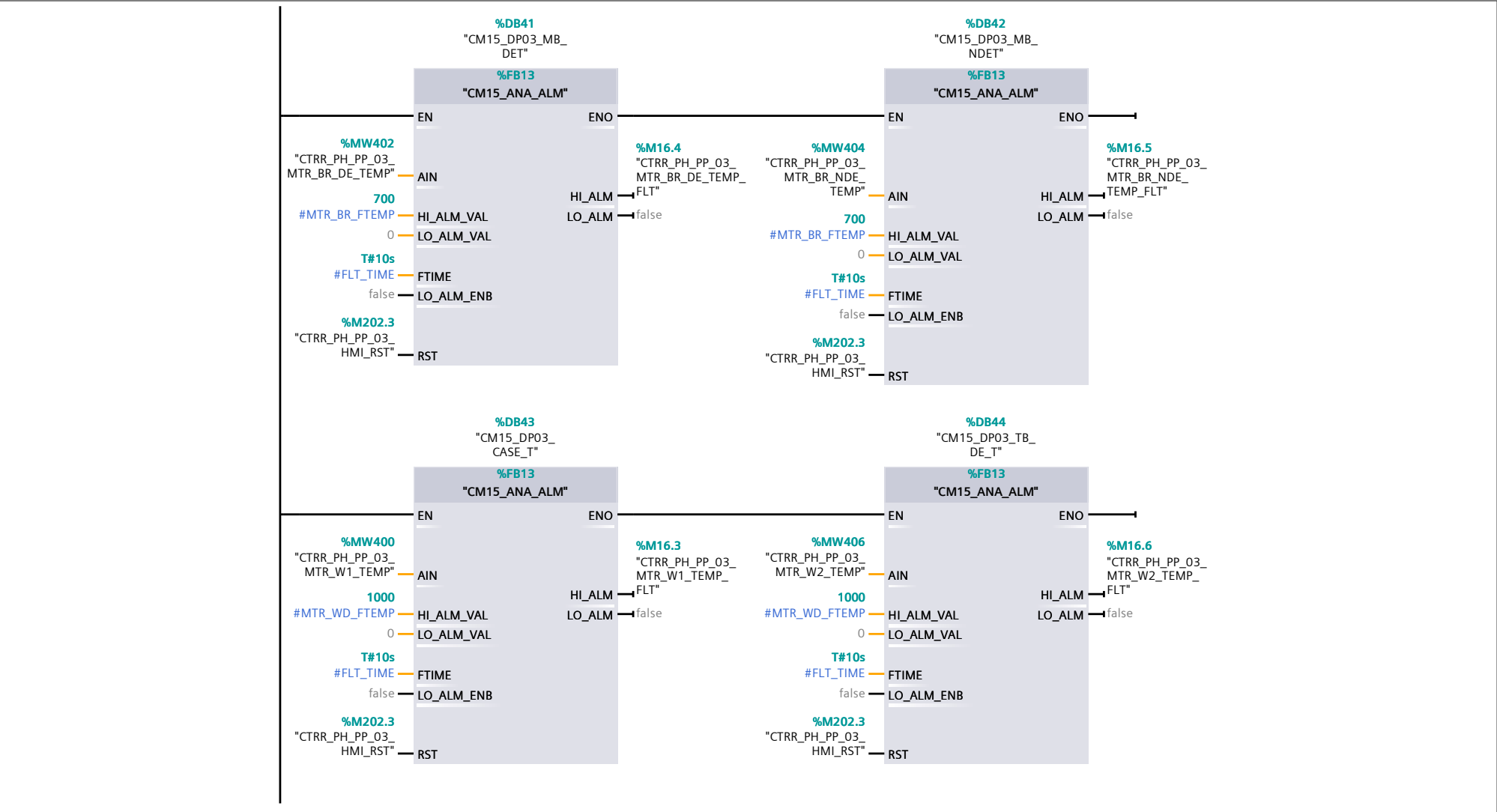
Information

Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
▼ Temp			
CTRR_PH_PP_03_SC_STP_T	Bool		
CTRR_PH_PP_03_SC_STT_T	Bool		
CTRR_PH_PP_04_SC_STT_T	Bool		
CTRR_PH_PP_04_SC_STP_T	Bool		
Temp_1	Time		
RealTemp	Real		
▼ Constant			
MTR_BR_FTEMP	UInt	700	
MTR_WD_FTEMP	UInt	1000	
PMP_FVIB	UInt	200	
NF_TIME	Time	T#30s	
FLT_TIME	Time	T#10s	
VIB_TIME	Time	T#10s	

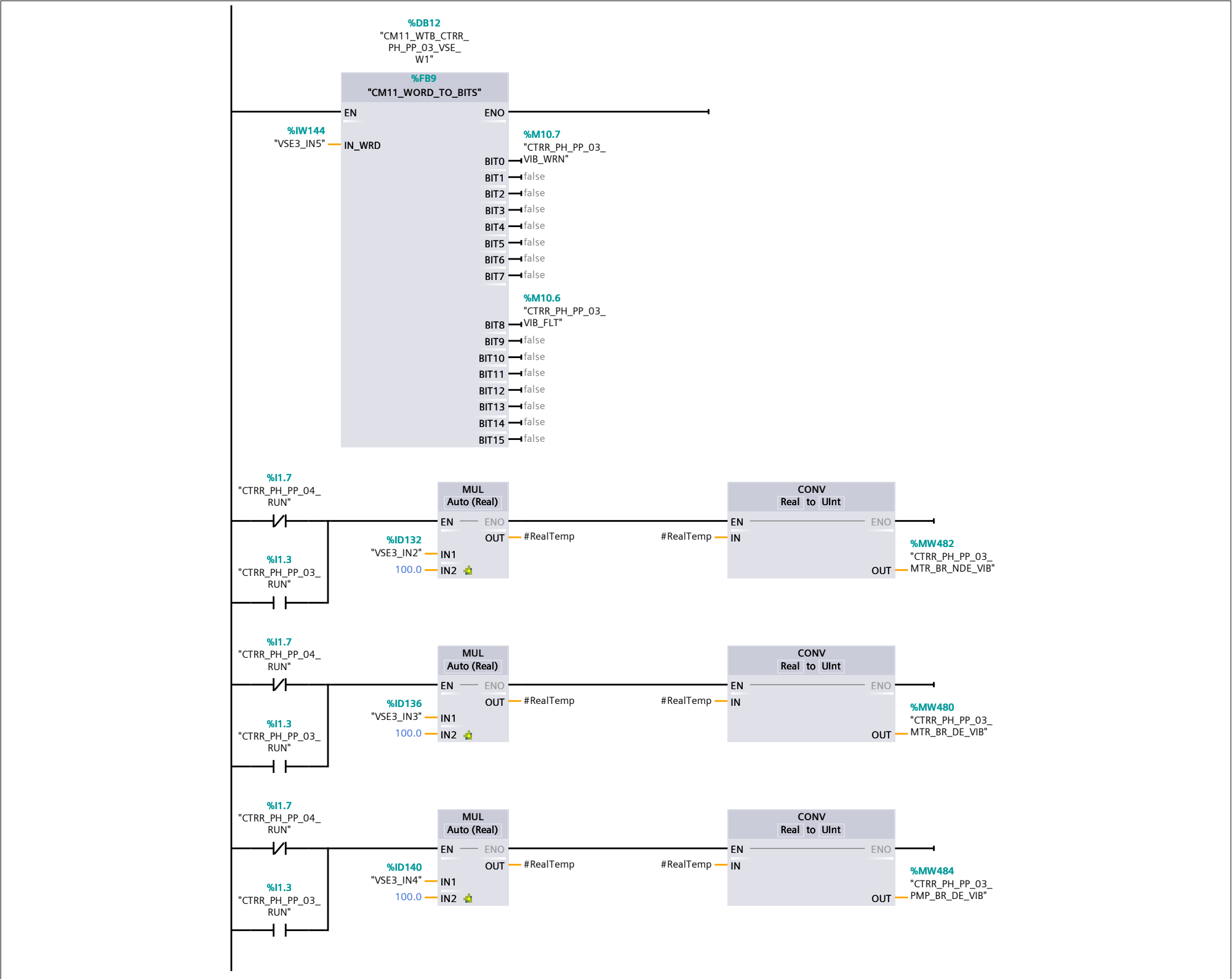
Network 1:

Drainage Pump 3 Temperature Interlocks



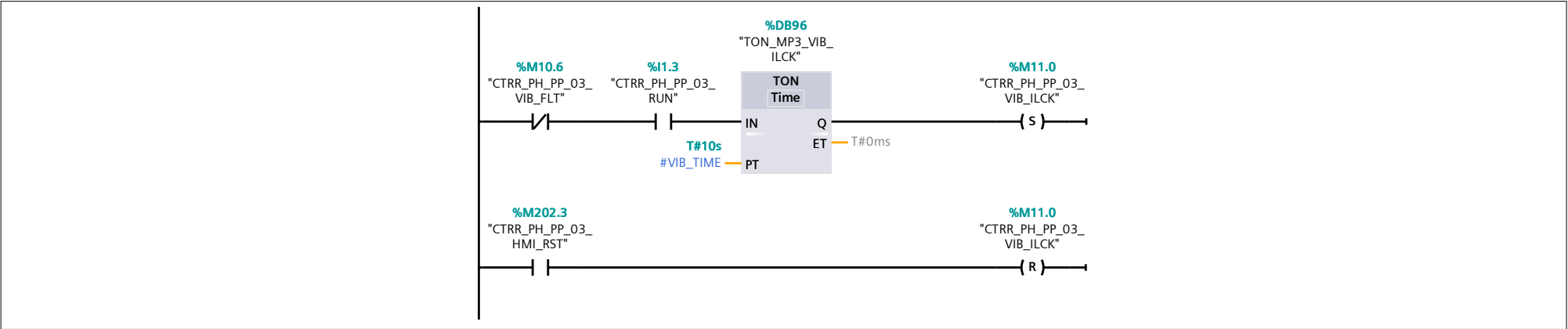
Network 2:

Drainage Pump 3 VSE Data



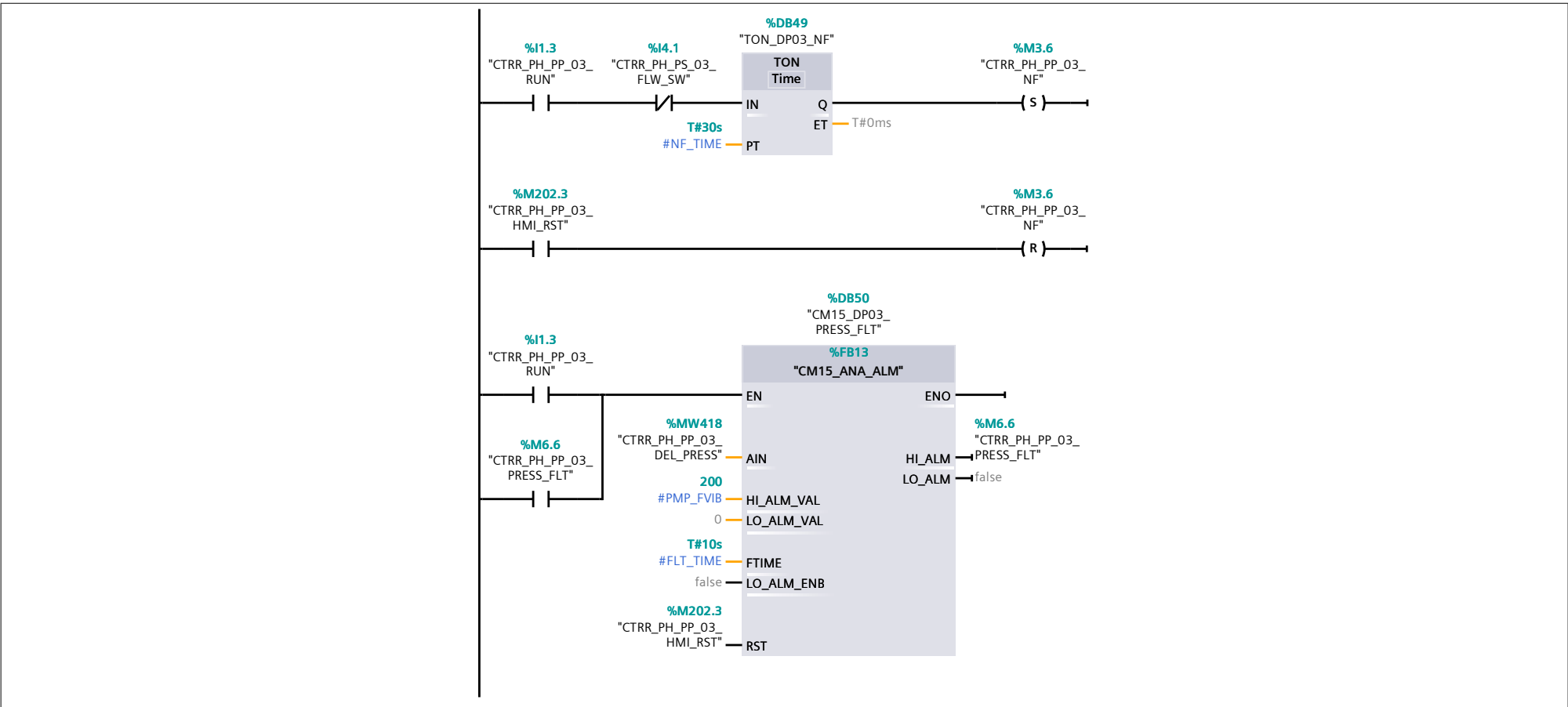
Network 3:

Drainage Pump 3 Vibration Interlocks



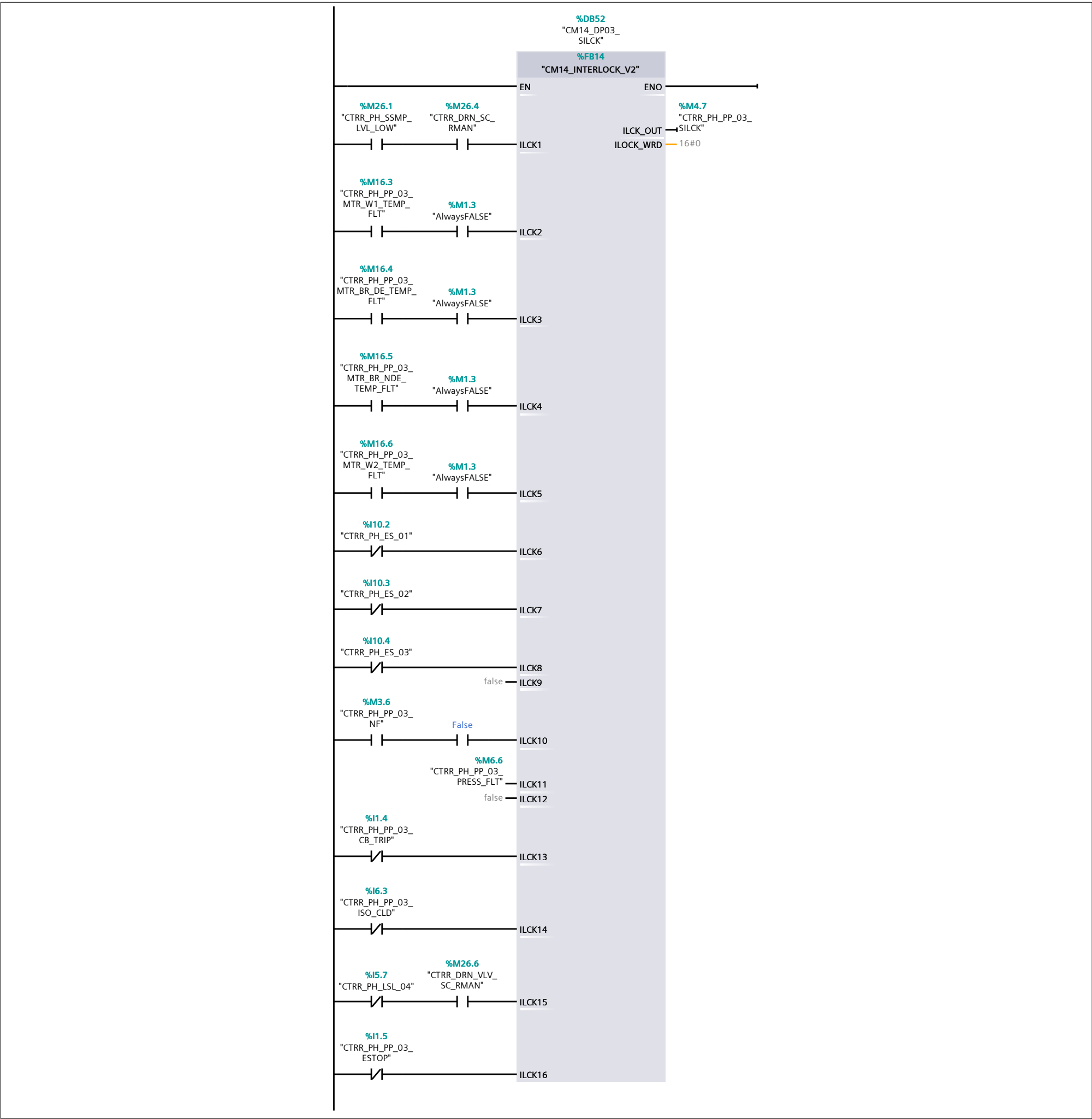
Network 4:

Drainage Pump 3 No Flow and Overpressure Interlocks

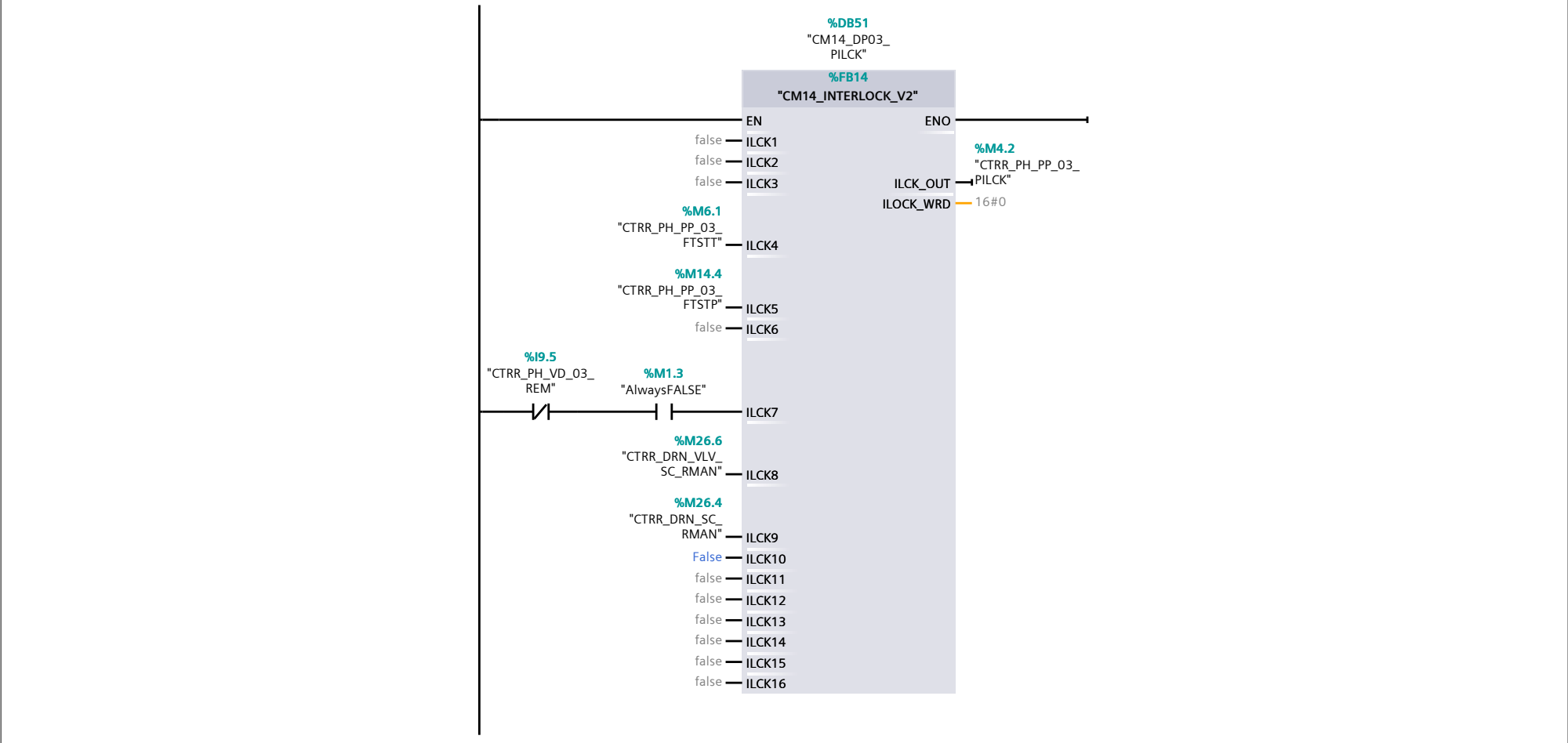


Network 5: Add alway off Aj 24 Jan 25 Int 2-5

Drainage Pump 3 Safety Interlocks

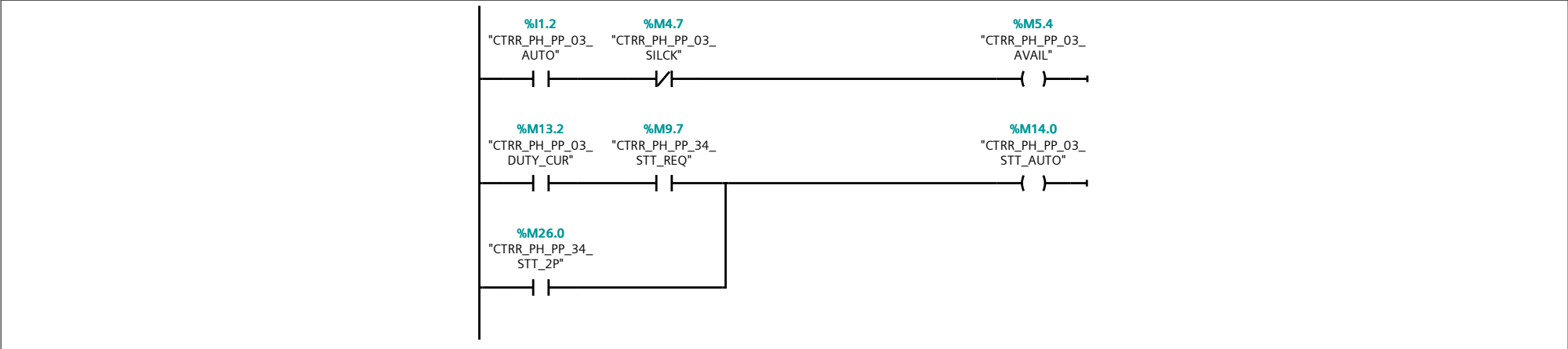


Drainage Pump 3 Process Interlocks



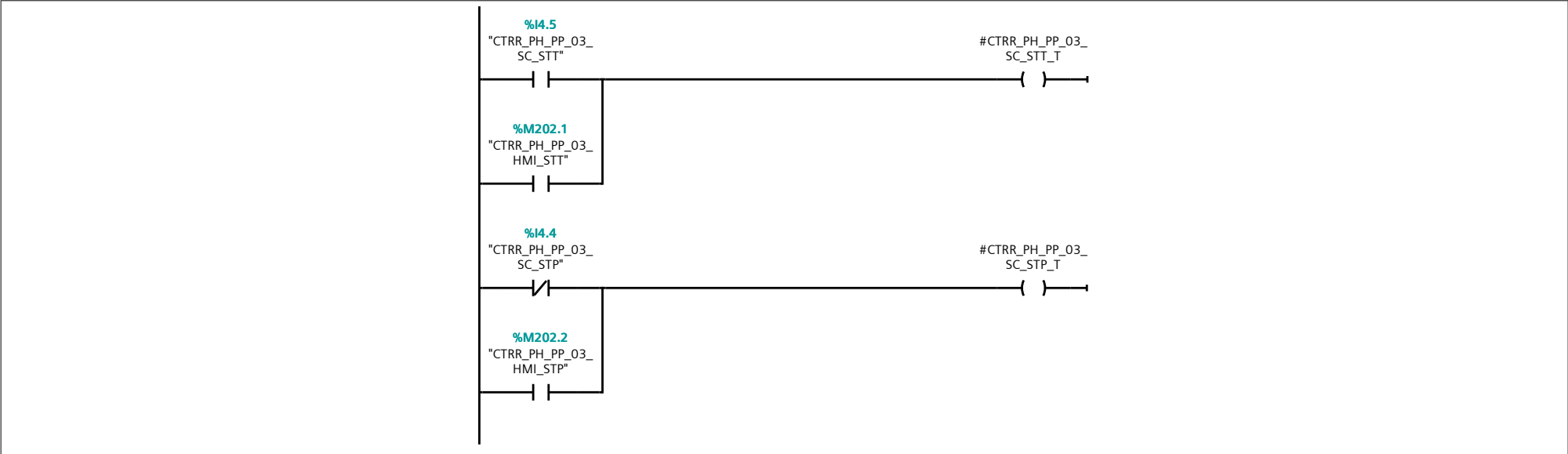
Network 7:

Drainage pump 3 Available and Auto Start



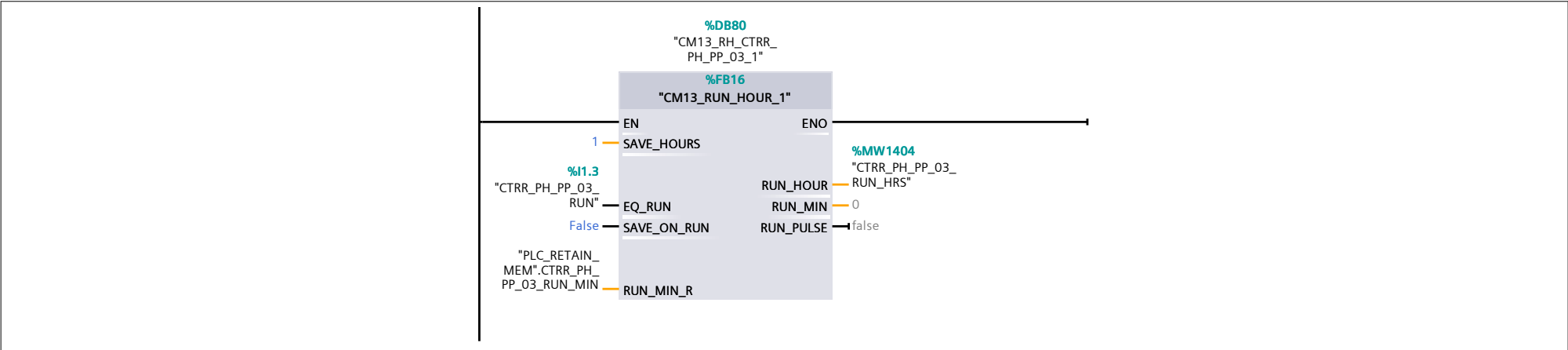
Network 8:

Remote Manual Drainage Pump 3



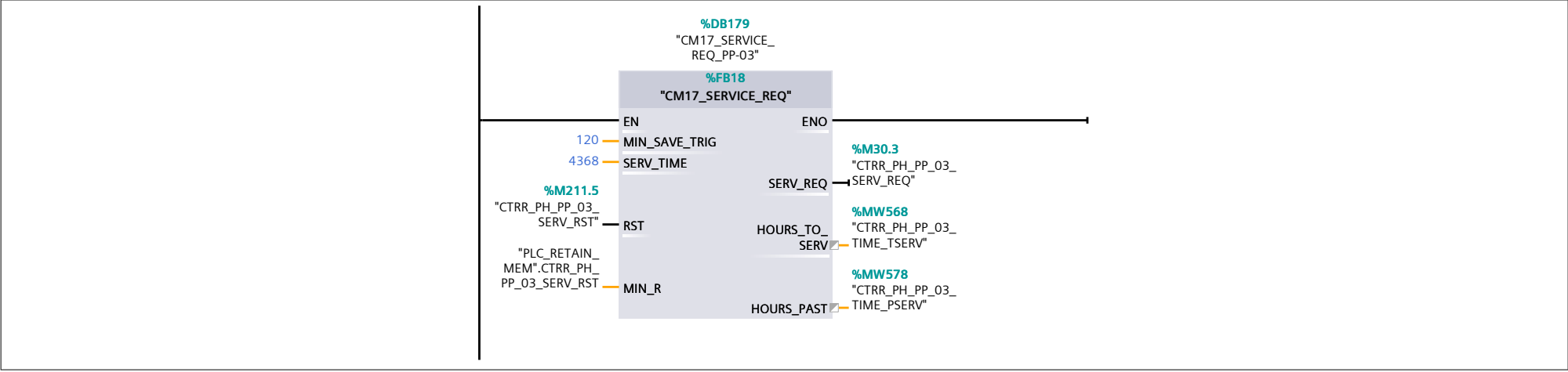
Network 9:

Drainage Pump 3 Run Hours



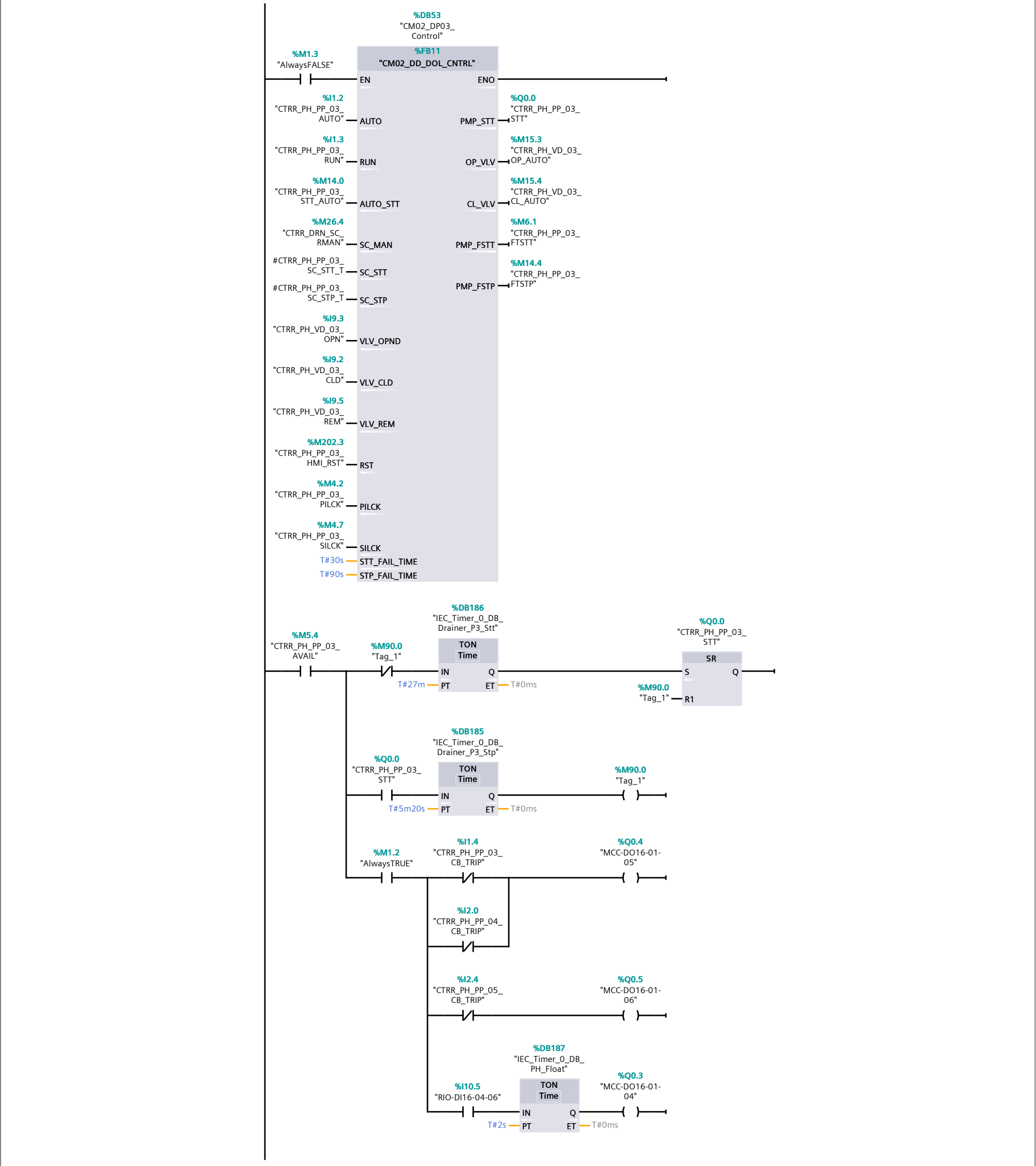
Network 10:

Main Pump 4 Service Counter



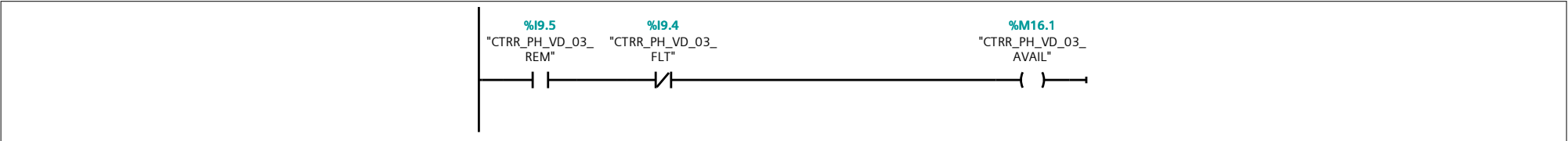
Network 11:

Drainage Pump 3 Control Block



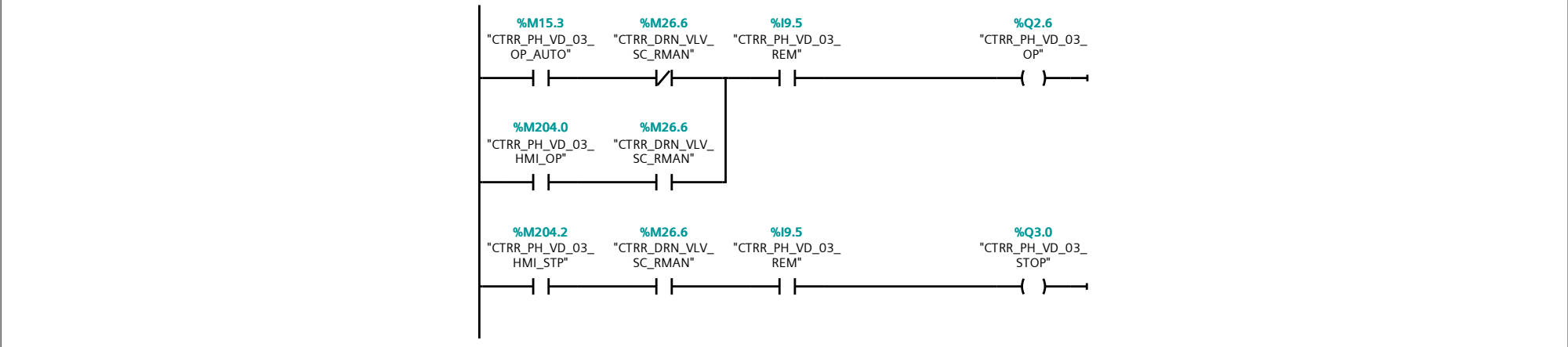
Network 12:

Drainage Pump 3 Valve Available



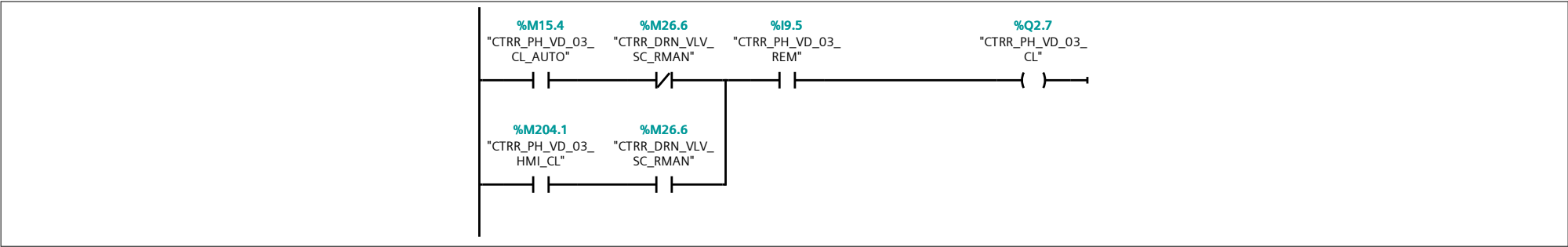
Network 13:

Drainage Pump 3 Valve Open Control



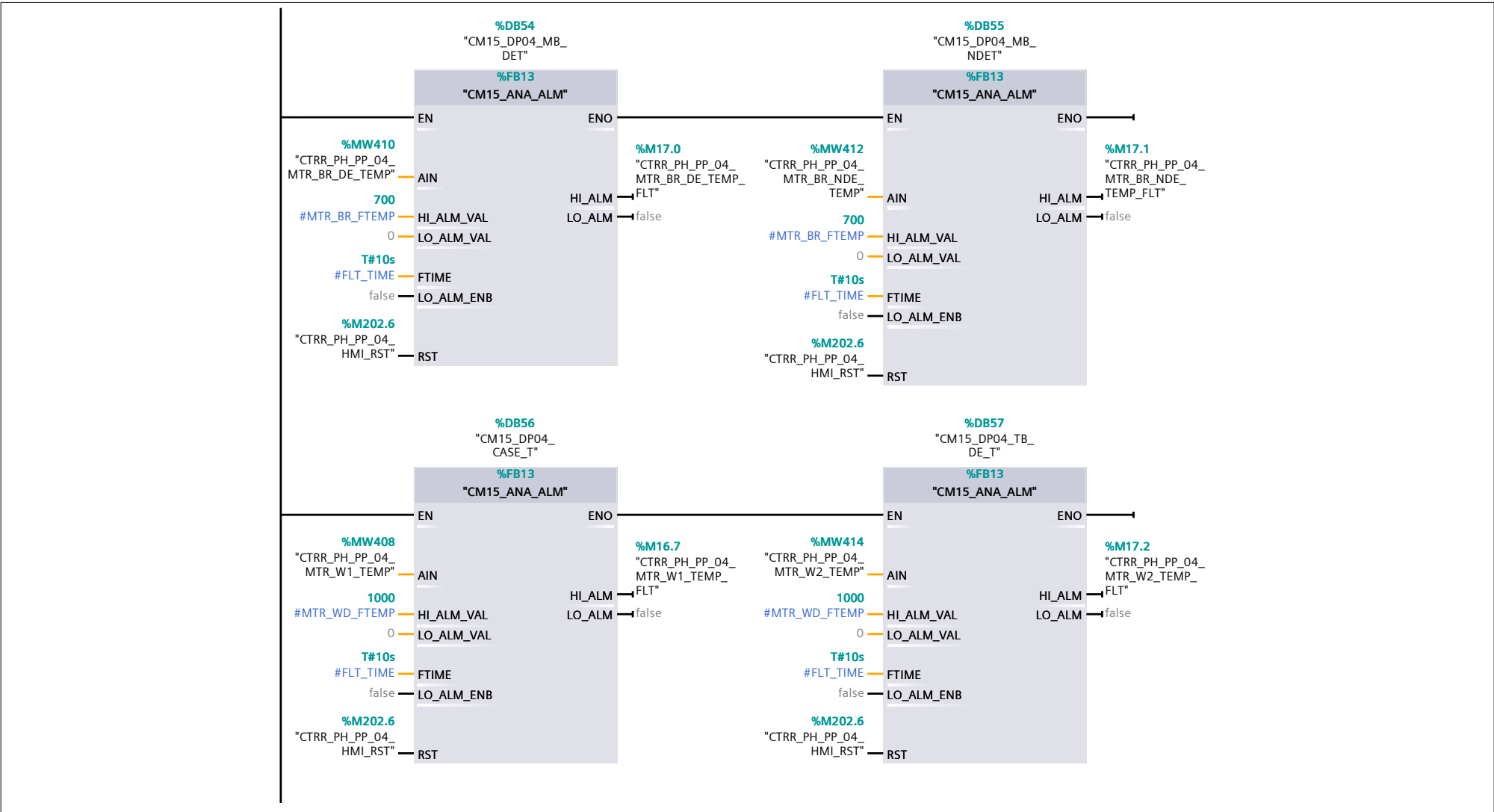
Network 14:

Drainage Pump 3 Valve Close Control



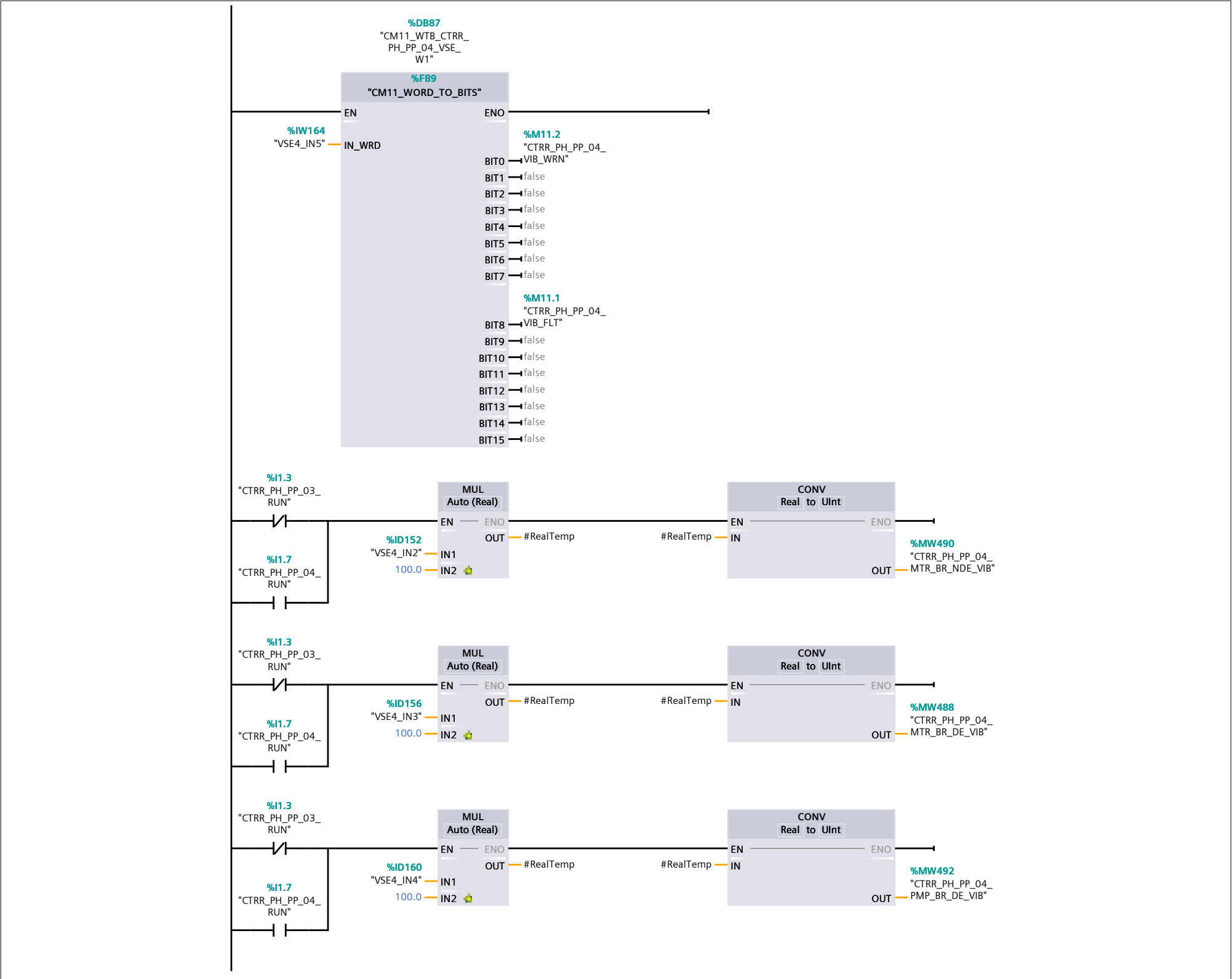
Network 16:

Drainage Pump 4 Temperature Interlocks



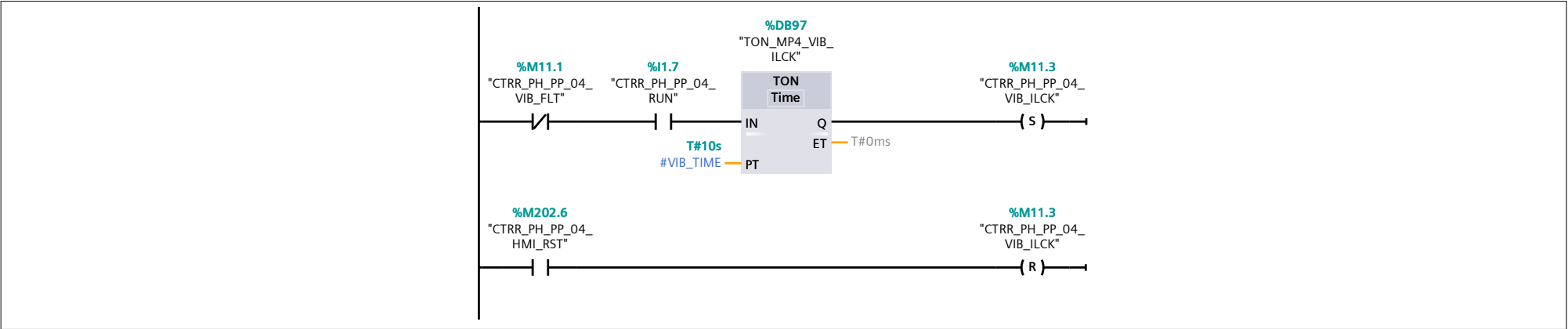
Network 17:

Drainage Pump 4 VSE Data



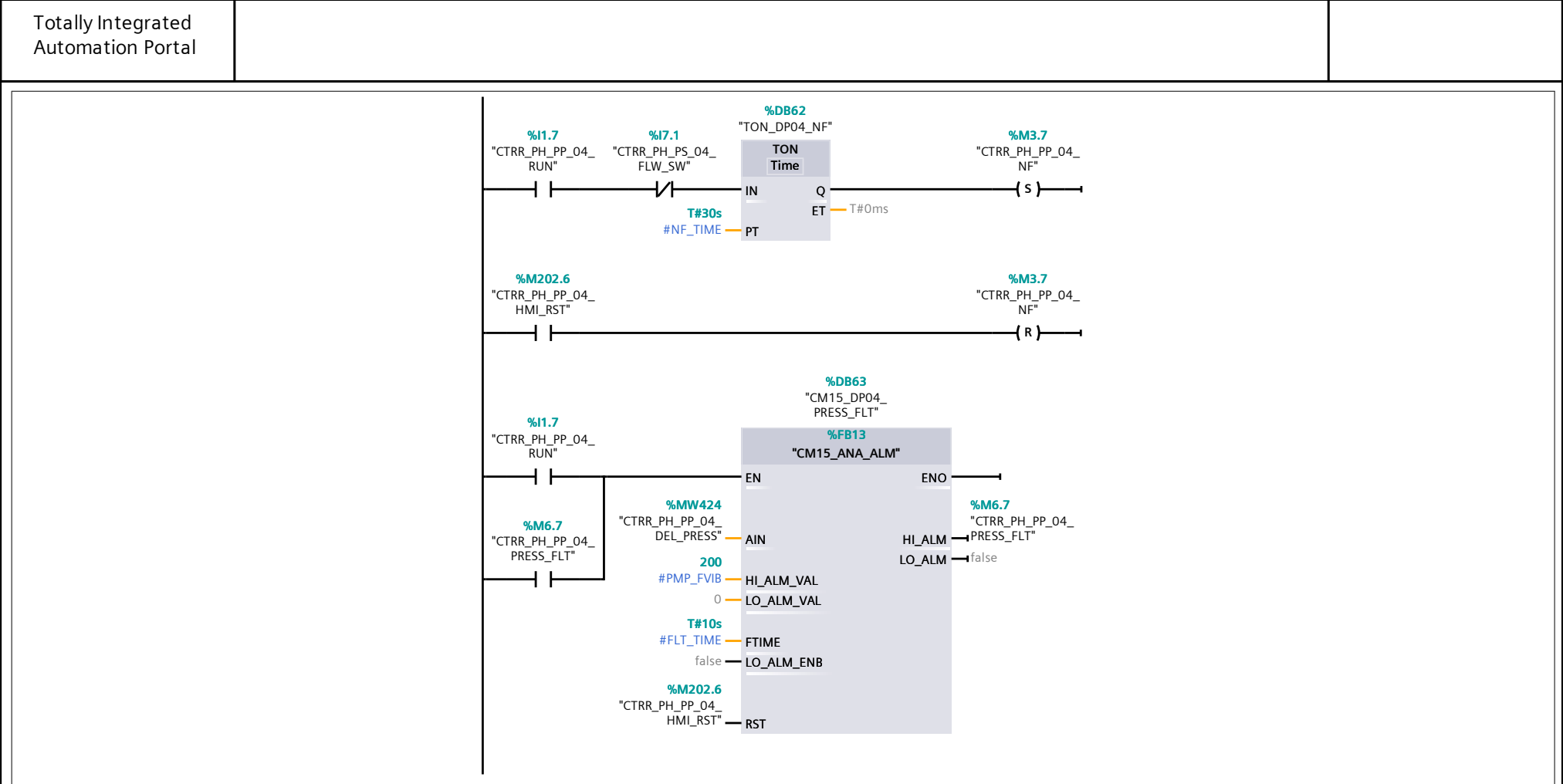
Network 18:

Drainage Pump 4 Vibration Interlocks



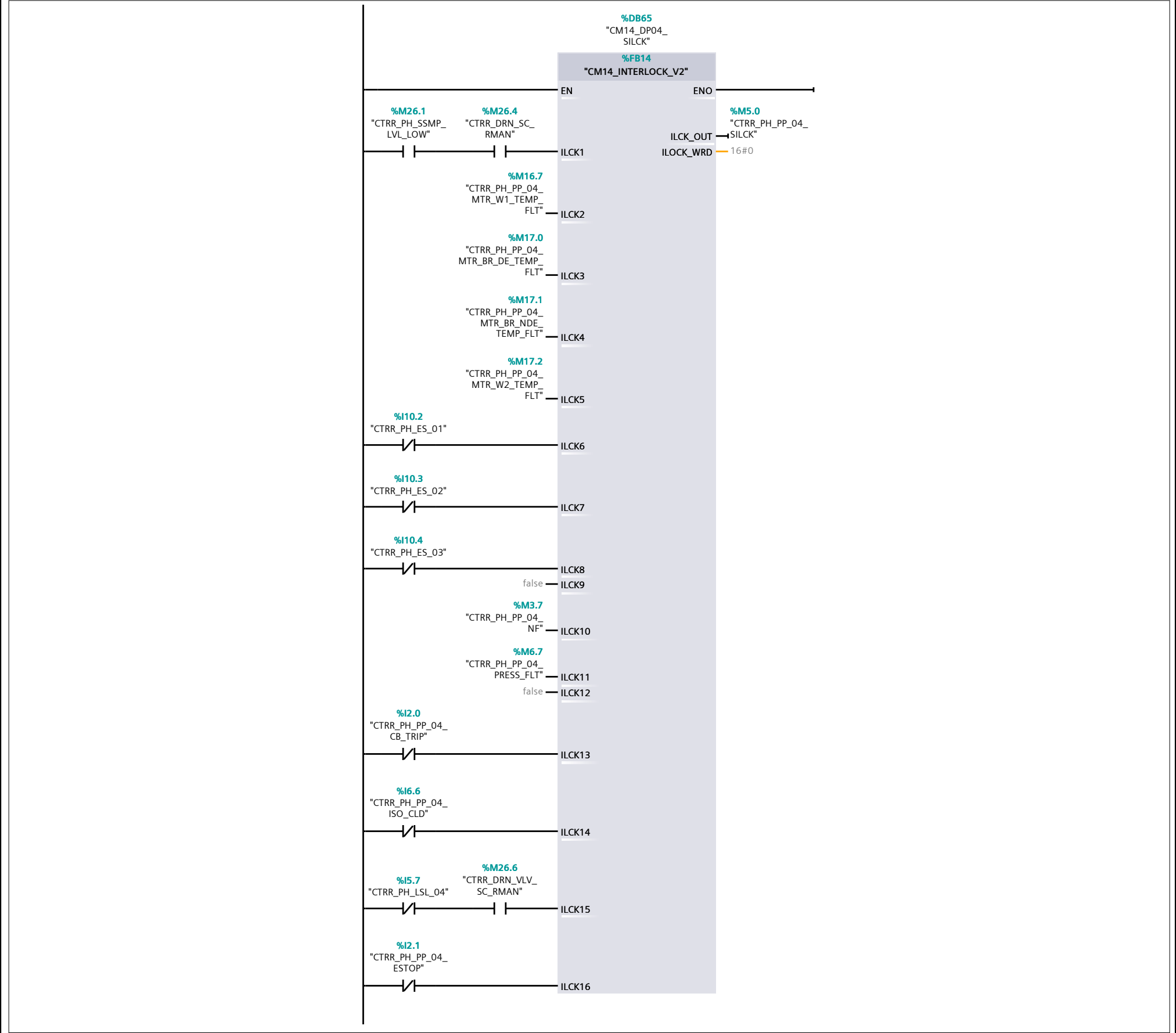
Network 19:

Drainage Pump 4 No Flow and Overpressure Interlocks

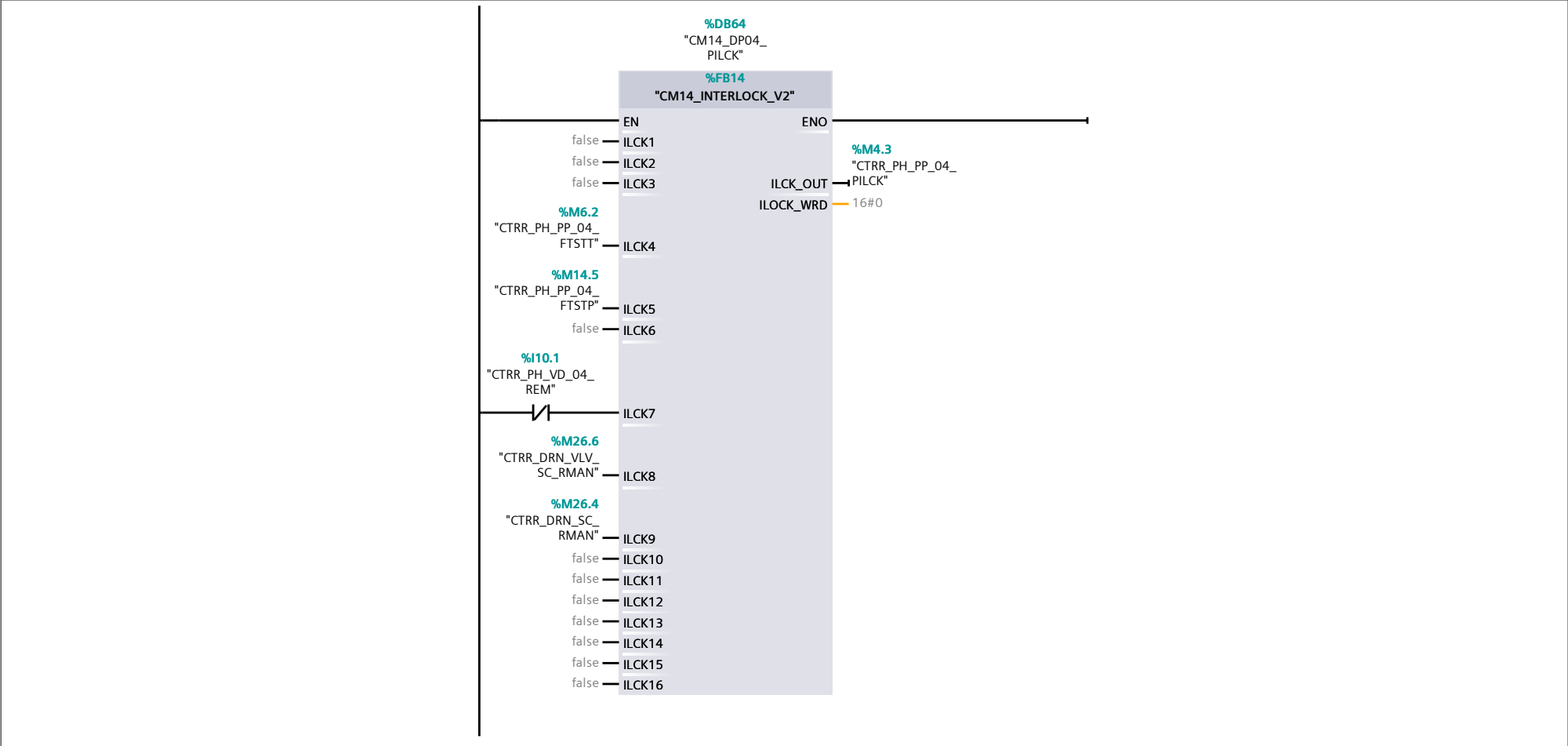


Network 20:

Drainage Pump 4 Interlocks

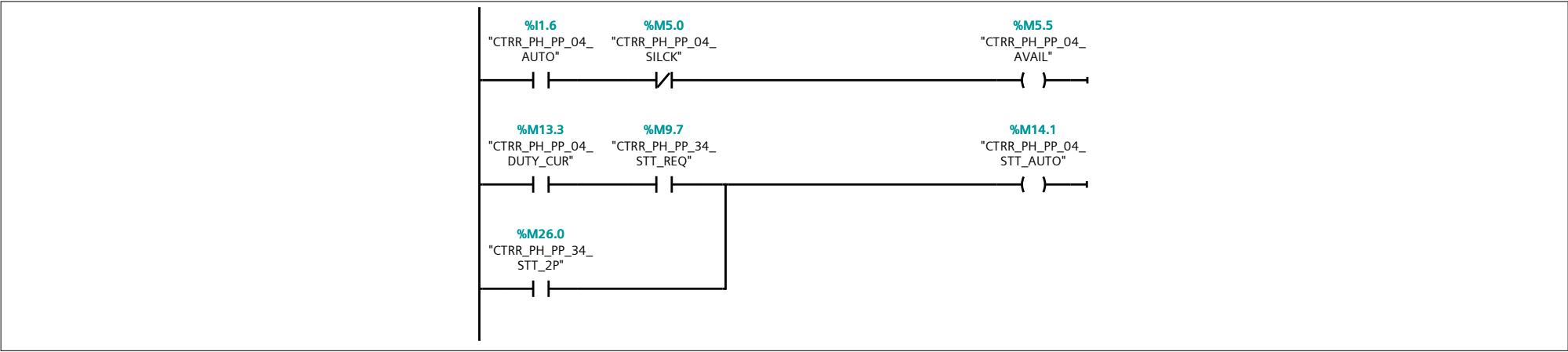


Network 21:



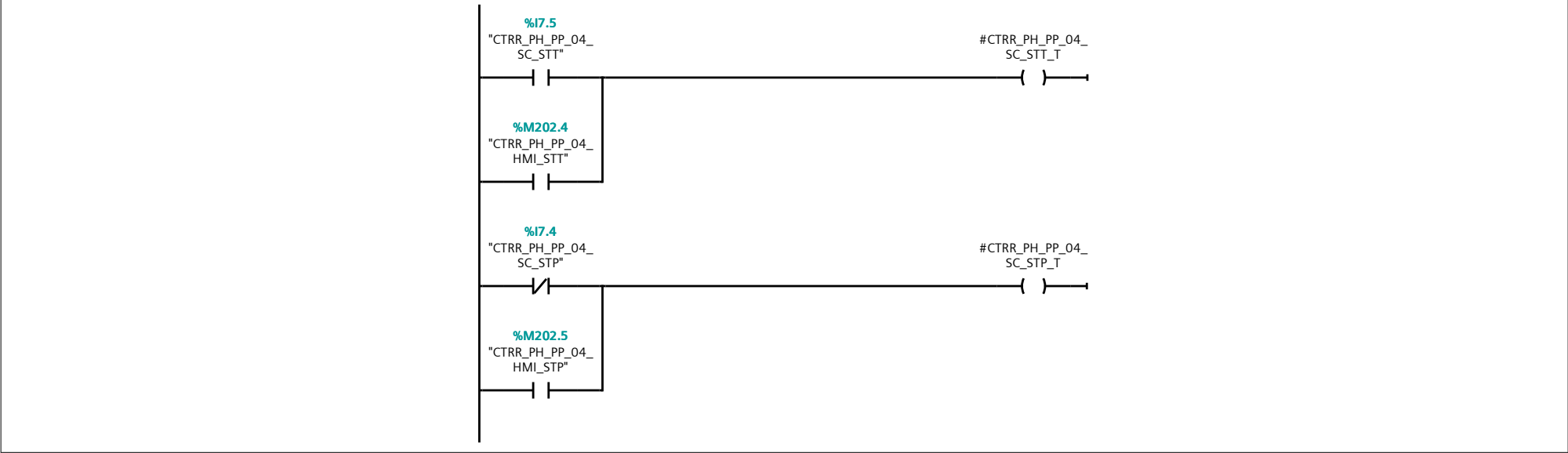
Network 22:

Drainage pump 4 Available and Auto Start



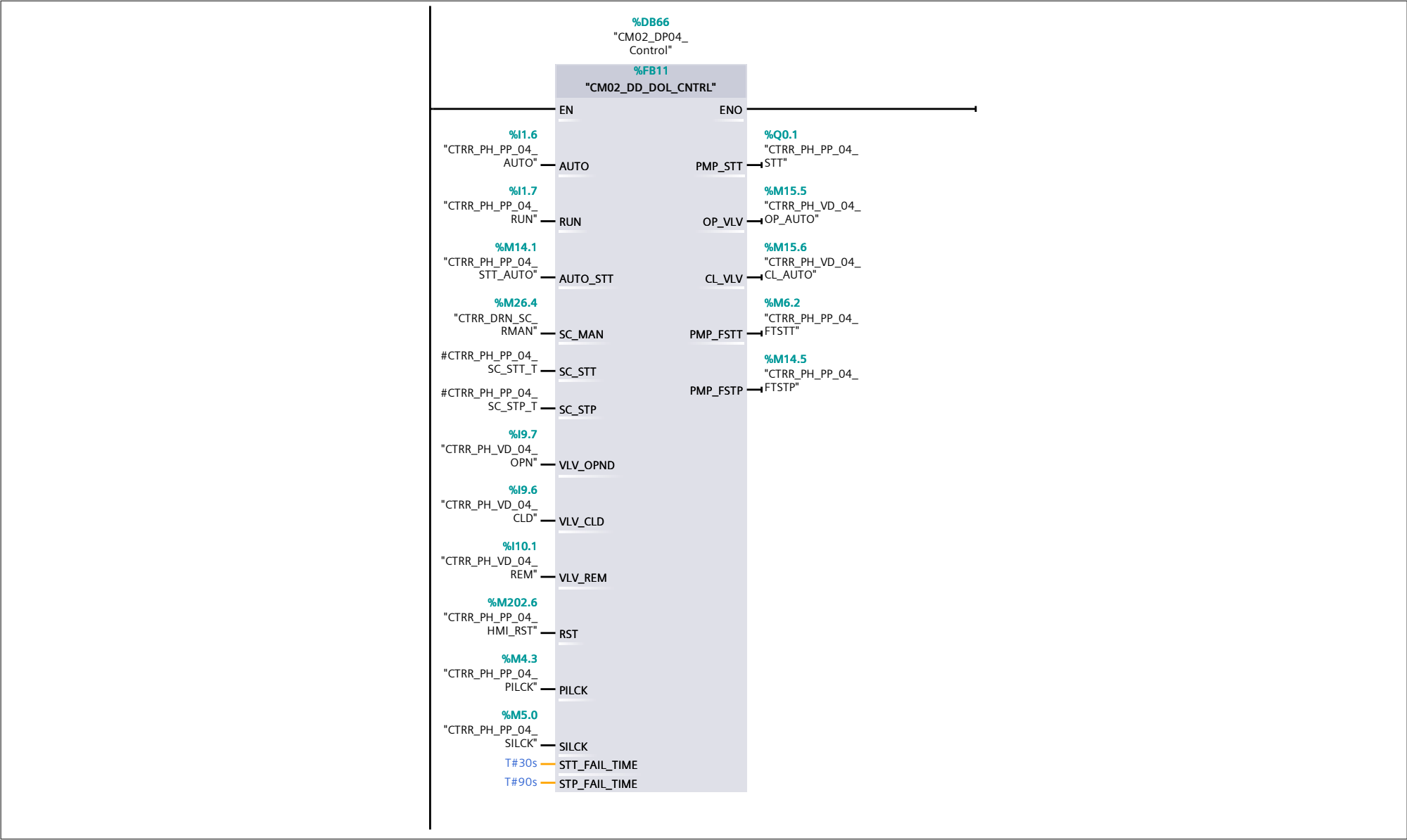
Network 23:

Remote Manual Drainage Pump 4



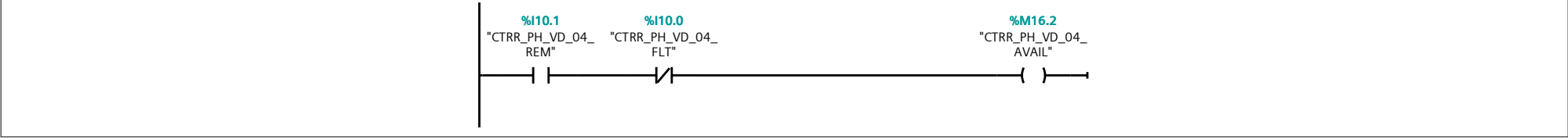
Network 24:

Drainage Pump 4 Control Block



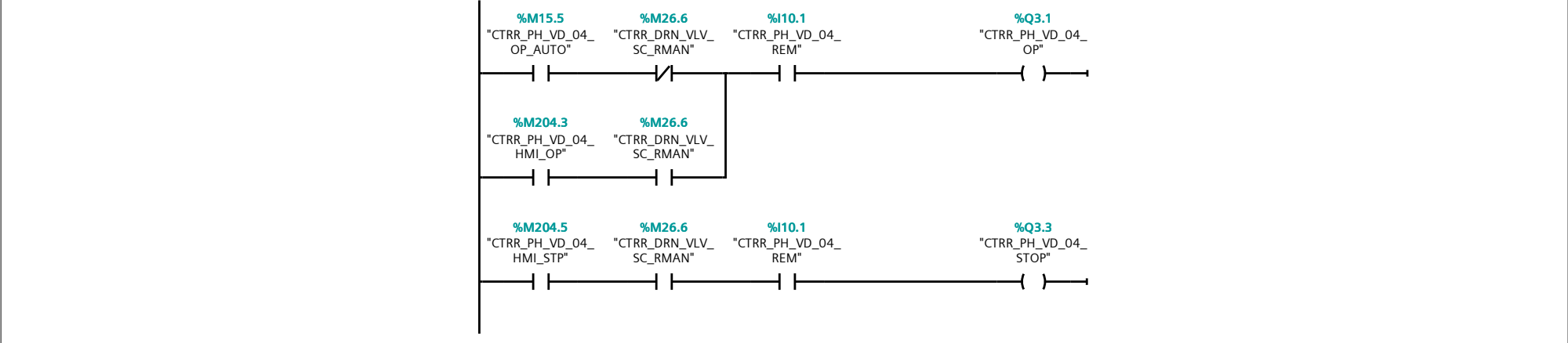
Network 25:

Drainage Pump 4 Valve Available



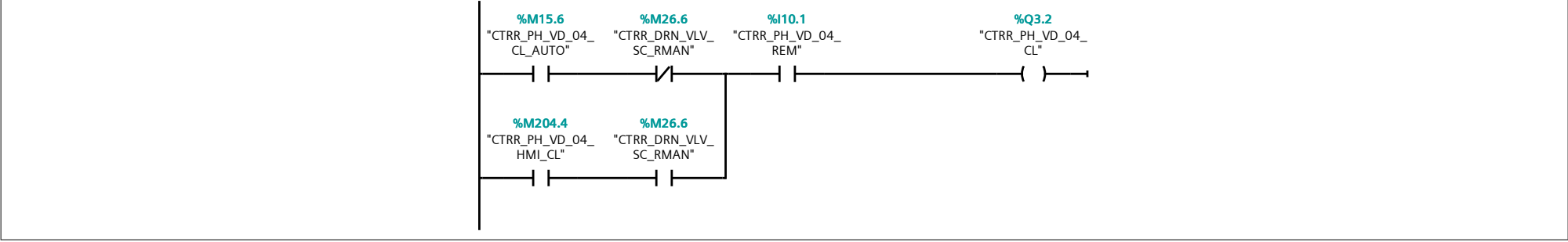
Network 26:

Drainage Pump 4 Valve Open Control



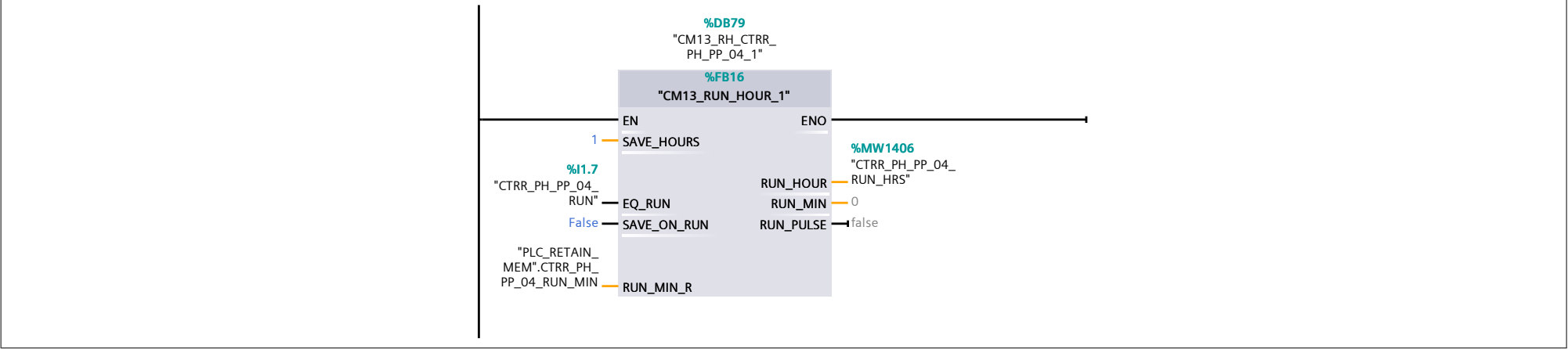
Network 27:

Drainage Pump 4 Valve Close Control



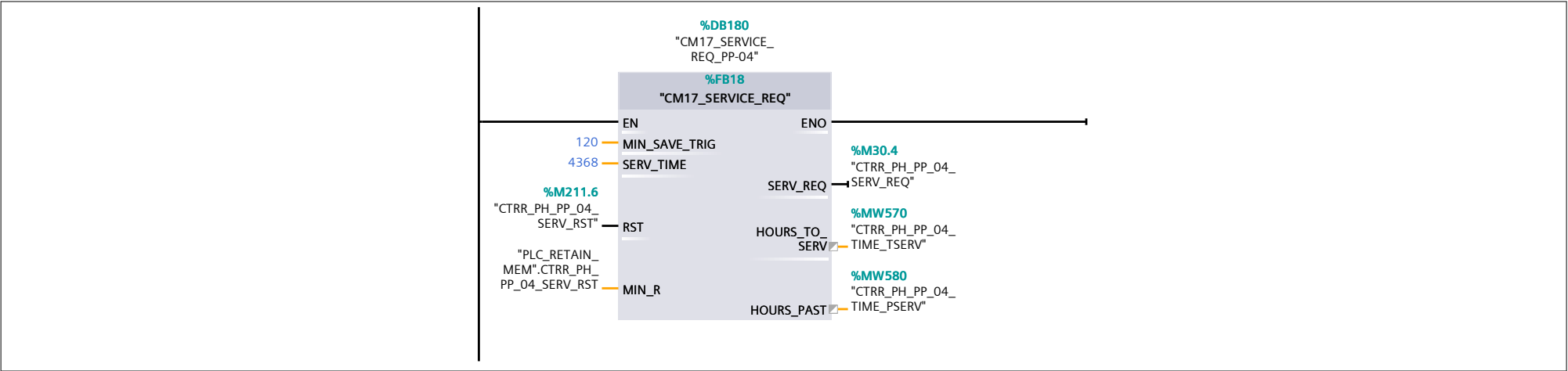
Network 28:

Drainage Pump 4 Run Hours



Network 29:

Main Pump 4 Service Counter



Totally Integrated Automation Portal

Program blocks

System_Alarms [OB130]

System_Alarms Properties

General

Name	System_Alarms	Number	130	Type	OB	Language	LAD
Numbering	Automatic						

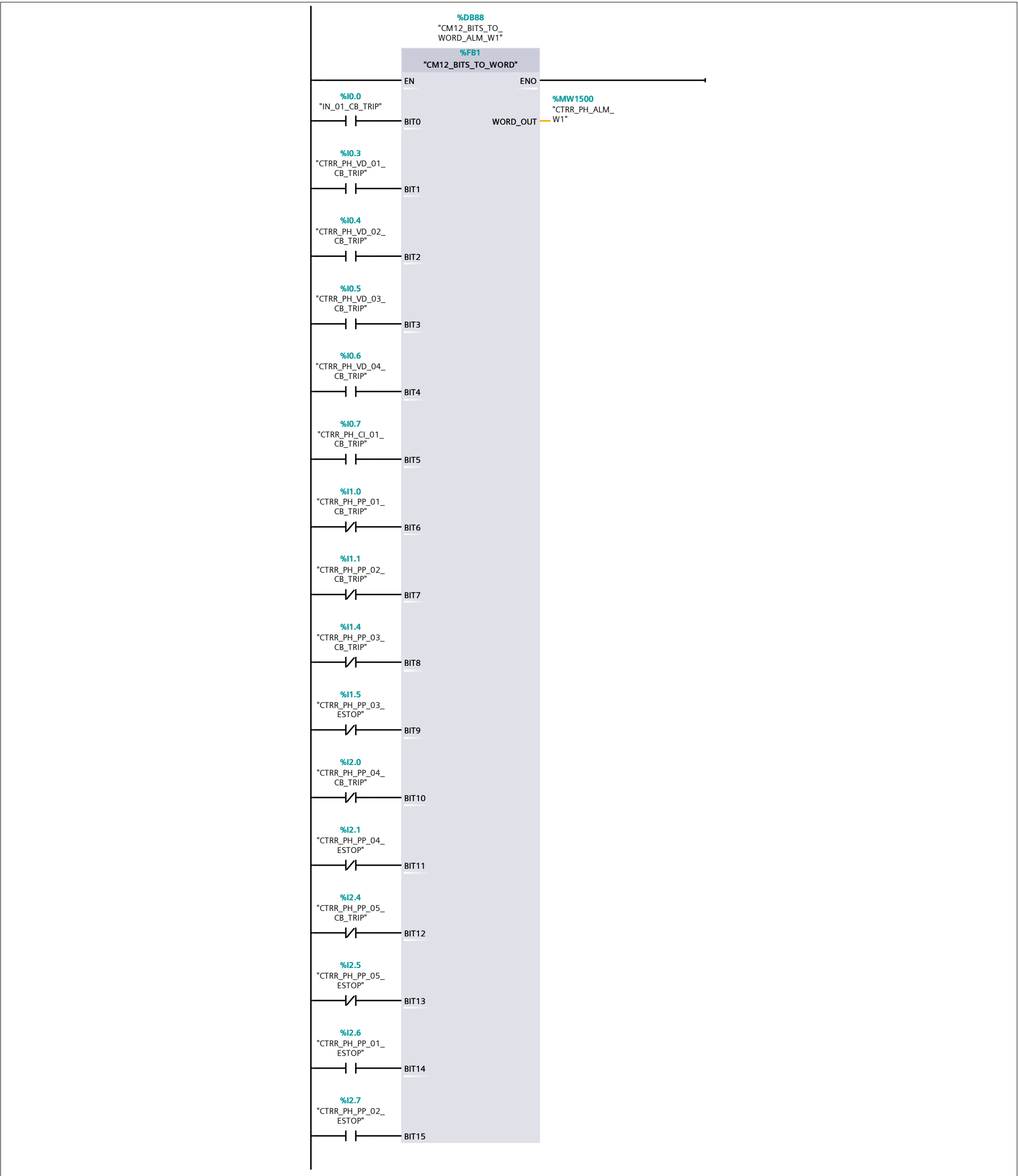
Information

Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

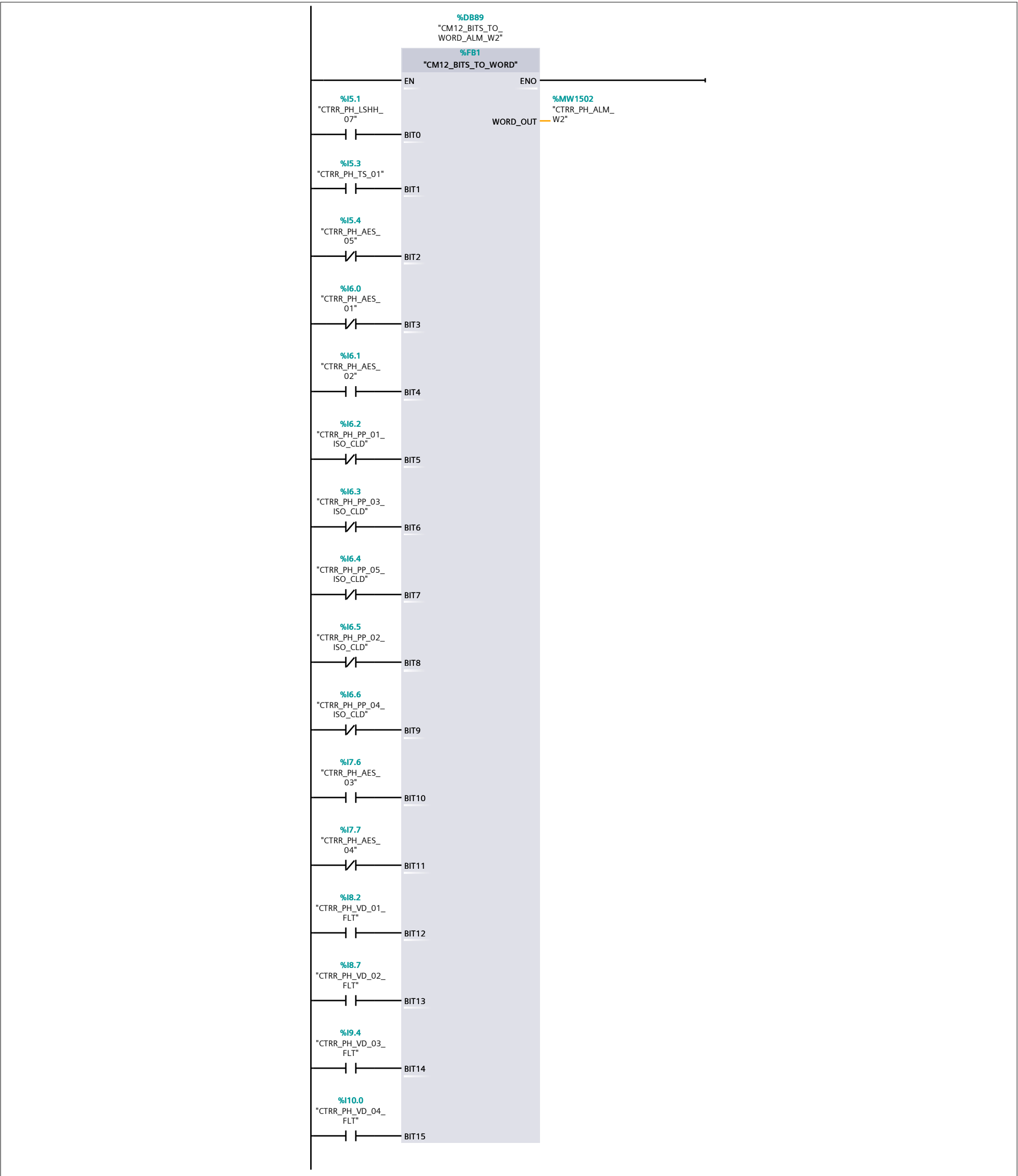
Network 1:

Alarm Word 1



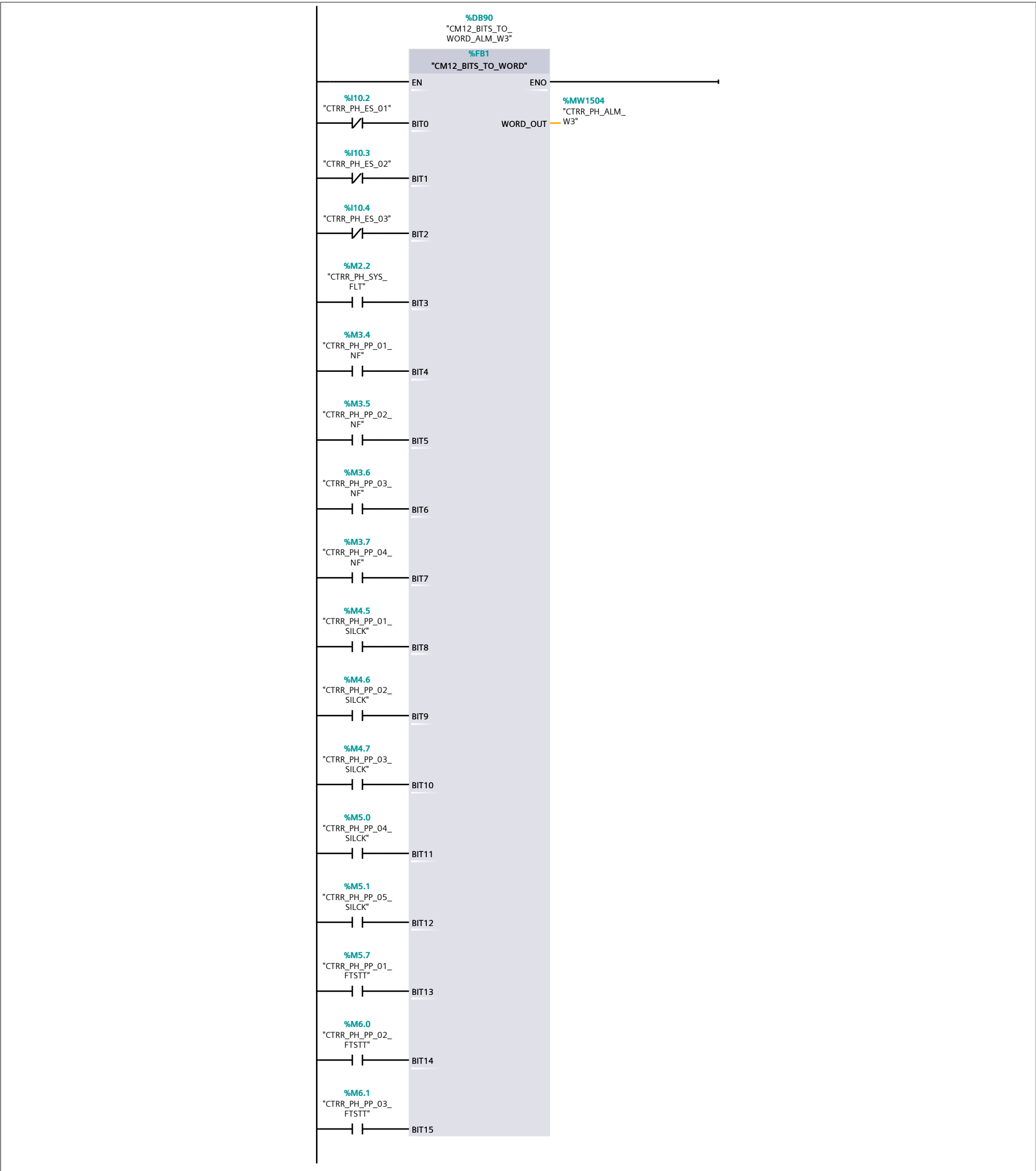
Network 2:

Alarm Word 2



Network 3:

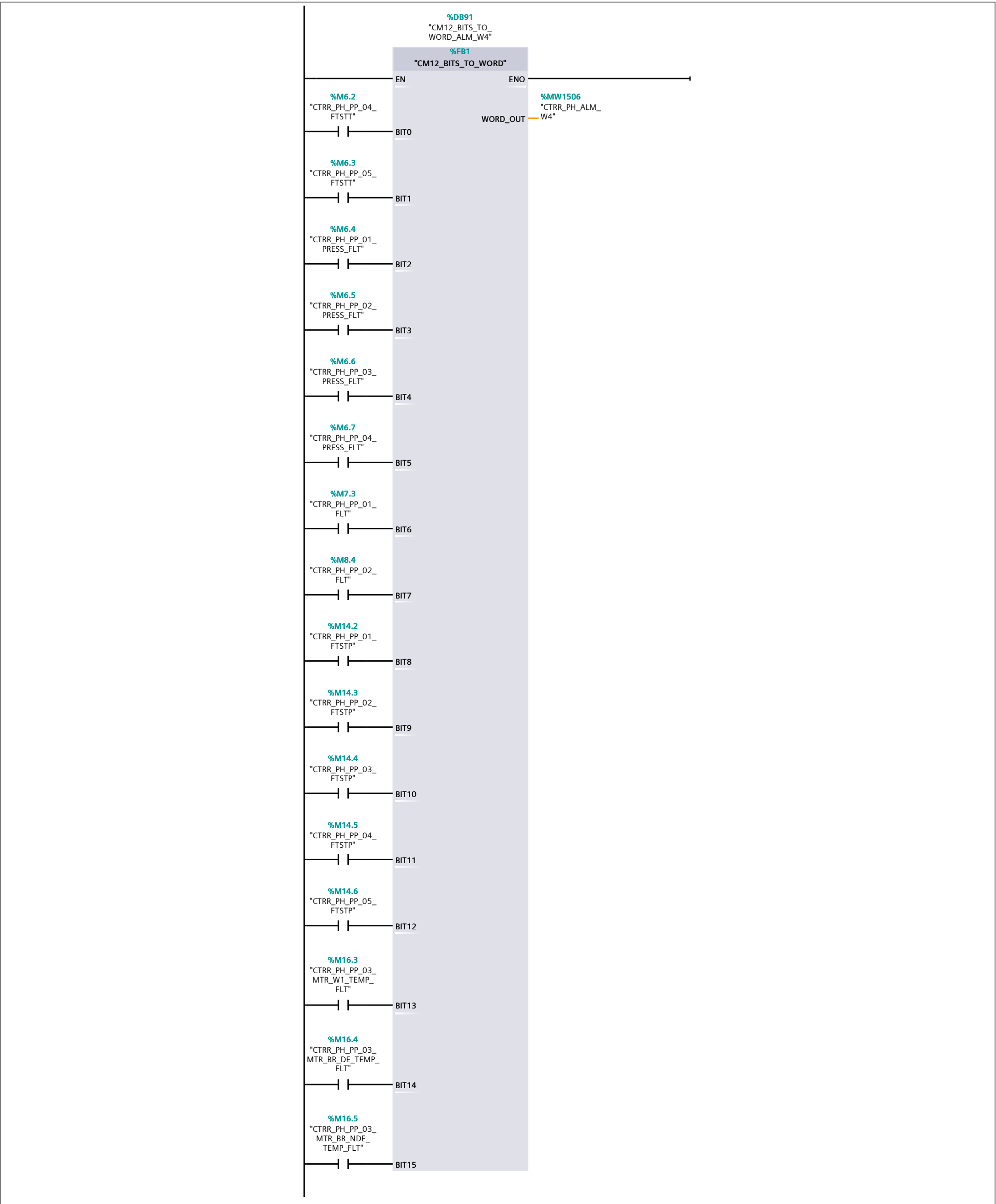
Alarm Word 3



Network 4:

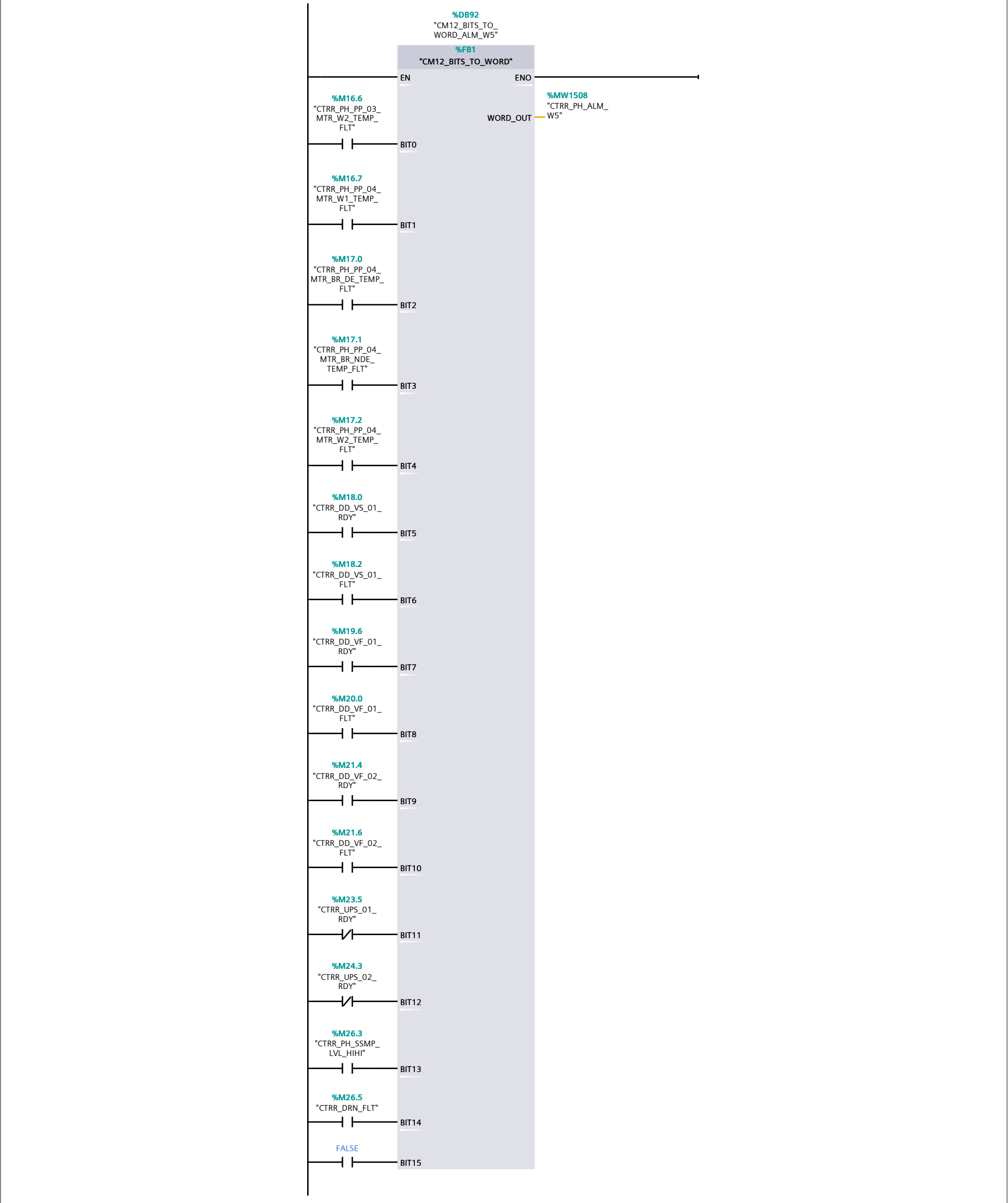
Alarm Word 4

Alarm Word 4



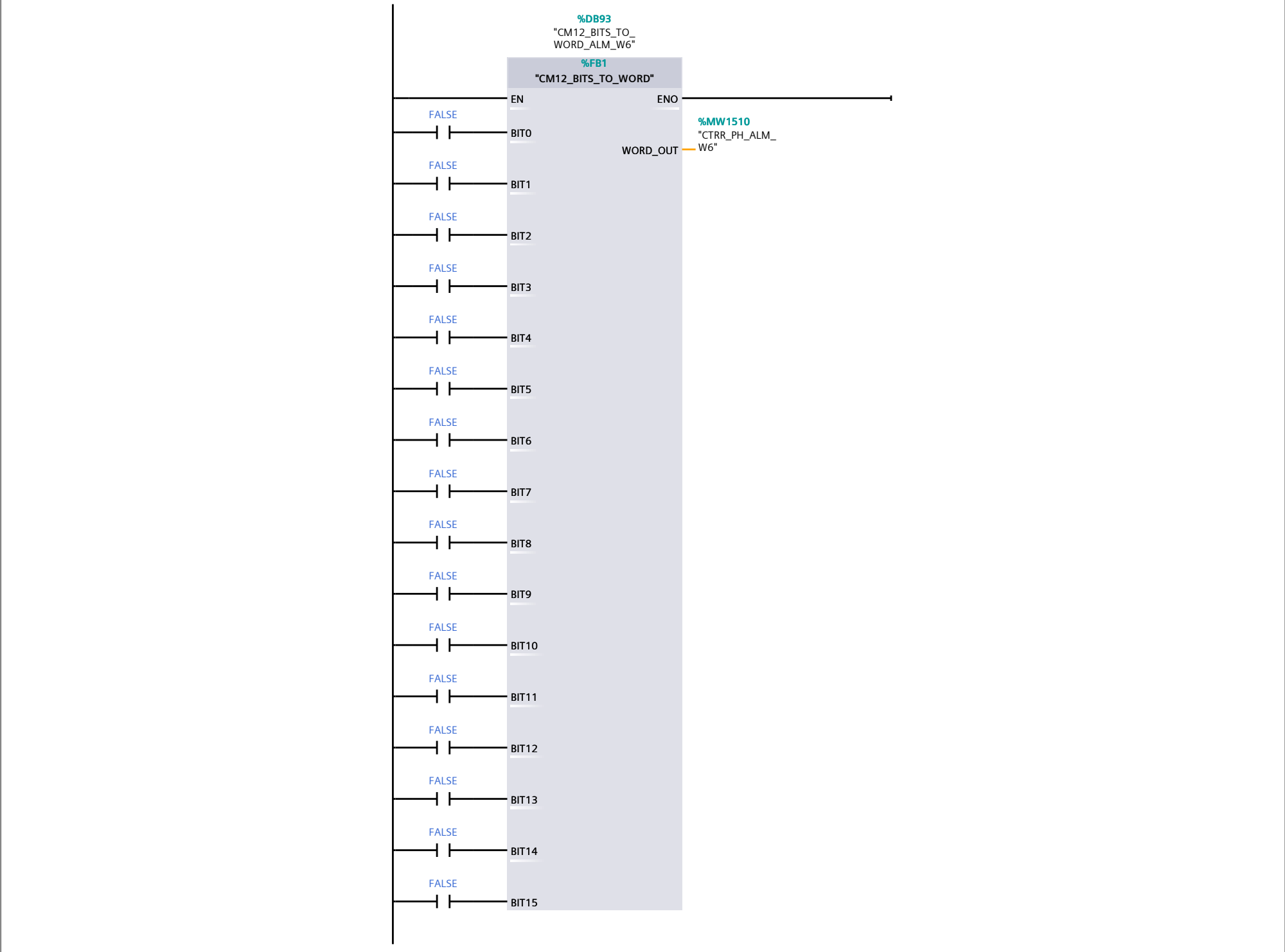
Network 5:

Alarm Word 5



Network 6:

Alarm Word 6



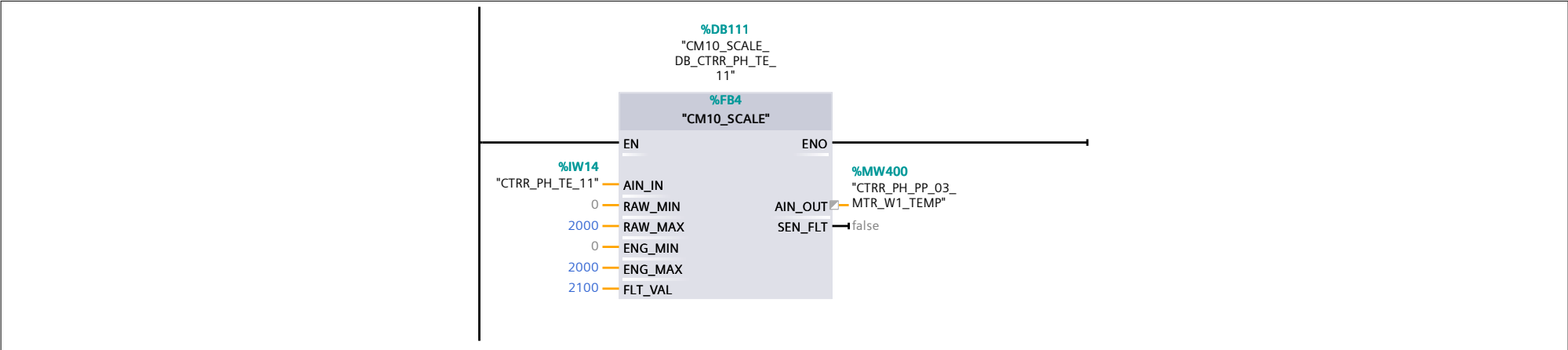
Program blocks

ANA_CONVERT [OB139]

ANA_CONVERT Properties							
General							
Name	ANA_CONVERT	Number	139	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					
Name		Data type	Default value		Comment		
▼ Input							
Initial_Call		Bool			Initial call of this OB		
Remanence		Bool			=True, if remanent data are available		
Temp							
Constant							

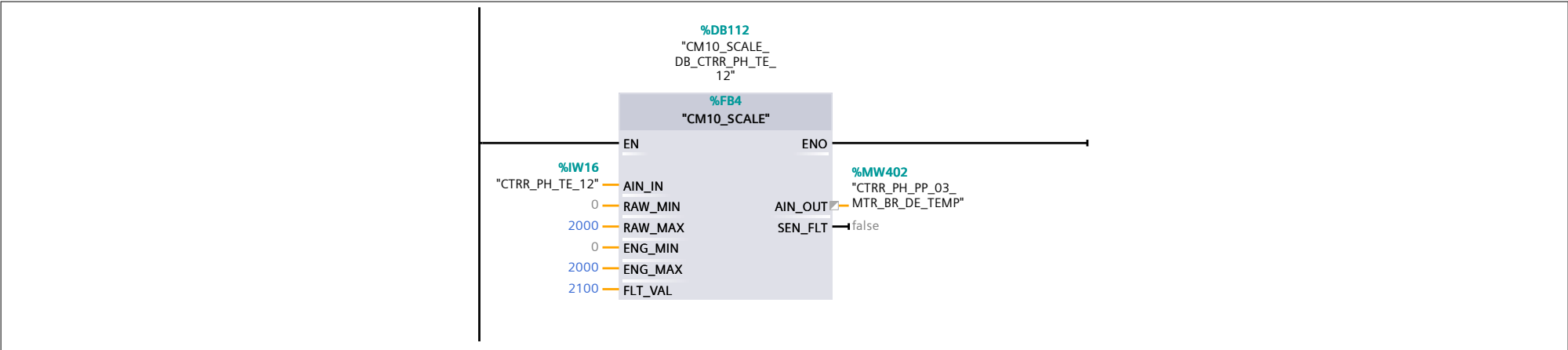
Network 1:

RIO Analogue Card 8 Input 1 - Drainage Pump 3 Motor Case Temperatur



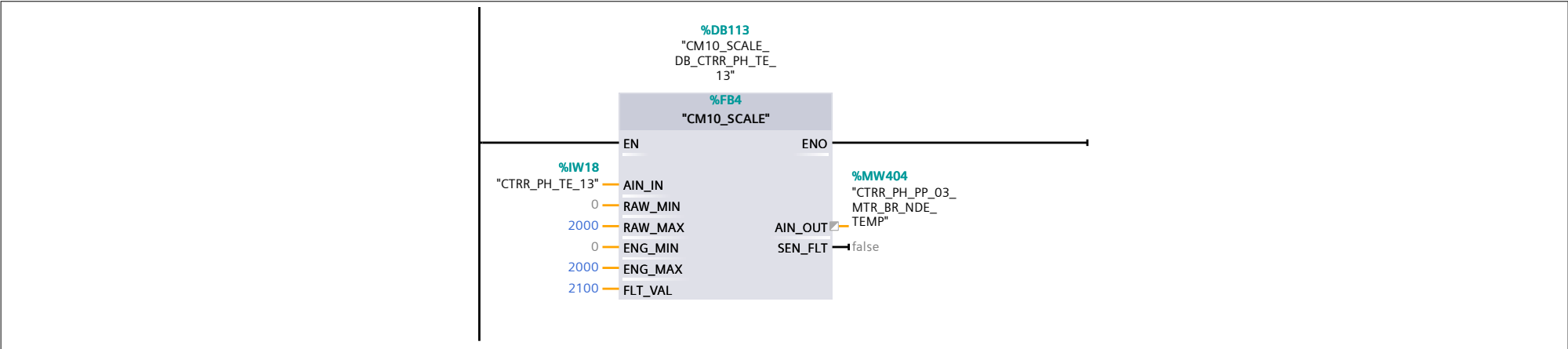
Network 2:

RIO Analogue Card 8 Input 2 - Drainage Pump 3 Motor Bearing Drive End



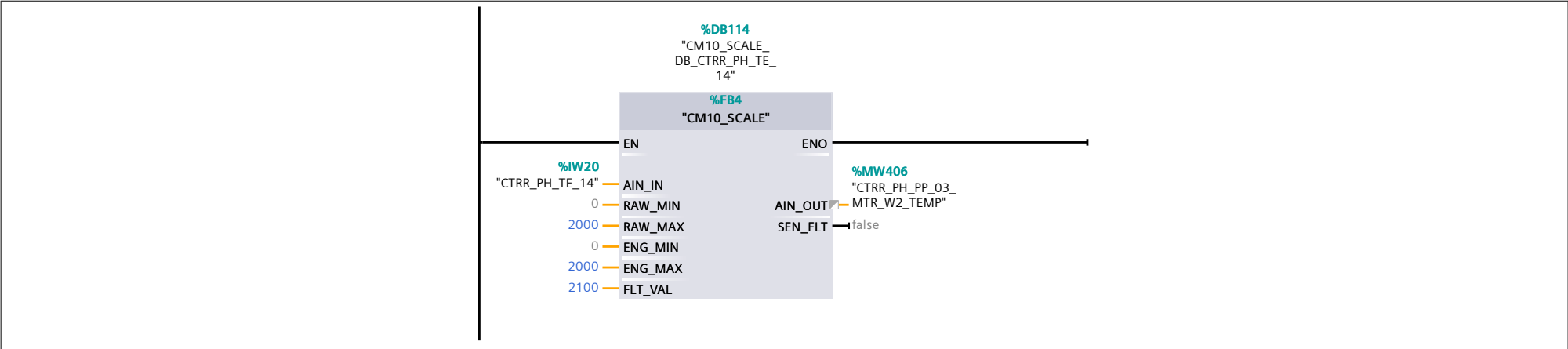
Network 3:

RIO Analogue Card 8 Input 3 - Drainage Pump 3 Motor Bearing Non Drive End



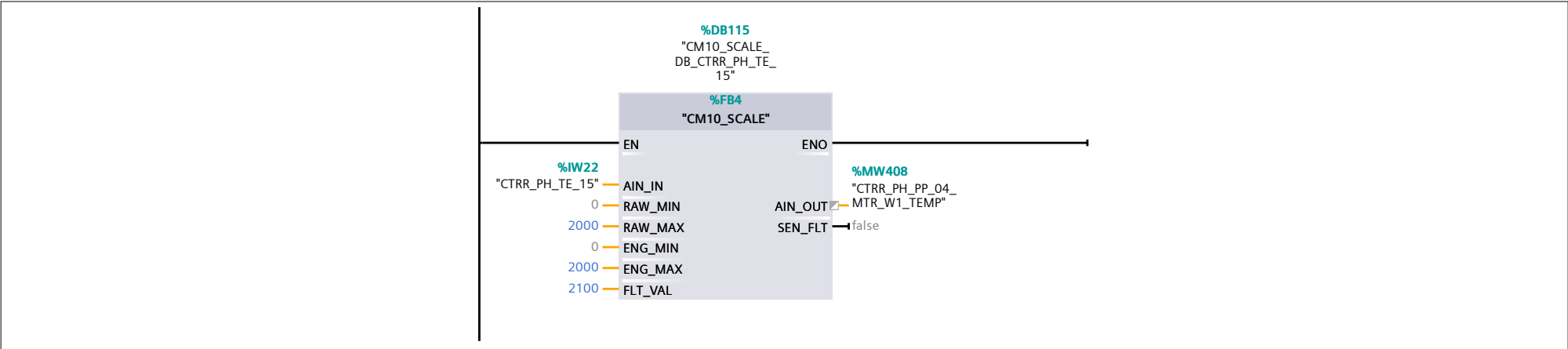
Network 4:

RIO Analogue Card 8 Input 4 - Drainage Pump 3 Thusrt Bearing Drive End



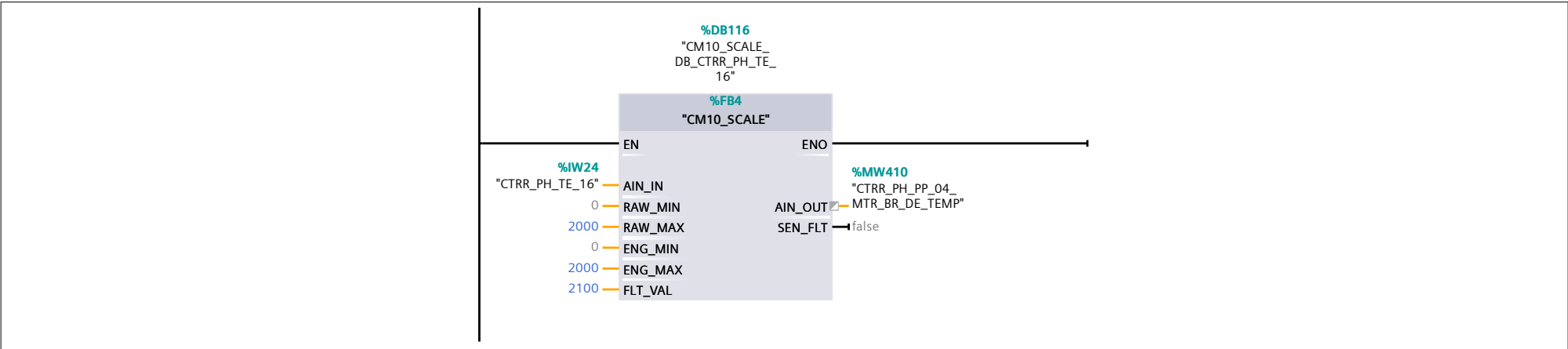
Network 5:

RIO Analogue Card 8 Input 5 - Drainage Pump 4 Motor Case Temperatur



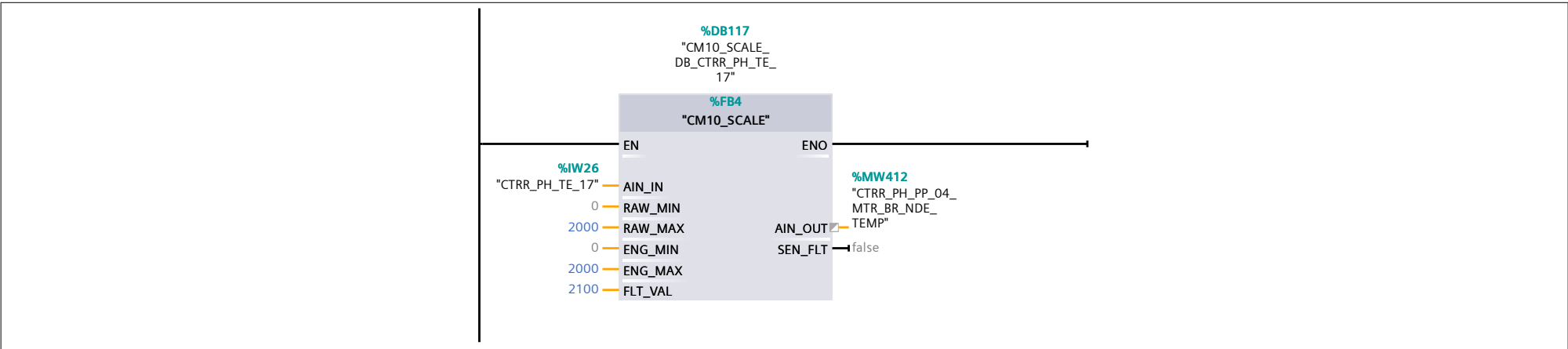
Network 6:

RIO Analogue Card 8 Input 6 - Drainage Pump 4 Motor Bearing Drive End



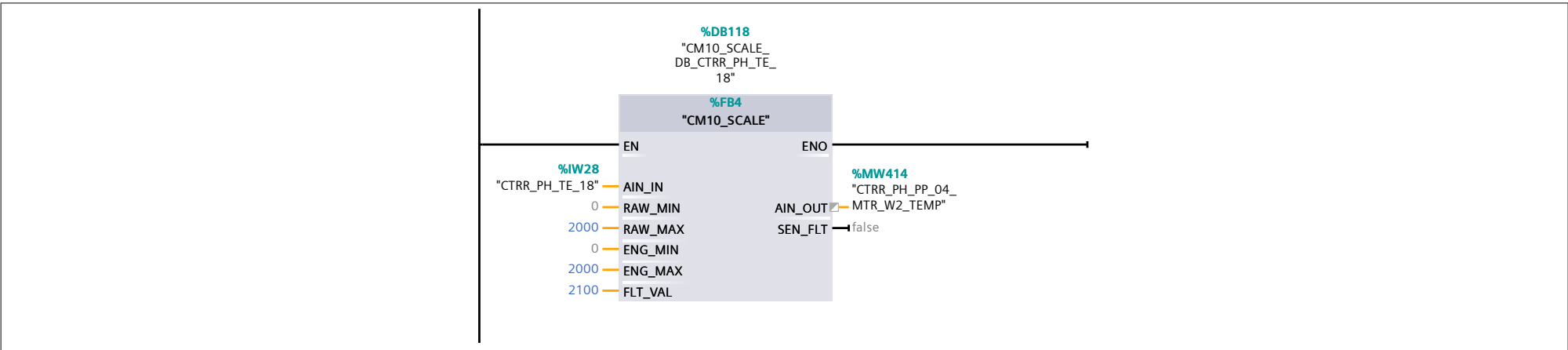
Network 7:

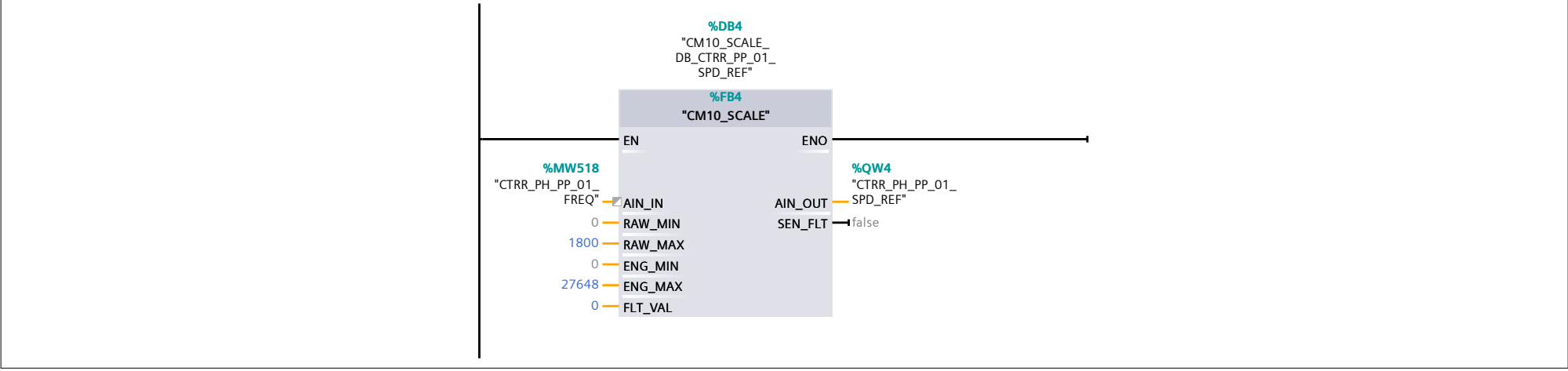
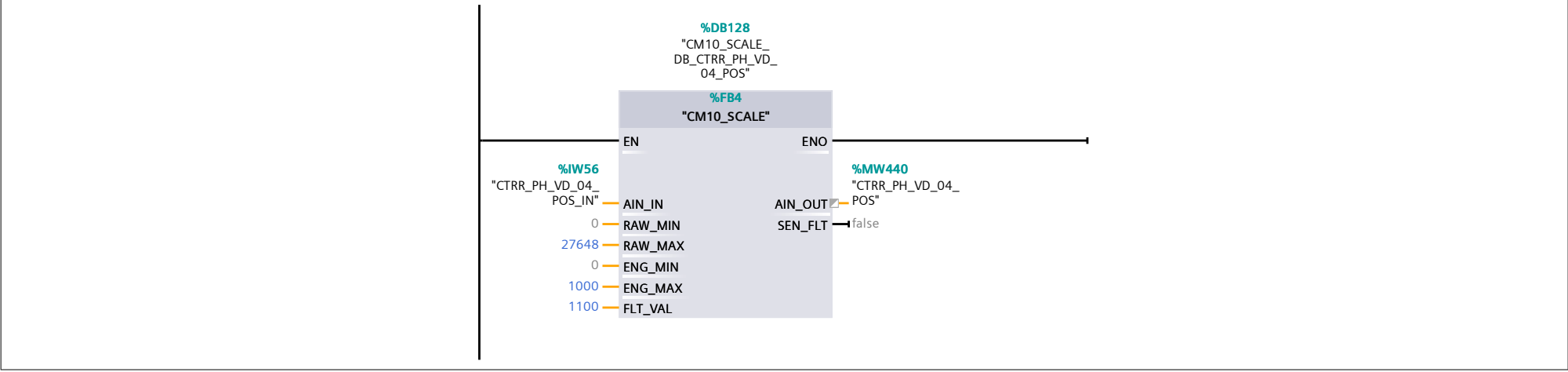
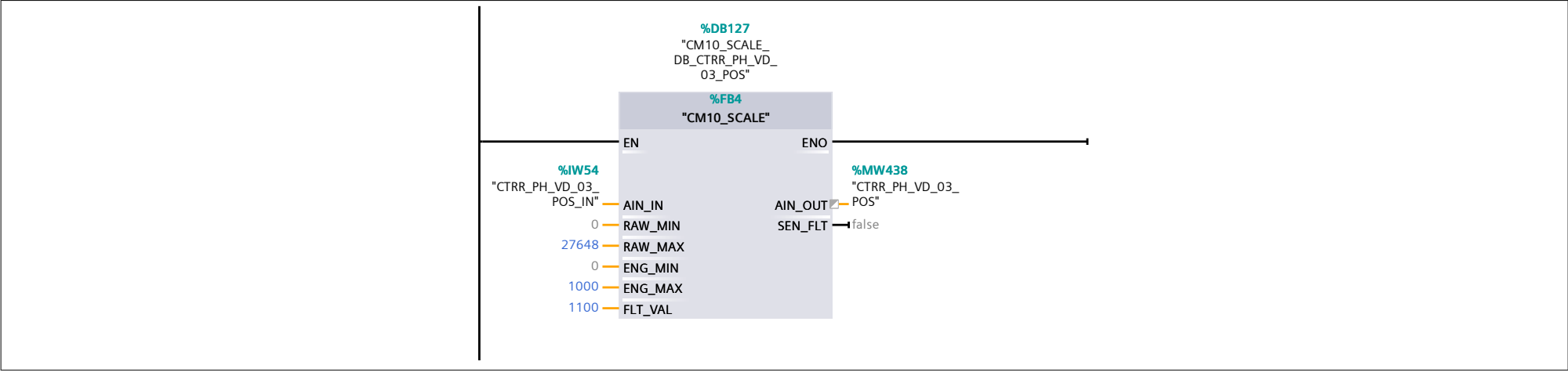
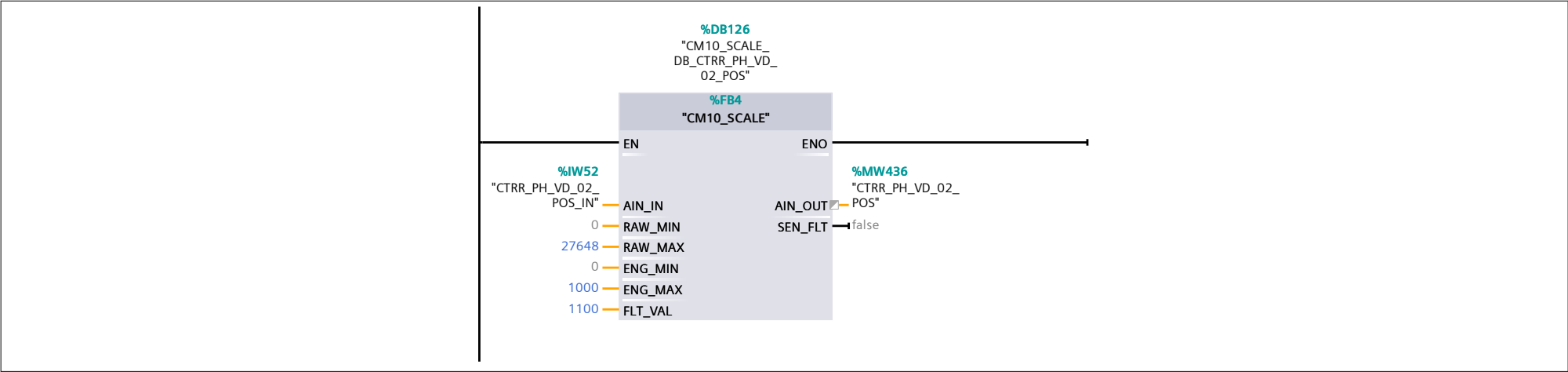
RIO Analogue Card 8 Input 7 - Drainage Pump 4 Motor Bearing Non Drive End

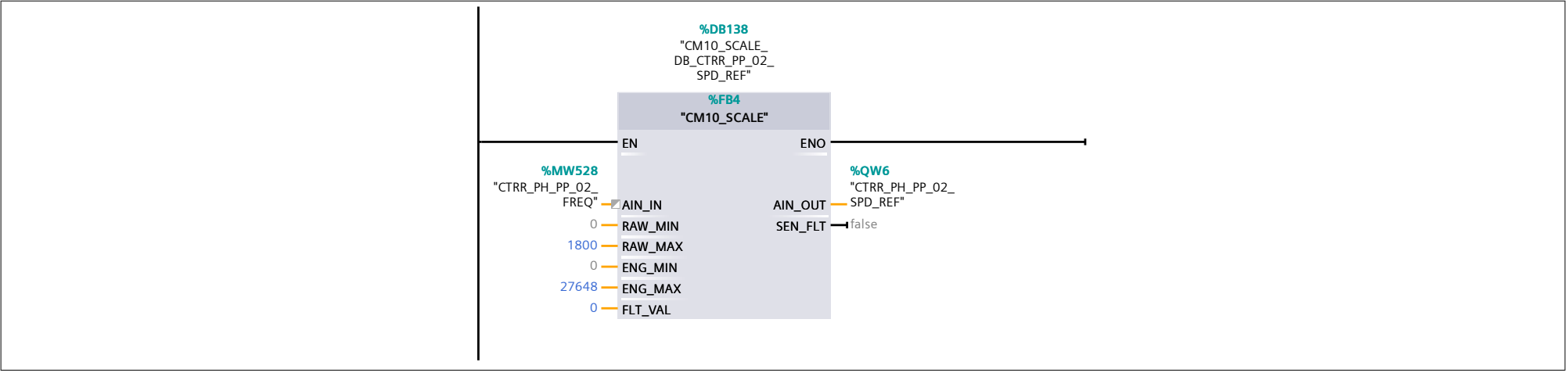


Network 8:

RIO Analogue Card 8 Input 8 - Drainage Pump 4 Thusrt Bearing Drive End







Totally Integrated Automation Portal

Program blocks

UPS_CONVERT [OB140]

UPS_CONVERT Properties							
General							
Name	UPS_CONVERT	Number	140	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

Network 1:

MCC UPS Byte 1 Convert to voltage okay

%I872

"MCC_UPS_BYTE1"

==

Byte

255

%M23.3

"CTRR_UPS_01_VOLT_OK"

()

Network 2:

MCC UPS Byte 2 Convert to Buffer Mode

%I873

"MCC_UPS_BYTE2"

==

Byte

255

%M23.4

"CTRR_UPS_01_MODE_BUF"

()

Network 3:

MCC UPS Byte 3 Convert to Ready

%I874

"MCC_UPS_BYTE3"

==

Byte

255

%M23.5

"CTRR_UPS_01_RDY"

()

Network 4:

MCC UPS Byte 4 Convert to Charge Okay

%I875

"MCC_UPS_BYTE4"

==

Byte

255

%M23.6

"CTRR_UPS_01_CHARGE_OK"

()

Network 5:

MCC UPS Byte 5 Convert to Battery Change

%I876

"MCC_UPS_BYTE5"

==

Byte

255

%M23.7

"CTRR_UPS_01_BAT_FLT"

()

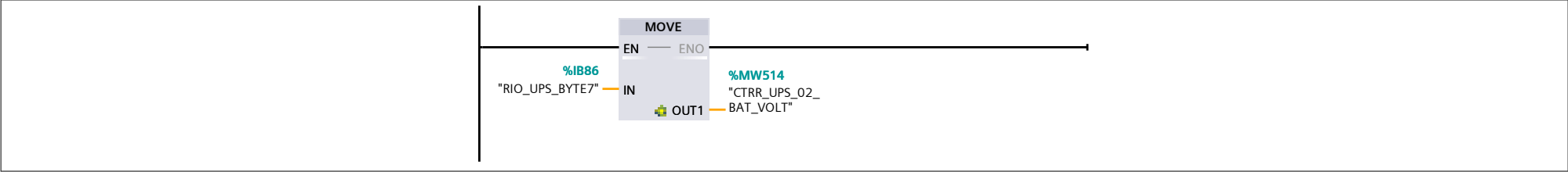
Network 6:

MCC UPS Byte 8 Convert to Battery Connection

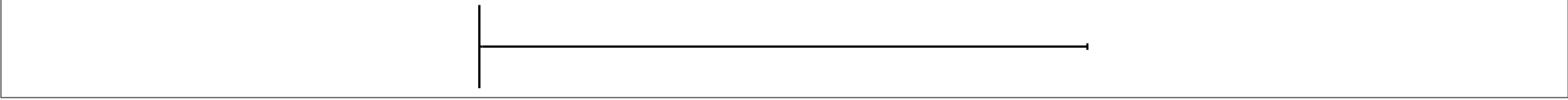
Totally Integrated Automation Portal		
	%I879 "MCC_UPS_BYTE8" == Byte 255 %M24.0 "CTRR_UPS_01_BAT_CON" ()	
Network 7: MCC UPS Byte 7 Convert to Battery %		
	MOVE EN ENO %I878 "MCC_UPS_BYTE7" IN OUT1 %MW512 "CTRR_UPS_01_BAT_VOLT"	
Network 9: RIO UPS Byte 1 Convert to voltage okay		
	%I880 "RIO_UPS_BYTE1" == Byte 255 %M24.1 "CTRR_UPS_02_VOLT_OK" ()	
Network 10: RIO UPS Byte 2 Convert to Buffer Mode		
	%I881 "RIO_UPS_BYTE2" == Byte 255 %M24.2 "CTRR_UPS_02_MODE_BUF" ()	
Network 11: RIO UPS Byte 3 Convert to Ready		
	%I882 "RIO_UPS_BYTE3" == Byte 255 %M24.3 "CTRR_UPS_02_RDY" ()	
Network 12: RIO UPS Byte 4 Convert to Charge Okay		
	%I883 "RIO_UPS_BYTE4" == Byte 255 %M24.4 "CTRR_UPS_02_CHARGE_OK" ()	
Network 13: RIO UPS Byte 5 Convert to Battery Change		
	%I884 "RIO_UPS_BYTE5" == Byte 255 %M24.5 "CTRR_UPS_02_BAT_FLT" ()	
Network 14: MCC UPS Byte 8 Convert to Battery Connection		
	%I887 "RIO_UPS_BYTE8" == Byte 255 %M24.6 "CTRR_UPS_02_BAT_CON" ()	

Network 15:

RIO UPS Byte 7 Convert to Battery %



Network 16:



Totally Integrated Automation Portal

Program blocks

Interlock_BITS_TO_WORD_DB [DB3]

Interlock_BITS_TO_WORD_DB Properties

General

Name	Inter-lock_BITS_TO_WORD_DB	Number	3	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
BIT0	Bool	false	False	True	True	True	False		
BIT1	Bool	false	False	True	True	True	False		
BIT2	Bool	false	False	True	True	True	False		
BIT3	Bool	false	False	True	True	True	False		
BIT4	Bool	false	False	True	True	True	False		
BIT5	Bool	false	False	True	True	True	False		
BIT6	Bool	false	False	True	True	True	False		
BIT7	Bool	false	False	True	True	True	False		
BIT8	Bool	false	False	True	True	True	False		
BIT9	Bool	false	False	True	True	True	False		
BIT10	Bool	false	False	True	True	True	False		
BIT11	Bool	false	False	True	True	True	False		
BIT12	Bool	false	False	True	True	True	False		
BIT13	Bool	false	False	True	True	True	False		
BIT14	Bool	false	False	True	True	True	False		
BIT15	Bool	false	False	True	True	True	False		
▼ Output									
WORD_OUT	UInt	0	False	True	True	True	False		
InOut									
Static									

Totally Integrated Automation Portal

Program blocks

FB01_TIME_CVT_DB_TEST [DB5]

FB01_TIME_CVT_DB_TEST Properties

General

Name	FB01_TIME_CVT_DB_TEST	Number	5	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
WRD_IN	UInt	0	False	True	True	True	False		
MUL_FAC	UInt	0	False	True	True	True	False		
▼ Output									
TIME_OUT	Time	T#0ms	False	True	True	True	False		
InOut									
Static									

Totally Integrated Automation Portal

Program blocks

CM03_DD_VSD_CNTRL_DB_TEST [DB8]

CM03_DD_VSD_CNTRL_DB_TEST Properties

General

Name	CM03_DD_VSD_CNTRL_DB_TEST	Number	8	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	False	True	True	True	False		
RUN	Bool	false	False	True	True	True	False		
AUTO_STT	Bool	false	False	True	True	True	False		
SC_MAN	Bool	false	False	True	True	True	False		
SC_STT	Bool	false	False	True	True	True	False		
SC_STP	Bool	false	False	True	True	True	False		
VLV_OPND	Bool	false	False	True	True	True	False		
VLV_CLD	Bool	false	False	True	True	True	False		
VLV_REM	Bool	false	False	True	True	True	False		
VLV_POS	UInt	0	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
PILCK	Bool	false	False	True	True	True	False		
SILCK	Bool	false	False	True	True	True	False		
STT_FTIME	Time	T#0ms	False	True	True	True	False		
STP_FTIME	Time	T#0ms	False	True	True	True	False		
VLV_OP_DLAY	Time	T#0ms	False	True	True	True	False		
AUTO_SPD	Int	0	False	True	True	True	False		
AUTO_SPD_TMAN	Bool	false	False	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	False	True	True	True	False		
PMP_FSTT	Bool	false	False	True	True	True	False		
PMP_FSTP	Bool	false	False	True	True	True	False		
PMP_SPD	Int	0	False	True	True	True	False		
CL_VLV	Bool	false	False	True	True	True	False		
OP_VLV	Bool	false	False	True	True	True	False		
▼ InOut									
SC_SPD	UInt	0	False	True	True	True	False		
▼ Static									
REM_STT	Bool	false	False	True	True	True	False		
AUTO_STT_ON_P	Bool	false	False	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	False	True	True	True	False		
PMP_STT_TEMP	Bool	false	False	True	True	True	False		
▼ TON_VSD_CNTRL_VLV_OP_D	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_VSD_PMP	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ VSD_VLV_CL_FAIL	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks

CM03_CTRR_PH_PP_01 [DB10]

CM03_CTRR_PH_PP_01 Properties

General

Name	CM03_CTRR_PH_PP_01	Number	10	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	False	True	True	True	False		
RUN	Bool	false	False	True	True	True	False		
AUTO_STT	Bool	false	False	True	True	True	False		
SC_MAN	Bool	false	False	True	True	True	False		
SC_STT	Bool	false	False	True	True	True	False		
SC_STP	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
PILCK	Bool	false	False	True	True	True	False		
SILCK	Bool	false	False	True	True	True	False		
FAIL_TIME	Time	T#0ms	False	True	True	True	False		
AUTO_SPD	Int	0	False	True	True	True	False		
AUTO_SPD_TMAN	Bool	false	False	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	False	True	True	True	False		
PMP_FSTT	Bool	false	False	True	True	True	False		
PMP_SPD	Int	0	False	True	True	True	False		
▼ InOut									
SC_SPD	Int	0	False	True	True	True	False		
▼ Static									
REM_STT	Bool	false	False	True	True	True	False		
AUTO_STT_ON_P	Bool	false	False	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	False	True	True	True	False		
▼ TON_DOL_PMP	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks

CM02_DD_DOL_CNTRL_DB_TEST [DB13]

CM02_DD_DOL_CNTRL_DB_TEST Properties

General

Name	CM02_DD_DOL_CNTRL_DB_TEST	Number	13	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	False	True	True	True	False		
RUN	Bool	false	False	True	True	True	False		
AUTO_STT	Bool	false	False	True	True	True	False		
SC_MAN	Bool	false	False	True	True	True	False		
SC_STT	Bool	false	False	True	True	True	False		
SC_STP	Bool	false	False	True	True	True	False		
VLV_OPND	Bool	false	False	True	True	True	False		
VLV_CLD	Bool	false	False	True	True	True	False		
VLV_REM	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
PILCK	Bool	false	False	True	True	True	False		
SILCK	Bool	false	False	True	True	True	False		
STT_FAIL_TIME	Time	T#0ms	False	True	True	True	False		
STP_FAIL_TIME	Time	T#0ms	False	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	False	True	True	True	False		
OP_VLV	Bool	false	False	True	True	True	False		
CL_VLV	Bool	false	False	True	True	True	False		
PMP_FSTT	Bool	false	False	True	True	True	False		
PMP_FSTP	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
REM_STT	Bool	false	False	True	True	True	False		
AUTO_STT_ON_P	Bool	false	False	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	False	True	True	True	False		
PMP_STT_TEMP	Bool	false	False	True	True	True	False		
▼ TON_DOL_PMP	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ DOL_VLV_CL_FAIL	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks

FB01_VLV_TIME_DELAY [DB27]

FB01_VLV_TIME_DELAY Properties

General

Name	FB01_VLV_TIME_DELAY	Number	27	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
WRD_IN	UInt	0	False	True	True	True	False		
MUL_FAC	UInt	0	False	True	True	True	False		
▼ Output									
TIME_OUT	Time	T#0ms	False	True	True	True	False		
InOut									
Static									

Totally Integrated Automation Portal

Program blocks

CM13_RH_CTRR_PH_PP_05_1 [DB81]

CM13_RH_CTRR_PH_PP_05_1 Properties

General

Name	CM13_RH_CTRR_PH_PP_05_1	Number	81	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	False	True	True	True	False		
EQ_RUN	Bool	false	False	True	True	True	False		
SAVE_ON_RUN	Bool	false	False	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	False	True	True	True	False		
RUN_MIN	UDInt	0	False	True	True	True	False		
RUN_PULSE	Bool	false	False	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
▼ CTU_RHOUR_CTU	CTU_INT		False	True	True	True	True		
CU	Bool	false	False	True	True	True	False		
CD	Bool	false	False	True	True	True	False		
R	Bool	false	False	True	True	True	False		
LD	Bool	false	False	True	True	True	False		
QU	Bool	false	False	True	True	True	False		
QD	Bool	false	False	True	True	True	False		
PV	Int	0	False	True	True	True	False		
CV	Int	0	False	True	True	True	False		
▼ TON_RHOUR	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG		False	True	True	True	True		
▼ Input									
CLK	Bool	false	False	True	True	True	False		
▼ Output									
Q	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	False	True	True	True	False		
CNT_RST	Bool	false	False	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks

CM14_INTERLOCK_V2_DB [DB104]

CM14_INTERLOCK_V2_DB Properties									
General									
Name	CM14_INTERLOCK_V2_DB	Number	104	Type	DB			Language	DB
Numbering	Automatic								
Information									
Title		Author		Comment				Family	
Version	0.1	User-defined ID							
Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
ILCK1	Bool	false	False	True	True	True	False		
ILCK2	Bool	false	False	True	True	True	False		
ILCK3	Bool	false	False	True	True	True	False		
ILCK4	Bool	false	False	True	True	True	False		
ILCK5	Bool	false	False	True	True	True	False		
ILCK6	Bool	false	False	True	True	True	False		
ILCK7	Bool	false	False	True	True	True	False		
ILCK8	Bool	false	False	True	True	True	False		
ILCK9	Bool	false	False	True	True	True	False		
ILCK10	Bool	false	False	True	True	True	False		
ILCK11	Bool	false	False	True	True	True	False		
ILCK12	Bool	false	False	True	True	True	False		
ILCK13	Bool	false	False	True	True	True	False		
ILCK14	Bool	false	False	True	True	True	False		
ILCK15	Bool	false	False	True	True	True	False		
ILCK16	Bool	false	False	True	True	True	False		
▼ Output									
ILCK_OUT	Bool	false	False	True	True	True	False		
ILOCK_WRD	Word	16#0	False	True	True	True	False		
InOut									
▼ Static									
ILCK_T1	Bool	false	False	True	True	True	False		
ILCK_T2	Bool	false	False	True	True	True	False		

Totally Integrated Automation Portal

Program blocks

CM13_RH_CTRR_PH_PP_05 [DB131]

CM13_RH_CTRR_PH_PP_05 Properties

General

Name	CM13_RH_CTRR_PH_PP_05	Number	131	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	False	True	True	True	False		
EQ_RUN	Bool	false	False	True	True	True	False		
SAVE_ON_RUN	Bool	false	False	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	False	True	True	True	False		
RUN_MIN	UDInt	0	False	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
RUN_PULSE	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_INT		False	True	True	True	True		
CU	Bool	false	False	True	True	True	False		
CD	Bool	false	False	True	True	True	False		
R	Bool	false	False	True	True	True	False		
LD	Bool	false	False	True	True	True	False		
QU	Bool	false	False	True	True	True	False		
QD	Bool	false	False	True	True	True	False		
PV	Int	0	False	True	True	True	False		
CV	Int	0	False	True	True	True	False		
▼ TON_RHOUR	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG		False	True	True	True	True		
▼ Input									
CLK	Bool	false	False	True	True	True	False		
▼ Output									
Q	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	False	True	True	True	False		
CNT_RST	Bool	false	False	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks

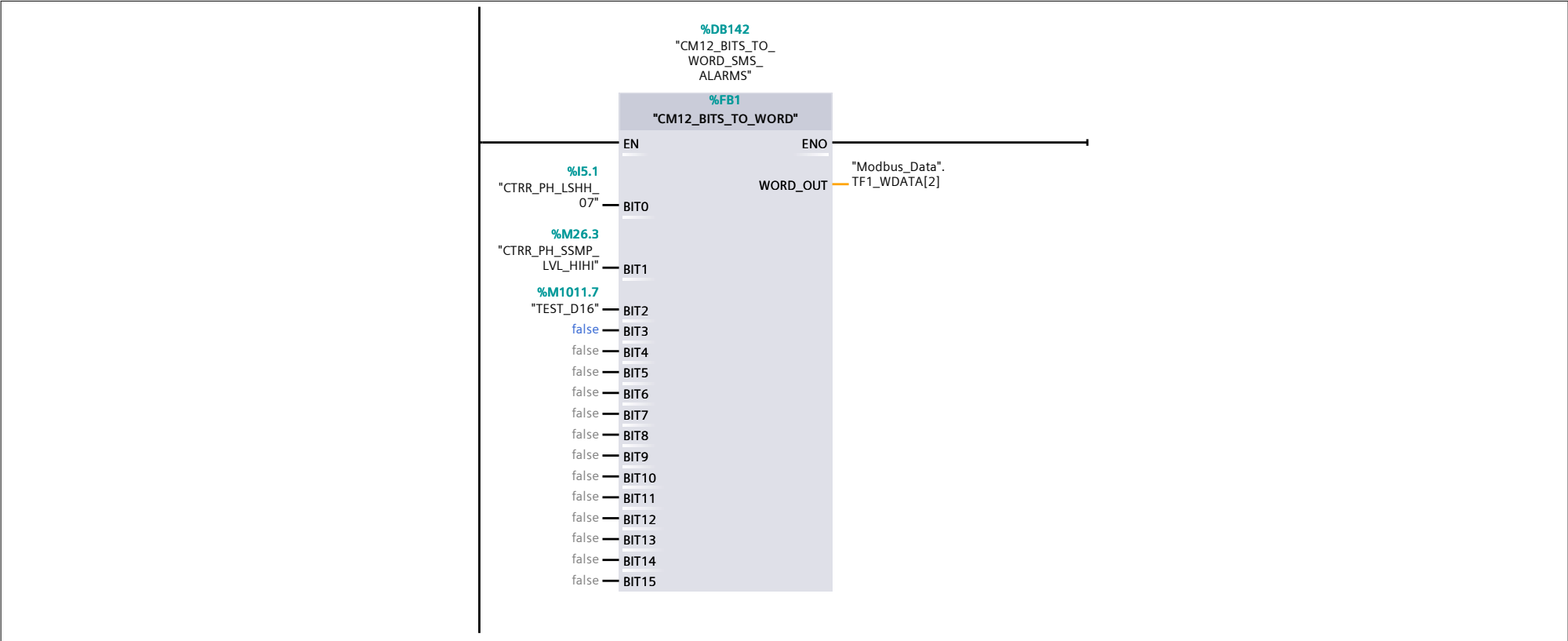
SMS_ALARMS [OB133]

SMS_ALARMS Properties							
General							
Name	SMS_ALARMS	Number	133	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

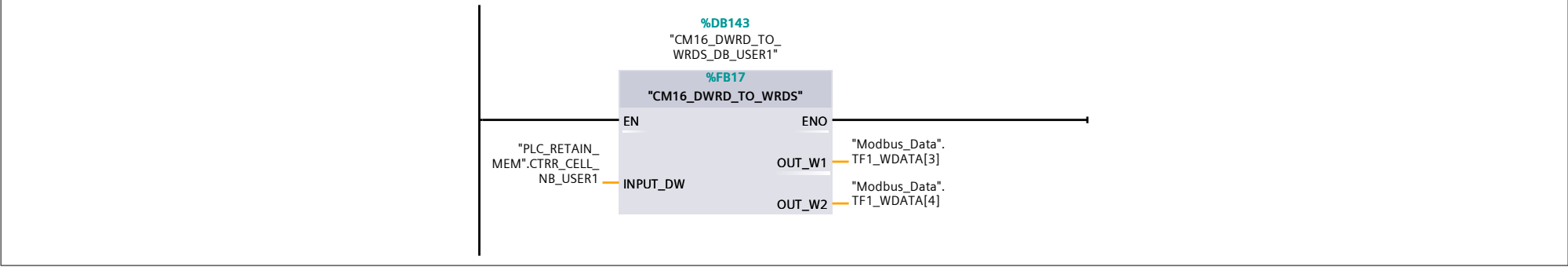
Network 1:

SMS Alarm Bits to teleflex



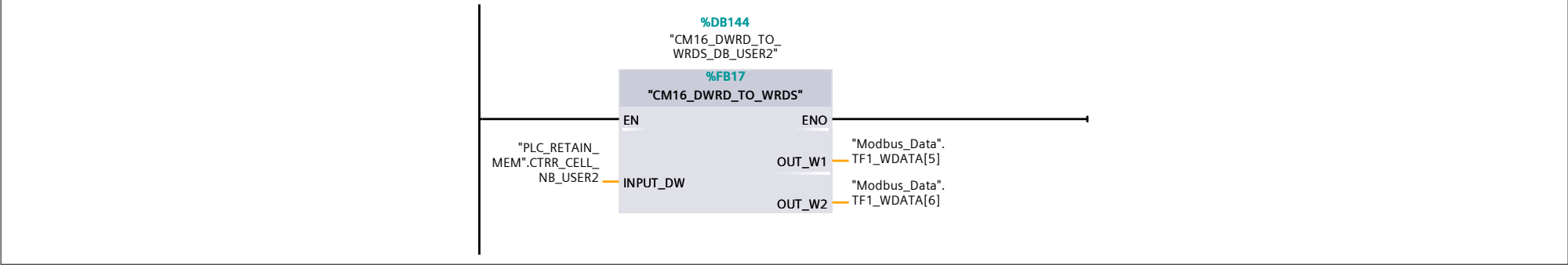
Network 2:

Cell Number 1 to Teleflex



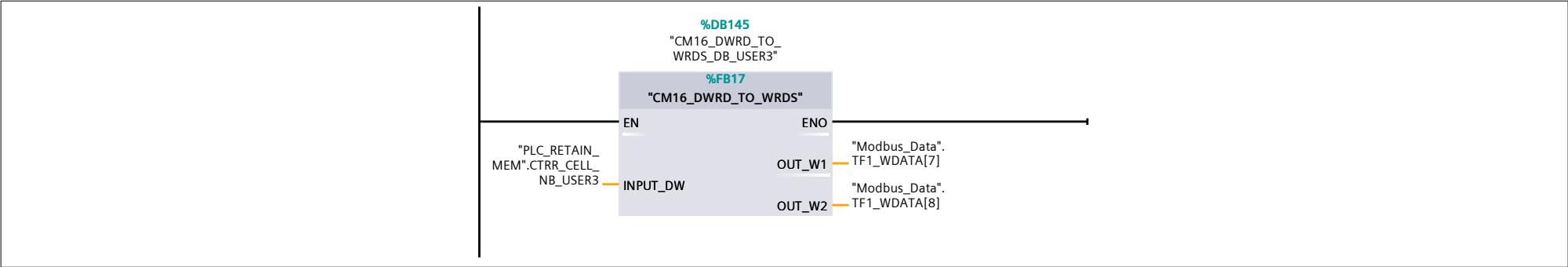
Network 3:

Cell Number 2 to Teleflex



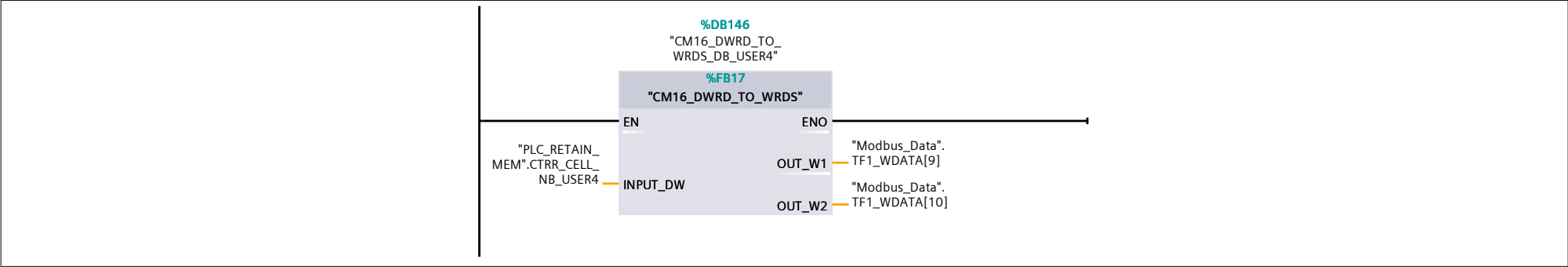
Network 4:

Cell Number 3 to Teleflex



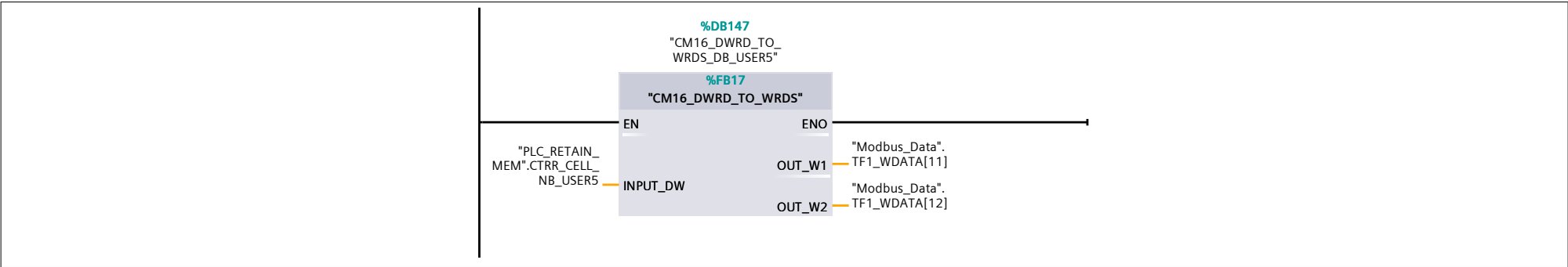
Network 5:

Cell Numbe r 4 to Teleflex

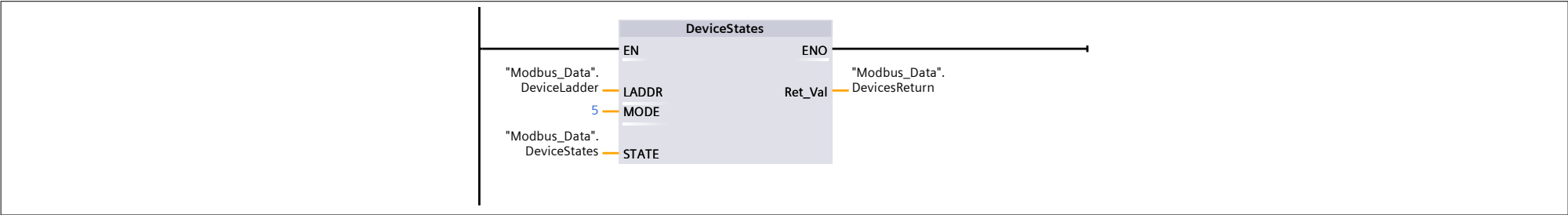


Network 6:

Cell Numbe r 5 to Teleflex



Network 7:



Program blocks

CM12_BITS_TO_WORD_SMS_ALARMS [DB142]

CM12_BITS_TO_WORD_SMS_ALARMS Properties							
General							
Name	CM12_BITS_TO_WORD_SMS_ALARMS	Number	142	Type	DB	Language	DB
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
BIT0	Bool	false	False	True	True	True	False		
BIT1	Bool	false	False	True	True	True	False		
BIT2	Bool	false	False	True	True	True	False		
BIT3	Bool	false	False	True	True	True	False		
BIT4	Bool	false	False	True	True	True	False		
BIT5	Bool	false	False	True	True	True	False		
BIT6	Bool	false	False	True	True	True	False		
BIT7	Bool	false	False	True	True	True	False		
BIT8	Bool	false	False	True	True	True	False		
BIT9	Bool	false	False	True	True	True	False		
BIT10	Bool	false	False	True	True	True	False		
BIT11	Bool	false	False	True	True	True	False		
BIT12	Bool	false	False	True	True	True	False		
BIT13	Bool	false	False	True	True	True	False		
BIT14	Bool	false	False	True	True	True	False		
BIT15	Bool	false	False	True	True	True	False		
▼ Output									
WORD_OUT	UInt	0	False	True	True	True	False		
InOut									
Static									

Program blocks

CM10_SCALE_DB_SCADA_LVL [DB148]

CM10_SCALE_DB_SCADA_LVL Properties							
General							
Name	CM10_SCALE_DB_SCA-DA_LVL	Number	148	Type	DB	Language	DB
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN_IN	Int	0	False	True	True	True	False		
RAW_MIN	Int	0	False	True	True	True	False		
RAW_MAX	Int	0	False	True	True	True	False		
ENG_MIN	Int	0	False	True	True	True	False		
ENG_MAX	Int	0	False	True	True	True	False		
FLT_VAL	Int	0	False	True	True	True	False		
▼ Output									
AIN_OUT	Int	0	False	True	True	True	False		
SEN_FLT	Bool	false	False	True	True	True	False		
InOut									
Static									

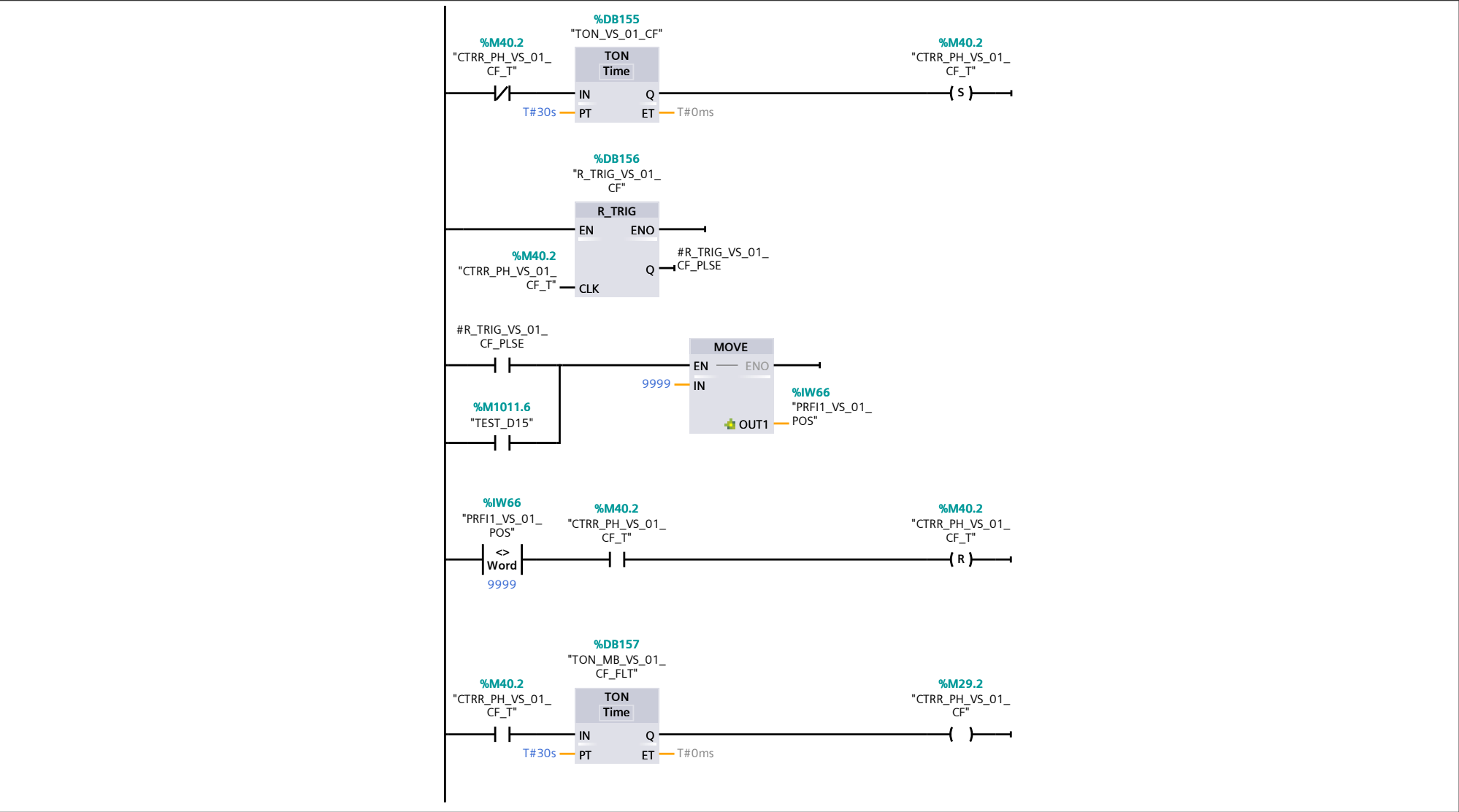
Program blocks

PROFINET_CF [OB134]

PROFINET_CF Properties							
General							
Name	PROFINET_CF	Number	134	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					
Name		Data type	Default value		Comment		
▼ Input							
Initial_Call		Bool			Initial call of this OB		
Remanence		Bool			=True, if remanent data are available		
▼ Temp							
R_TRIG_VS_01_CF_PLSE		Bool					
R_TRIG_VF_02_CF_PLSE		Bool					
R_TRIG_PP_01_VSE_CF_PLSE		Bool					
R_TRIG_PP_02_VSE_CF_PLSE		Bool					
R_TRIG_PP_03_VSE_CF_PLSE		Bool					
R_TRIG_PP_04_VSE_CF_PLSE		Bool					
Constant							

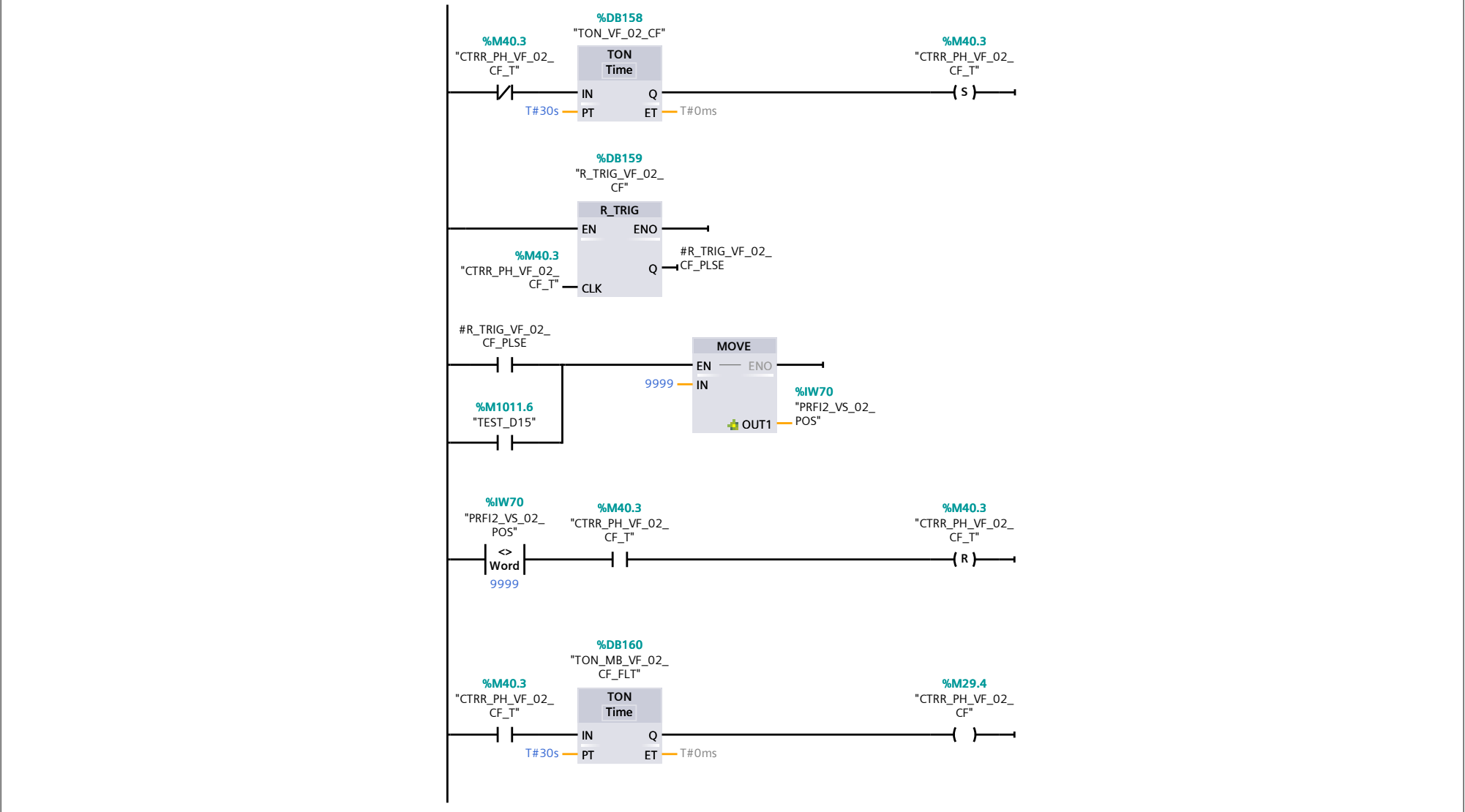
Network 1:

Dewatering Valve Commsfail



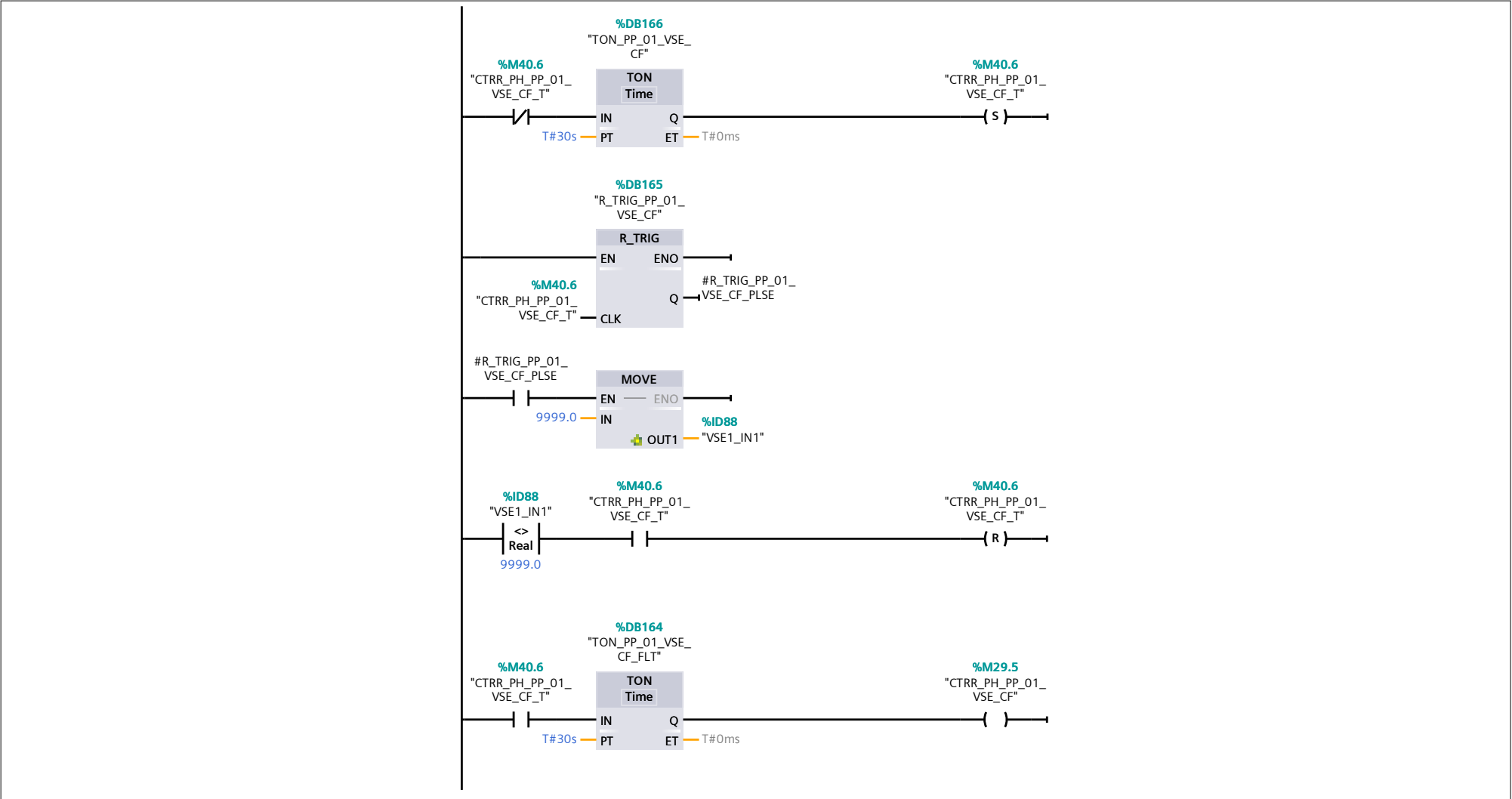
Network 2:

Filling Valve 2 Commsfail



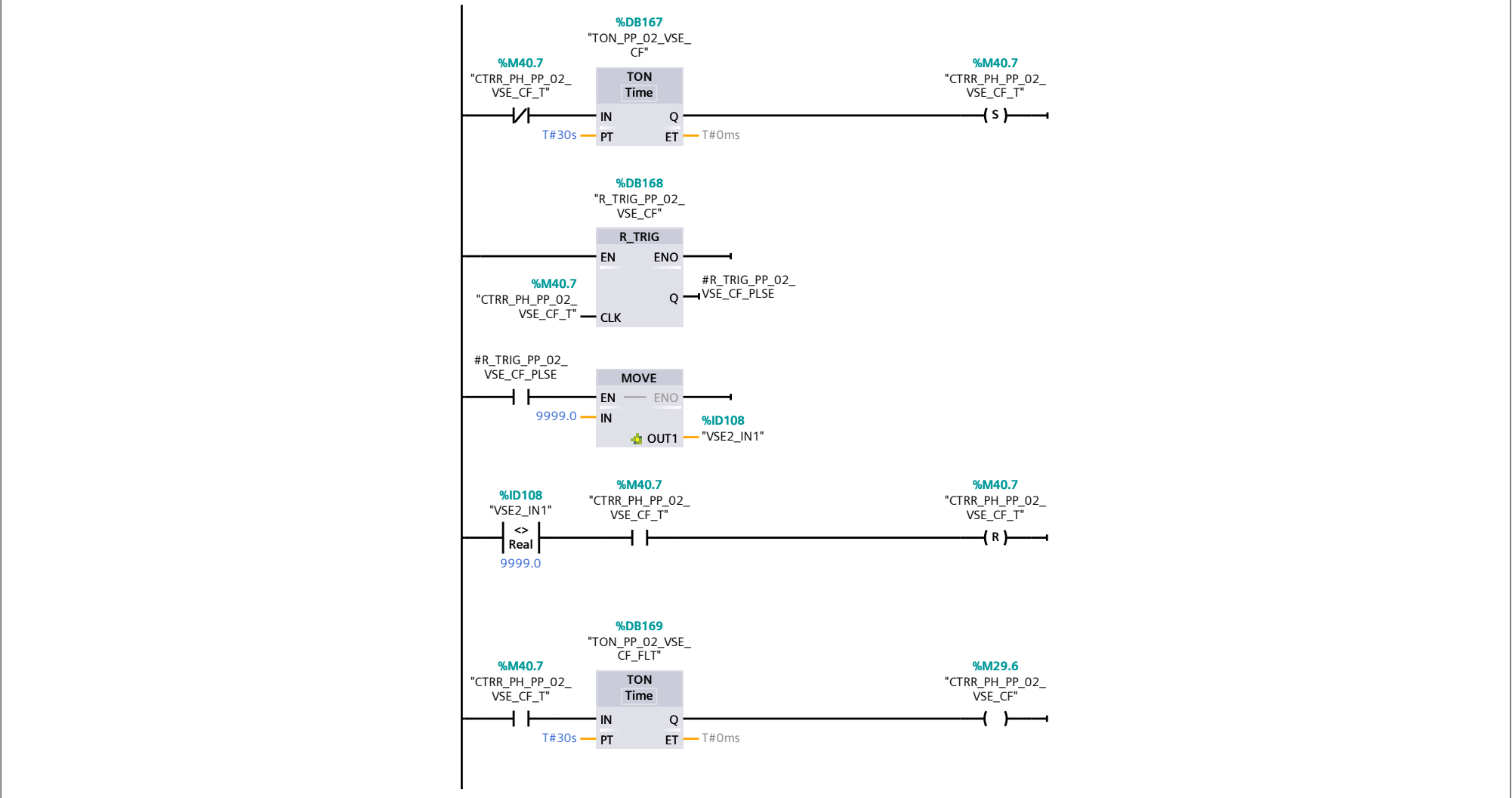
Network 3:

Pump 1 VSE Commsfail



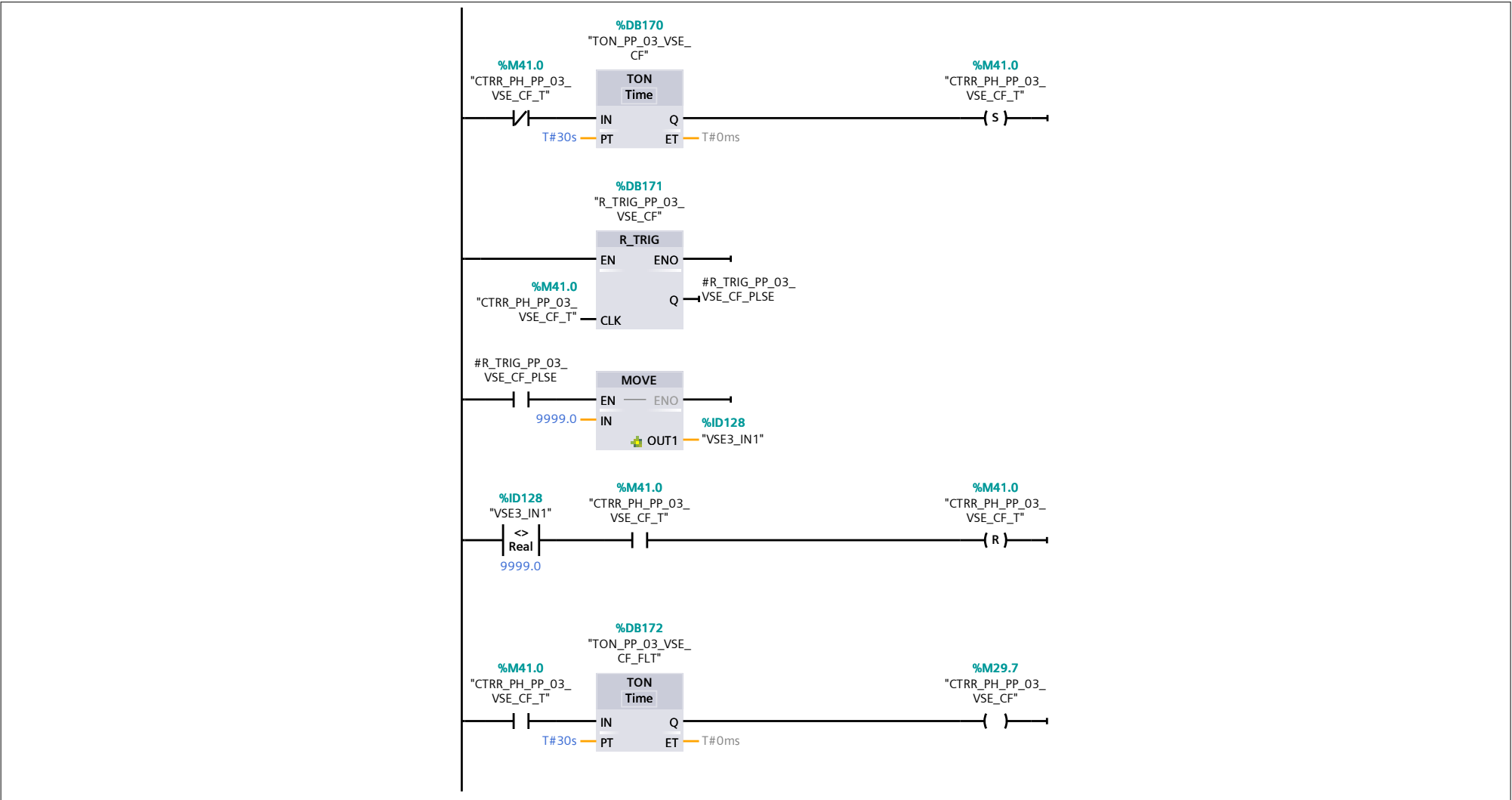
Network 4:

Pump 2 VSE Commsfail



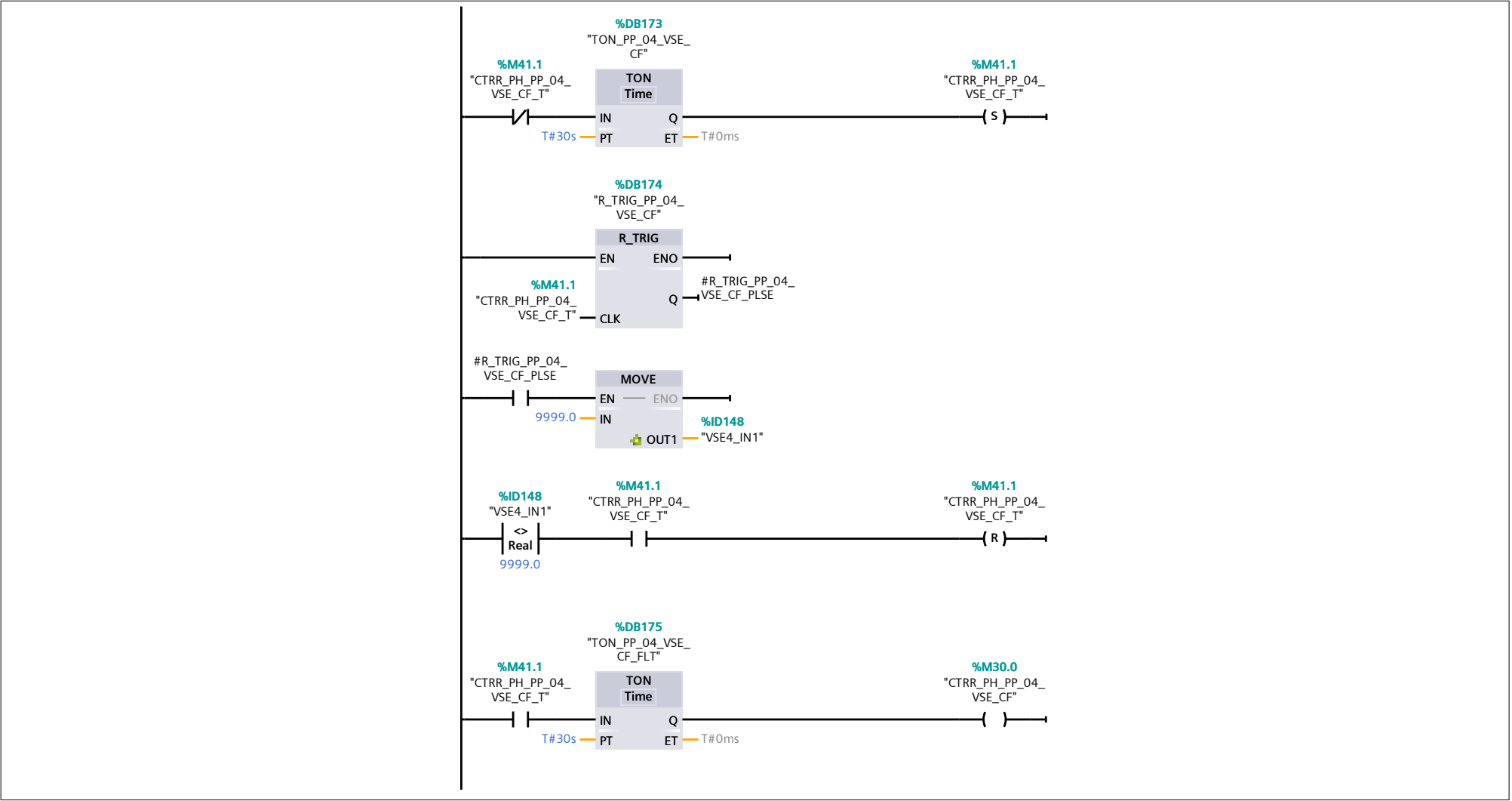
Network 5:

Pump 3 VSE Commsfail



Network 6:

Pump 4 VSE Commsfail



Totally Integrated Automation Portal

Program blocks

CM17_SERVICE_REQ_DB [DB176]

CM17_SERVICE_REQ_DB Properties

General

Name	CM17_SERVICE_REQ_DB	Number	176	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
MIN_SAVE_TRIG	UInt	0	False	True	True	True	False		
SERV_TIME	UInt	0	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
SERV_REQ	Bool	false	False	True	True	True	False		
HOURS_TO_SERV	UInt	0	False	True	True	True	False		
HOURS_PAST	UInt	0	False	True	True	True	False		
▼ InOut									
MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
CNT_RST	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_UINT		True	True	True	True	True		
CU	Bool	false	True	True	True	True	False		
CD	Bool	false	True	True	True	True	False		
R	Bool	false	True	True	True	True	False		
LD	Bool	false	True	True	True	True	False		
QU	Bool	false	True	True	True	True	False		
QD	Bool	false	True	True	True	True	False		
PV	UInt	0	True	True	True	True	False		
CV	UInt	0	True	True	True	True	False		

Totally Integrated Automation Portal

Program blocks

CM17_SERVICE_REQ_PP-01 [DB177]

CM17_SERVICE_REQ_PP-01 Properties

General

Name	CM17_SERVICE_REQ_PP-01	Number	177	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
MIN_SAVE_TRIG	UInt	0	False	True	True	True	False		
SERV_TIME	UInt	0	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
SERV_REQ	Bool	false	False	True	True	True	False		
HOURS_TO_SERV	UInt	0	False	True	True	True	False		
HOURS_PAST	UInt	0	False	True	True	True	False		
▼ InOut									
MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
CNT_RST	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_UINT		True	True	True	True	True		
CU	Bool	false	True	True	True	True	False		
CD	Bool	false	True	True	True	True	False		
R	Bool	false	True	True	True	True	False		
LD	Bool	false	True	True	True	True	False		
QU	Bool	false	True	True	True	True	False		
QD	Bool	false	True	True	True	True	False		
PV	UInt	0	True	True	True	True	False		
CV	UInt	0	True	True	True	True	False		

Totally Integrated Automation Portal

Program blocks

CM17_SERVICE_REQ_PP-02 [DB178]

CM17_SERVICE_REQ_PP-02 Properties

General

Name	CM17_SERVICE_REQ_PP-02	Number	178	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
MIN_SAVE_TRIG	UInt	0	False	True	True	True	False		
SERV_TIME	UInt	0	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
SERV_REQ	Bool	false	False	True	True	True	False		
HOURS_TO_SERV	UInt	0	False	True	True	True	False		
HOURS_PAST	UInt	0	False	True	True	True	False		
▼ InOut									
MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
CNT_RST	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_UINT		True	True	True	True	True		
CU	Bool	false	True	True	True	True	False		
CD	Bool	false	True	True	True	True	False		
R	Bool	false	True	True	True	True	False		
LD	Bool	false	True	True	True	True	False		
QU	Bool	false	True	True	True	True	False		
QD	Bool	false	True	True	True	True	False		
PV	UInt	0	True	True	True	True	False		
CV	UInt	0	True	True	True	True	False		

Totally Integrated Automation Portal

Program blocks

CM17_SERVICE_REQ_PP-03 [DB179]

CM17_SERVICE_REQ_PP-03 Properties

General

Name	CM17_SERVICE_REQ_PP-03	Number	179	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
MIN_SAVE_TRIG	UInt	0	False	True	True	True	False		
SERV_TIME	UInt	0	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
SERV_REQ	Bool	false	False	True	True	True	False		
HOURS_TO_SERV	UInt	0	False	True	True	True	False		
HOURS_PAST	UInt	0	False	True	True	True	False		
▼ InOut									
MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
CNT_RST	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_UINT		True	True	True	True	True		
CU	Bool	false	True	True	True	True	False		
CD	Bool	false	True	True	True	True	False		
R	Bool	false	True	True	True	True	False		
LD	Bool	false	True	True	True	True	False		
QU	Bool	false	True	True	True	True	False		
QD	Bool	false	True	True	True	True	False		
PV	UInt	0	True	True	True	True	False		
CV	UInt	0	True	True	True	True	False		

Totally Integrated Automation Portal

Program blocks

CM17_SERVICE_REQ_PP-04 [DB180]

CM17_SERVICE_REQ_PP-04 Properties

General

Name	CM17_SERVICE_REQ_PP-04	Number	180	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
MIN_SAVE_TRIG	UInt	0	False	True	True	True	False		
SERV_TIME	UInt	0	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
SERV_REQ	Bool	false	False	True	True	True	False		
HOURS_TO_SERV	UInt	0	False	True	True	True	False		
HOURS_PAST	UInt	0	False	True	True	True	False		
▼ InOut									
MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
CNT_RST	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_UINT		True	True	True	True	True		
CU	Bool	false	True	True	True	True	False		
CD	Bool	false	True	True	True	True	False		
R	Bool	false	True	True	True	True	False		
LD	Bool	false	True	True	True	True	False		
QU	Bool	false	True	True	True	True	False		
QD	Bool	false	True	True	True	True	False		
PV	UInt	0	True	True	True	True	False		
CV	UInt	0	True	True	True	True	False		

Totally Integrated Automation Portal

Program blocks

CM17_SERVICE_REQ_PP-05 [DB181]

CM17_SERVICE_REQ_PP-05 Properties

General

Name	CM17_SERVICE_REQ_PP-05	Number	181	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
MIN_SAVE_TRIG	UInt	0	False	True	True	True	False		
SERV_TIME	UInt	0	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
SERV_REQ	Bool	false	False	True	True	True	False		
HOURS_TO_SERV	UInt	0	False	True	True	True	False		
HOURS_PAST	UInt	0	False	True	True	True	False		
▼ InOut									
MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
CNT_RST	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_UINT		True	True	True	True	True		
CU	Bool	false	True	True	True	True	False		
CD	Bool	false	True	True	True	True	False		
R	Bool	false	True	True	True	True	False		
LD	Bool	false	True	True	True	True	False		
QU	Bool	false	True	True	True	True	False		
QD	Bool	false	True	True	True	True	False		
PV	UInt	0	True	True	True	True	False		
CV	UInt	0	True	True	True	True	False		

Program blocks / Modbus

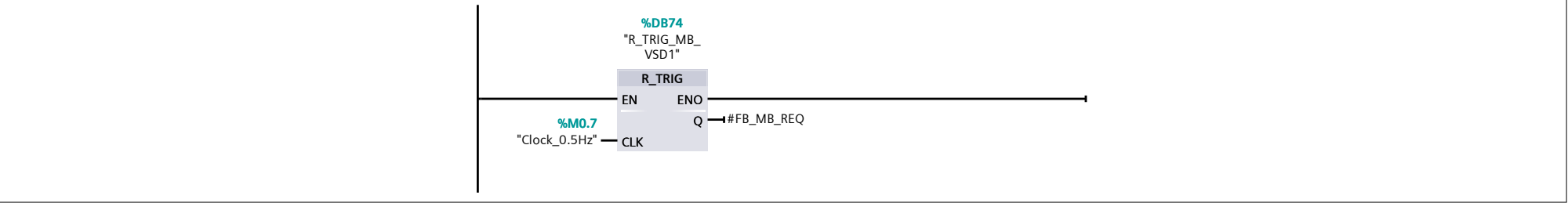
MB_PB_VSD1 [OB129]

MB_PB_VSD1 Properties							
General							
Name	MB_PB_VSD1	Number	129	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
▼ Temp			
FB_MB_REQ	Bool		
FB_MB_DONE_P	Bool		
R_TRIG_VSD1_CF_PLSE	Bool		
▼ FB_MB_DATA	Array[0..9] of Word		
FB_MB_DATA[0]	Word		
FB_MB_DATA[1]	Word		
FB_MB_DATA[2]	Word		
FB_MB_DATA[3]	Word		
FB_MB_DATA[4]	Word		
FB_MB_DATA[5]	Word		
FB_MB_DATA[6]	Word		
FB_MB_DATA[7]	Word		
FB_MB_DATA[8]	Word		
FB_MB_DATA[9]	Word		
Constant			

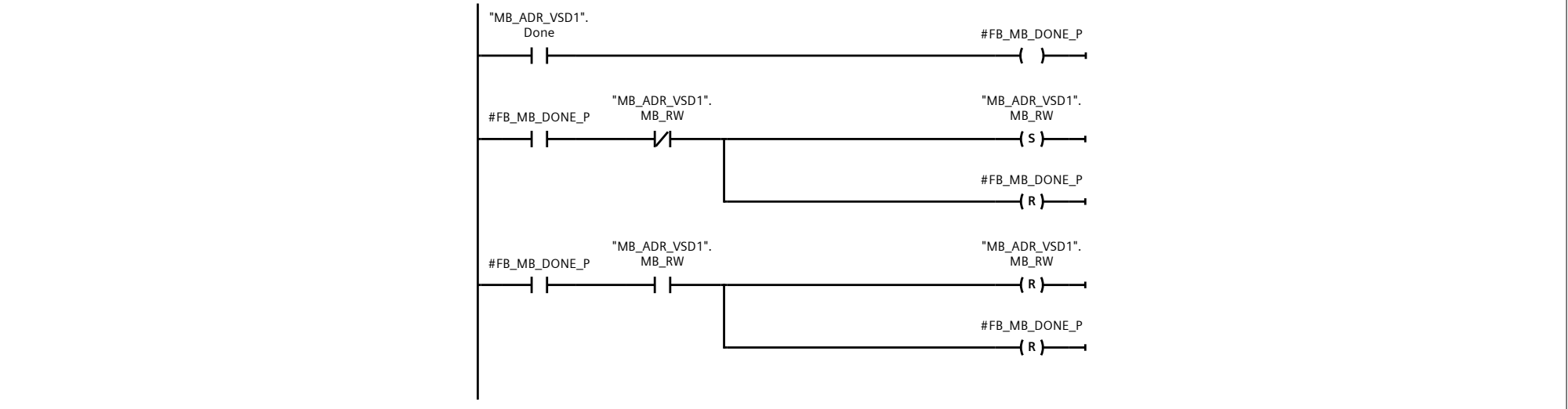
Network 1:

Modbus Create Request



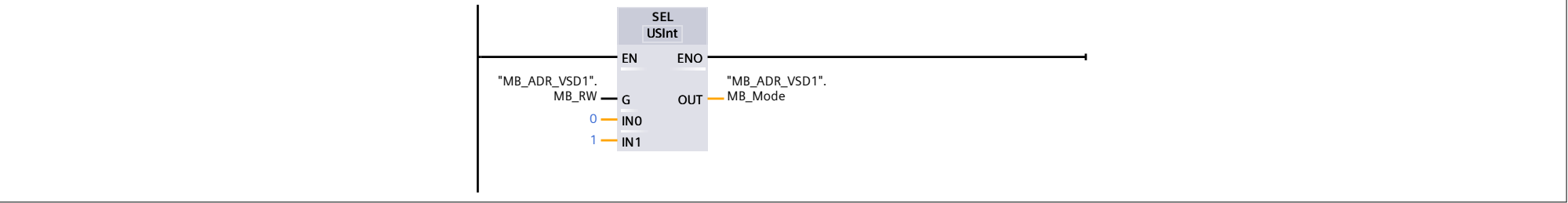
Network 2:

Toggle Between read and write



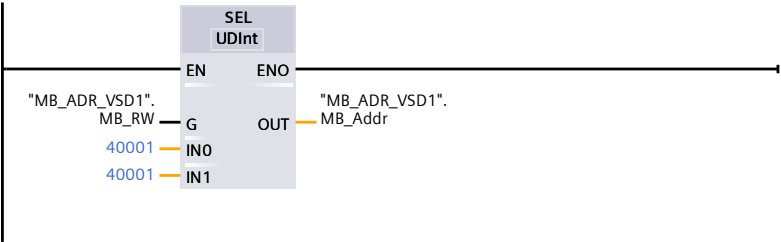
Network 3:

Select Modbus Command 0 - read 1 - write



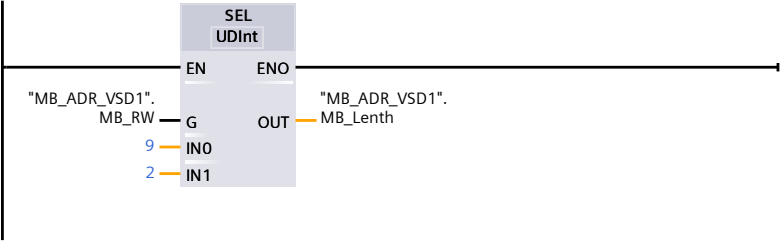
Network 4:

Select Modbus device Modbus Address



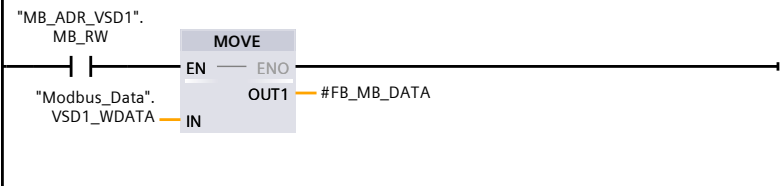
Network 5:

Select number of modbus words read or write



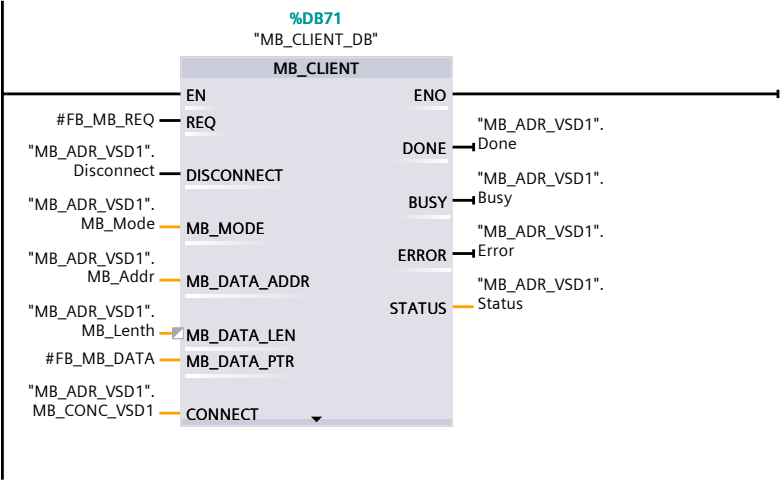
Network 6:

Move Values to be written into Modbus pointer array

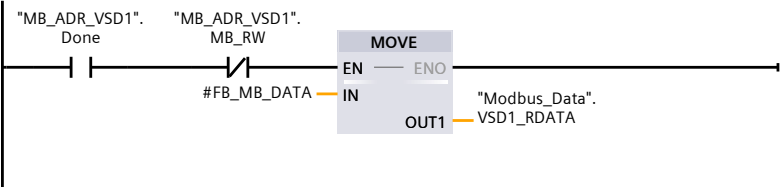


Network 7:

Modbus Function Block

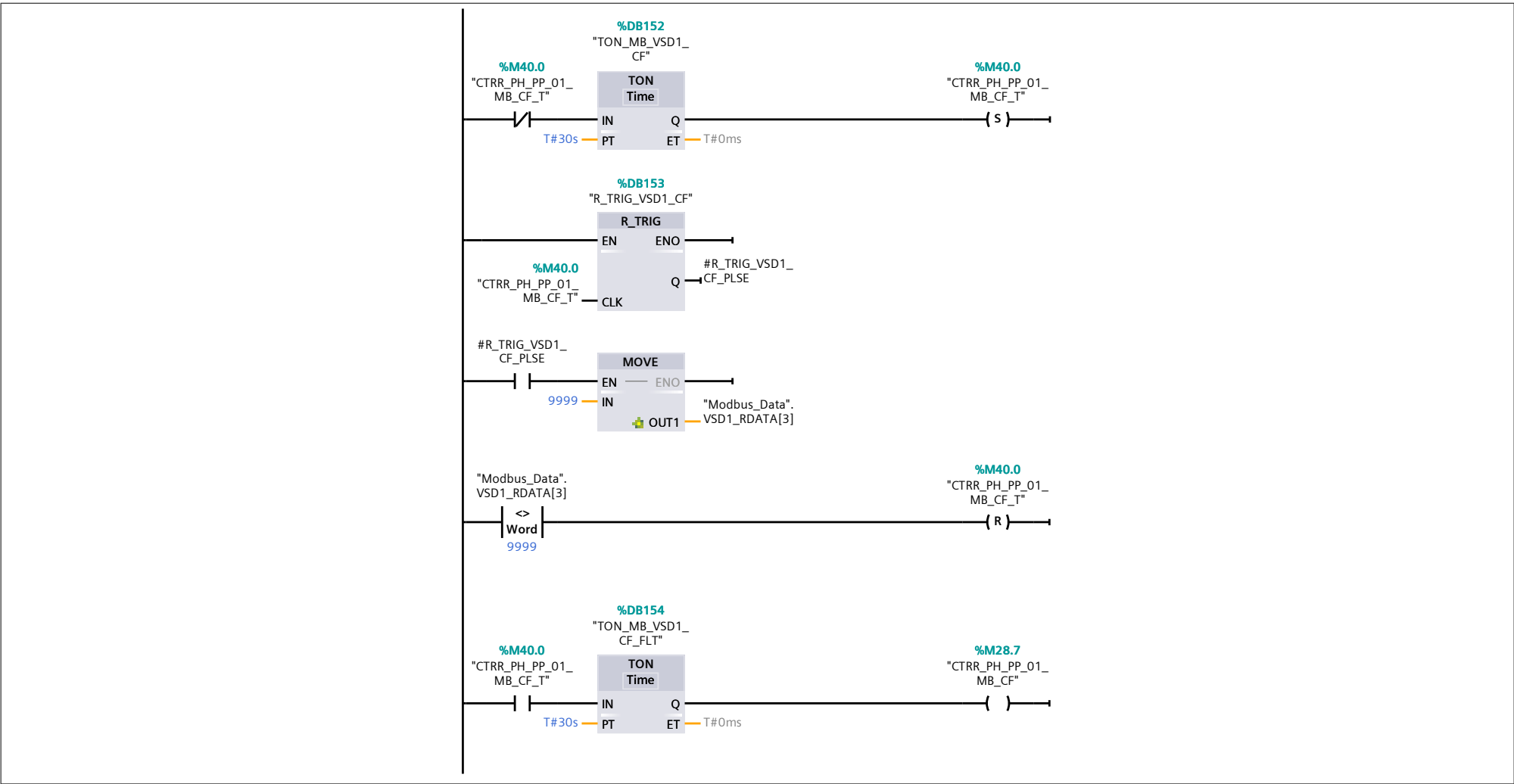


Network 8:



Network 9:

Comms Fail



Program blocks / Modbus

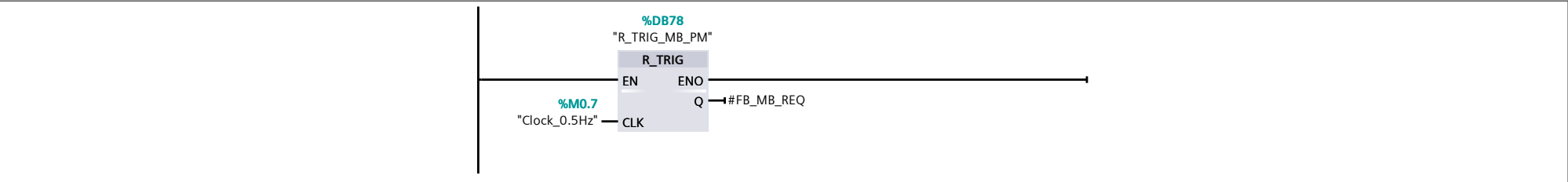
MB_PB_PM [OB131]

MB_PB_PM Properties							
General							
Name	MB_PB_PM	Number	131	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
▼ Temp			
FB_MB_REQ	Bool		
FB_MB_DONE_P	Bool		
▼ FB_MB_DATA	Array[0..13] of DInt		
FB_MB_DATA[0]	DInt		
FB_MB_DATA[1]	DInt		
FB_MB_DATA[2]	DInt		
FB_MB_DATA[3]	DInt		
FB_MB_DATA[4]	DInt		
FB_MB_DATA[5]	DInt		
FB_MB_DATA[6]	DInt		
FB_MB_DATA[7]	DInt		
FB_MB_DATA[8]	DInt		
FB_MB_DATA[9]	DInt		
FB_MB_DATA[10]	DInt		
FB_MB_DATA[11]	DInt		
FB_MB_DATA[12]	DInt		
FB_MB_DATA[13]	DInt		
CONV_TEMP	DInt		
Constant			

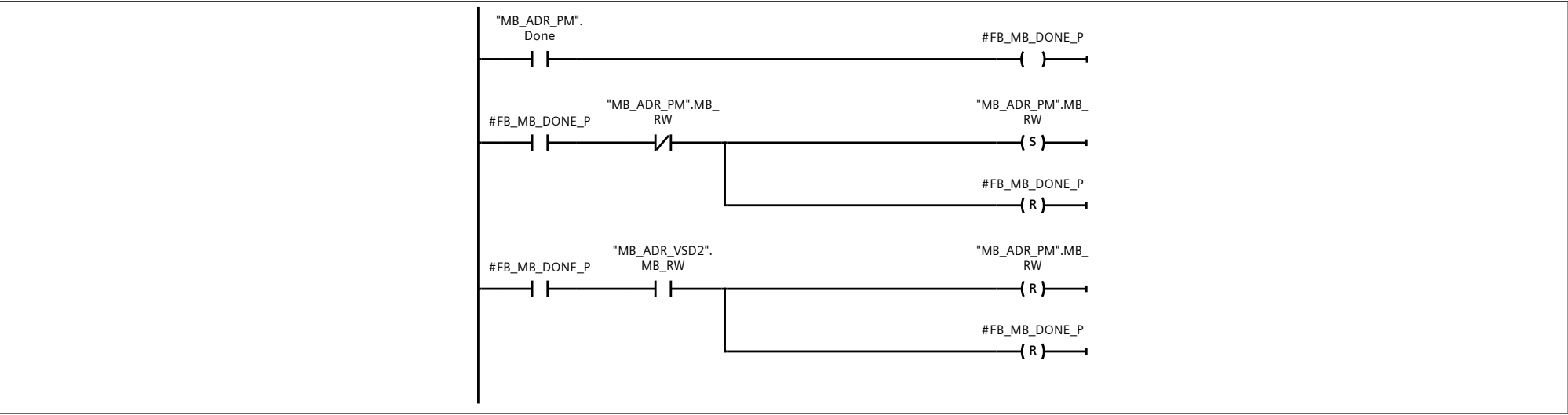
Network 1:

Modbus Create Request



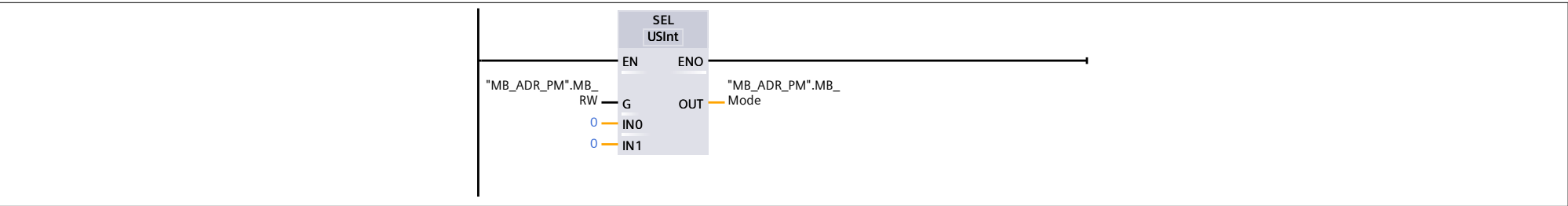
Network 2:

Toggle Between read and write



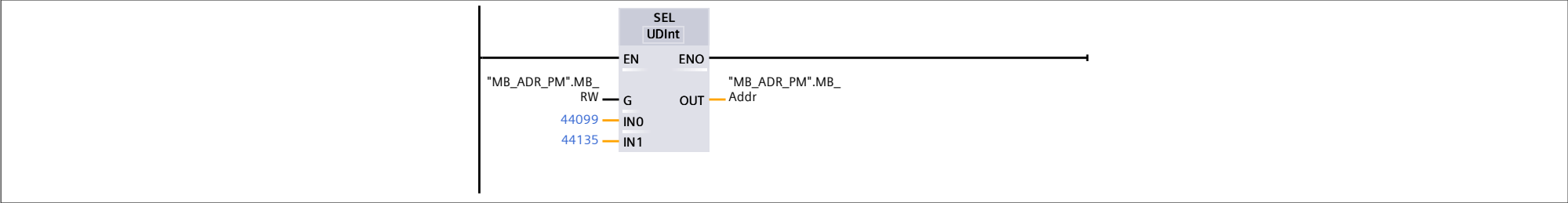
Network 3:

Select Modbus Command 0 - read 1 - write



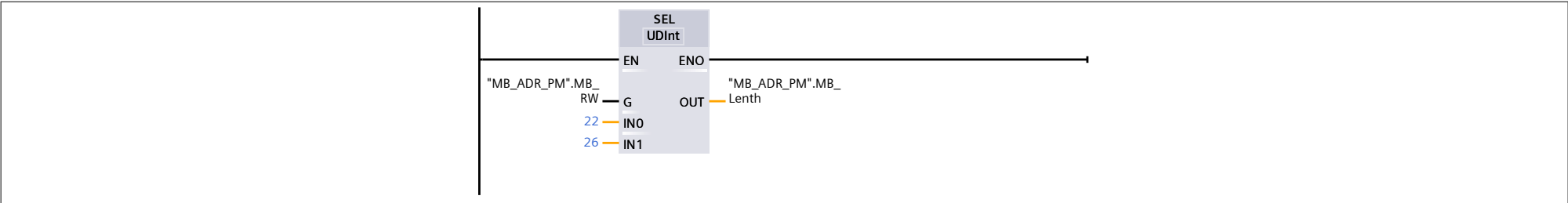
Network 4:

Select Modbus device Modbus Address

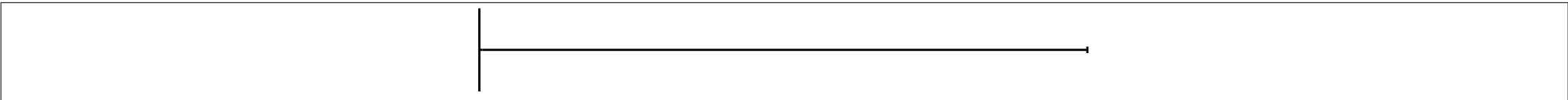


Network 5:

Select number of modbus words read or write

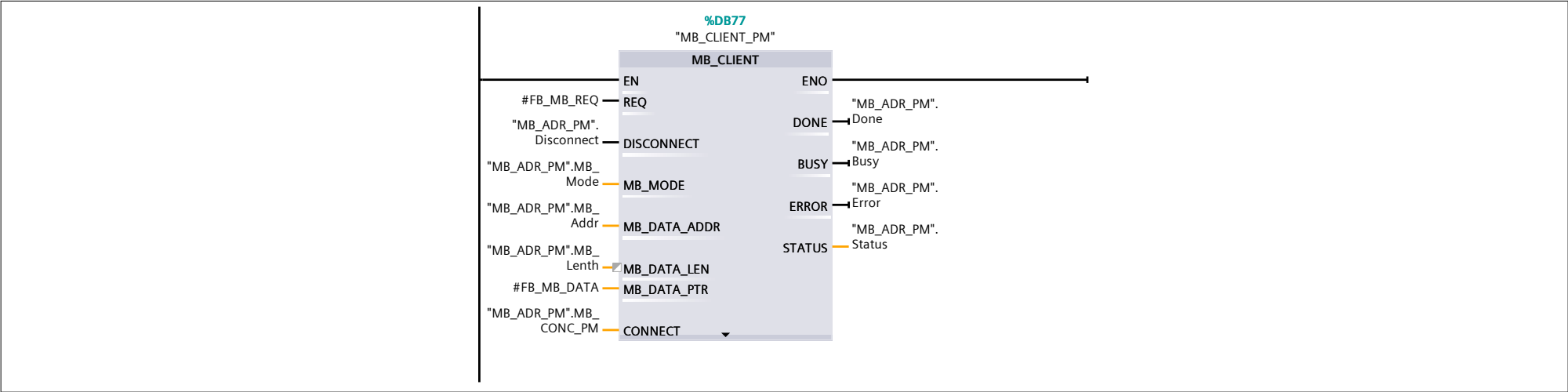


Network 6:



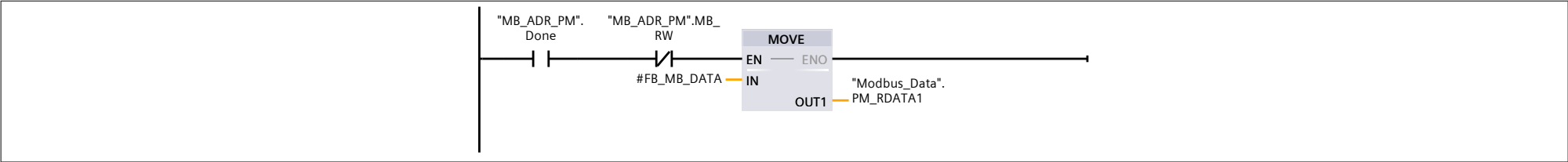
Network 7:

Modbus Function Block



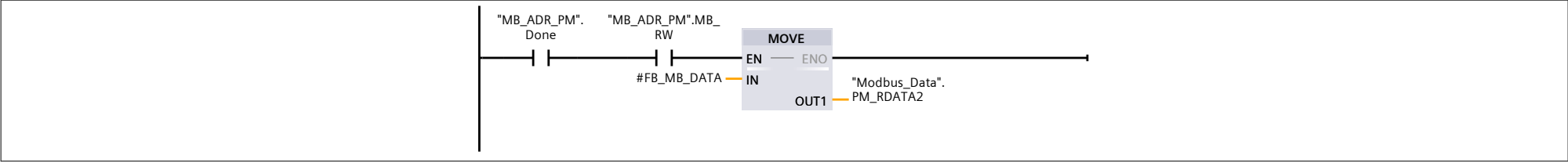
Network 8:

Read Bank 1



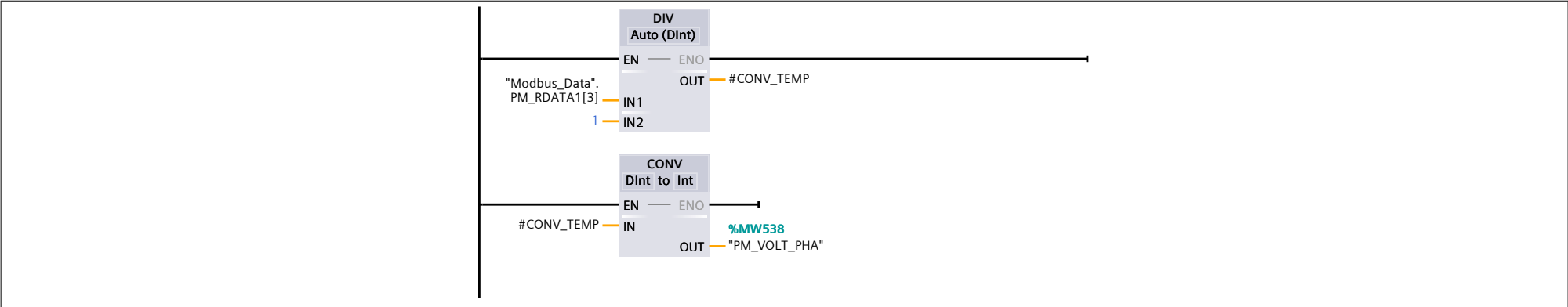
Network 9:

Read Bank 2



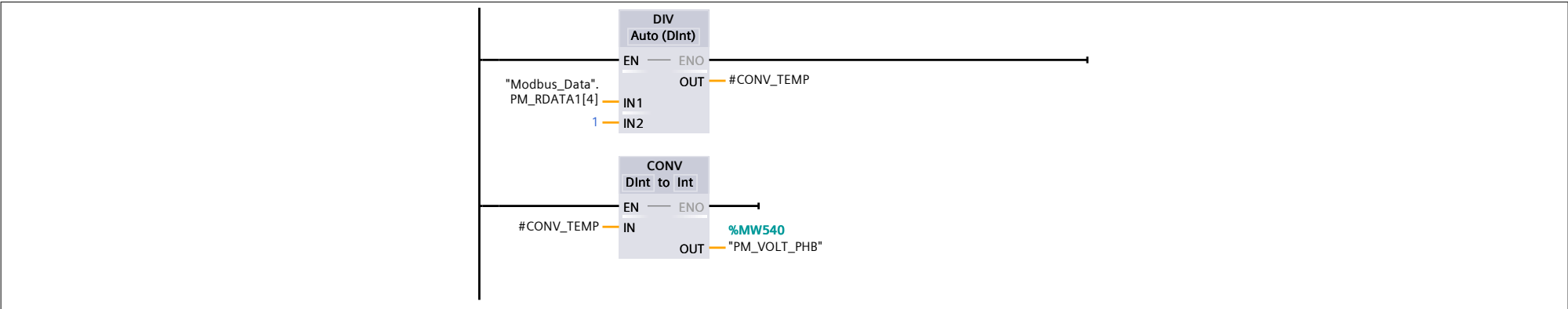
Network 10:

Phase A Voltage



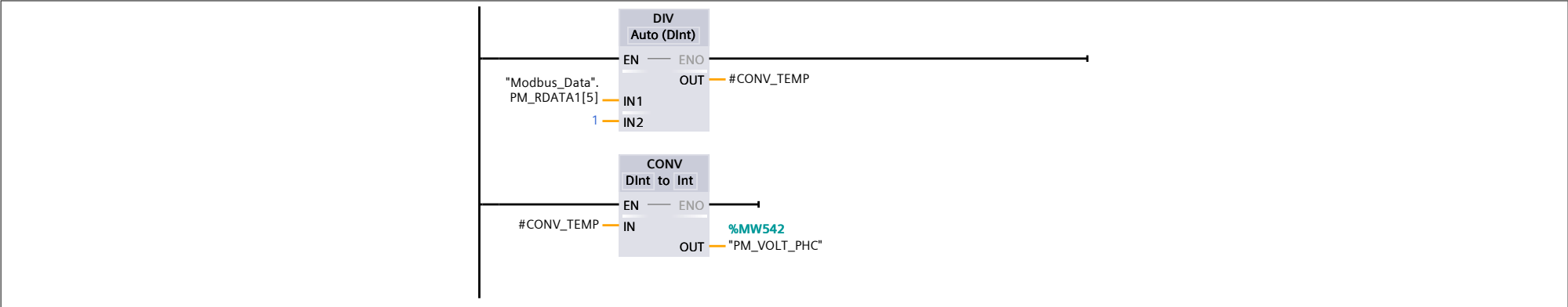
Network 11:

Phase B Voltage



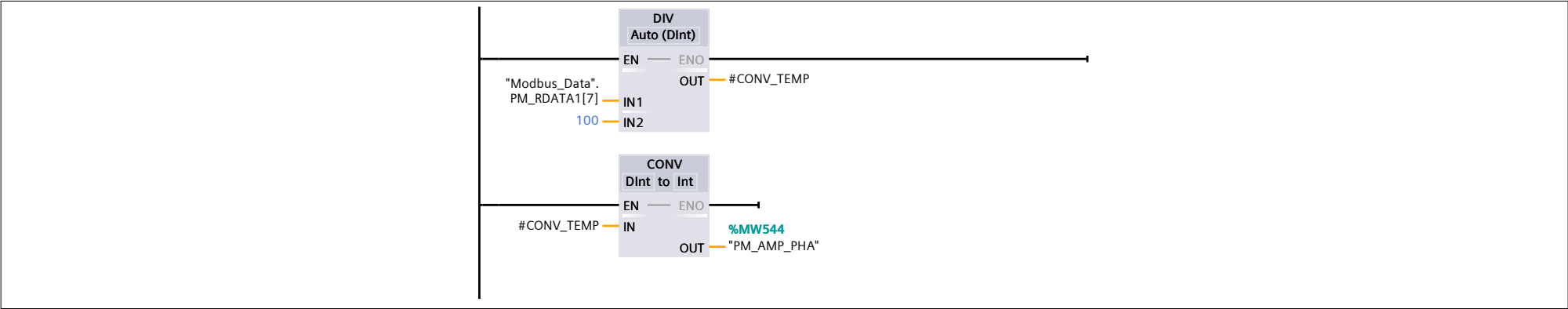
Network 12:

Phase C Voltage



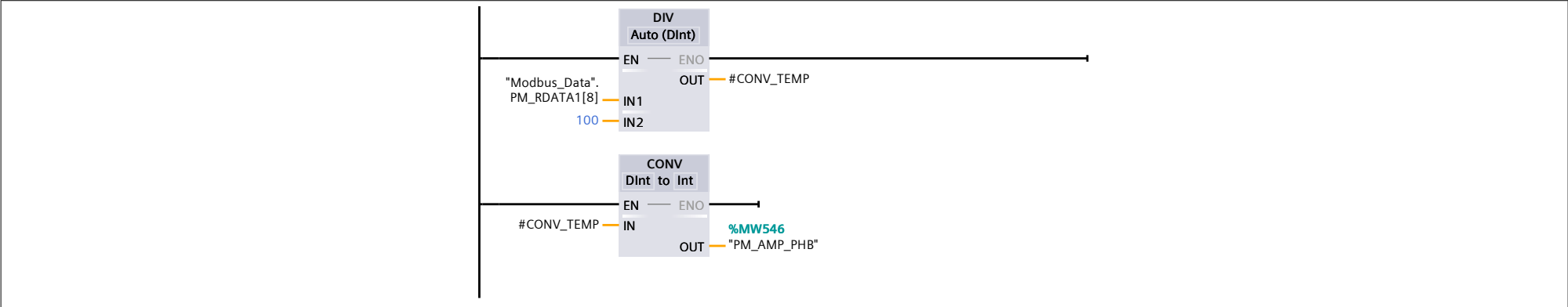
Network 13:

Phase A Current



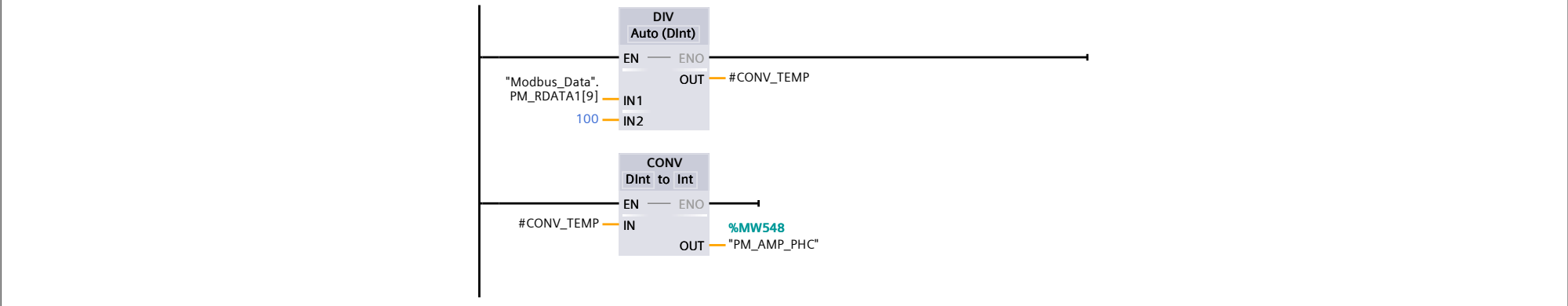
Network 14:

Phase B Current



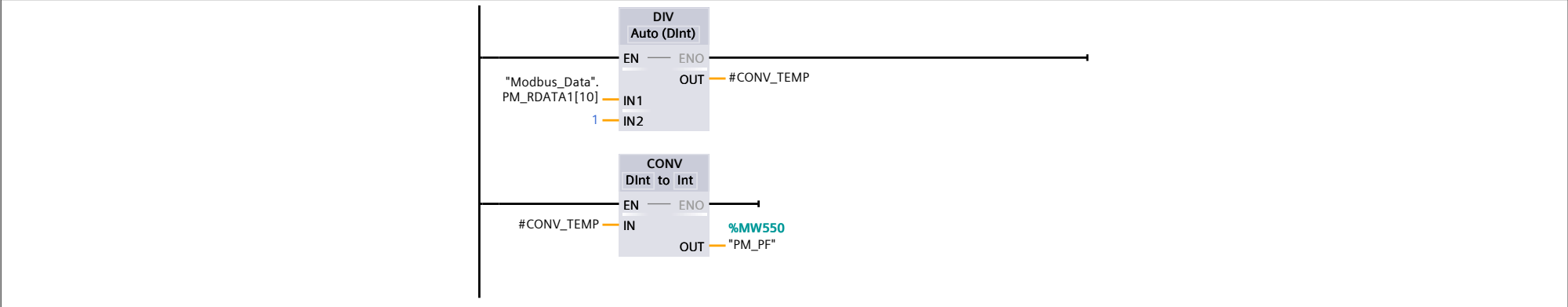
Network 15:

Phase C Current



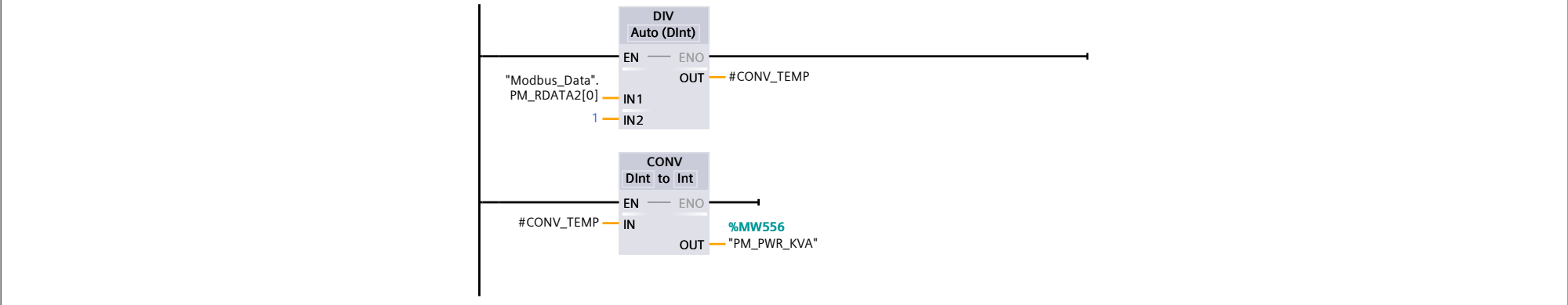
Network 16:

Power Factor



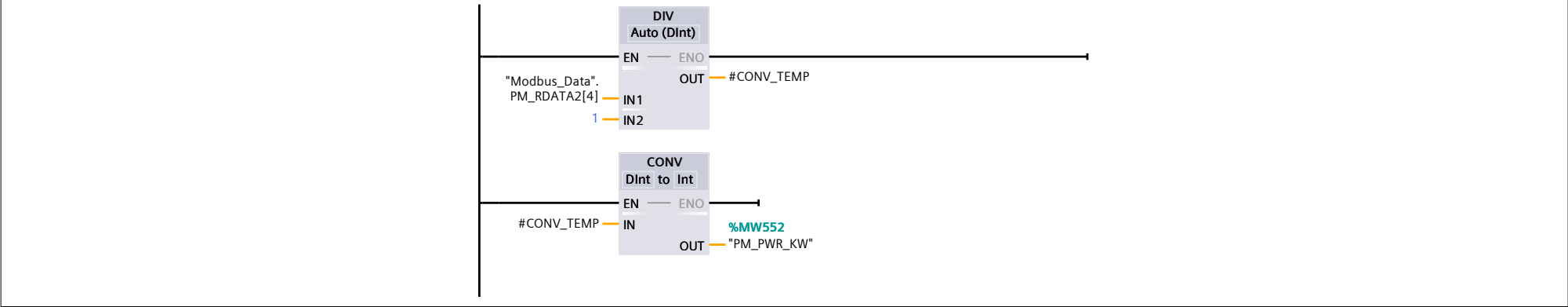
Network 17:

Apperent Power



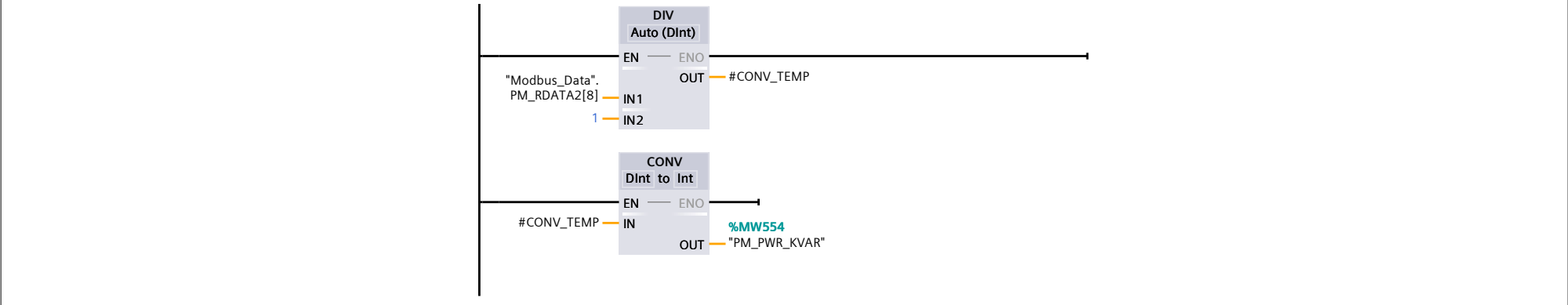
Network 18:

Active Power



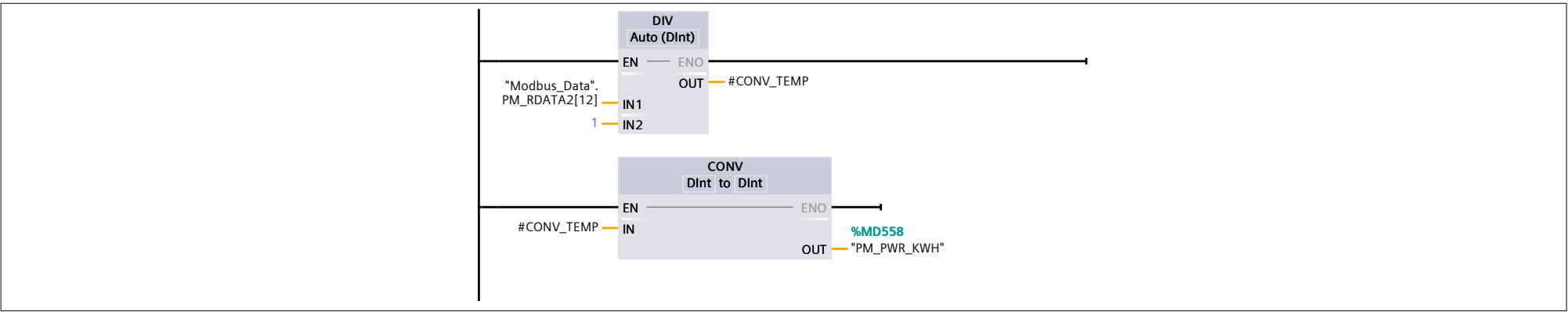
Network 19:

Reactive Power



Network 20:

Kilowatt Hours



Program blocks / Modbus

MB_PB_VSD2 [OB132]

MB_PB_VSD2 Properties

General

Name	MB_PB_VSD2	Number	132	Type	OB	Language	LAD
Numbering	Automatic						

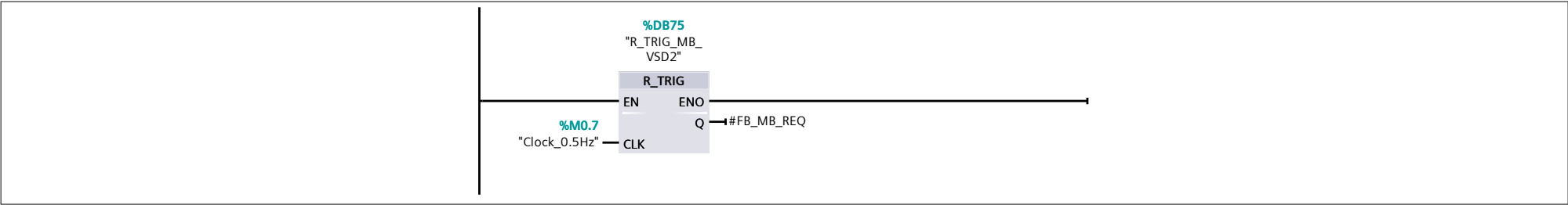
Information

Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
▼ Temp			
FB_MB_REQ	Bool		
FB_MB_DONE_P	Bool		
R_TRIG_VSD2_CF_PLSE	Bool		
▼ FB_MB_DATA	Array[0..9] of Word		
FB_MB_DATA[0]	Word		
FB_MB_DATA[1]	Word		
FB_MB_DATA[2]	Word		
FB_MB_DATA[3]	Word		
FB_MB_DATA[4]	Word		
FB_MB_DATA[5]	Word		
FB_MB_DATA[6]	Word		
FB_MB_DATA[7]	Word		
FB_MB_DATA[8]	Word		
FB_MB_DATA[9]	Word		
Constant			

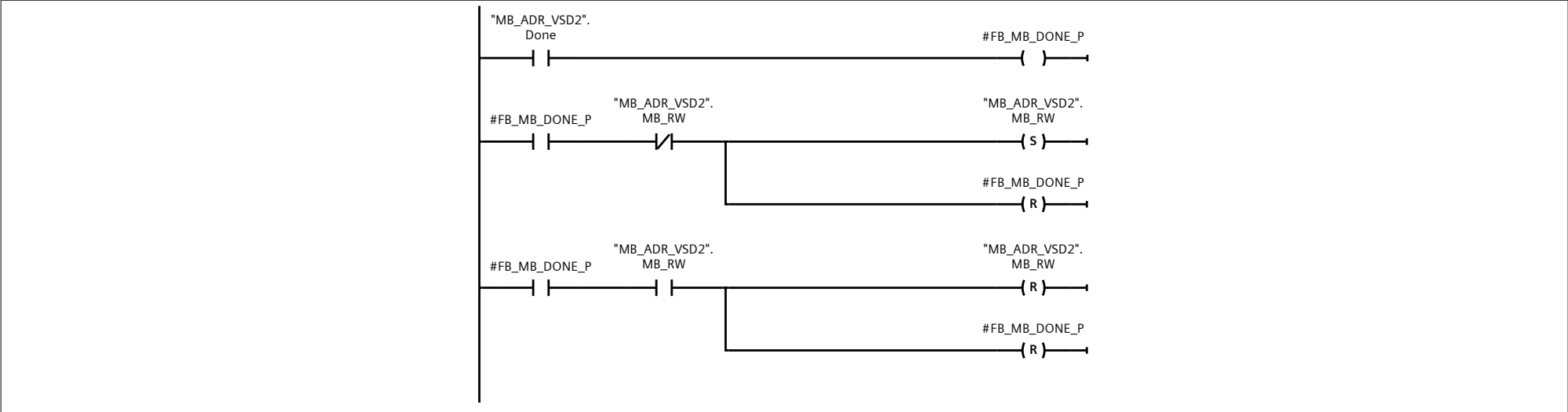
Network 1:

Modbus Create Request



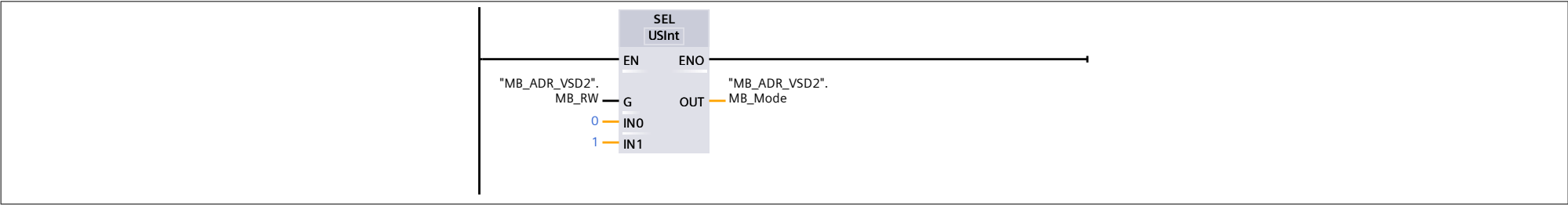
Network 2:

Toggle Between read and write



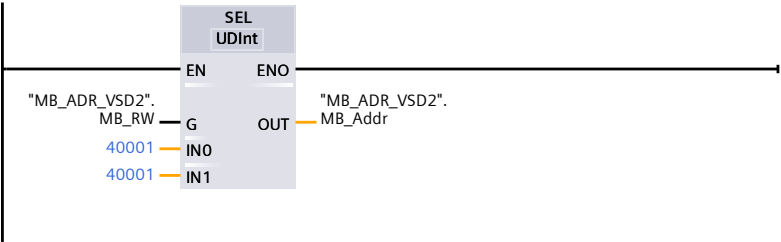
Network 3:

Select Modbus Command 0 - read 1 - write



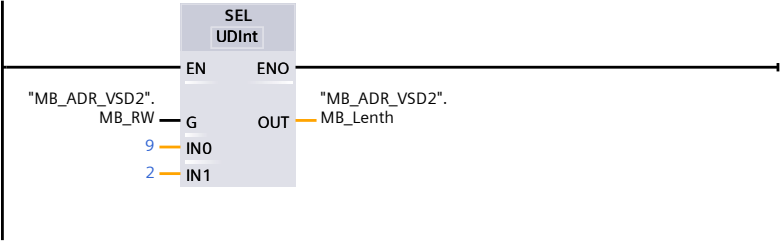
Network 4:

Select Modbus device Modbus Address



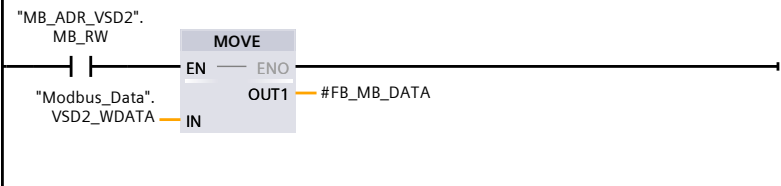
Network 5:

Select number of modbus words read or write



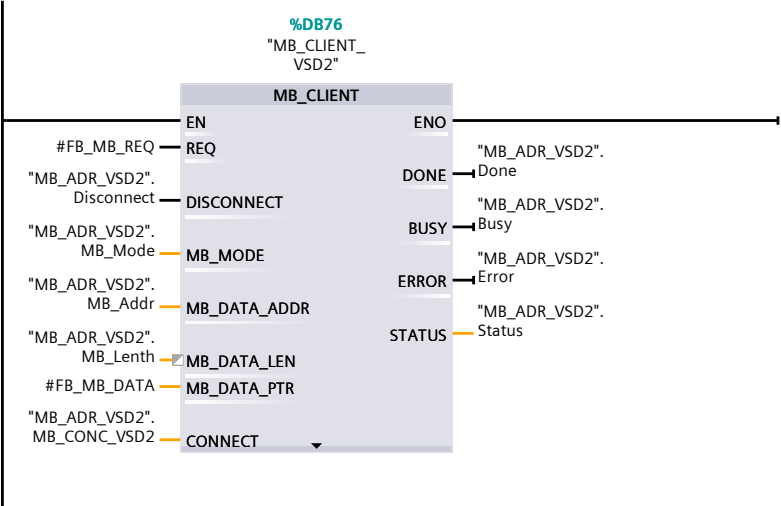
Network 6:

Move Values to be written into Modbus pointer array

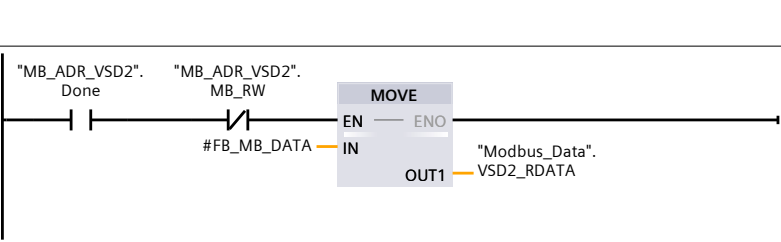


Network 7:

Modbus Function Block

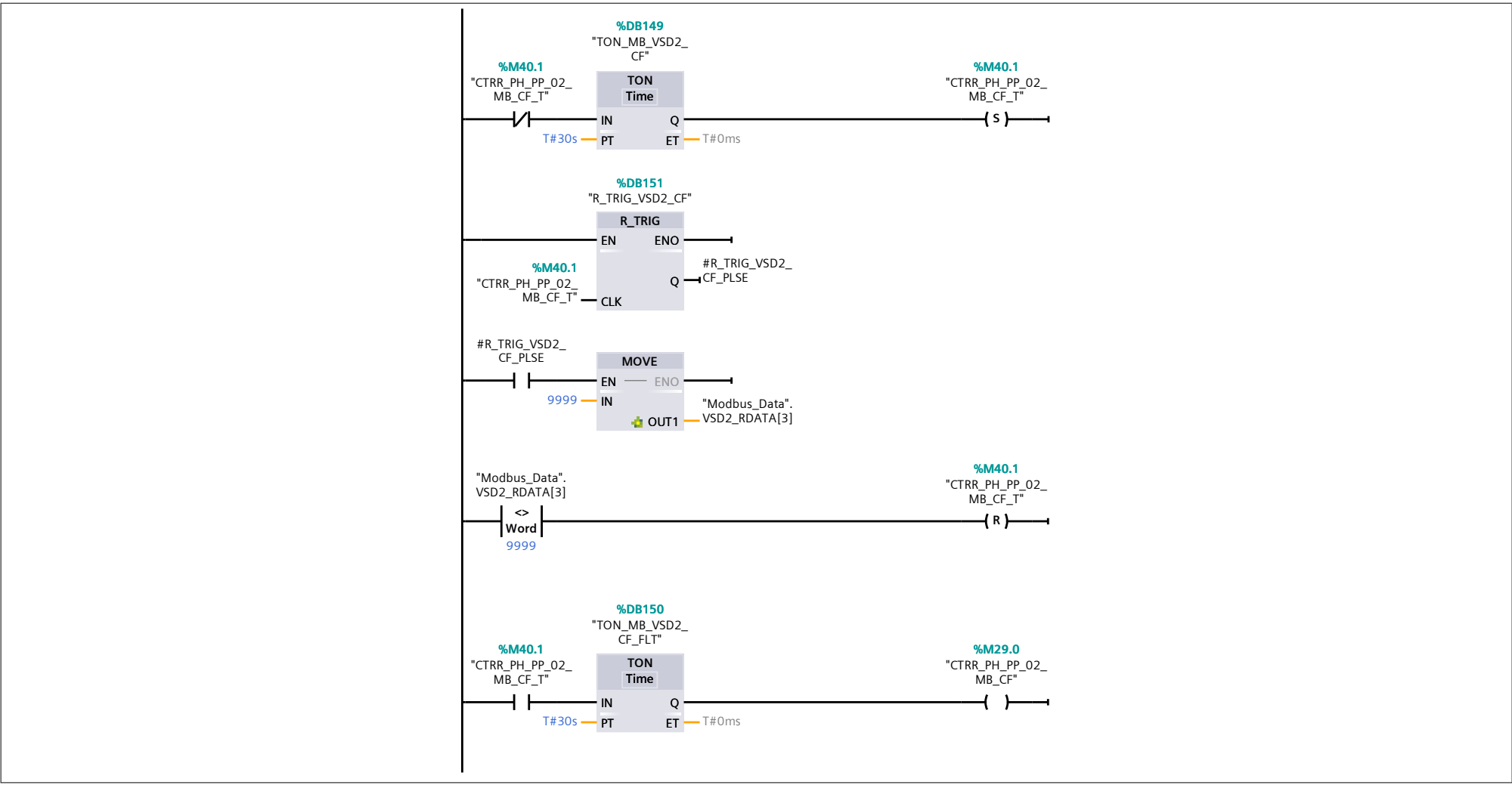


Network 8:



Network 9:

Comms Fail



Program blocks / Modbus

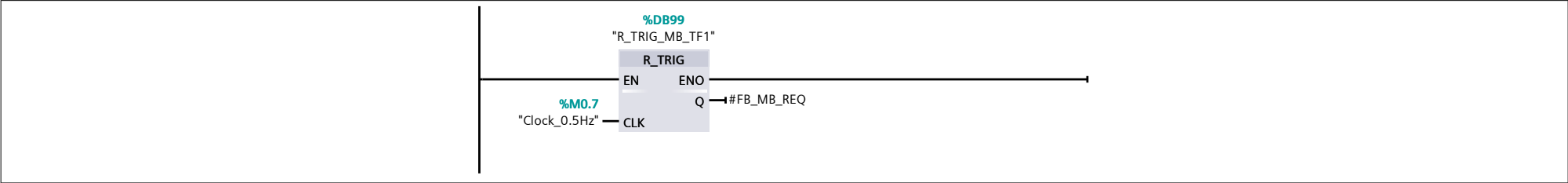
MB_PB_TF1 [OB135]

MB_PB_TF1 Properties							
General							
Name	MB_PB_TF1	Number	135	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
▼ Temp			
FB_MB_REQ	Bool		
FB_MB_DONE_P	Bool		
R_TRIG_RTU_CF_PLSE	Bool		
▼ FB_MB_DATA	Array[0..12] of Word		
FB_MB_DATA[0]	Word		
FB_MB_DATA[1]	Word		
FB_MB_DATA[2]	Word		
FB_MB_DATA[3]	Word		
FB_MB_DATA[4]	Word		
FB_MB_DATA[5]	Word		
FB_MB_DATA[6]	Word		
FB_MB_DATA[7]	Word		
FB_MB_DATA[8]	Word		
FB_MB_DATA[9]	Word		
FB_MB_DATA[10]	Word		
FB_MB_DATA[11]	Word		
FB_MB_DATA[12]	Word		
Constant			

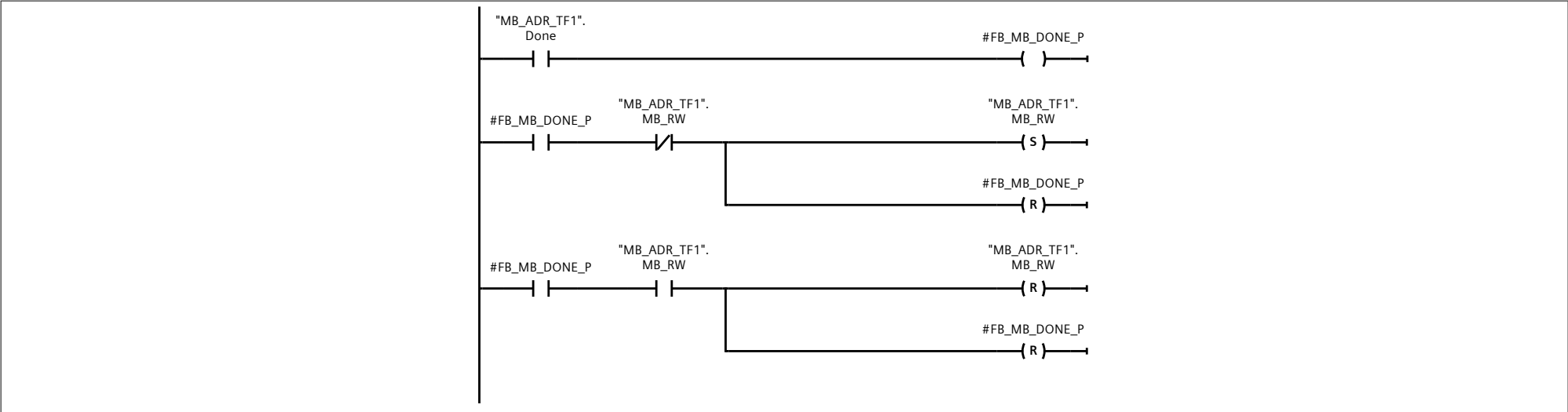
Network 1:

Modbus Create Request



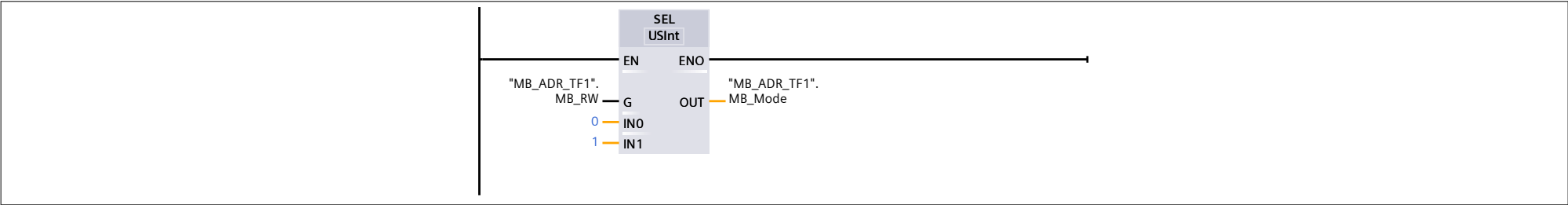
Network 2:

Toggle Between read and write



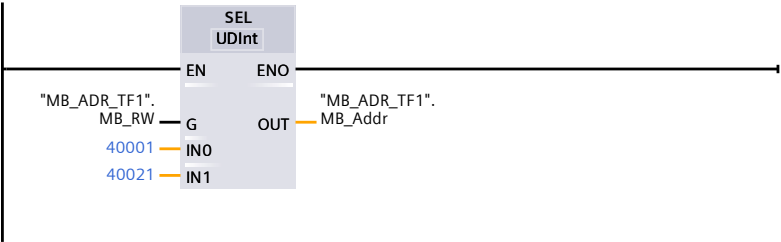
Network 3:

Select Modbus Command 0 - read 1 - write



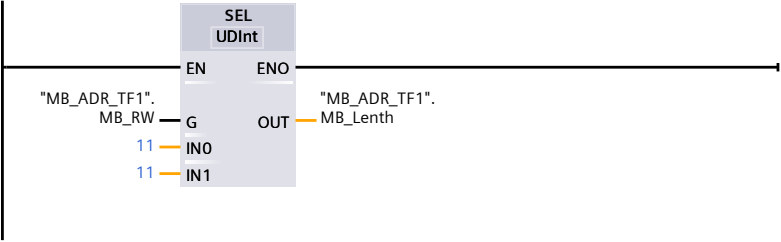
Network 4:

Select Modbus device Modbus Address



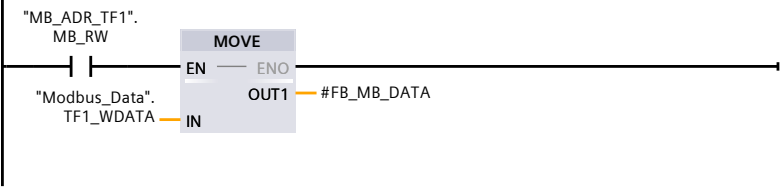
Network 5:

Select number of modbus words read or write



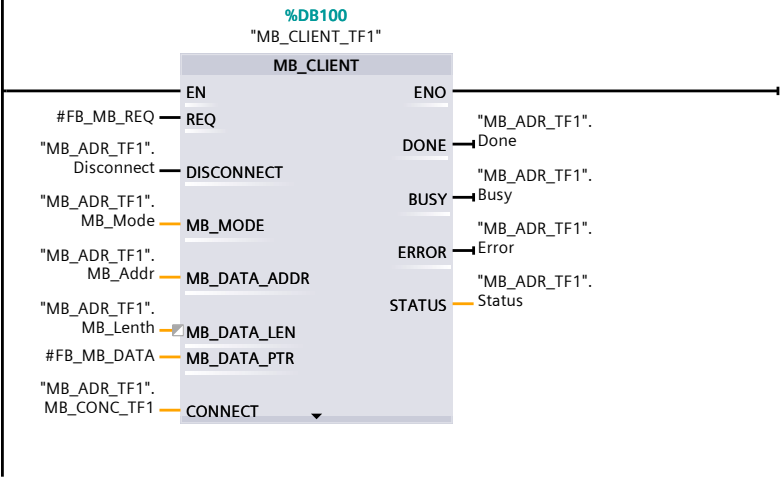
Network 6:

Move Values to be written into Modbus pointer array

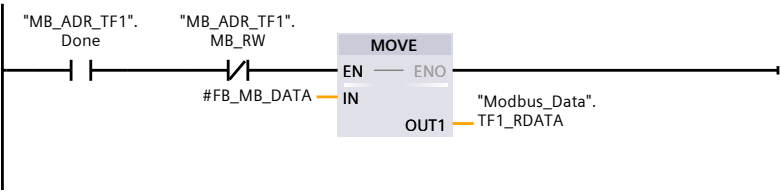


Network 7:

Modbus Function Block



Network 8:



Network 9:

Comms Fail

Totally Integrated Automation Portal

Program blocks / Modbus

MB_ADR_VSD1 [DB72]

MB_ADR_VSD1 Properties

General

Name	MB_ADR_VSD1	Number	72	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
▼ MB_CONC_VSD1	TCON_IP_v4		False	True	True	True	False		
Interfaceld	HW_ANY	64	False	True	True	True	False		HW-identifier of IE-interface submod-ule
ID	CONN_OUC	1	False	True	True	True	False		connection reference / identifier
ConnectionType	Byte	11	False	True	True	True	False		type of connection: 11=TCP/IP, 19=UDP (17=TCP/IP)
ActiveEstablished	Bool	1	False	True	True	True	False		active/passive connection establish-ment
▼ RemoteAddress	IP_V4		False	True	True	True	False		remote IP address (IPv4)
▼ ADDR	Array[1..4] of Byte		False	True	True	True	False		IPv4 address
ADDR[1]	Byte	192	False	True	True	True	False		IPv4 address
ADDR[2]	Byte	168	False	True	True	True	False		IPv4 address
ADDR[3]	Byte	100	False	True	True	True	False		IPv4 address
ADDR[4]	Byte	71	False	True	True	True	False		IPv4 address
RemotePort	UInt	502	False	True	True	True	False		remote UDP/TCP port number
LocalPort	UInt	0	False	True	True	True	False		local UDP/TCP port number
Done	Bool	false	False	True	True	True	False		
Busy	Bool	false	False	True	True	True	False		
Error	Bool	false	False	True	True	True	False		
Status	Word	16#0	False	True	True	True	False		
Request	Bool	false	False	True	True	True	False		
MB_Mode	USInt	0	False	True	True	True	False		
MB_Addr	UDInt	40001	False	True	True	True	False		
MB_Lenth	UDInt	16	False	True	True	True	False		
Disconnect	Bool	false	False	True	True	True	False		
MB_RW	Bool	false	False	True	True	True	False		

Totally Integrated Automation Portal

Program blocks / Modbus

Modbus_Data [DB73]

Modbus_Data Properties

General

Name	Modbus_Data	Number	73	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
▼ VSD1_RDATA	Array[0..9] of Word		False	True	True	True	False		
VSD1_RDATA[0]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[1]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[2]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[3]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[4]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[5]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[6]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[7]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[8]	Word	16#0	False	True	True	True	False		
VSD1_RDATA[9]	Word	16#0	False	True	True	True	False		
▼ VSD1_WDATA	Array[0..9] of Word		False	True	True	True	False		
VSD1_WDATA[0]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[1]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[2]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[3]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[4]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[5]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[6]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[7]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[8]	Word	16#0	False	True	True	True	False		
VSD1_WDATA[9]	Word	16#0	False	True	True	True	False		
▼ VSD2_RDATA	Array[0..9] of Word		False	True	True	True	False		
VSD2_RDATA[0]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[1]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[2]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[3]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[4]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[5]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[6]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[7]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[8]	Word	16#0	False	True	True	True	False		
VSD2_RDATA[9]	Word	16#0	False	True	True	True	False		
▼ VSD2_WDATA	Array[0..9] of Word		False	True	True	True	False		
VSD2_WDATA[0]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[1]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[2]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[3]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[4]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[5]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[6]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[7]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[8]	Word	16#0	False	True	True	True	False		
VSD2_WDATA[9]	Word	16#0	False	True	True	True	False		
▼ PM_RDATA1	Array[0..13] of DInt		False	True	True	True	False		
PM_RDATA1[0]	DInt	0	False	True	True	True	False		
PM_RDATA1[1]	DInt	0	False	True	True	True	False		
PM_RDATA1[2]	DInt	0	False	True	True	True	False		
PM_RDATA1[3]	DInt	0	False	True	True	True	False		
PM_RDATA1[4]	DInt	0	False	True	True	True	False		
PM_RDATA1[5]	DInt	0	False	True	True	True	False		
PM_RDATA1[6]	DInt	0	False	True	True	True	False		
PM_RDATA1[7]	DInt	0	False	True	True	True	False		
PM_RDATA1[8]	DInt	0	False	True	True	True	False		
PM_RDATA1[9]	DInt	0	False	True	True	True	False		
PM_RDATA1[10]	DInt	0	False	True	True	True	False		

Totally Integrated Automation Portal

Program blocks / Modbus

MB_ADR_PM [DB84]

MB_ADR_PM Properties

General

Name	MB_ADR_PM	Number	84	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
▼ MB_CONC_PM	TCON_IP_v4		False	True	True	True	False		
Interfaceld	HW_ANY	64	False	True	True	True	False		HW-identifier of IE-interface submod-ule
ID	CONN_OUC	3	False	True	True	True	False		connection reference / identifier
ConnectionType	Byte	11	False	True	True	True	False		type of connection: 11=TCP/IP, 19=UDP (17=TCP/IP)
ActiveEstablished	Bool	1	False	True	True	True	False		active/passive connection establish-ment
▼ RemoteAddress	IP_V4		False	True	True	True	False		remote IP address (IPv4)
▼ ADDR	Array[1..4] of Byte		False	True	True	True	False		IPv4 address
ADDR[1]	Byte	192	False	True	True	True	False		IPv4 address
ADDR[2]	Byte	168	False	True	True	True	False		IPv4 address
ADDR[3]	Byte	100	False	True	True	True	False		IPv4 address
ADDR[4]	Byte	73	False	True	True	True	False		IPv4 address
RemotePort	UInt	502	False	True	True	True	False		remote UDP/TCP port number
LocalPort	UInt	0	False	True	True	True	False		local UDP/TCP port number
Done	Bool	false	False	True	True	True	False		
Busy	Bool	false	False	True	True	True	False		
Error	Bool	false	False	True	True	True	False		
Status	Word	16#0	False	True	True	True	False		
Request	Bool	false	False	True	True	True	False		
MB_Mode	USInt	0	False	True	True	True	False		
MB_Addr	UDInt	40001	False	True	True	True	False		
MB_Lenth	UDInt	16	False	True	True	True	False		
Disconnect	Bool	false	False	True	True	True	False		
MB_RW	Bool	false	False	True	True	True	False		

Totally Integrated Automation Portal

Program blocks / Modbus

MB_ADR_VSD2 [DB86]

MB_ADR_VSD2 Properties

General

Name	MB_ADR_VSD2	Number	86	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
▼ MB_CONC_VSD2	TCON_IP_v4		False	True	True	True	False		
Interfaceld	HW_ANY	64	False	True	True	True	False		HW-identifier of IE-interface submod-ule
ID	CONN_OUC	2	False	True	True	True	False		connection reference / identifier
ConnectionType	Byte	11	False	True	True	True	False		type of connection: 11=TCP/IP, 19=UDP (17=TCP/IP)
ActiveEstablished	Bool	1	False	True	True	True	False		active/passive connection establish-ment
▼ RemoteAddress	IP_V4		False	True	True	True	False		remote IP address (IPv4)
▼ ADDR	Array[1..4] of Byte		False	True	True	True	False		IPv4 address
ADDR[1]	Byte	192	False	True	True	True	False		IPv4 address
ADDR[2]	Byte	168	False	True	True	True	False		IPv4 address
ADDR[3]	Byte	100	False	True	True	True	False		IPv4 address
ADDR[4]	Byte	72	False	True	True	True	False		IPv4 address
RemotePort	UInt	502	False	True	True	True	False		remote UDP/TCP port number
LocalPort	UInt	0	False	True	True	True	False		local UDP/TCP port number
Done	Bool	false	False	True	True	True	False		
Busy	Bool	false	False	True	True	True	False		
Error	Bool	false	False	True	True	True	False		
Status	Word	16#0	False	True	True	True	False		
Request	Bool	false	False	True	True	True	False		
MB_Mode	USInt	0	False	True	True	True	False		
MB_Addr	UDInt	40001	False	True	True	True	False		
MB_Lenth	UDInt	16	False	True	True	True	False		
Disconnect	Bool	false	False	True	True	True	False		
MB_RW	Bool	false	False	True	True	True	False		

Totally Integrated Automation Portal

Program blocks / Modbus

MB_ADR_TF1 [DB101]

MB_ADR_TF1 Properties

General

Name	MB_ADR_TF1	Number	101	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
▼ MB_CONC_TF1	TCON_IP_v4		False	True	True	True	False		
Interfaceld	HW_ANY	64	False	True	True	True	False		HW-identifier of IE-interface submod-ule
ID	CONN_OUC	10	False	True	True	True	False		connection reference / identifier
ConnectionType	Byte	11	False	True	True	True	False		type of connection: 11=TCP/IP, 19=UDP (17=TCP/IP)
ActiveEstablished	Bool	1	False	True	True	True	False		active/passive connection establish-ment
▼ RemoteAddress	IP_V4		False	True	True	True	False		remote IP address (IPv4)
▼ ADDR	Array[1..4] of Byte		False	True	True	True	False		IPv4 address
ADDR[1]	Byte	192	False	True	True	True	False		IPv4 address
ADDR[2]	Byte	168	False	True	True	True	False		IPv4 address
ADDR[3]	Byte	100	False	True	True	True	False		IPv4 address
ADDR[4]	Byte	80	False	True	True	True	False		IPv4 address
RemotePort	UInt	502	False	True	True	True	False		remote UDP/TCP port number
LocalPort	UInt	0	False	True	True	True	False		local UDP/TCP port number
Done	Bool	false	False	True	True	True	False		
Busy	Bool	false	False	True	True	True	False		
Error	Bool	false	False	True	True	True	False		
Status	Word	16#0	False	True	True	True	False		
Request	Bool	false	False	True	True	True	False		
MB_Mode	USInt	0	False	True	True	True	False		
MB_Addr	UDInt	40001	False	True	True	True	False		
MB_Lenth	UDInt	16	False	True	True	True	False		
Disconnect	Bool	false	False	True	True	True	False		
MB_RW	Bool	false	False	True	True	True	False		

Program blocks / FunctionBlocks

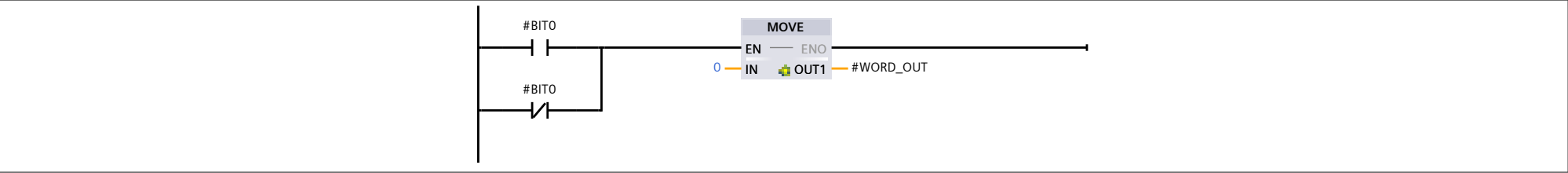
CM12_BITS_TO_WORD [FB1]

CM12_BITS_TO_WORD Properties							
General							
Name	CM12_BITS_TO_WORD	Number	1	Type	FB	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
BIT0	Bool	false	Non-retain	True	True	True	False		
BIT1	Bool	false	Non-retain	True	True	True	False		
BIT2	Bool	false	Non-retain	True	True	True	False		
BIT3	Bool	false	Non-retain	True	True	True	False		
BIT4	Bool	false	Non-retain	True	True	True	False		
BIT5	Bool	false	Non-retain	True	True	True	False		
BIT6	Bool	false	Non-retain	True	True	True	False		
BIT7	Bool	false	Non-retain	True	True	True	False		
BIT8	Bool	false	Non-retain	True	True	True	False		
BIT9	Bool	false	Non-retain	True	True	True	False		
BIT10	Bool	false	Non-retain	True	True	True	False		
BIT11	Bool	false	Non-retain	True	True	True	False		
BIT12	Bool	false	Non-retain	True	True	True	False		
BIT13	Bool	false	Non-retain	True	True	True	False		
BIT14	Bool	false	Non-retain	True	True	True	False		
BIT15	Bool	false	Non-retain	True	True	True	False		
▼ Output									
WORD_OUT	UInt	0	Non-retain	True	True	True	False		
InOut									
Static									
Temp									
Constant									

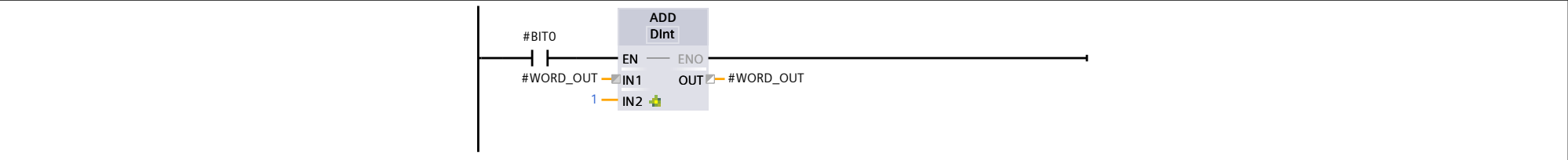
Network 1:

Set output word to 0



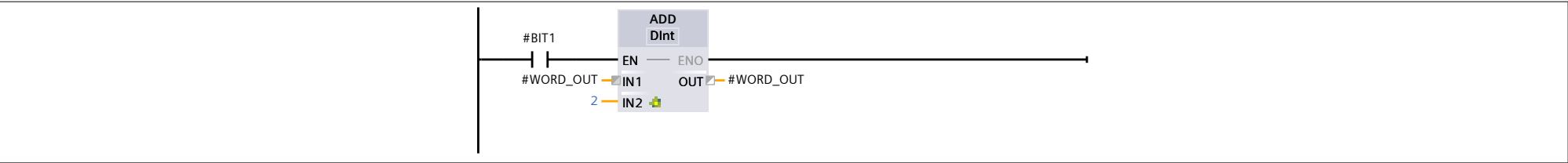
Network 2:

Add value if bit 0 is on



Network 3:

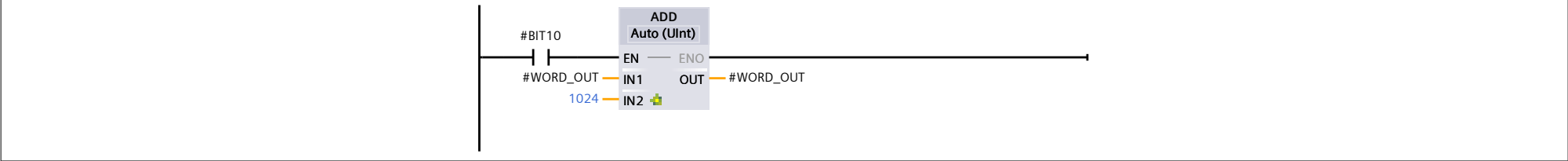
Add value if bit 1 is on



Network 4:

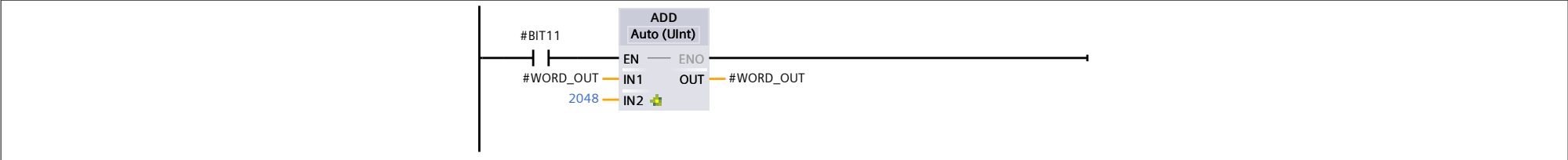
Add value if bit 2 is on

Totally Integrated Automation Portal		
	#BIT2 #WORD_OUT 4 ADD Auto (UInt) EN ENO IN1 OUT IN2 #WORD_OUT	
Network 5:	Add value if bit 3 is on	
	#BIT3 #WORD_OUT 8 ADD Auto (UInt) EN ENO IN1 OUT IN2 #WORD_OUT	
Network 6:	Add value if bit 4 is on	
	#BIT4 #WORD_OUT 16 ADD Auto (UInt) EN ENO IN1 OUT IN2 #WORD_OUT	
Network 7:	Add value if bit 5 is on	
	#BIT5 #WORD_OUT 32 ADD Auto (UInt) EN ENO IN1 OUT IN2 #WORD_OUT	
Network 8:	Add value if bit 6 is on	
	#BIT6 #WORD_OUT 64 ADD Auto (UInt) EN ENO IN1 OUT IN2 #WORD_OUT	
Network 9:	Add value if bit 7 is on	
	#BIT7 #WORD_OUT 128 ADD Auto (UInt) EN ENO IN1 OUT IN2 #WORD_OUT	
Network 10:	Add value if bit 8 is on	
	#BIT8 #WORD_OUT 256 ADD Auto (UInt) EN ENO IN1 OUT IN2 #WORD_OUT	
Network 11:	Add value if bit 9 is on	
	#BIT9 #WORD_OUT 512 ADD Auto (UInt) EN ENO IN1 OUT IN2 #WORD_OUT	
Network 12:	Add value if bit 10 is on	



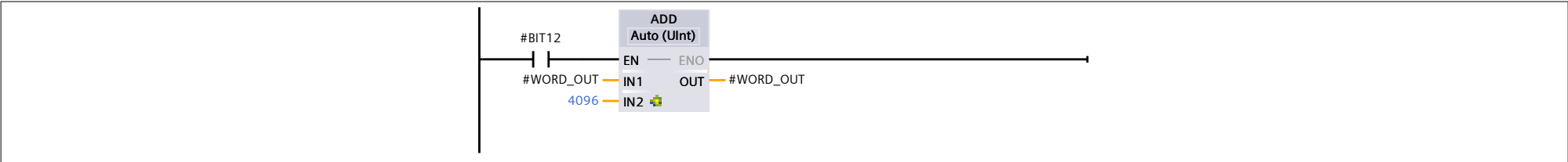
Network 13:

Add value if bit 11 is on



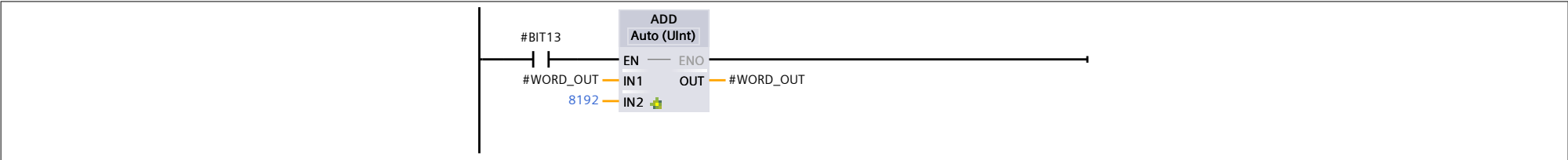
Network 14:

Add value if bit 12 is on



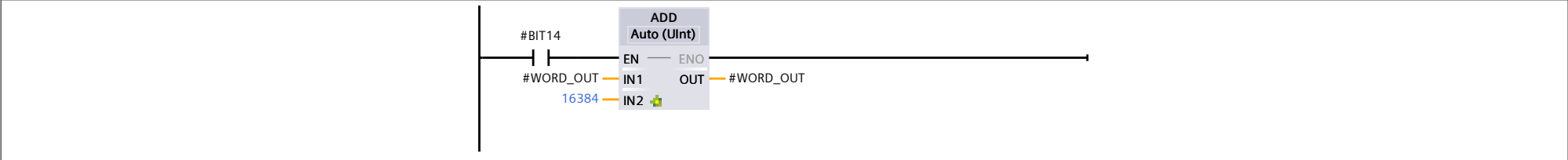
Network 15:

Add value if bit 13 is on



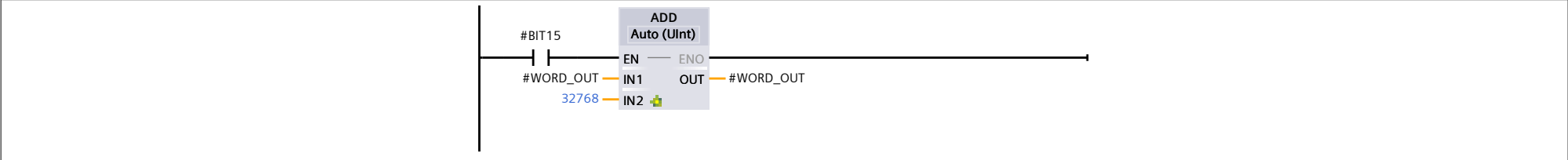
Network 16:

Add value if bit 14 is on



Network 17:

Add value if bit 15 is on



Program blocks / FunctionBlocks

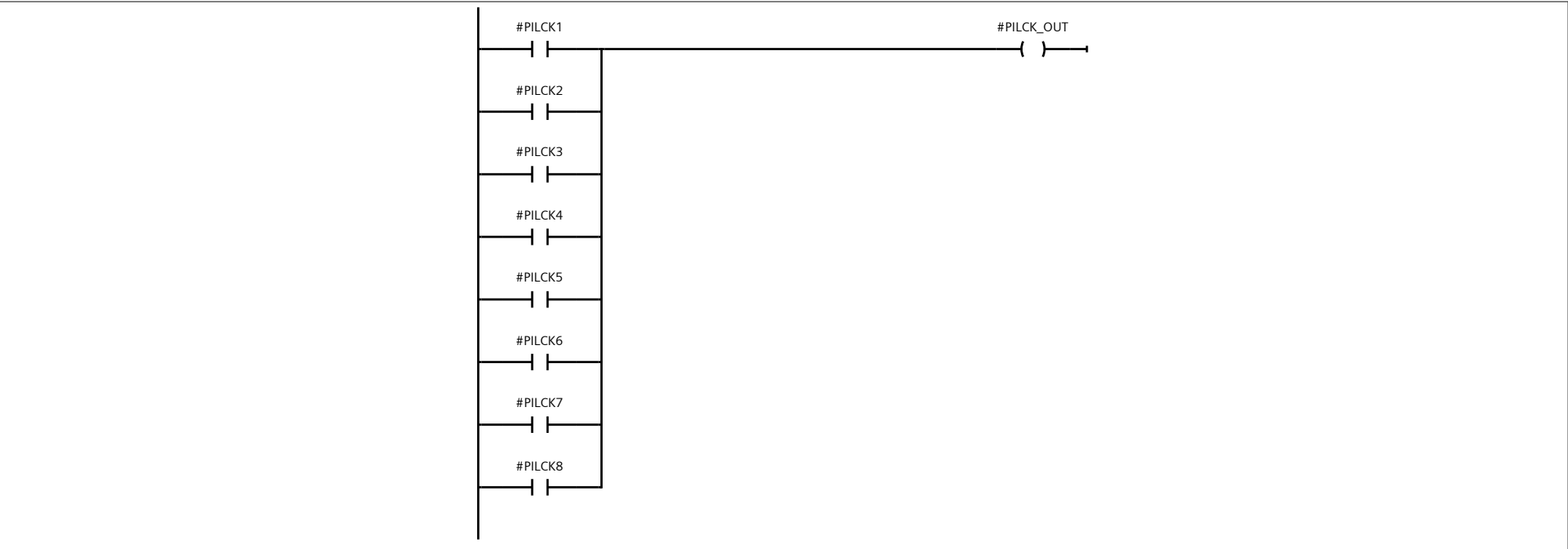
CM14_INTERLOCK [FB2]

CM14_INTERLOCK Properties							
General							
Name	CM14_INTERLOCK	Number	2	Type	FB	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
PILCK1	Bool	false	Non-retain	True	True	True	False		
PILCK2	Bool	false	Non-retain	True	True	True	False		
PILCK3	Bool	false	Non-retain	True	True	True	False		
PILCK4	Bool	false	Non-retain	True	True	True	False		
PILCK5	Bool	false	Non-retain	True	True	True	False		
PILCK6	Bool	false	Non-retain	True	True	True	False		
PILCK7	Bool	false	Non-retain	True	True	True	False		
PILCK8	Bool	false	Non-retain	True	True	True	False		
SILCK1	Bool	false	Non-retain	True	True	True	False		
SILCK2	Bool	false	Non-retain	True	True	True	False		
SILCK3	Bool	false	Non-retain	True	True	True	False		
SILCK4	Bool	false	Non-retain	True	True	True	False		
SILCK5	Bool	false	Non-retain	True	True	True	False		
SILCK6	Bool	false	Non-retain	True	True	True	False		
SILCK7	Bool	false	Non-retain	True	True	True	False		
SILCK8	Bool	false	Non-retain	True	True	True	False		
▼ Output									
PILCK_OUT	Bool	false	Non-retain	True	True	True	False		
SILCK_OUT	Bool	false	Non-retain	True	True	True	False		
ILOCK_WRD	Word	16#0	Non-retain	True	True	True	False		
InOut									
Static									
Temp									
Constant									

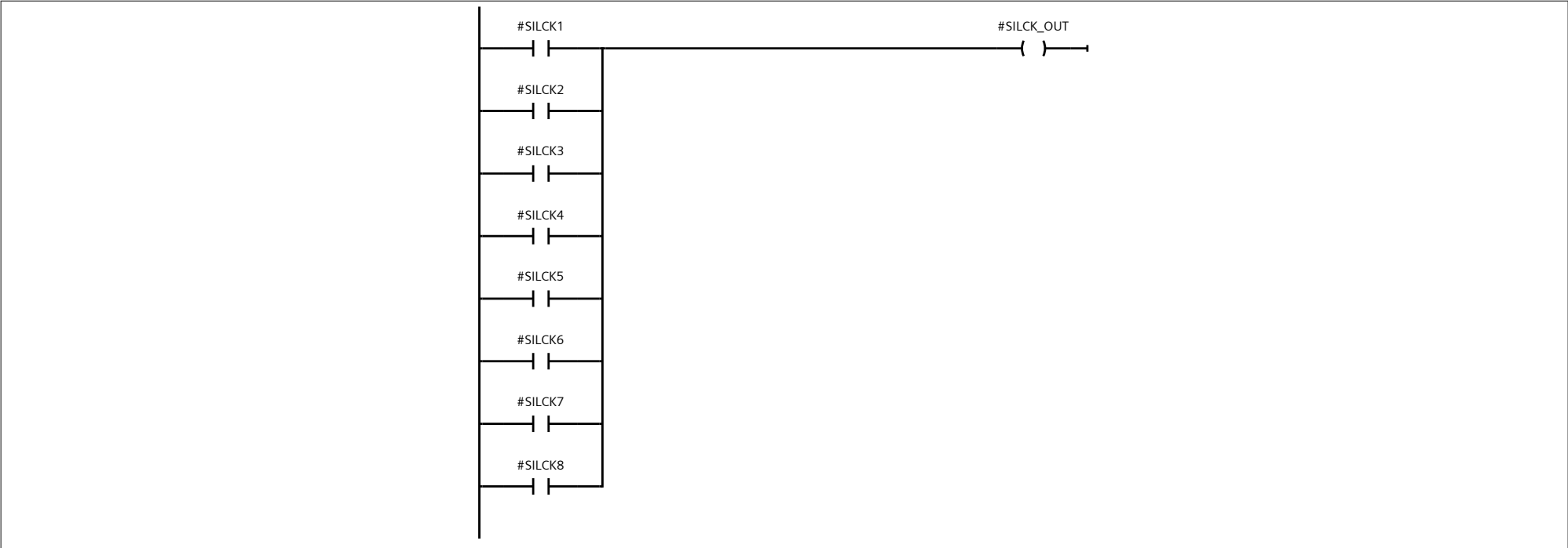
Network 1:

Generate Process Interlock Output



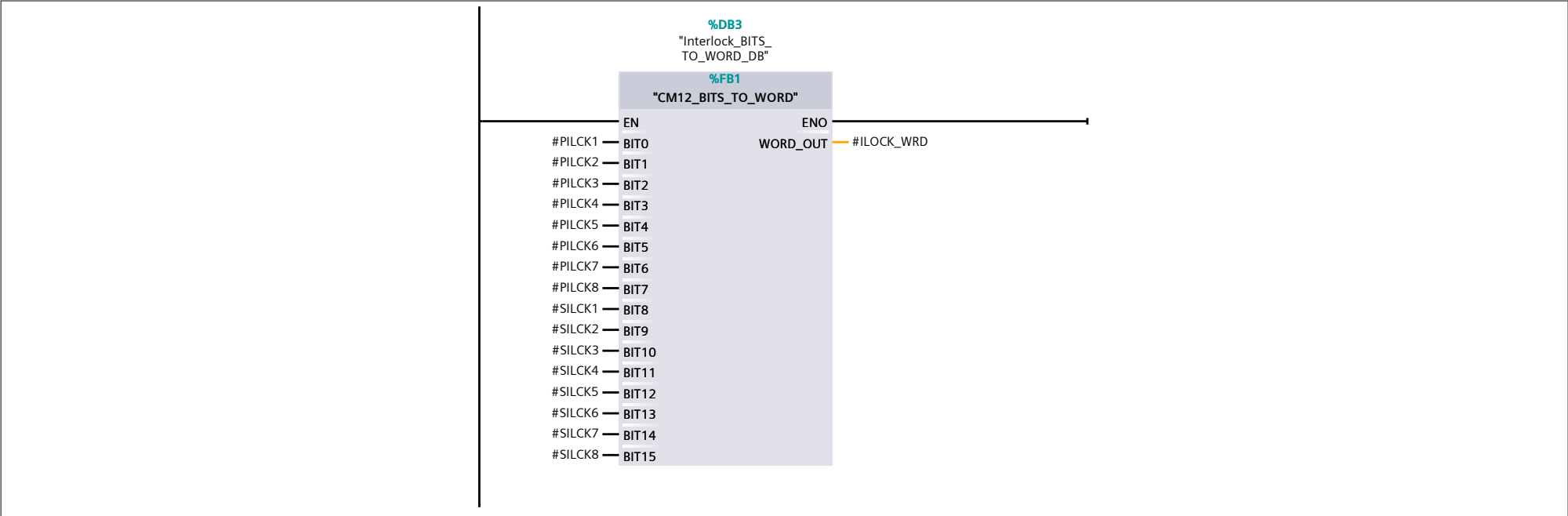
Network 2:

Generate Safety Interlock Output



Network 3:

Generate Interlock Word



Program blocks / FunctionBlocks

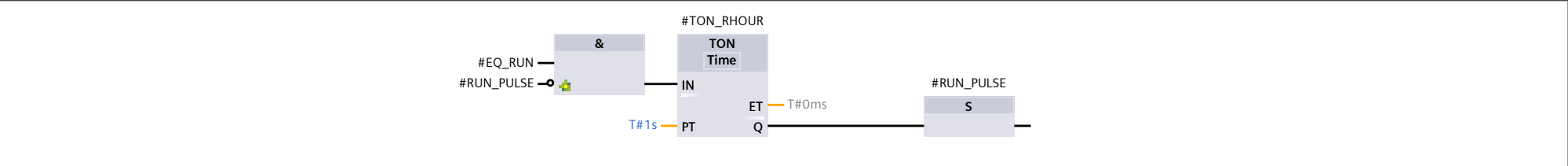
CM13_RUN_HOUR [FB3]

CM13_RUN_HOUR Properties							
General							
Name	CM13_RUN_HOUR	Number	3	Type	FB	Language	FBD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	Non-retain	True	True	True	False		
EQ_RUN	Bool	false	Non-retain	True	True	True	False		
SAVE_ON_RUN	Bool	false	Non-retain	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	Non-retain	True	True	True	False		
RUN_MIN	UDInt	0	Non-retain	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	Retain	True	True	True	False		
▼ Static									
RUN_PULSE	Bool	false	Non-retain	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_INT		Non-retain	True	True	True	True		
CU	Bool	false	Non-retain	True	True	True	False		
CD	Bool	false	Non-retain	True	True	True	False		
R	Bool	false	Non-retain	True	True	True	False		
LD	Bool	false	Non-retain	True	True	True	False		
QU	Bool	false	Non-retain	True	True	True	False		
QD	Bool	false	Non-retain	True	True	True	False		
PV	Int	0	Non-retain	True	True	True	False		
CV	Int	0	Non-retain	True	True	True	False		
▼ TON_RHOUR	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG			True	True	True	True		
▼ Input									
CLK	Bool	false	Non-retain	True	True	True	False		
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	Non-retain	True	True	True	False		
CNT_RST	Bool	false	Non-retain	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ Temp									
EQ_RUN_F	Bool								
SAVE_MIN	Int								
CNT_VAL	Int								
CNT_VAL_MIN	Int								
SAVE_SEC	Int								
Constant									

Network 1:

Generate 1s pulse



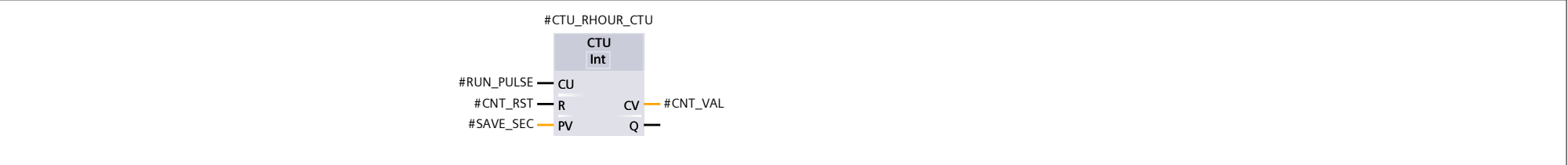
Network 2:

Change Hours to Minutes



Network 3:

Count 1s pulse



Network 4:



Network 5:

Clear reset after Counter cleared



Network 6:



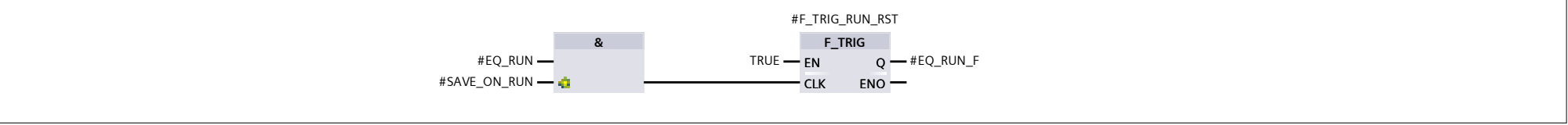
Network 7:

Calculate run minutes



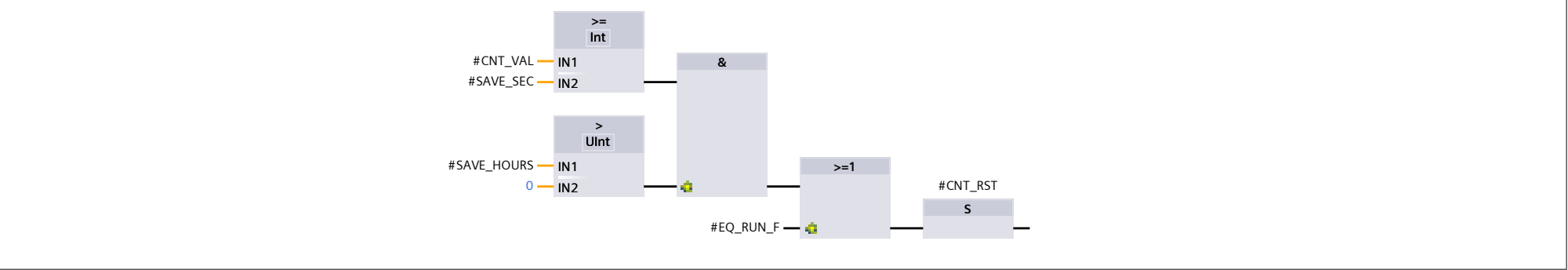
Network 8:

If equipment stop trigger save of data if save enabled



Network 9:

If counter above save value trigger save of data

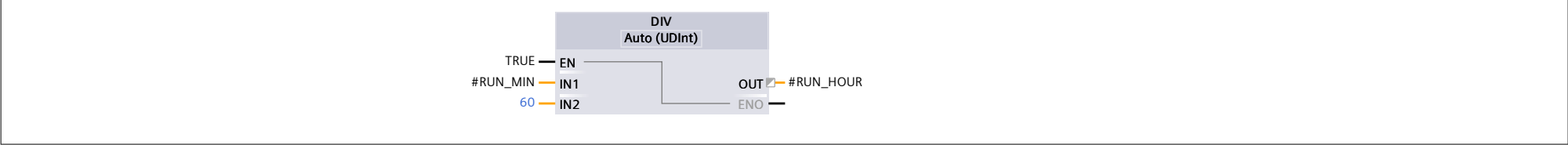


Network 10:

Move Run minute to retentive memery



Network 11:



Totally Integrated Automation Portal

Program blocks / FunctionBlocks

CM10_SCALE [FB4]

CM10_SCALE Properties

General

Name	CM10_SCALE	Number	4	Type	FB	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN_IN	Int	0	Non-retain	True	True	True	False		
RAW_MIN	Int	0	Non-retain	True	True	True	False		
RAW_MAX	Int	0	Non-retain	True	True	True	False		
ENG_MIN	Int	0	Non-retain	True	True	True	False		
ENG_MAX	Int	0	Non-retain	True	True	True	False		
FLT_VAL	Int	0	Non-retain	True	True	True	False		
▼ Output									
AIN_OUT	Int	0	Non-retain	True	True	True	False		
SEN_FLT	Bool	false	Non-retain	True	True	True	False		
InOut									
Static									
▼ Temp									
AIN_TEMP	Real								
RAW_RANGE	Int								
RAW_ERROR	Int								
ENAB	Bool								
AIN_OUT_TEMP	Int								
RAW_MIN_T	Int								
RAW_MAX_T	Int								
ERROR_LOW	Bool								
ERROR_HI	Bool								
Constant									

Network 1:

Calculate Raw Range

TRUE

#ENAB

Network 2:

Network 3:

Calculate Raw Range

#ENAB

EN

ENO

#RAW_MAXIN1

OUT

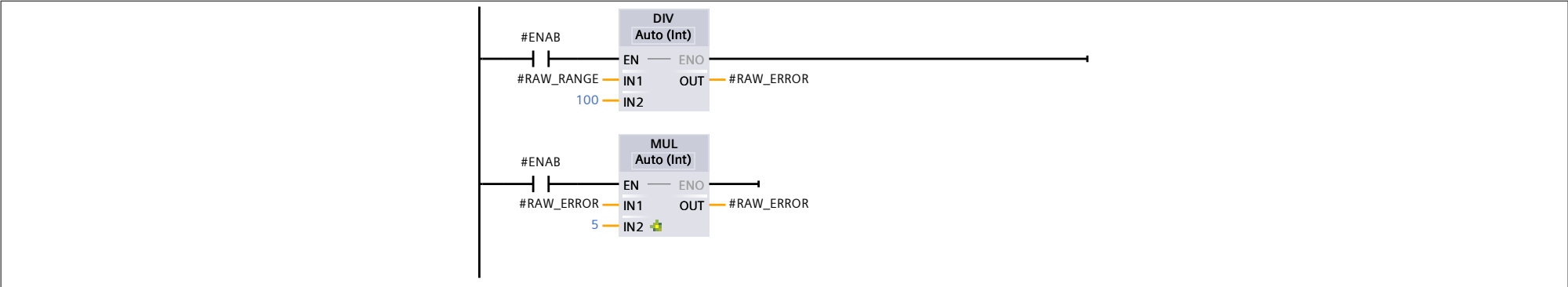
#RAW_MININ2

SUBAuto (Int)

#RAW_RANGE

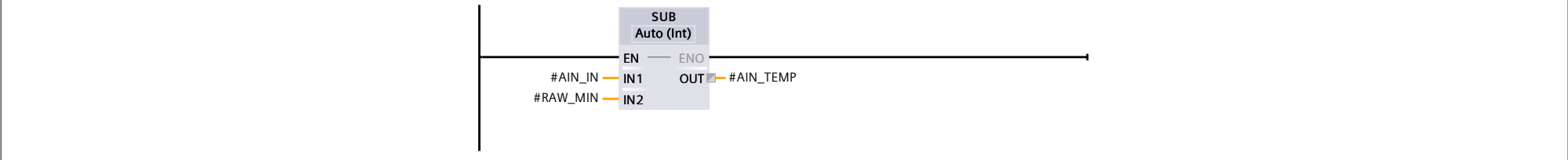
Network 4:

Calculate Raw error 5 - 10 %



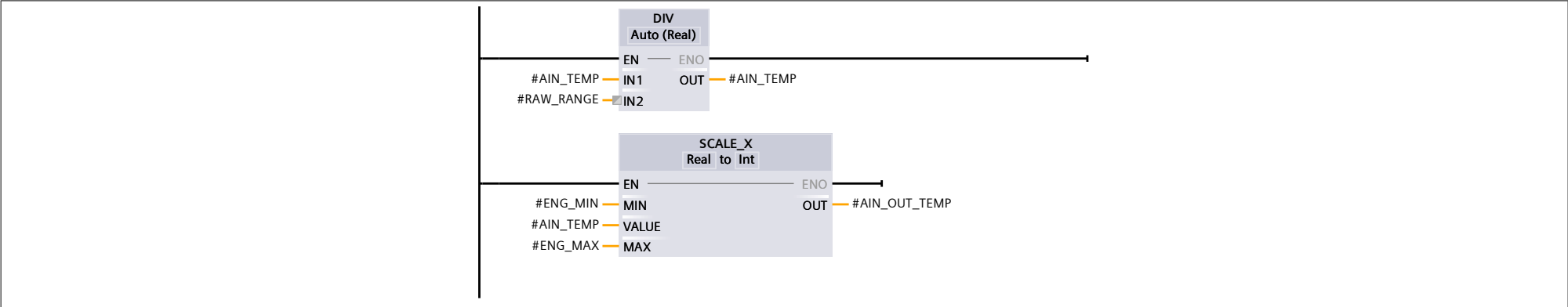
Network 5:

Subtracted min value from input

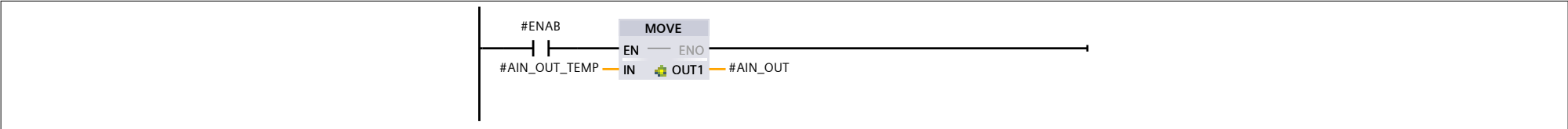


Network 6:

Convert AIN temp to 0 - 1 real range

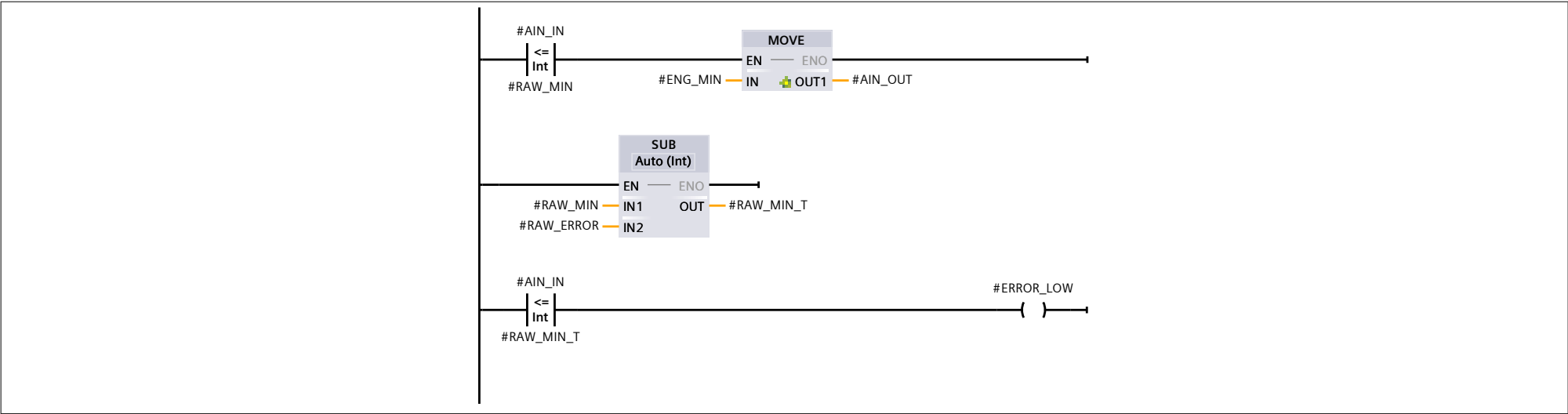


Network 7:



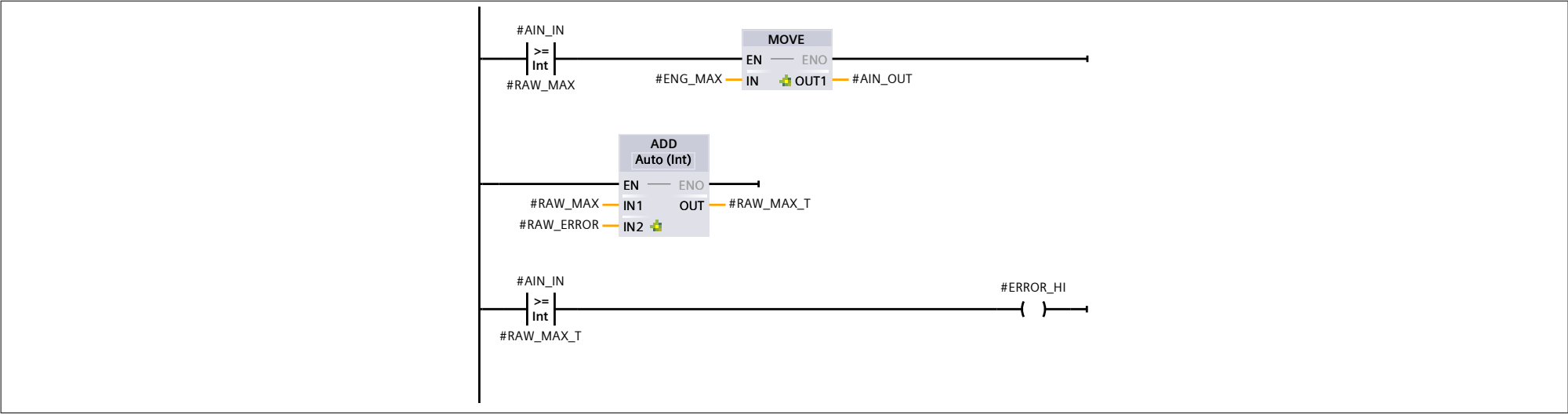
Network 8:

If Raw Value lower then Raw Min Value move Eng Min to Output and generate Low error fault if 5-10% out



Network 9:

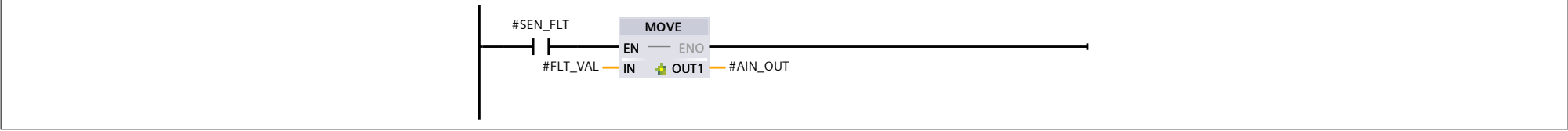
If Raw Value Higher then Raw Max Value move Eng Max to Output and generate Low error fault if 5-10% out



Network 10:



Network 11:



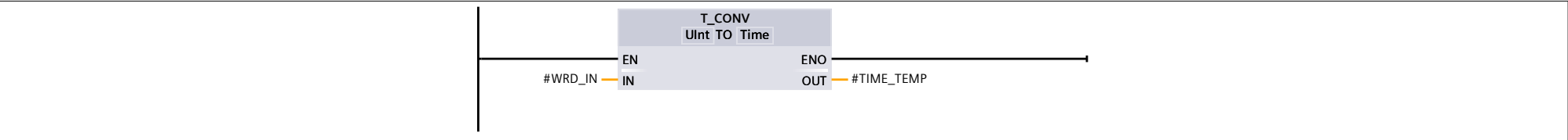
Program blocks / FunctionBlocks

FB01_TIME_CVT [FB5]

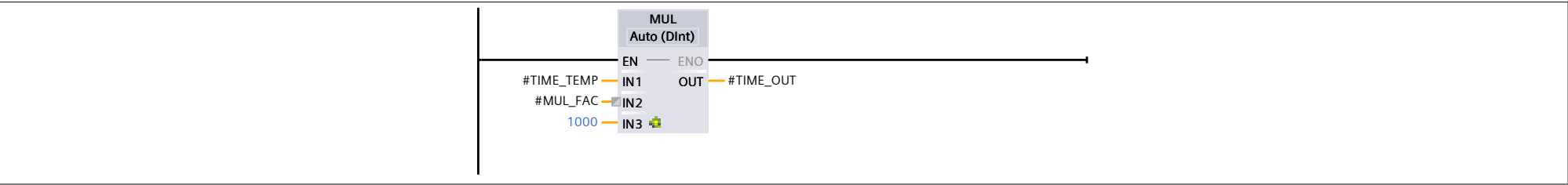
FB01_TIME_CVT Properties							
General							
Name	FB01_TIME_CVT	Number	5	Type	FB	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
WRD_IN	UInt	0	Non-retain	True	True	True	False		
MUL_FAC	UInt	0	Non-retain	True	True	True	False		
▼ Output									
TIME_OUT	Time	T#0ms	Non-retain	True	True	True	False		
InOut									
Static									
▼ Temp									
TIME_TEMP	Time								
Constant									

Network 1:



Network 2:



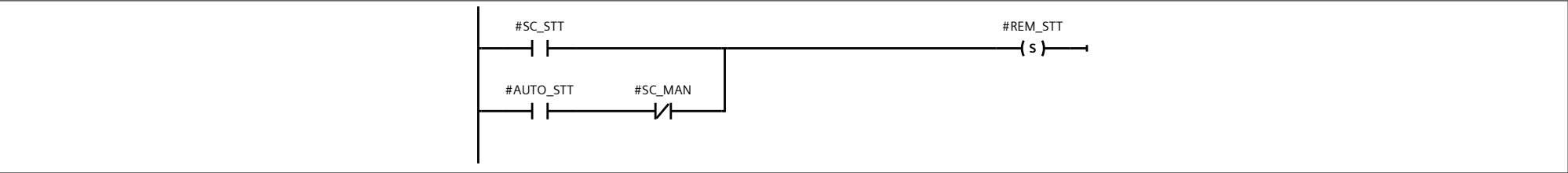
Program blocks / FunctionBlocks

CM02_DOL_CNTRL [FB6]

CM02_DOL_CNTRL Properties									
General									
Name	CM02_DOL_CNTRL	Number	6	Type	FB			Language	LAD
Numbering	Automatic								
Information									
Title		Author		Comment				Family	
Version	0.1	User-defined ID							
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	Non-retain	True	True	True	False		
RUN	Bool	false	Non-retain	True	True	True	False		
AUTO_STT	Bool	false	Non-retain	True	True	True	False		
SC_MAN	Bool	false	Non-retain	True	True	True	False		
SC_STT	Bool	false	Non-retain	True	True	True	False		
SC_STP	Bool	false	Non-retain	True	True	True	False		
RST	Bool	false	Non-retain	True	True	True	False		
PILCK	Bool	false	Non-retain	True	True	True	False		
SILCK	Bool	false	Non-retain	True	True	True	False		
FAIL_TIME	Time	T#0ms	Non-retain	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	Non-retain	True	True	True	False		
PMP_FSTT	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
REM_STT	Bool	false	Non-retain	True	True	True	False		
AUTO_STT_ON_P	Bool	false	Non-retain	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	Non-retain	True	True	True	False		
▼ TON_DOL_PMP	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Temp									
Constant									

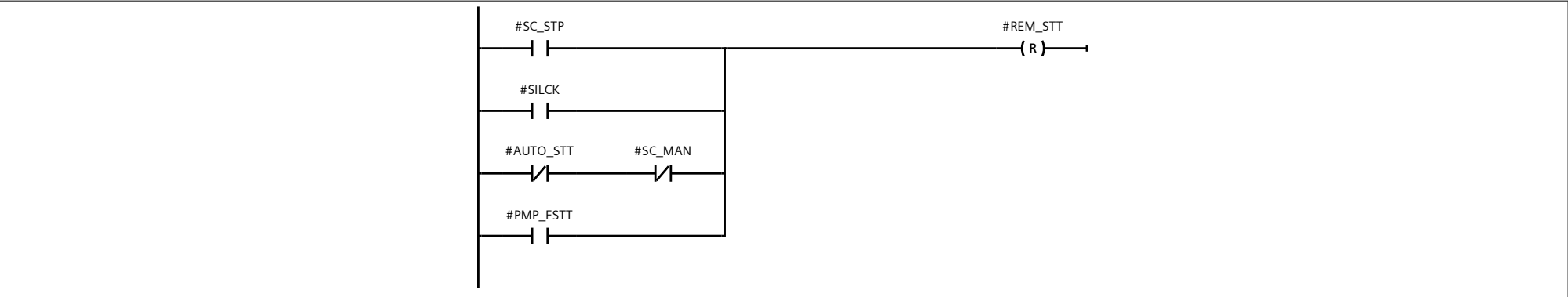
Network 1:

Remote Manual Start demand, auto start and full auto control selected



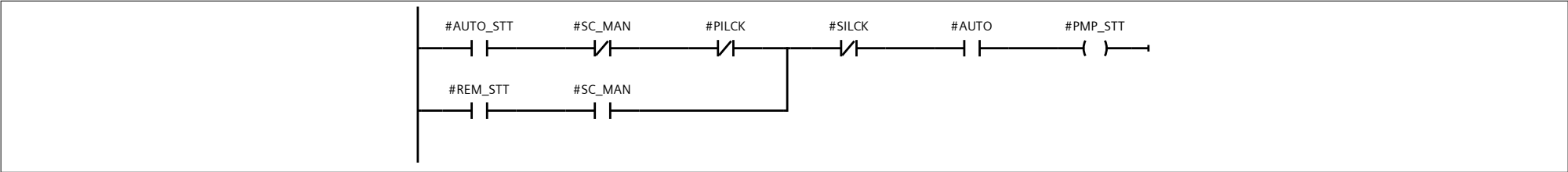
Network 2:

Remote Manual Stop demand, auto not Start and full auto control selected



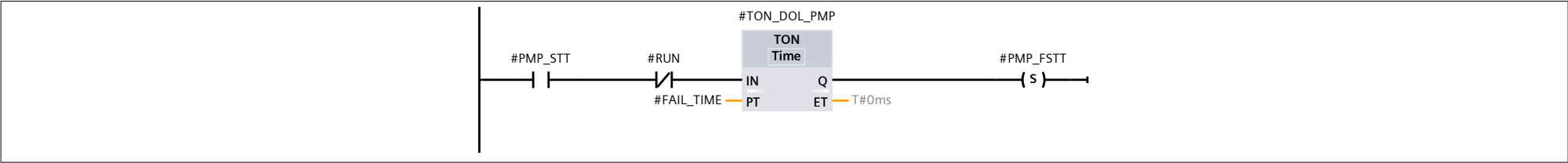
Network 3:

Pump start bit, if interlocs active don't start. Look at AUTO and SC Manual bit



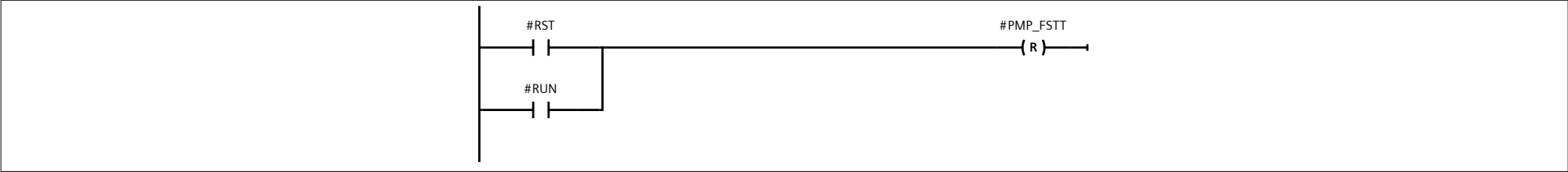
Network 4:

Fail to start generate



Network 5:

Fail to start Reset



Program blocks / FunctionBlocks

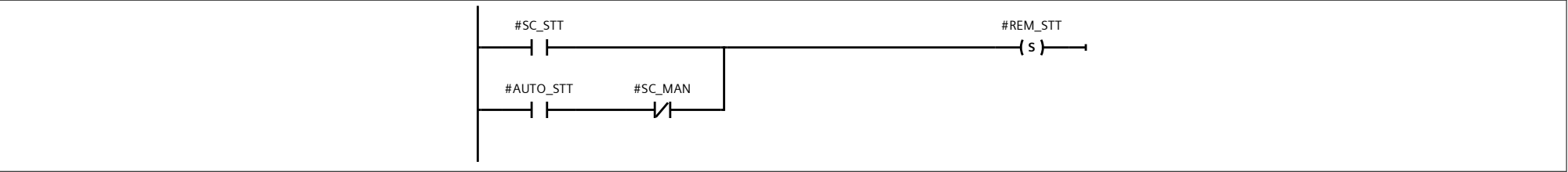
CM03_VSD_CNTRL [FB7]

CM03_VSD_CNTRL Properties							
General							
Name	CM03_VSD_CNTRL	Number	7	Type	FB	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	Non-retain	True	True	True	False		
RUN	Bool	false	Non-retain	True	True	True	False		
AUTO_STT	Bool	false	Non-retain	True	True	True	False		
SC_MAN	Bool	false	Non-retain	True	True	True	False		
SC_STT	Bool	false	Non-retain	True	True	True	False		
SC_STP	Bool	false	Non-retain	True	True	True	False		
RST	Bool	false	Non-retain	True	True	True	False		
PILCK	Bool	false	Non-retain	True	True	True	False		
SILCK	Bool	false	Non-retain	True	True	True	False		
FAIL_TIME	Time	T#0ms	Non-retain	True	True	True	False		
AUTO_SPD	Int	0	Non-retain	True	True	True	False		
AUTO_SPD_TMAN	Bool	false	Non-retain	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	Non-retain	True	True	True	False		
PMP_FSTT	Bool	false	Non-retain	True	True	True	False		
PMP_SPD	Int	0	Non-retain	True	True	True	False		
▼ InOut									
SC_SPD	Int	0	Non-retain	True	True	True	False		
▼ Static									
REM_STT	Bool	false	Non-retain	True	True	True	False		
AUTO_STT_ON_P	Bool	false	Non-retain	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	Non-retain	True	True	True	False		
▼ TON_DOL_PMP	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Temp									
Constant									

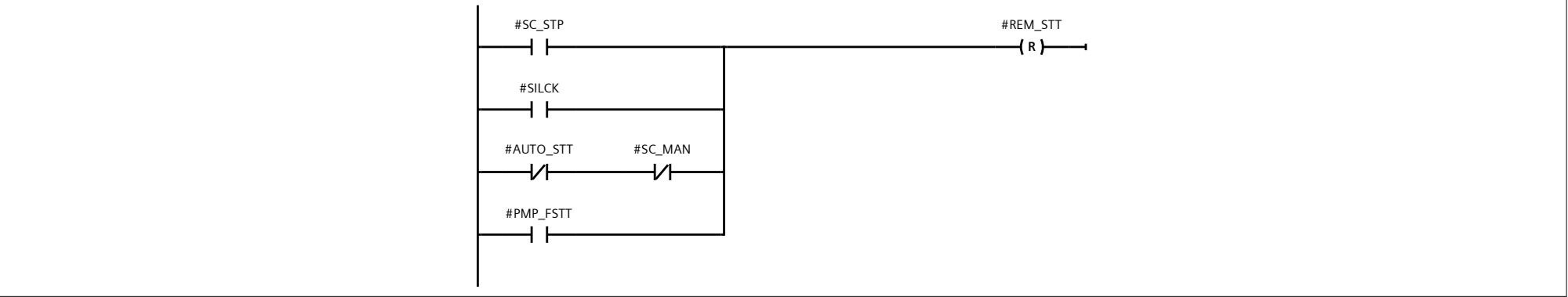
Network 1:

Remote Manual Start demand, auto start and full auto control selected



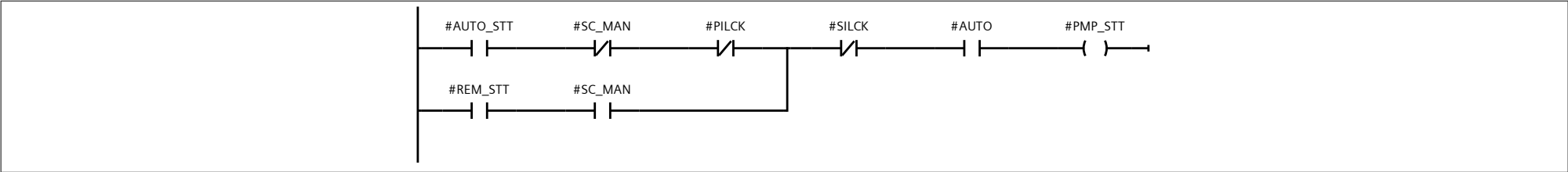
Network 2:

Remote Manual Stop demand, auto not Start and full auto control selected



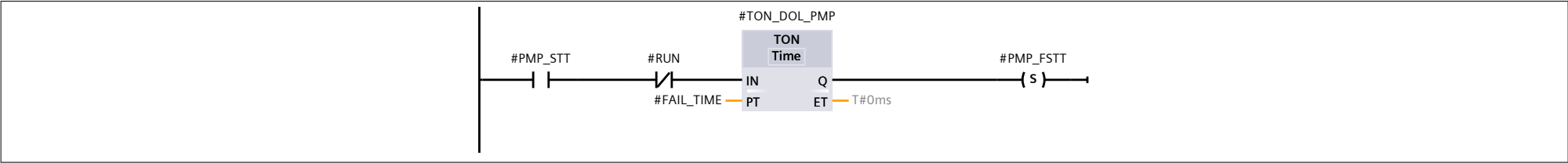
Network 3:

Pump start bit, if interlocks active don't start. Look at AUTO and SC Manual bit



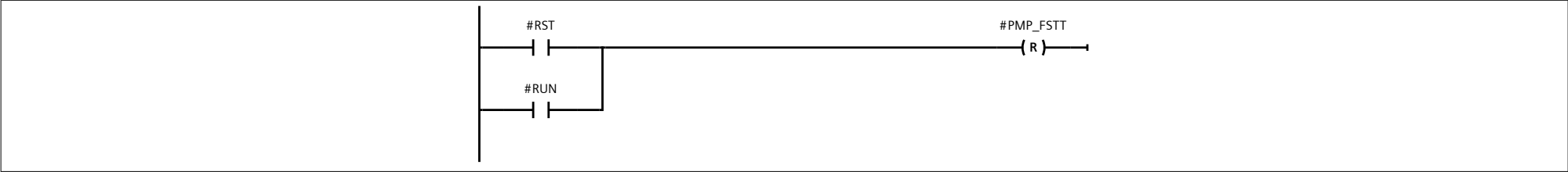
Network 4:

Fail to start generate



Network 5:

Fail to start Reset



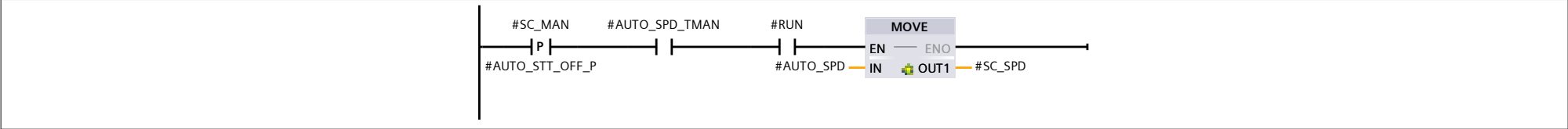
Network 6:

If Auto Follow Auto Speed



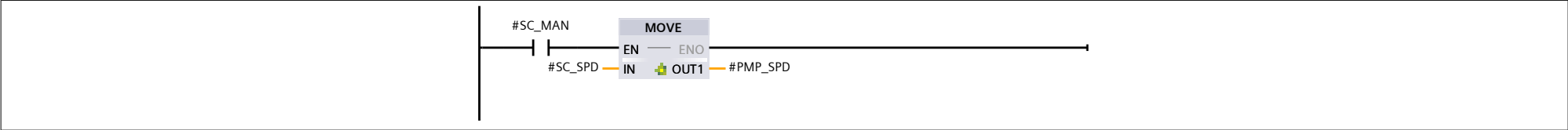
Network 7:

If pump running in Auto move speed to manual if switch to manual control



Network 8:

If Manual Follow Manual Speed



Totally Integrated Automation Portal

Program blocks / FunctionBlocks

CM05_LVL_CNTRL [FB8]

CM05_LVL_CNTRL Properties

General

Name	CM05_LVL_CNTRL	Number	8	Type	FB	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
LVL	Int	0	Non-retain	True	True	True	False		
STT_LVL	Int	0	Non-retain	True	True	True	False		
STP_LVL	Int	0	Non-retain	True	True	True	False		
FLOAT_STT	Bool	false	Non-retain	True	True	True	False		
FLOAT_STP	Bool	false	Non-retain	True	True	True	False		
LATCH_PRTY	Bool	false	Non-retain	True	True	True	False		
▼ Output									
LATCH	Bool	false	Non-retain	True	True	True	False		
STT	Bool	false	Non-retain	True	True	True	False		
STP	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
DIFF	Bool	false	Non-retain	True	True	True	False		
LVL_STT	Bool	false	Non-retain	True	True	True	False		
LVL_STP	Bool	false	Non-retain	True	True	True	False		
FLOAT_LATCH	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									

Network 1:

#STT_LVL

>

Int

#STP_LVL

#DIFF

()

Network 2:

Skip S1 If DIFF on

#DIFF

S2

(JMP)

Network 3:

S1, Filling Level

S1

#LVL

<

Int

#STT_LVL

#LVL_STT

()

#LVL

>

Int

#STP_LVL

#LVL_STP

()

END

(JMP)

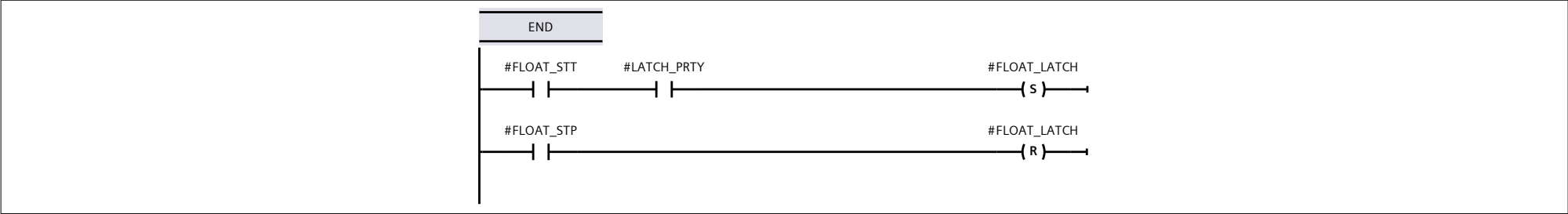
Network 4:

S2, Draining Level



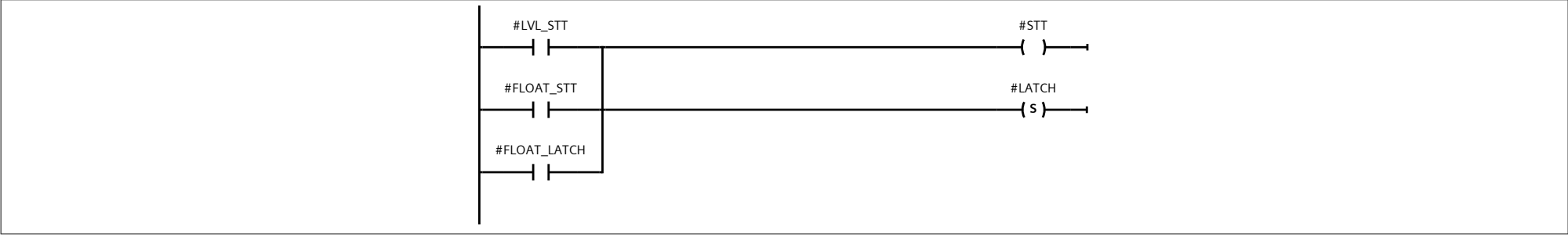
Network 5:

If float control priority



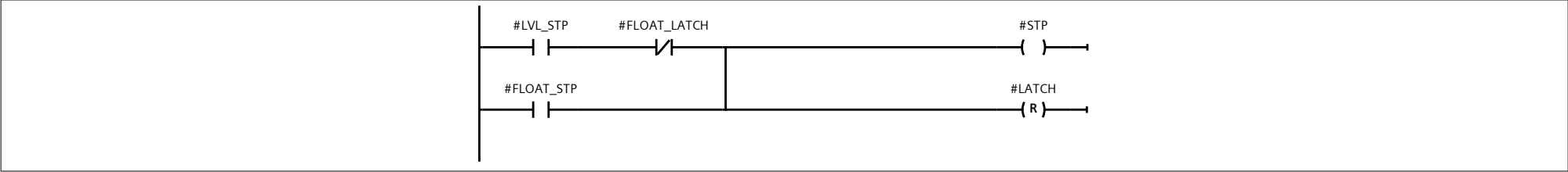
Network 6:

Control Outputs Start



Network 7:

Control Outputs Stop



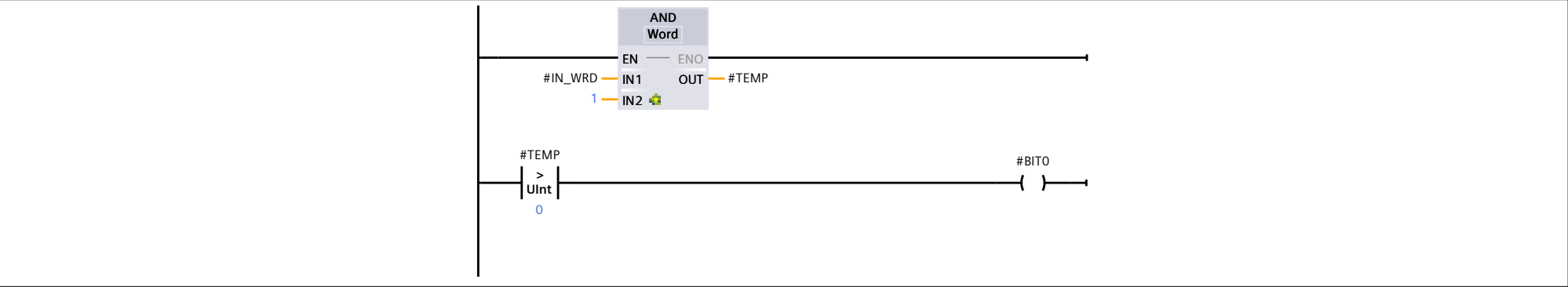
Program blocks / FunctionBlocks

CM11_WORD_TO_BITS [FB9]

CM11_WORD_TO_BITS Properties									
General									
Name	CM11_WORD_TO_BITS	Number	9	Type	FB			Language	LAD
Numbering	Automatic								
Information									
Title		Author		Comment				Family	
Version	0.1	User-defined ID							
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
IN_WRD	UInt	0	Non-retain	True	True	True	False		
▼ Output									
BIT0	Bool	false	Non-retain	True	True	True	False		
BIT1	Bool	false	Non-retain	True	True	True	False		
BIT2	Bool	false	Non-retain	True	True	True	False		
BIT3	Bool	false	Non-retain	True	True	True	False		
BIT4	Bool	false	Non-retain	True	True	True	False		
BIT5	Bool	false	Non-retain	True	True	True	False		
BIT6	Bool	false	Non-retain	True	True	True	False		
BIT7	Bool	false	Non-retain	True	True	True	False		
BIT8	Bool	false	Non-retain	True	True	True	False		
BIT9	Bool	false	Non-retain	True	True	True	False		
BIT10	Bool	false	Non-retain	True	True	True	False		
BIT11	Bool	false	Non-retain	True	True	True	False		
BIT12	Bool	false	Non-retain	True	True	True	False		
BIT13	Bool	false	Non-retain	True	True	True	False		
BIT14	Bool	false	Non-retain	True	True	True	False		
BIT15	Bool	false	Non-retain	True	True	True	False		
InOut									
Static									
▼ Temp									
TEMP	UInt								
Constant									

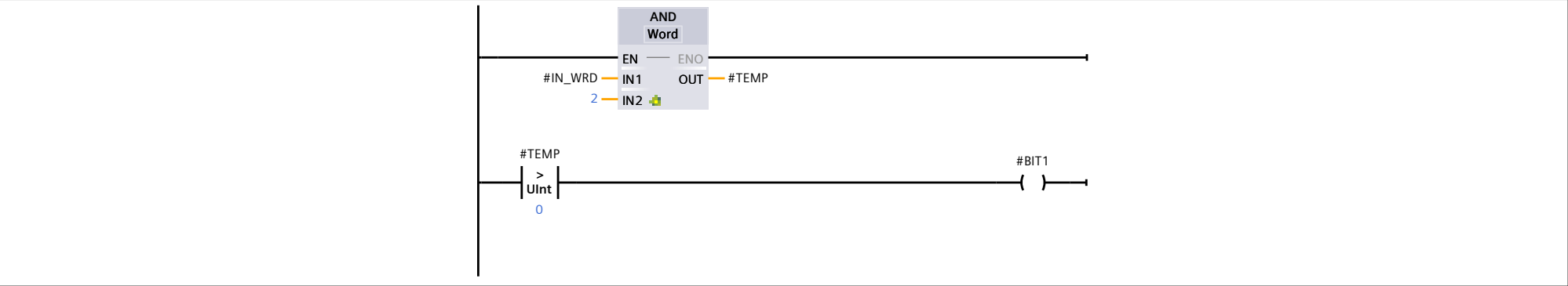
Network 1:

BIT0 Extract



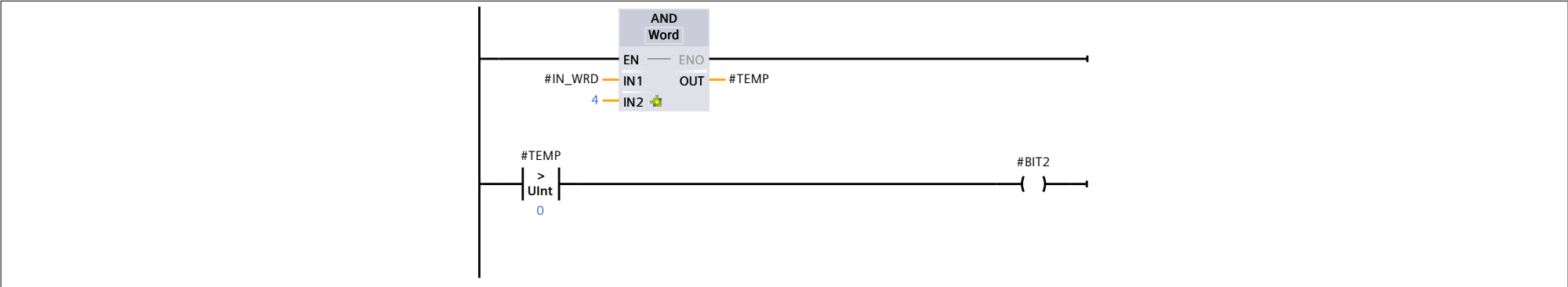
Network 2:

BIT1 Extract



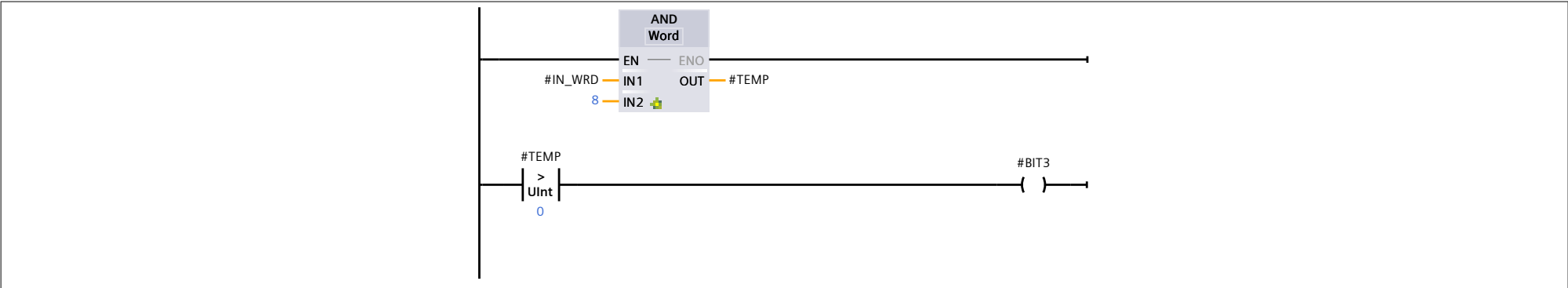
Network 3:

BIT2 Extract



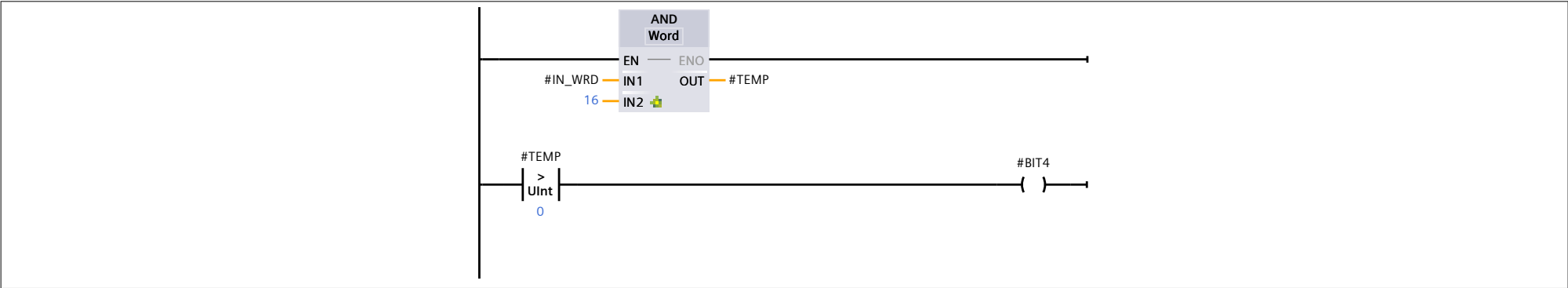
Network 4:

BIT3 Extract



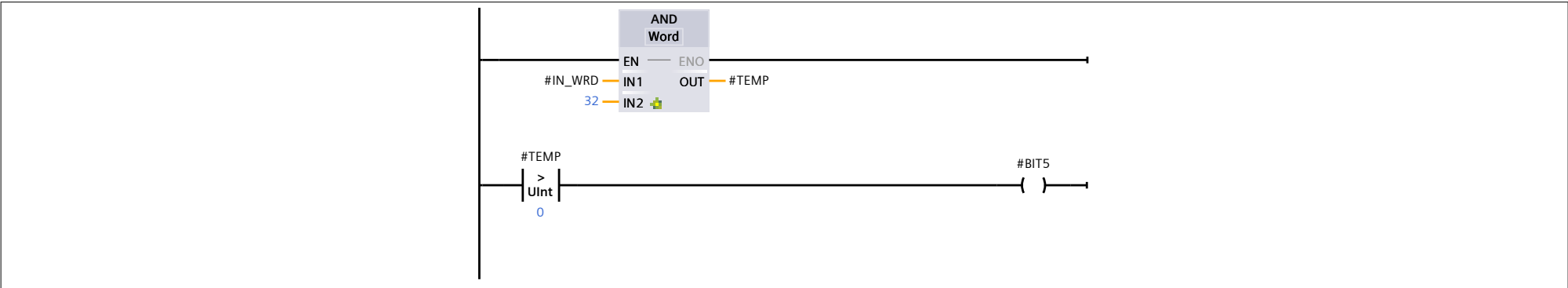
Network 5:

BIT4 Extract



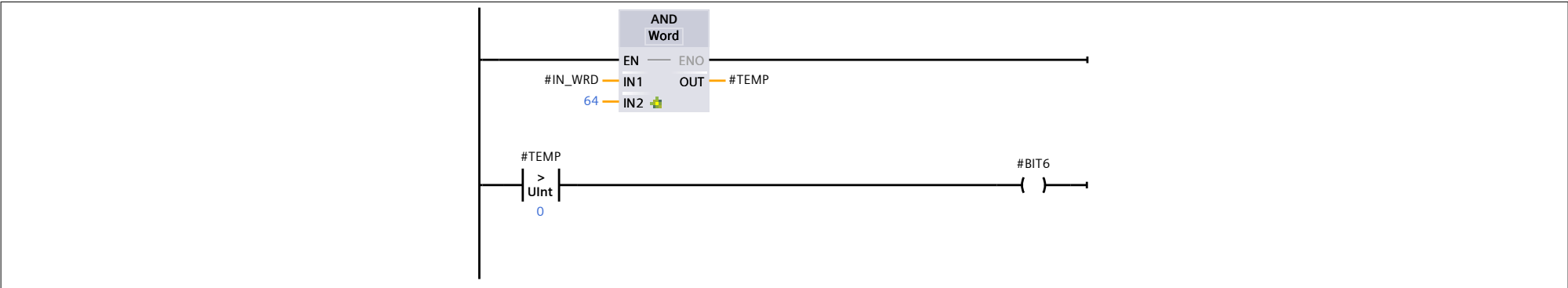
Network 6:

BIT5 Extract



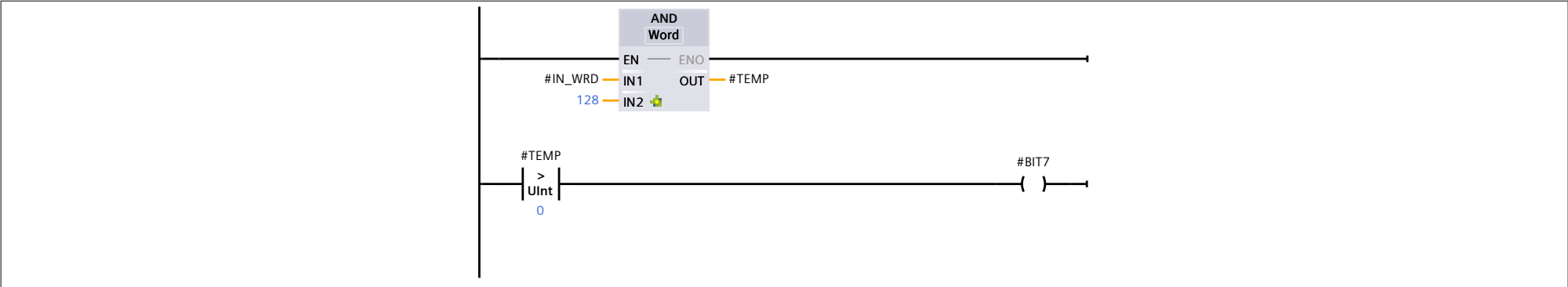
Network 7:

BIT6 Extract



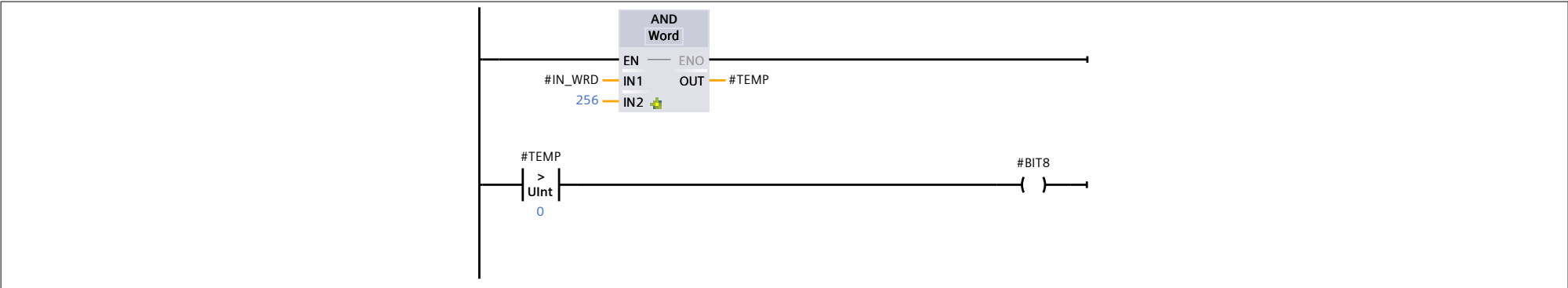
Network 8:

BIT7 Extract



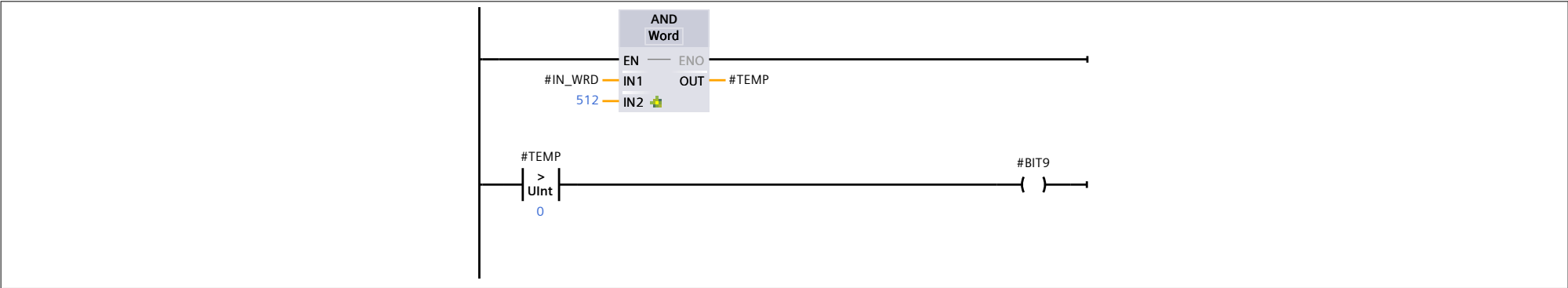
Network 9:

BIT8 Extract



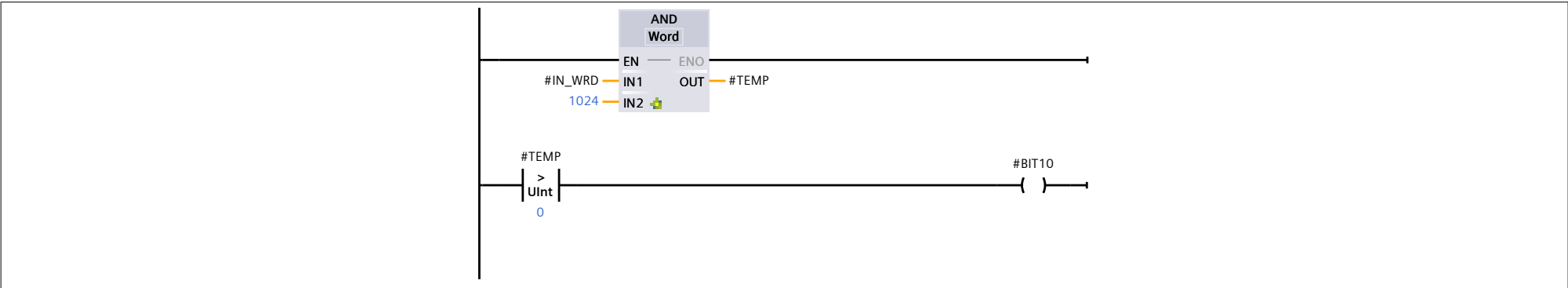
Network 10:

BIT9 Extract



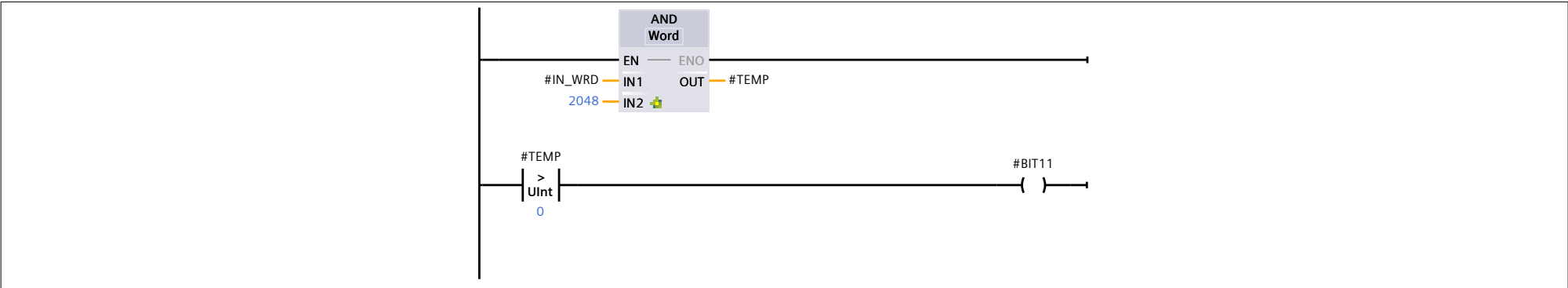
Network 11:

BIT10 Extract



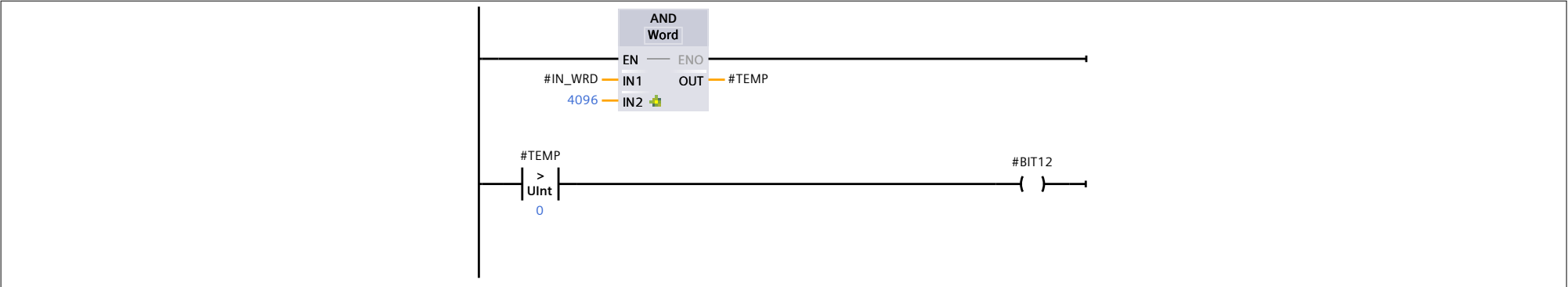
Network 12:

BIT11 Extract



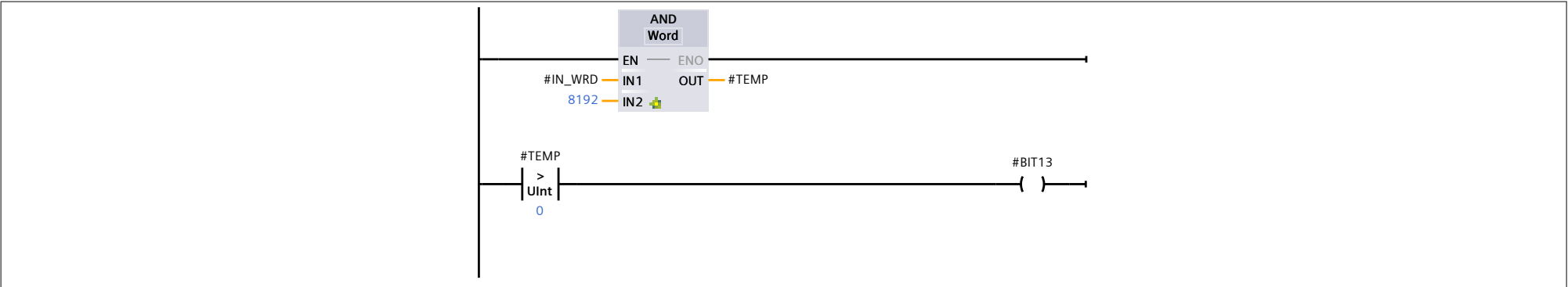
Network 13:

BIT12 Extract



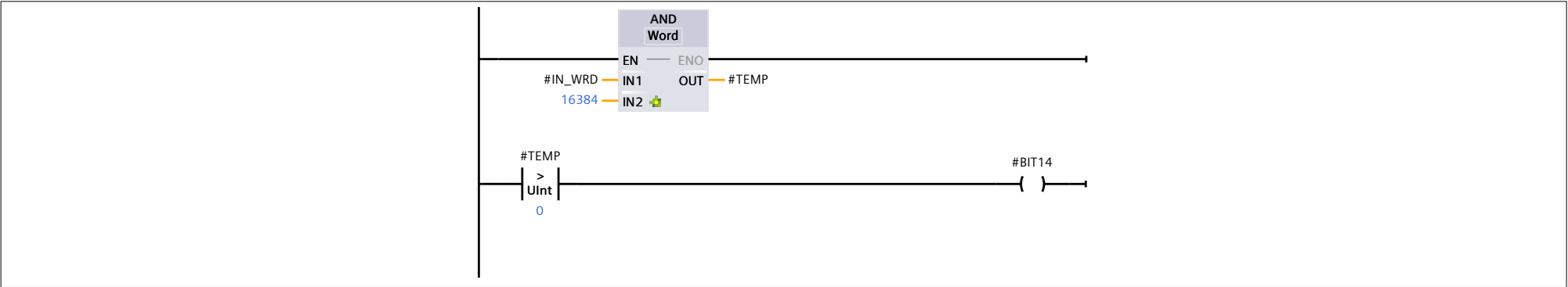
Network 14:

BIT13 Extract



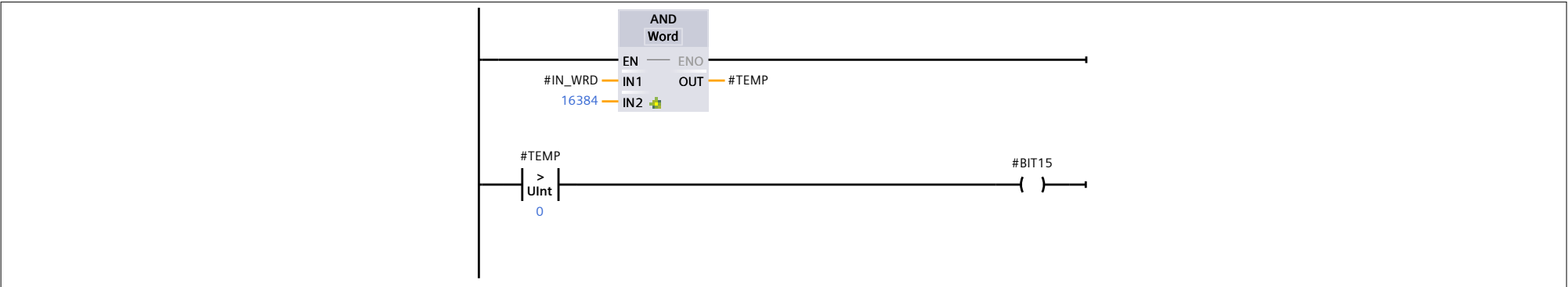
Network 15:

BIT14 Extract



Network 16:

BIT15 Extract



Totally Integrated Automation Portal

Program blocks / FunctionBlocks

CM04_VLV_CNTRL [FB10]

CM04_VLV_CNTRL Properties

General

Name	CM04_VLV_CNTRL	Number	10	Type	FB	Language	LAD
Numbering	Automatic						

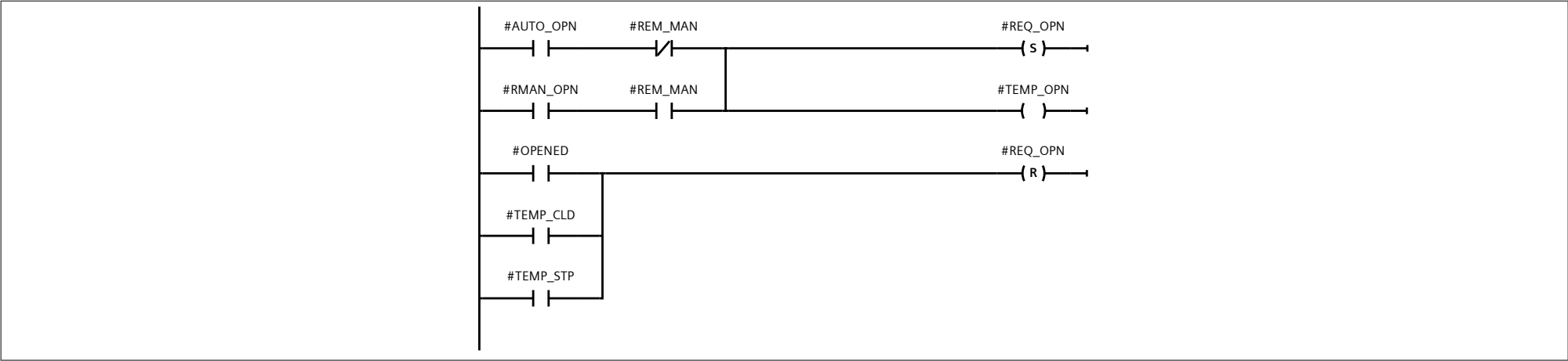
Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
REMOTE	Bool	false	Non-retain	True	True	True	False		
REM_MAN	Bool	false	Non-retain	True	True	True	False		
RMAN_OPN	Bool	false	Non-retain	True	True	True	False		
RMAN_CLD	Bool	false	Non-retain	True	True	True	False		
RMAN_STP	Bool	false	Non-retain	True	True	True	False		
AUTO_OPN	Bool	false	Non-retain	True	True	True	False		
AUTO_STP	Bool	false	Non-retain	True	True	True	False		
AUTO_CLD	Bool	false	Non-retain	True	True	True	False		
PLSE_CNTRL	Bool	false	Non-retain	True	True	True	False		
PLSE_TIME	Time	T#0ms	Non-retain	True	True	True	False		
OPENED	Bool	false	Non-retain	True	True	True	False		
CLOSED	Bool	false	Non-retain	True	True	True	False		
FAIL_TIME	Time	T#0ms	Non-retain	True	True	True	False		
RESET	Bool	false	Non-retain	True	True	True	False		
▼ Output									
CMD_OP	Bool	false	Non-retain	True	True	True	False		
CMD_CL	Bool	false	Non-retain	True	True	True	False		
CMD_STP	Bool	false	Non-retain	True	True	True	False		
FTOPEN	Bool	false	Non-retain	True	True	True	False		
FTCLD	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
▼ TP_VLV_OP	TP_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ TP_VLV_CL	TP_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ TP_VLV_STP	TP_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
REQ_OPN	Bool	false	Non-retain	False	False	False	False		
REQ_CL	Bool	false	Non-retain	False	False	False	False		
REQ_STP	Bool	false	Non-retain	False	False	False	False		
TEMP_OPN	Bool	false	Non-retain	False	False	False	False		
TEMP_CLD	Bool	false	Non-retain	False	False	False	False		
TEMP_STP	Bool	false	Non-retain	False	False	False	False		
▼ TON_FAIL_TO_OP	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ TON_FAIL_TO_CL	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Temp									
Constant									

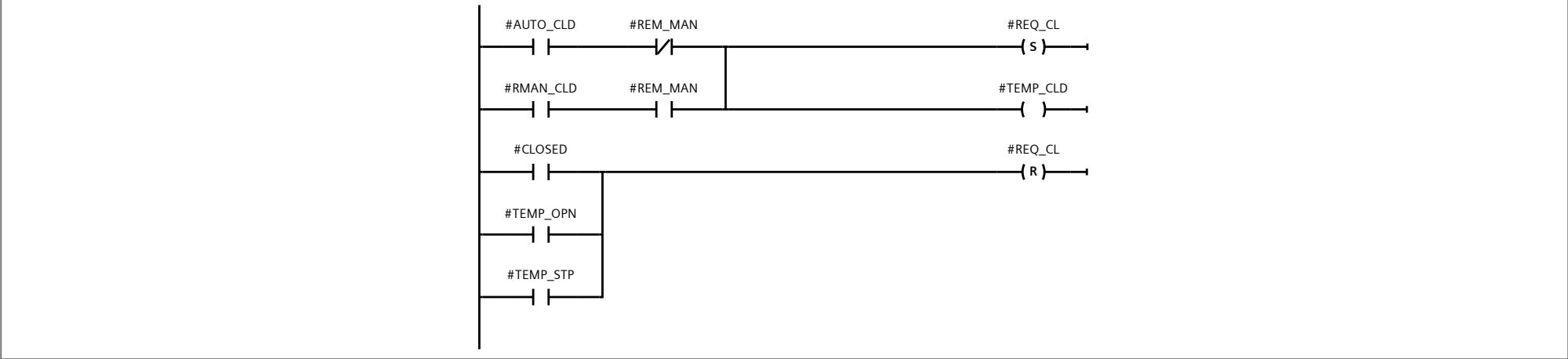
Network 1:

Generate open req or reset open req



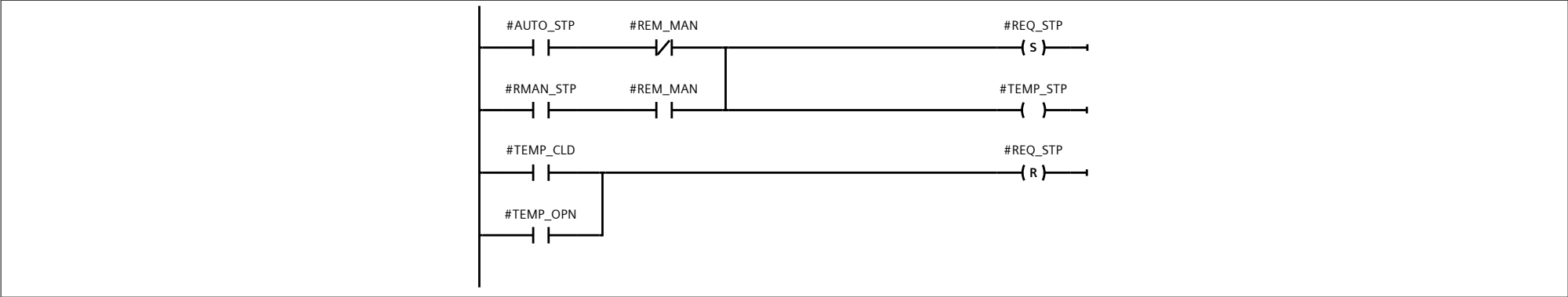
Network 2:

Generate Closed req or reset Closed req



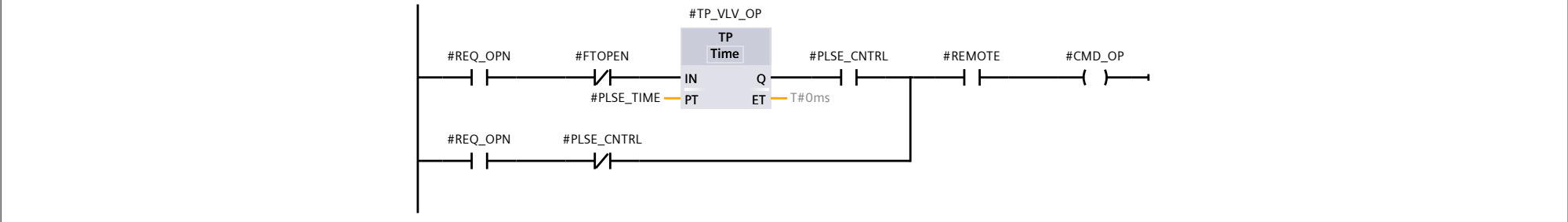
Network 3:

Generate Stop req or reset Stop req



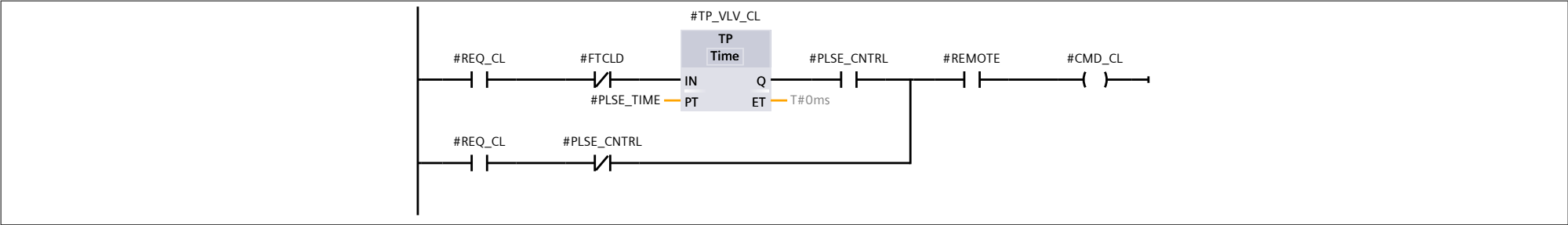
Network 4:

Open command Out



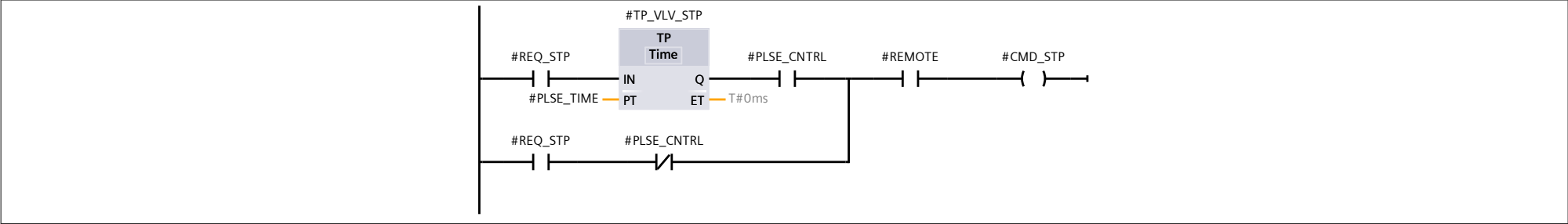
Network 5:

Close command Out



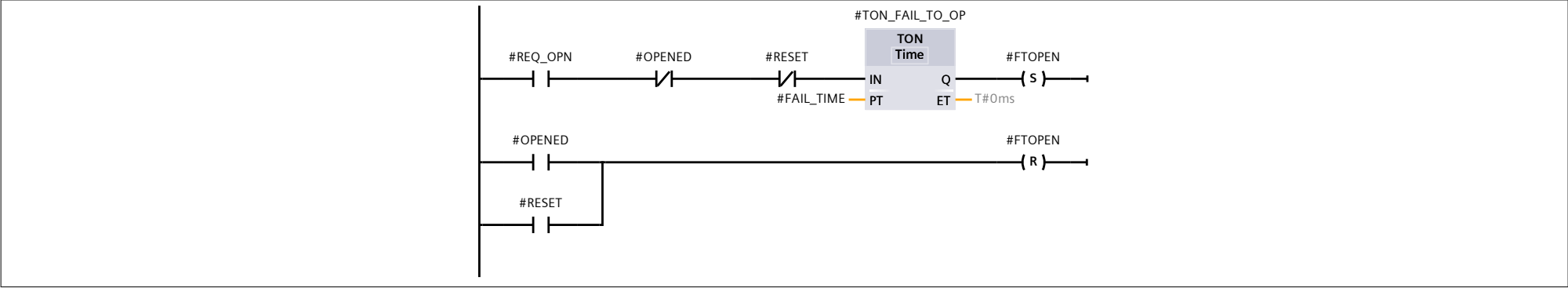
Network 6:

Stop command Out



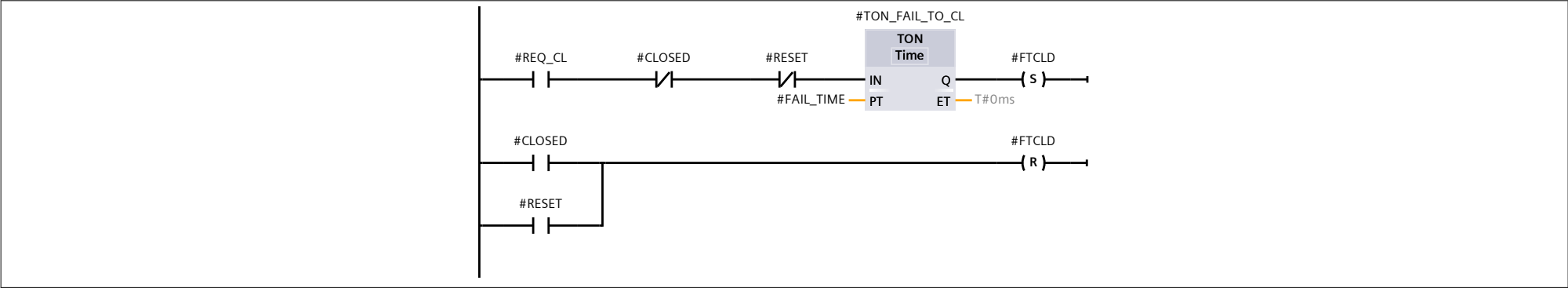
Network 7:

Generate Fail to Open



Network 8:

Generate Fail to Close



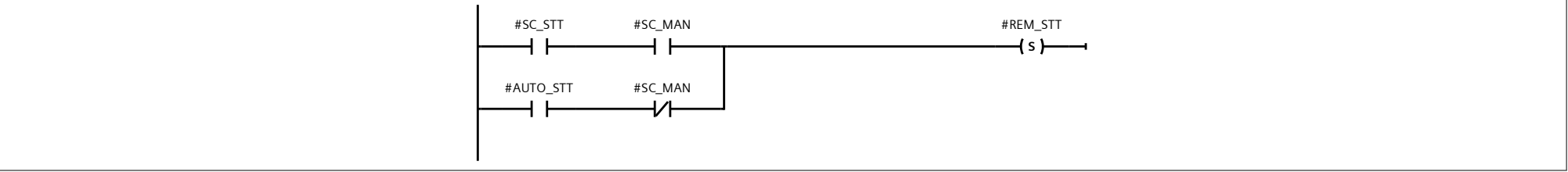
Program blocks / FunctionBlocks

CM02_DD_DOL_CNTRL [FB11]

CM02_DD_DOL_CNTRL Properties									
General									
Name	CM02_DD_DOL_CNTRL	Number	11	Type	FB			Language	LAD
Numbering	Automatic								
Information									
Title		Author		Comment				Family	
Version	0.1	User-defined ID							
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	Non-retain	True	True	True	False		
RUN	Bool	false	Non-retain	True	True	True	False		
AUTO_STT	Bool	false	Non-retain	True	True	True	False		
SC_MAN	Bool	false	Non-retain	True	True	True	False		
SC_STT	Bool	false	Non-retain	True	True	True	False		
SC_STP	Bool	false	Non-retain	True	True	True	False		
VLV_OPND	Bool	false	Non-retain	True	True	True	False		
VLV_CLD	Bool	false	Non-retain	True	True	True	False		
VLV_REM	Bool	false	Non-retain	True	True	True	False		
RST	Bool	false	Non-retain	True	True	True	False		
PILCK	Bool	false	Non-retain	True	True	True	False		
SILCK	Bool	false	Non-retain	True	True	True	False		
STT_FAIL_TIME	Time	T#0ms	Non-retain	True	True	True	False		
STP_FAIL_TIME	Time	T#0ms	Non-retain	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	Non-retain	True	True	True	False		
OP_VLV	Bool	false	Non-retain	True	True	True	False		
CL_VLV	Bool	false	Non-retain	True	True	True	False		
PMP_FSTT	Bool	false	Non-retain	True	True	True	False		
PMP_FSTP	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
REM_STT	Bool	false	Non-retain	True	True	True	False		
AUTO_STT_ON_P	Bool	false	Non-retain	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	Non-retain	True	True	True	False		
PMP_STT_TEMP	Bool	false	Non-retain	True	True	True	False		
▼ TON_DOL_PMP	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ DOL_VLV_CL_FAIL	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Temp									
Constant									

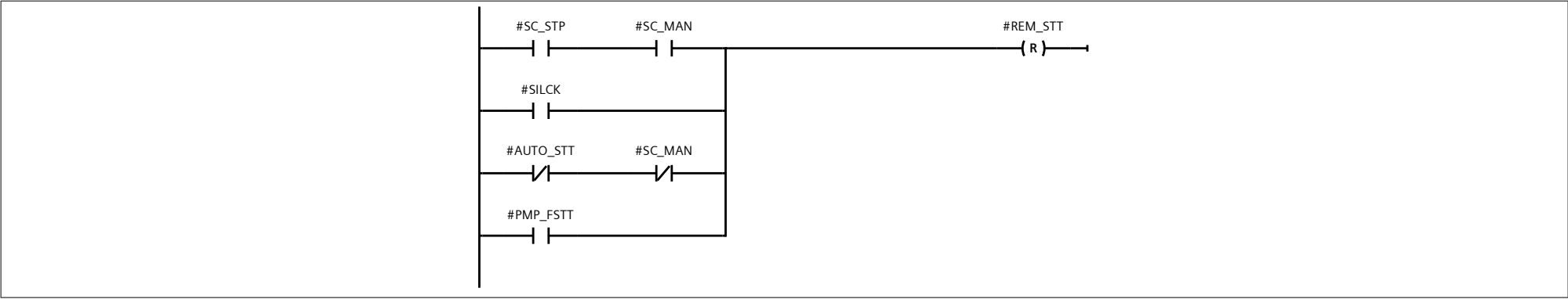
Network 1:

Remote Manual Start demand, auto start and full auto control selected

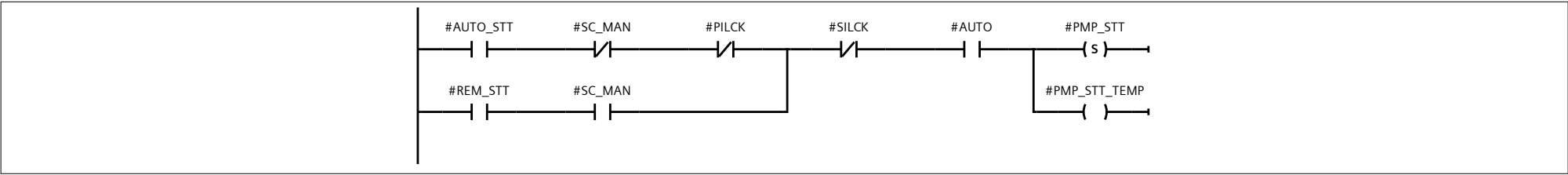


Network 2:

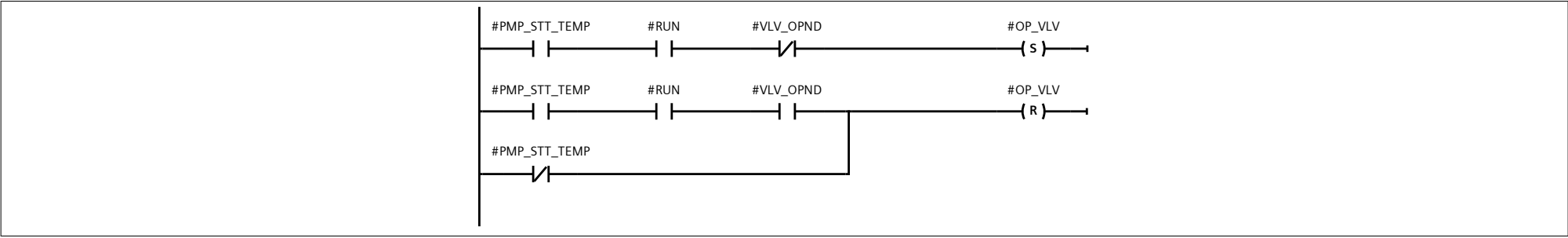
Remote Manual Stop demand, auto not Start and full auto control selected



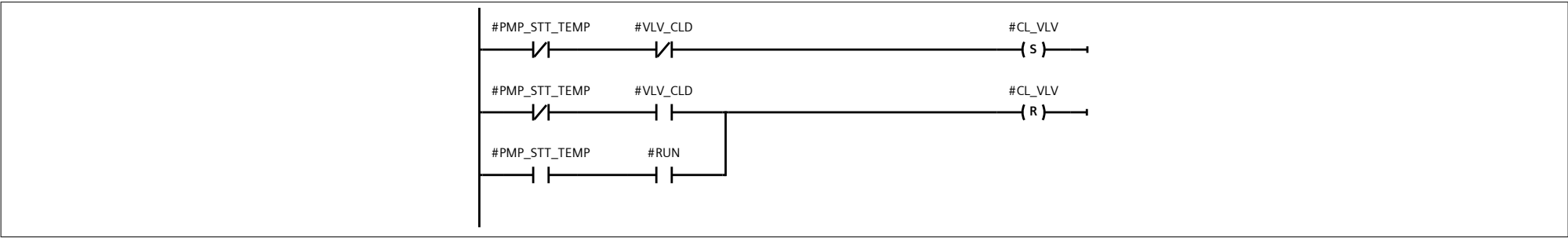
Network 3:
Pump start bit, if interlocks active don't start. Look at AUTO and SC Manual bit



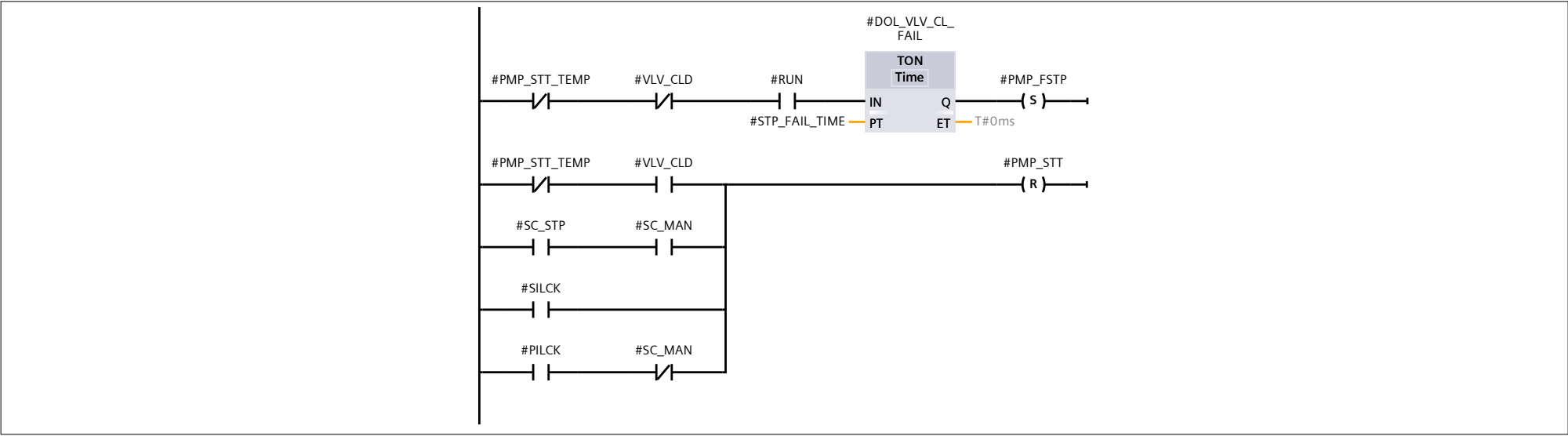
Network 4:
Valve open pump start request en pump running



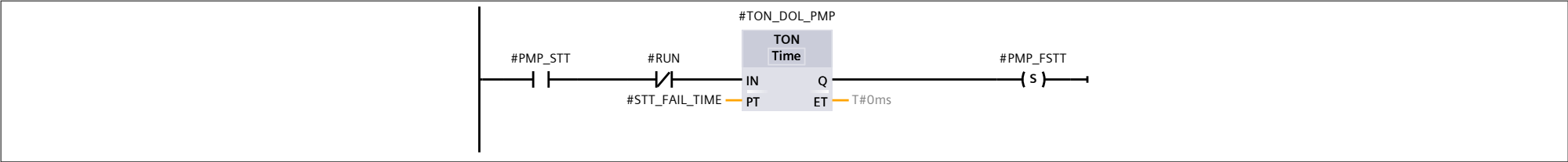
Network 5:
Valve close pump stop request en pump running



Network 6:
Stop Pump if valve is closed or fail to close



Network 7:
Fail to start generate



Network 8:
Fail to start Reset

Totally Integrated Automation Portal		
#RST #RUN #RST #PMP_FSTT #PMP_FSTP		

Totally Integrated Automation Portal

Program blocks / FunctionBlocks

CM03_DD_VSD_CNTRL [FB12]

CM03_DD_VSD_CNTRL Properties

General

Name	CM03_DD_VSD_CNTRL	Number	12	Type	FB	Language	LAD
Numbering	Automatic						

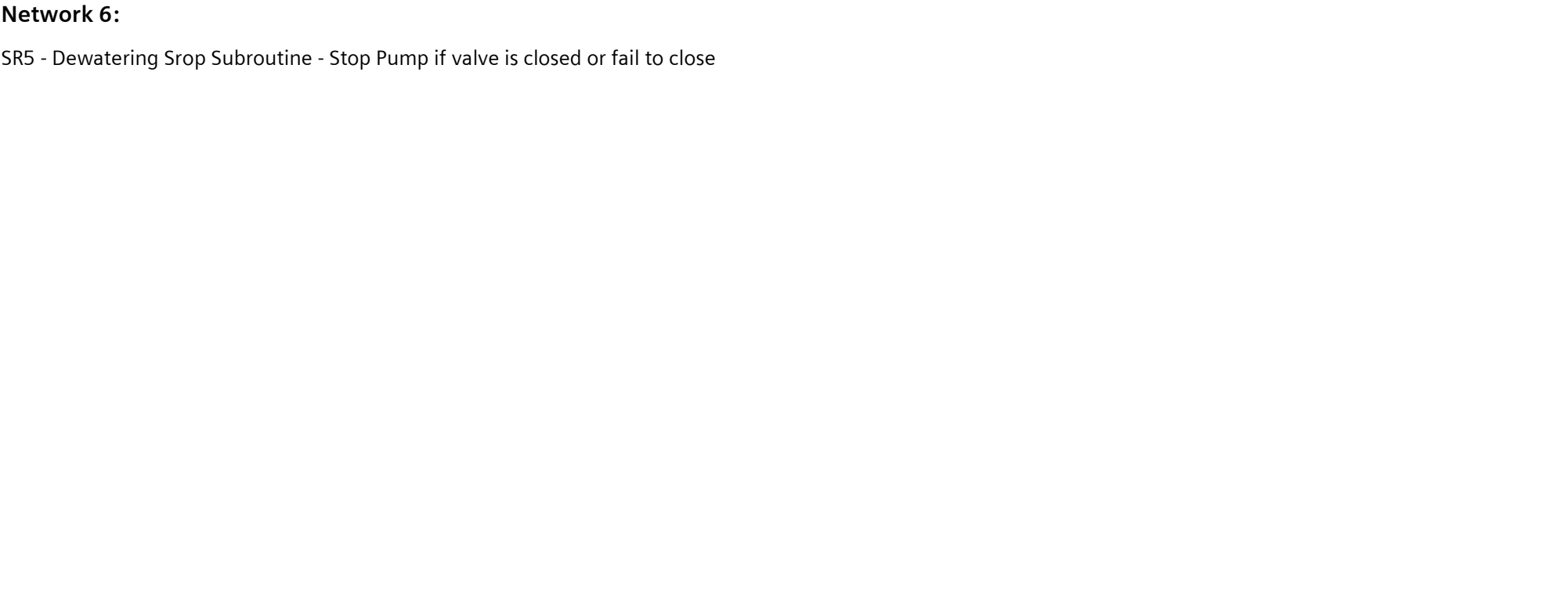
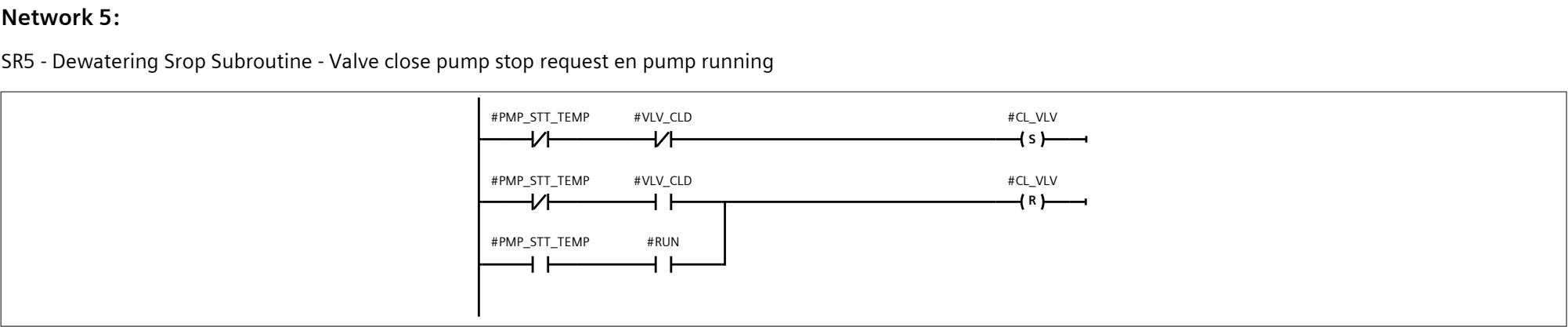
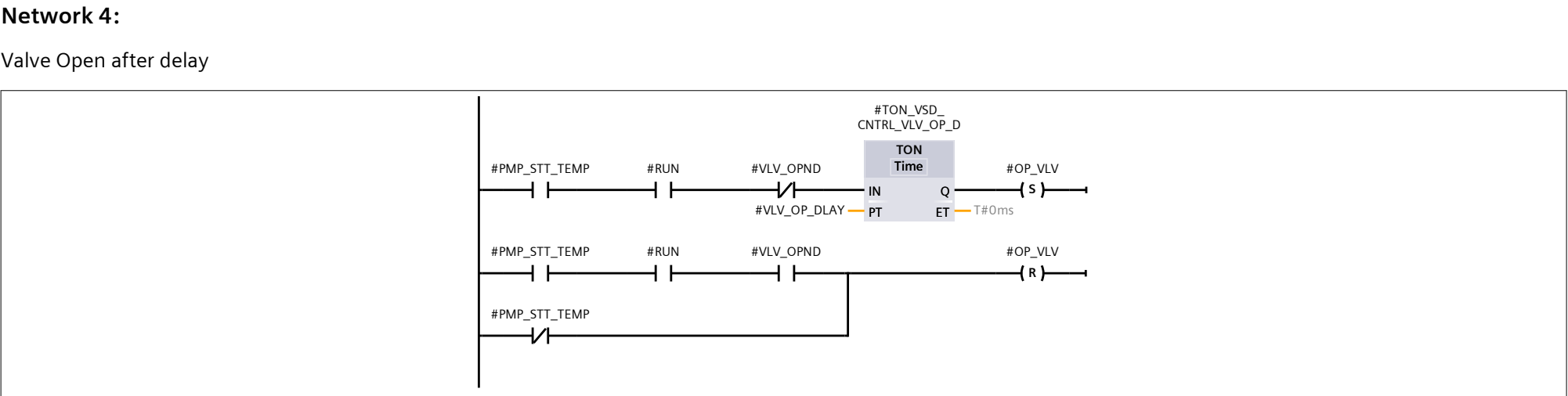
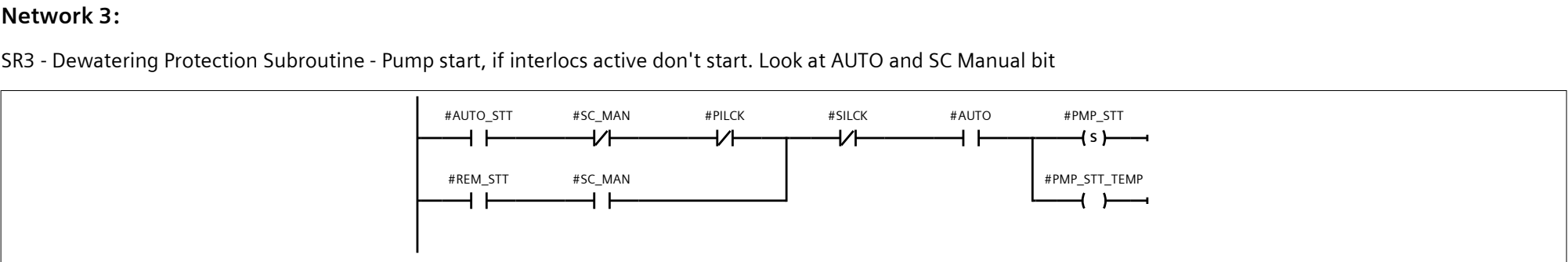
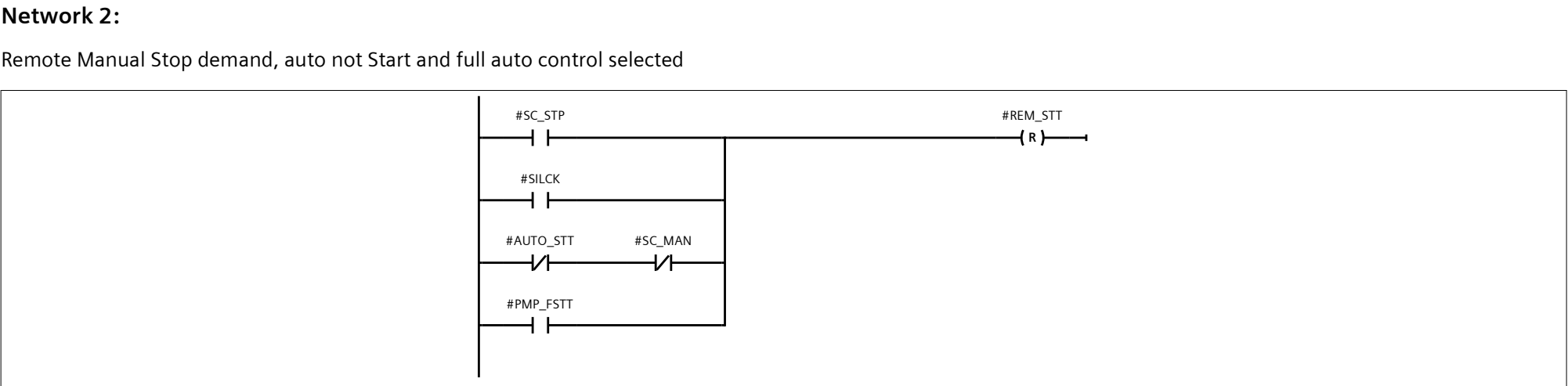
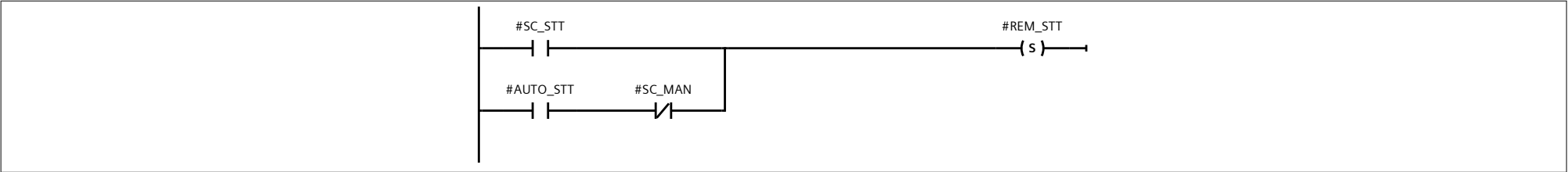
Information

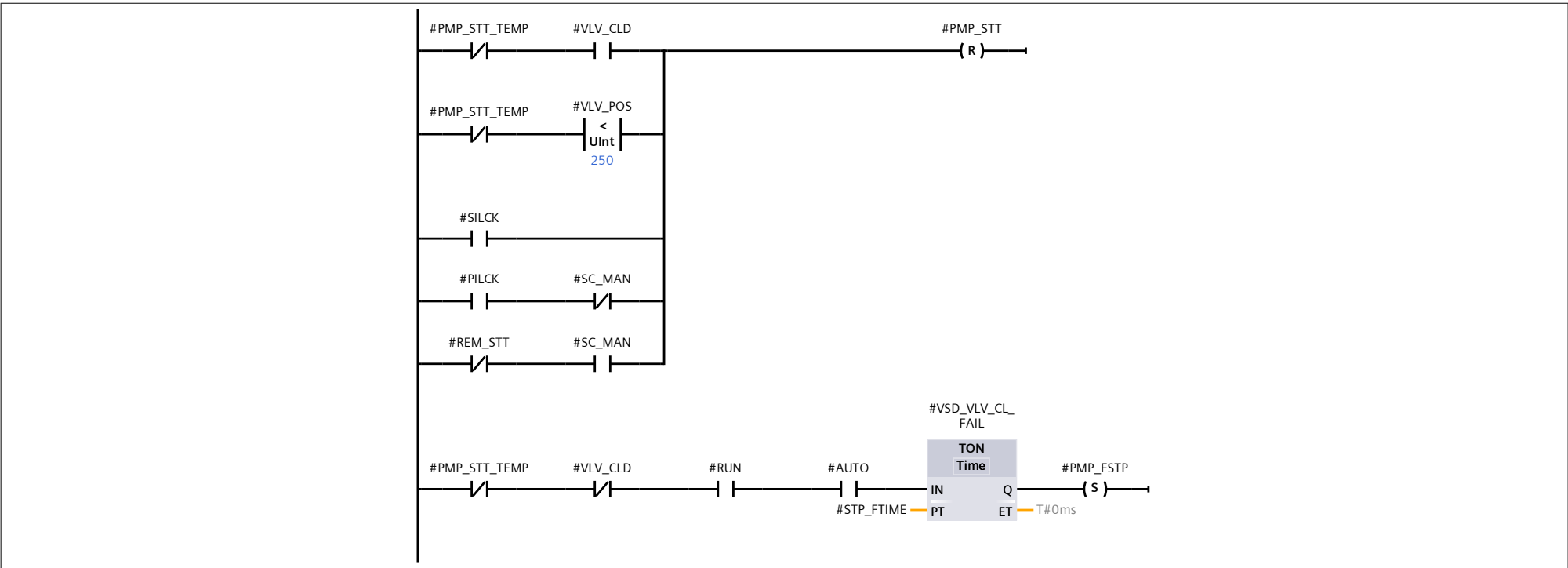
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	Non-retain	True	True	True	False		
RUN	Bool	false	Non-retain	True	True	True	False		
AUTO_STT	Bool	false	Non-retain	True	True	True	False		
SC_MAN	Bool	false	Non-retain	True	True	True	False		
SC_STT	Bool	false	Non-retain	True	True	True	False		
SC_STP	Bool	false	Non-retain	True	True	True	False		
VLV_OPND	Bool	false	Non-retain	True	True	True	False		
VLV_CLD	Bool	false	Non-retain	True	True	True	False		
VLV_REM	Bool	false	Non-retain	True	True	True	False		
VLV_POS	UInt	0	Non-retain	True	True	True	False		
RST	Bool	false	Non-retain	True	True	True	False		
PILCK	Bool	false	Non-retain	True	True	True	False		
SILCK	Bool	false	Non-retain	True	True	True	False		
STT_FTIME	Time	T#0ms	Non-retain	True	True	True	False		
STP_FTIME	Time	T#0ms	Non-retain	True	True	True	False		
VLV_OP_DLAY	Time	T#0ms	Non-retain	True	True	True	False		
AUTO_SPD	Int	0	Non-retain	True	True	True	False		
AUTO_SPD_TMAN	Bool	false	Non-retain	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	Non-retain	True	True	True	False		
PMP_FSTT	Bool	false	Non-retain	True	True	True	False		
PMP_FSTP	Bool	false	Non-retain	True	True	True	False		
PMP_SPD	Int	0	Non-retain	True	True	True	False		
CL_VLV	Bool	false	Non-retain	True	True	True	False		
OP_VLV	Bool	false	Non-retain	True	True	True	False		
▼ InOut									
SC_SPD	UInt	0	Non-retain	True	True	True	False		
▼ Static									
REM_STT	Bool	false	Non-retain	True	True	True	False		
AUTO_STT_ON_P	Bool	false	Non-retain	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	Non-retain	True	True	True	False		
PMP_STT_TEMP	Bool	false	Non-retain	True	True	True	False		
▼ TON_VSD_CNTRL_VLV_OP_D	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ TON_VSD_PMP	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ VSD_VLV_CL_FAIL	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Temp									
Constant									

Network 1:

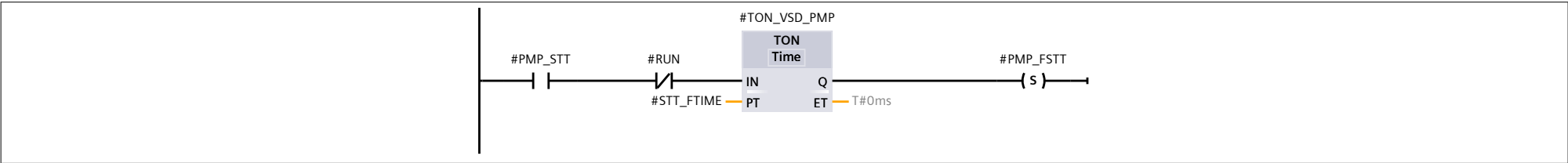
Remote Manual Start demand, auto start and full auto control selected





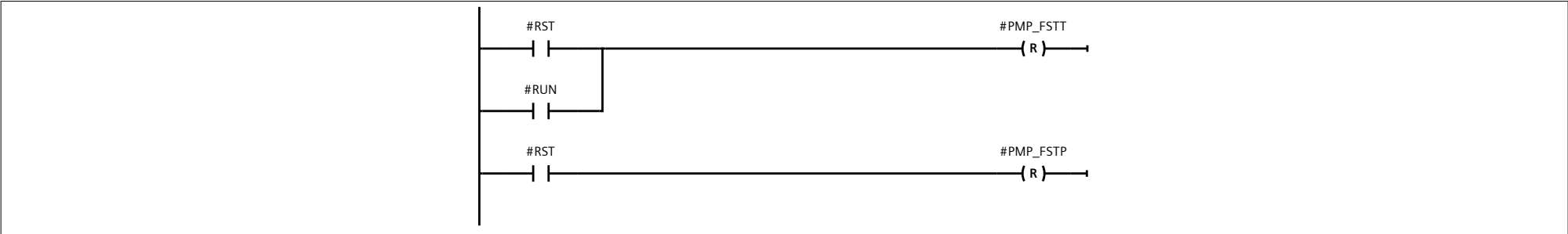
Network 7:

Fail to start generate



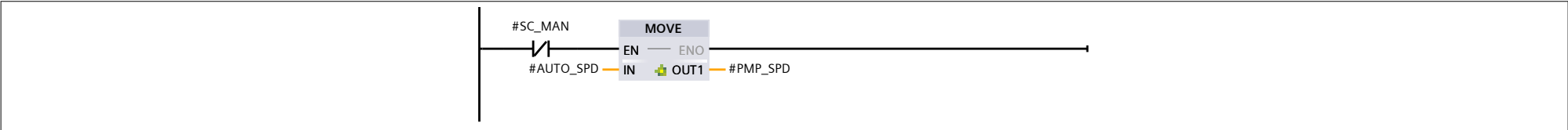
Network 8:

Fail to start Reset



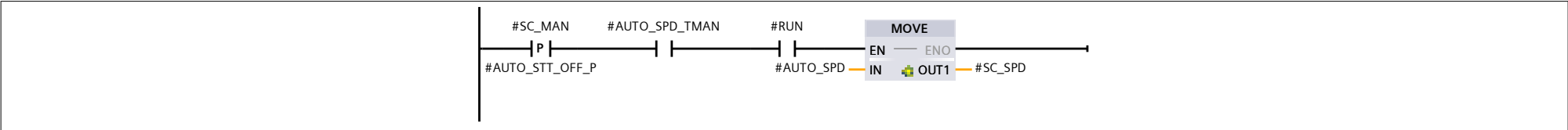
Network 9:

If Auto Follow Auto Speed



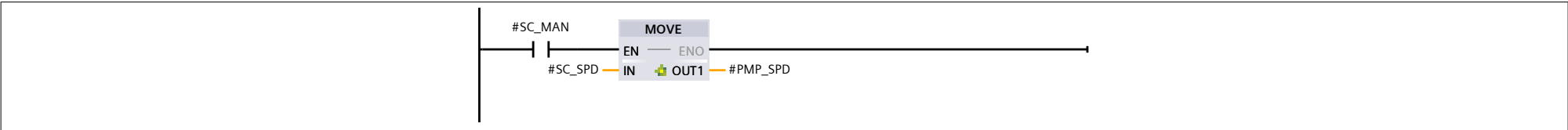
Network 10:

If pump running in Auto move speed to manual if switch to manual control



Network 11:

If Manual Follow Manual Speed



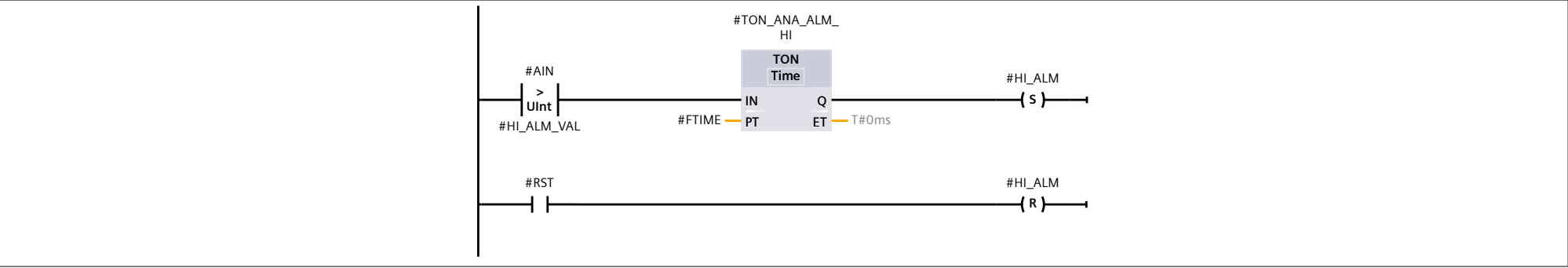
Program blocks / FunctionBlocks

CM15_ANA_ALM [FB13]

CM15_ANA_ALM Properties									
General									
Name	CM15_ANA_ALM	Number	13	Type	FB			Language	LAD
Numbering	Automatic								
Information									
Title		Author		Comment				Family	
Version	0.1	User-defined ID							
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	Non-retain	True	True	True	False		
HI_ALM_VAL	UInt	0	Non-retain	True	True	True	False		
LO_ALM_VAL	UInt	0	Non-retain	True	True	True	False		
FTIME	Time	T#0ms	Non-retain	True	True	True	False		
LO_ALM_ENB	Bool	false	Non-retain	True	True	True	False		
RST	Bool	false	Non-retain	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	Non-retain	True	True	True	False		
LO_ALM	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
Temp									
Constant									

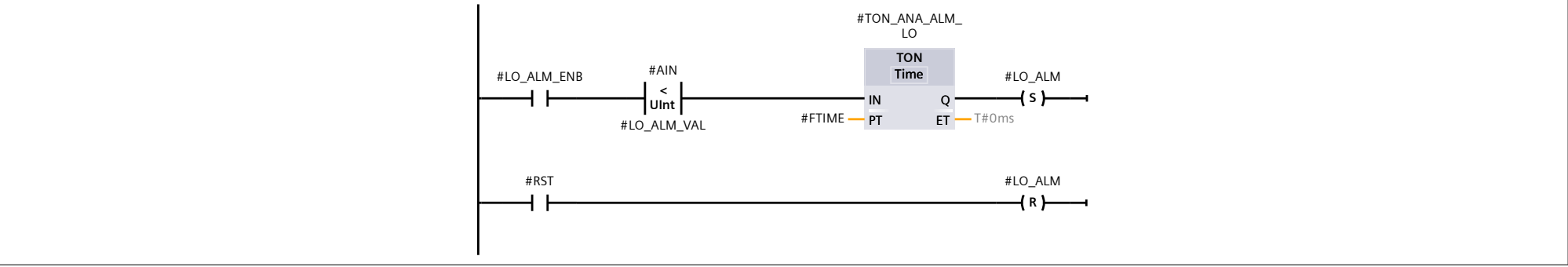
Network 1:

Hi Alarm



Network 2:

Low Alarm



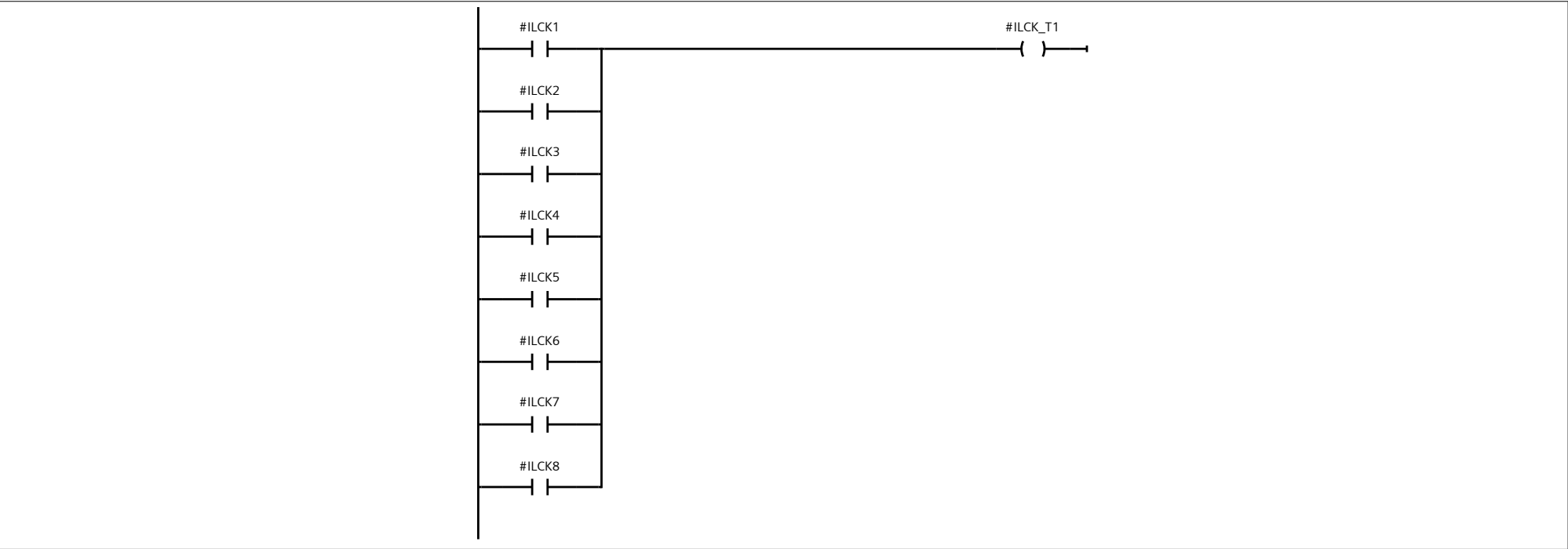
Program blocks / FunctionBlocks

CM14_INTERLOCK_V2 [FB14]

CM14_INTERLOCK_V2 Properties									
General									
Name	CM14_INTERLOCK_V2	Number	14	Type	FB			Language	LAD
Numbering	Automatic								
Information									
Title		Author		Comment				Family	
Version	0.1	User-defined ID							
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
ILCK1	Bool	false	Non-retain	True	True	True	False		
ILCK2	Bool	false	Non-retain	True	True	True	False		
ILCK3	Bool	false	Non-retain	True	True	True	False		
ILCK4	Bool	false	Non-retain	True	True	True	False		
ILCK5	Bool	false	Non-retain	True	True	True	False		
ILCK6	Bool	false	Non-retain	True	True	True	False		
ILCK7	Bool	false	Non-retain	True	True	True	False		
ILCK8	Bool	false	Non-retain	True	True	True	False		
ILCK9	Bool	false	Non-retain	True	True	True	False		
ILCK10	Bool	false	Non-retain	True	True	True	False		
ILCK11	Bool	false	Non-retain	True	True	True	False		
ILCK12	Bool	false	Non-retain	True	True	True	False		
ILCK13	Bool	false	Non-retain	True	True	True	False		
ILCK14	Bool	false	Non-retain	True	True	True	False		
ILCK15	Bool	false	Non-retain	True	True	True	False		
ILCK16	Bool	false	Non-retain	True	True	True	False		
▼ Output									
ILCK_OUT	Bool	false	Non-retain	True	True	True	False		
ILOCK_WRD	Word	16#0	Non-retain	True	True	True	False		
InOut									
▼ Static									
ILCK_T1	Bool	false	Non-retain	True	True	True	False		
ILCK_T2	Bool	false	Non-retain	True	True	True	False		
Temp									
Constant									

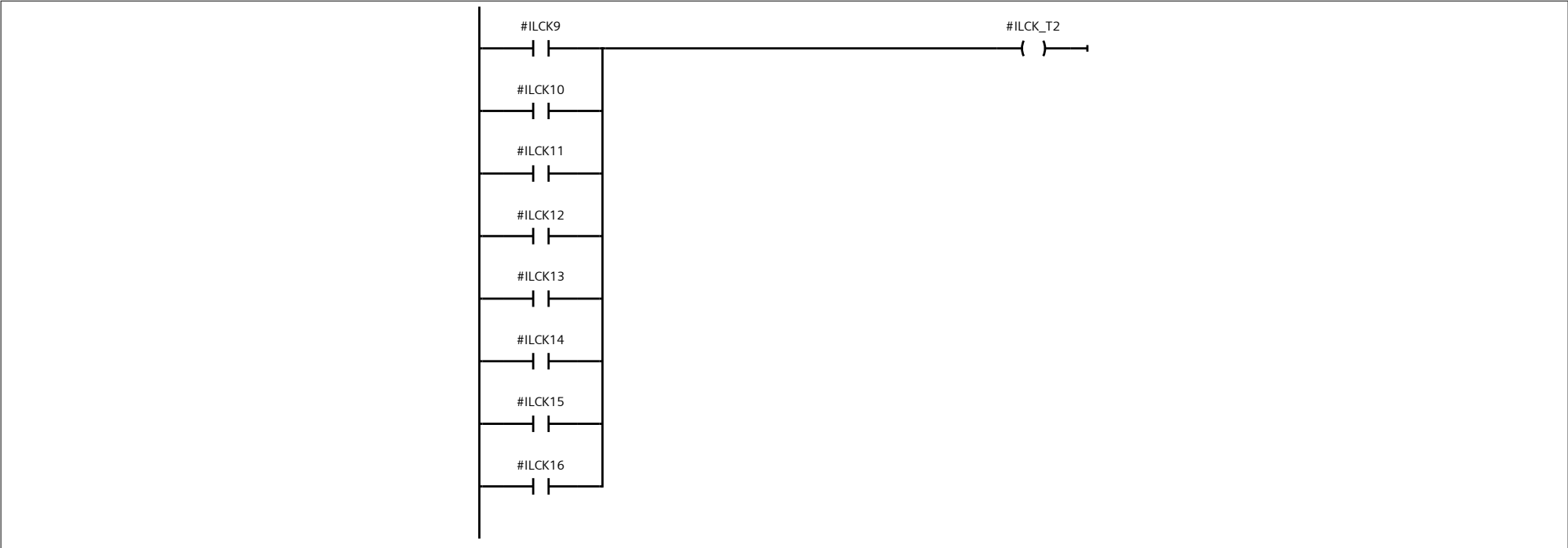
Network 1:

Generate Process Interlock Output



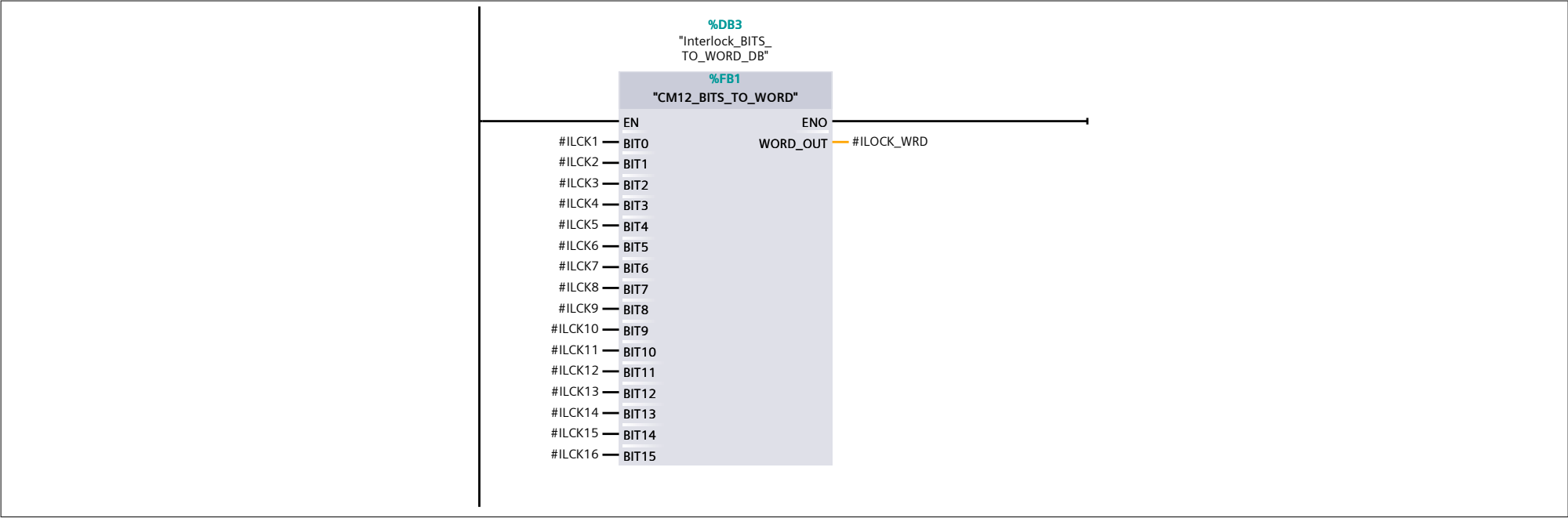
Network 2:

Generate Safety Interlock Output

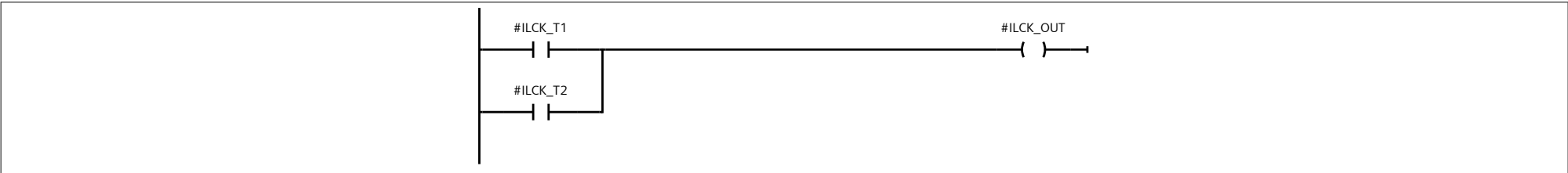


Network 3:

Generate Interlock Word

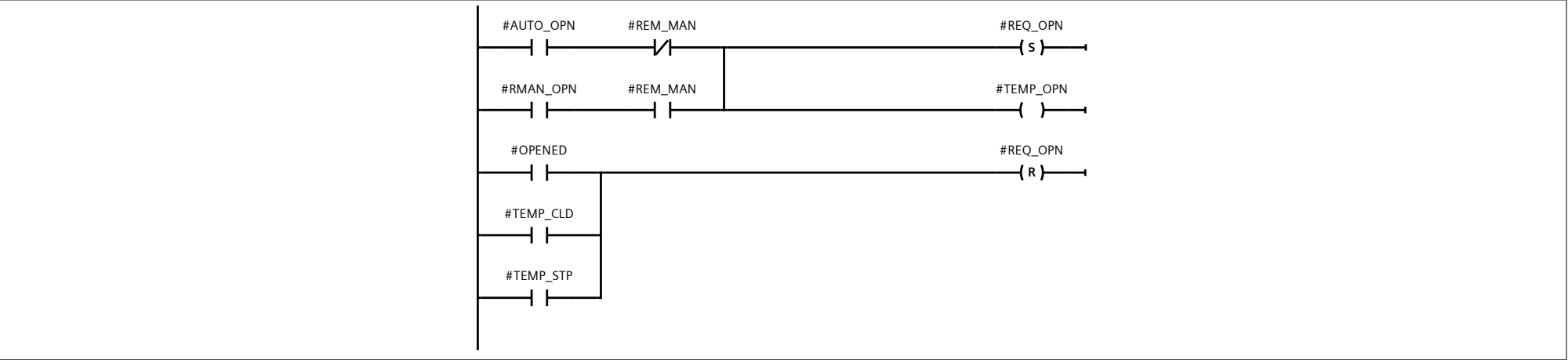


Network 4:



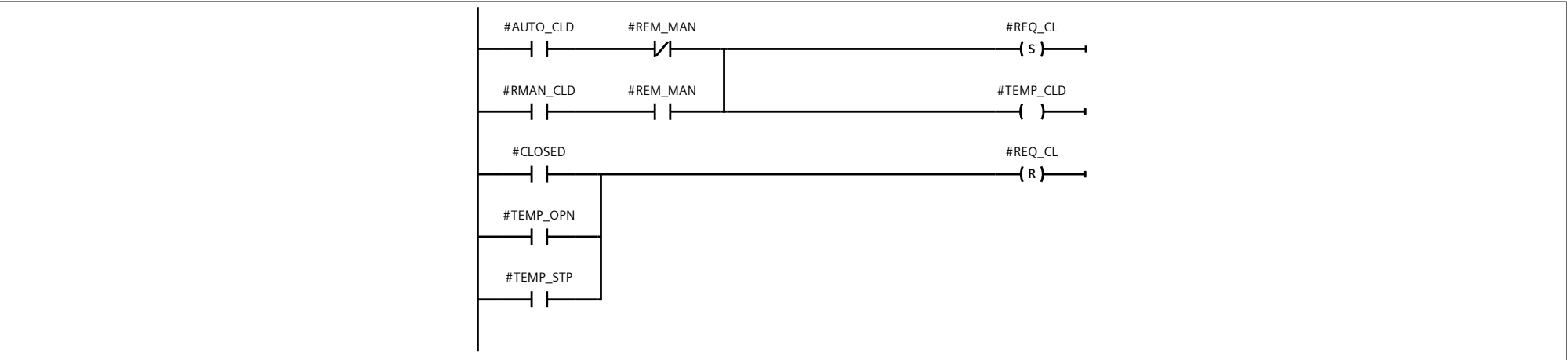
Network 1:

Generate open req or reset open req



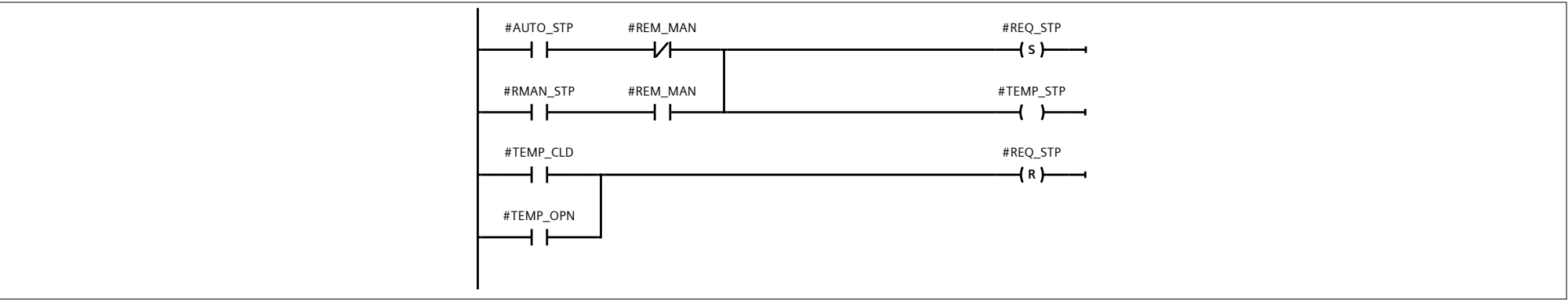
Network 2:

Generate Closed req or reset Closed req



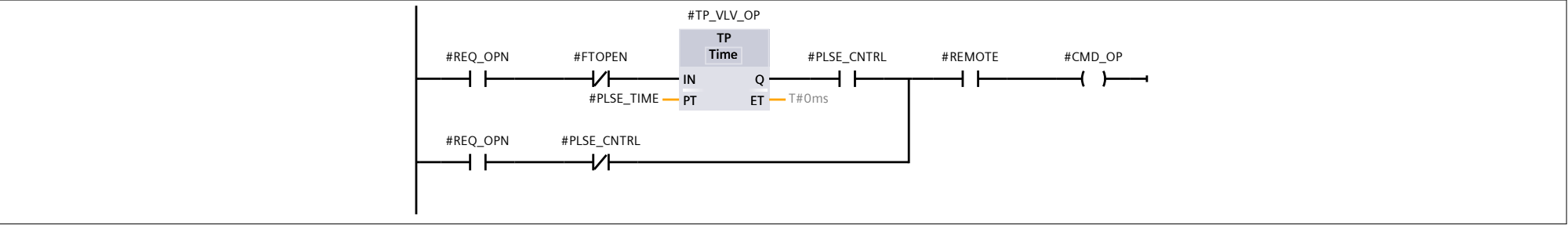
Network 3:

Generate Stop req or reset Stop req



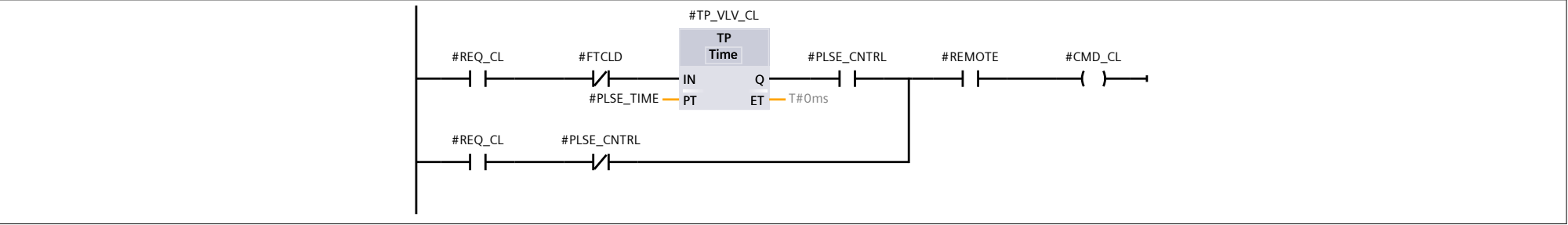
Network 4:

Open command Out



Network 5:

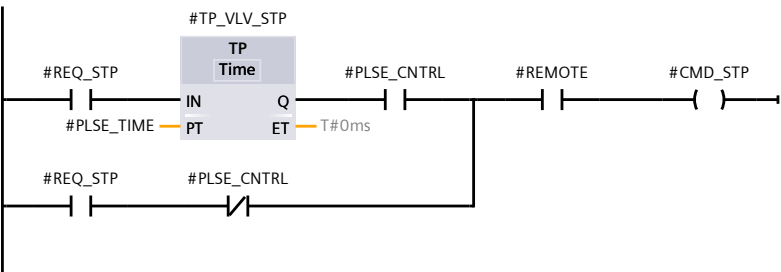
Close command Out



Network 6:

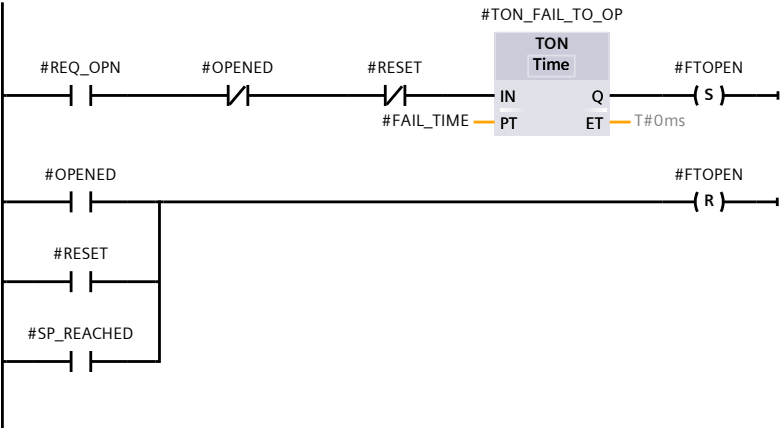
Stop command Out





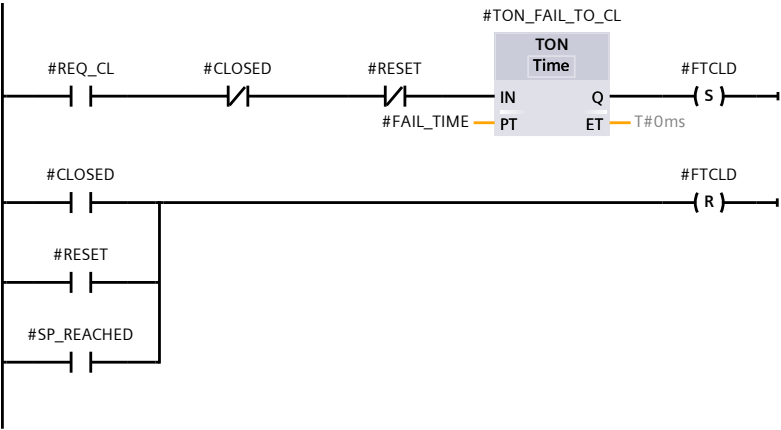
Network 7:

Generate Fail to Open



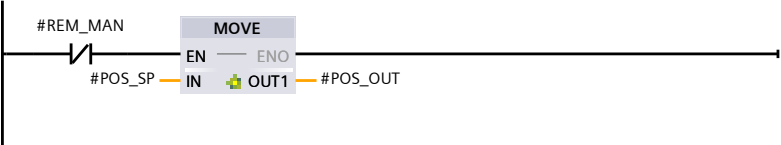
Network 8:

Generate Fail to Close



Network 9:

Position Output



Program blocks / FunctionBlocks

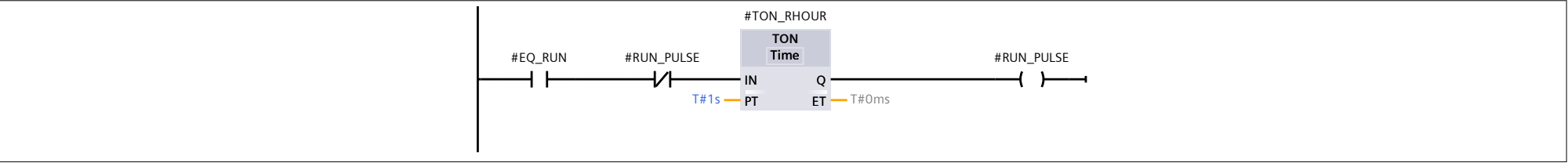
CM13_RUN_HOUR_1 [FB16]

CM13_RUN_HOUR_1 Properties							
General							
Name	CM13_RUN_HOUR_1	Number	16	Type	FB	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	Non-retain	True	True	True	False		
EQ_RUN	Bool	false	Non-retain	True	True	True	False		
SAVE_ON_RUN	Bool	false	Non-retain	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	Non-retain	True	True	True	False		
RUN_MIN	UDInt	0	Non-retain	True	True	True	False		
RUN_PULSE	Bool	false	Non-retain	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	Retain	True	True	True	False		
▼ Static									
▼ CTU_RHOUR_CTU	CTU_INT		Non-retain	True	True	True	True		
CU	Bool	false	Non-retain	True	True	True	False		
CD	Bool	false	Non-retain	True	True	True	False		
R	Bool	false	Non-retain	True	True	True	False		
LD	Bool	false	Non-retain	True	True	True	False		
QU	Bool	false	Non-retain	True	True	True	False		
QD	Bool	false	Non-retain	True	True	True	False		
PV	Int	0	Non-retain	True	True	True	False		
CV	Int	0	Non-retain	True	True	True	False		
▼ TON_RHOUR	TON_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG			True	True	True	True		
▼ Input									
CLK	Bool	false	Non-retain	True	True	True	False		
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	Non-retain	True	True	True	False		
CNT_RST	Bool	false	Non-retain	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		Non-retain	True	True	True	True		
PT	Time	T#0ms	Non-retain	True	True	True	False		
ET	Time	T#0ms	Non-retain	True	False	True	False		
IN	Bool	false	Non-retain	True	True	True	False		
Q	Bool	false	Non-retain	True	False	True	False		
▼ Temp									
EQ_RUN_F	Bool								
SAVE_MIN	Int								
CNT_VAL	Int								
CNT_VAL_MIN	Int								
SAVE_SEC	Int								
Constant									

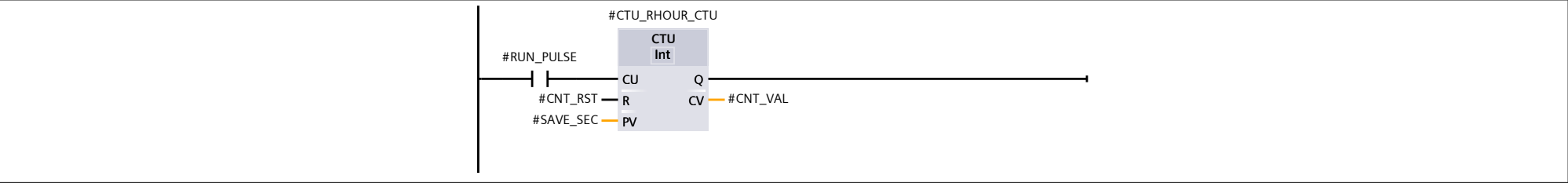
Network 1:

Generate 1s pulse



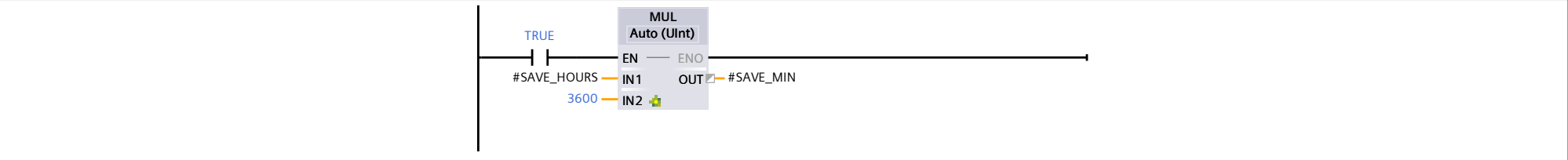
Network 2:

Count 1s pulse



Network 3:

Change Hours to Minutes

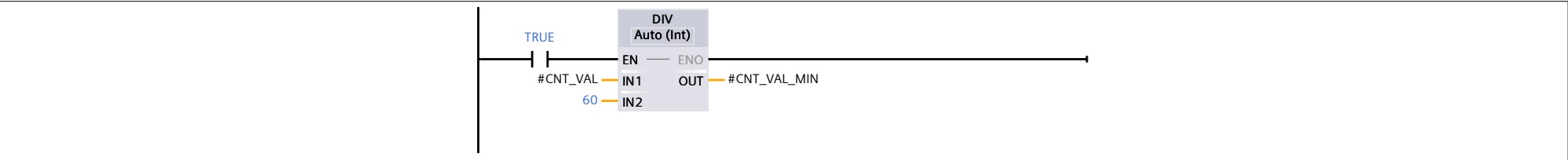


Network 4:

Clear reset after Counter cleared

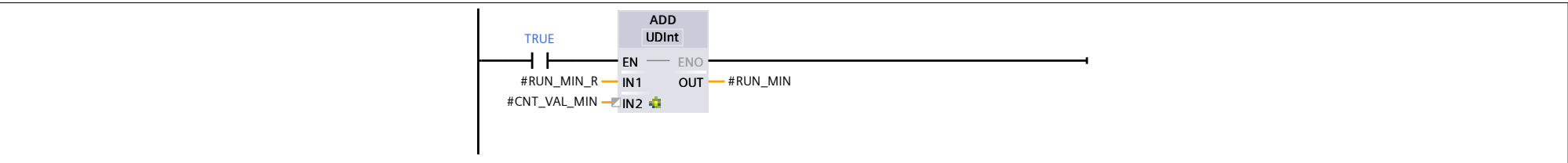


Network 5:



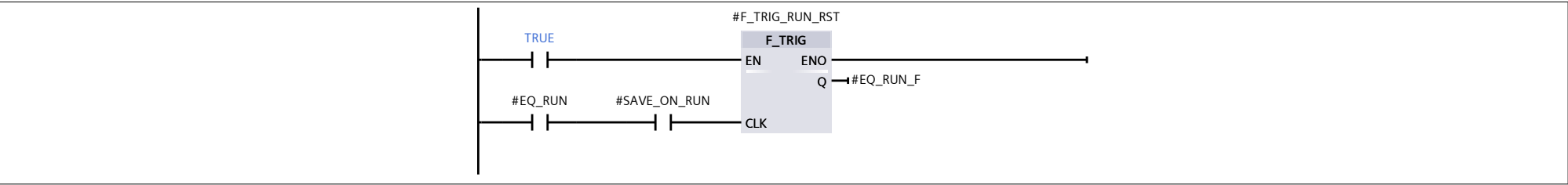
Network 6:

Calculate run minutes



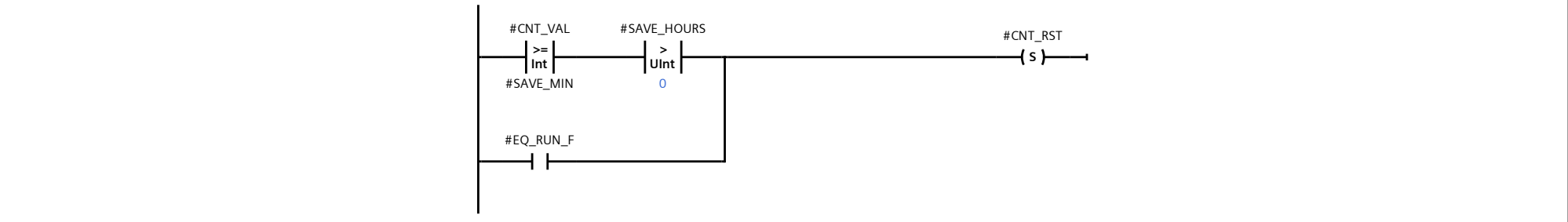
Network 7:

If equipment stop trigger save of data if save enabled



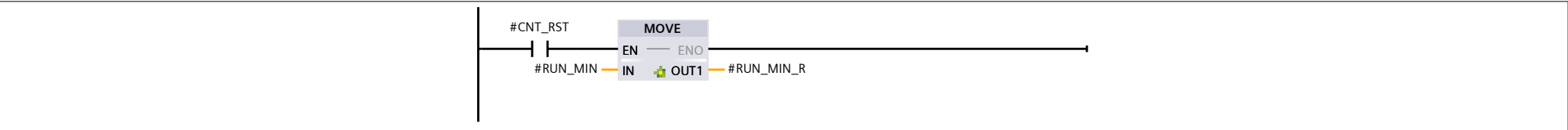
Network 8:

If counter above save value trigger save of data

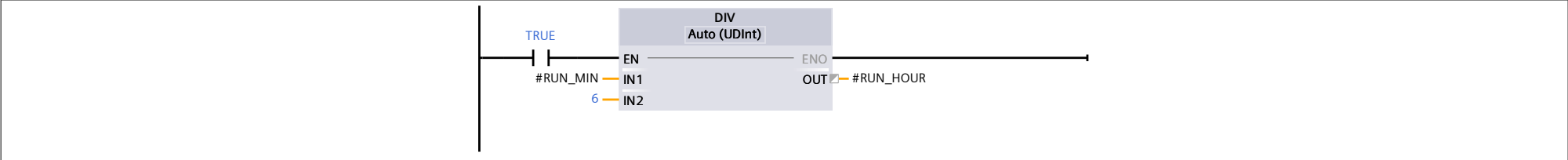


Network 9:

Move Run minute to retentive memery



Network 10:



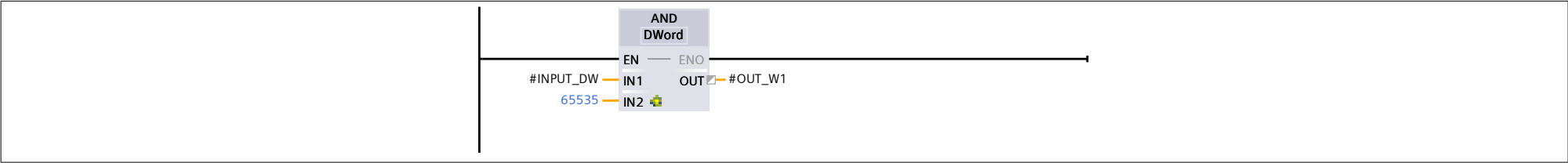
Program blocks / FunctionBlocks

CM16_DWRD_TO_WRDS [FB17]

CM16_DWRD_TO_WRDS Properties									
General									
Name	CM16_DWRD_TO_WRDS	Number	17	Type	FB			Language	LAD
Numbering	Automatic								
Information									
Title		Author		Comment				Family	
Version	0.1	User-defined ID							
Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
INPUT_DW	DWord	16#0	Non-retain	True	True	True	False		
▼ Output									
OUT_W1	Word	16#0	Non-retain	True	True	True	False		
OUT_W2	Word	16#0	Non-retain	True	True	True	False		
InOut									
Static									
▼ Temp									
OUT_W2_TEMP	DWord								
Constant									

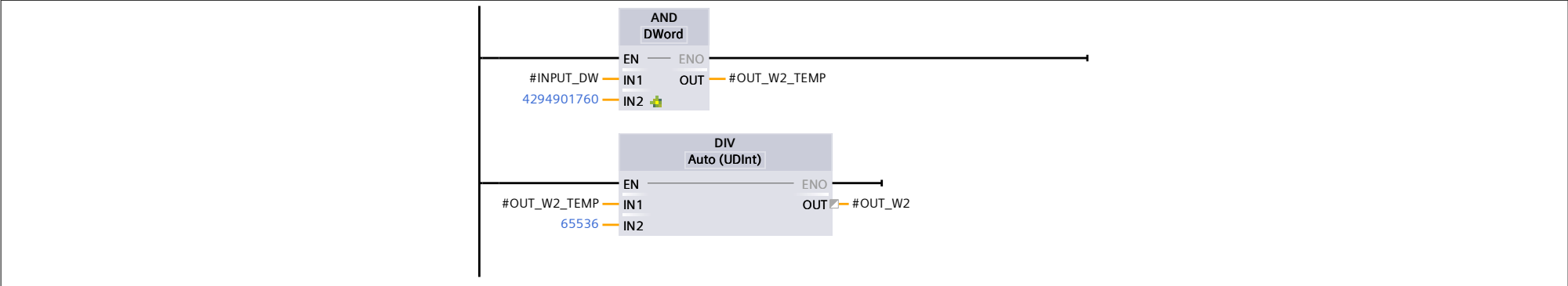
Network 1:

Low Word



Network 2:

High Word

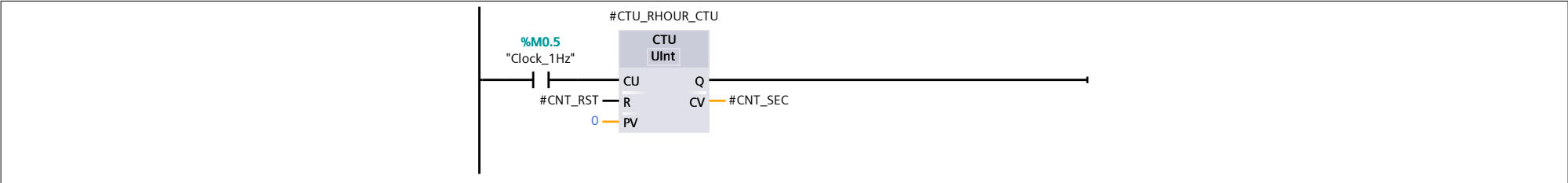


CM17_SERVICE_REQ [FB18]

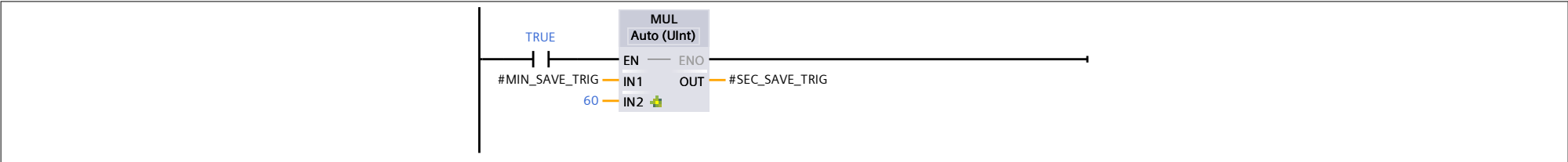
||
||
||

Name</

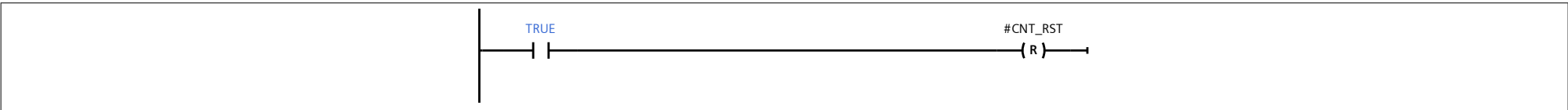
Count 1s pulse



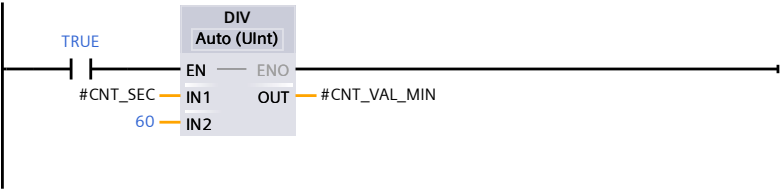
Change Hours to Minutes



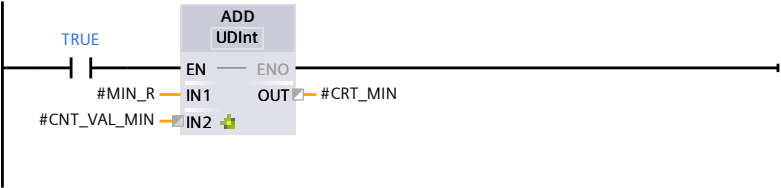
Clear reset after Counter



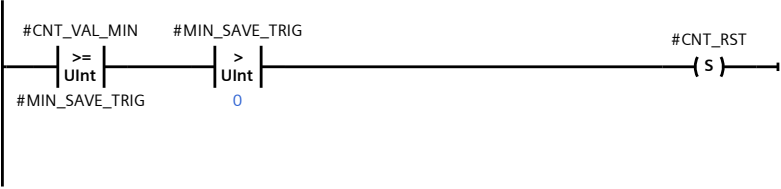
Change seconds to min



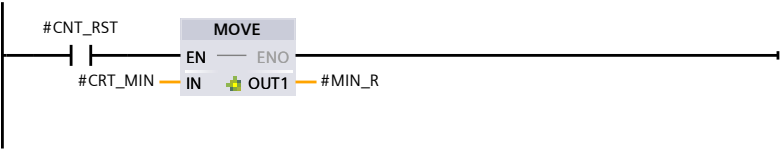
Network 5:
Add current to saved value



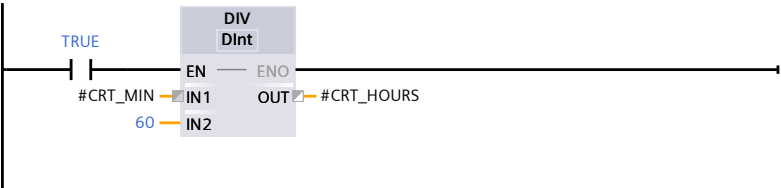
Network 6:
If counter above save value trigger save of data



Network 7:
Move Run minute to retentive memery



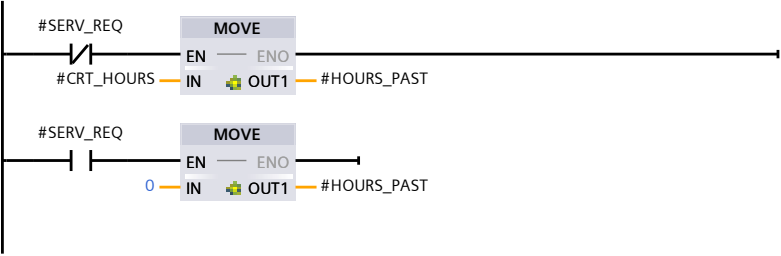
Network 8:



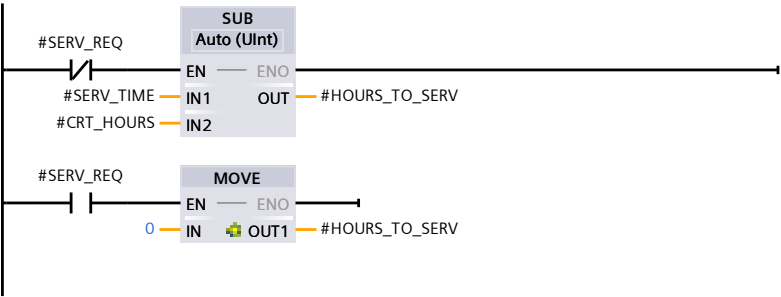
Network 9:

```
graph LR
    #CRT_HOURS -->|>=| UInt
    #SERV_TIME --> S[S]
    S --> #SERV_REQ
```

Network 10:



Network 11:



Network 12:



Program blocks / Main Pumps

CTRR_PH_PP_01_CM14_INTERLOCK [DB1]

CTRR_PH_PP_01_CM14_INTERLOCK Properties							
General							
Name	CTRR_PH_PP_01_CM14_IN- TERLOCK	Number	1	Type	DB	Language	DB
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
PILCK1	Bool	false	False	True	True	True	False		
PILCK2	Bool	false	False	True	True	True	False		
PILCK3	Bool	false	False	True	True	True	False		
PILCK4	Bool	false	False	True	True	True	False		
PILCK5	Bool	false	False	True	True	True	False		
PILCK6	Bool	false	False	True	True	True	False		
PILCK7	Bool	false	False	True	True	True	False		
PILCK8	Bool	false	False	True	True	True	False		
SILCK1	Bool	false	False	True	True	True	False		
SILCK2	Bool	false	False	True	True	True	False		
SILCK3	Bool	false	False	True	True	True	False		
SILCK4	Bool	false	False	True	True	True	False		
SILCK5	Bool	false	False	True	True	True	False		
SILCK6	Bool	false	False	True	True	True	False		
SILCK7	Bool	false	False	True	True	True	False		
SILCK8	Bool	false	False	True	True	True	False		
▼ Output									
PILCK_OUT	Bool	false	False	True	True	True	False		
SILCK_OUT	Bool	false	False	True	True	True	False		
ILOCK_WRD	Word	16#0	False	True	True	True	False		
InOut									
Static									

Program blocks / Main Pumps

CTRR_PH_PP_02_CM14_INTERLOCK [DB2]

CTRR_PH_PP_02_CM14_INTERLOCK Properties							
General							
Name	CTRR_PH_PP_02_CM14_IN- TERLOCK	Number	2	Type	DB	Language	DB
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_MB_NDET [DB14]

CM15_MP1_MB_NDET Properties

General

Name	CM15_MP1_MB_NDET	Number	14	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_MB_DET [DB15]

CM15_MP1_MB_DET Properties

General

Name	CM15_MP1_MB_DET	Number	15	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_MW_REDT [DB16]

CM15_MP1_MW_REDT Properties

General

Name	CM15_MP1_MW_REDT	Number	16	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_MW_WTT [DB17]

CM15_MP1_MW_WTT Properties

General

Name	CM15_MP1_MW_WTT	Number	17	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_MW_BLT [DB18]

CM15_MP1_MW_BLT Properties

General

Name	CM15_MP1_MW_BLT	Number	18	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_TOP_VIB [DB19]

CM15_MP1_TOP_VIB Properties

General

Name	CM15_MP1_TOP_VIB	Number	19	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_MH_VIB [DB20]

CM15_MP1_MH_VIB Properties

General

Name	CM15_MP1_MH_VIB	Number	20	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_PH_VIB [DB21]

CM15_MP1_PH_VIB Properties

General

Name	CM15_MP1_PH_VIB	Number	21	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP1_PRESS_FLT [DB23]

CM15_MP1_PRESS_FLT Properties

General

Name	CM15_MP1_PRESS_FLT	Number	23	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM03_MP1_Control [DB26]

CM03_MP1_Control Properties

General

Name	CM03_MP1_Control	Number	26	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	False	True	True	True	False		
RUN	Bool	false	False	True	True	True	False		
AUTO_STT	Bool	false	False	True	True	True	False		
SC_MAN	Bool	false	False	True	True	True	False		
SC_STT	Bool	false	False	True	True	True	False		
SC_STP	Bool	false	False	True	True	True	False		
VLV_OPND	Bool	false	False	True	True	True	False		
VLV_CLD	Bool	false	False	True	True	True	False		
VLV_REM	Bool	false	False	True	True	True	False		
VLV_POS	UInt	0	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
PILCK	Bool	false	False	True	True	True	False		
SILCK	Bool	false	False	True	True	True	False		
STT_FTIME	Time	T#0ms	False	True	True	True	False		
STP_FTIME	Time	T#0ms	False	True	True	True	False		
VLV_OP_DLAY	Time	T#0ms	False	True	True	True	False		
AUTO_SPD	Int	0	False	True	True	True	False		
AUTO_SPD_TMAN	Bool	false	False	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	False	True	True	True	False		
PMP_FSTT	Bool	false	False	True	True	True	False		
PMP_FSTP	Bool	false	False	True	True	True	False		
PMP_SPD	Int	0	False	True	True	True	False		
CL_VLV	Bool	false	False	True	True	True	False		
OP_VLV	Bool	false	False	True	True	True	False		
▼ InOut									
SC_SPD	UInt	0	False	True	True	True	False		
▼ Static									
REM_STT	Bool	false	False	True	True	True	False		
AUTO_STT_ON_P	Bool	false	False	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	False	True	True	True	False		
PMP_STT_TEMP	Bool	false	False	True	True	True	False		
▼ TON_VSD_CNTRL_VLV_OP_D	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_VSD_PMP	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ VSD_VLV_CL_FAIL	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_MB_DET [DB28]

CM15_MP2_MB_DET Properties

General

Name	CM15_MP2_MB_DET	Number	28	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_MB_NDET [DB29]

CM15_MP2_MB_NDET Properties

General

Name	CM15_MP2_MB_NDET	Number	29	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_MW_REDT [DB30]

CM15_MP2_MW_REDT Properties

General

Name	CM15_MP2_MW_REDT	Number	30	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_MW_WTT [DB31]

CM15_MP2_MW_WTT Properties

General

Name	CM15_MP2_MW_WTT	Number	31	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_MW_BLT [DB32]

CM15_MP2_MW_BLT Properties

General

Name	CM15_MP2_MW_BLT	Number	32	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_TOP_VIB [DB33]

CM15_MP2_TOP_VIB Properties

General

Name	CM15_MP2_TOP_VIB	Number	33	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_MH_VIB [DB34]

CM15_MP2_MH_VIB Properties

General

Name	CM15_MP2_MH_VIB	Number	34	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_PH_VIB [DB35]

CM15_MP2_PH_VIB Properties

General

Name	CM15_MP2_PH_VIB	Number	35	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM15_MP2_PRESS_FLT [DB37]

CM15_MP2_PRESS_FLT Properties

General

Name	CM15_MP2_PRESS_FLT	Number	37	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM13_RH_CTRR_PH_PP_02_1 [DB82]

CM13_RH_CTRR_PH_PP_02_1 Properties

General

Name	CM13_RH_CTRR_PH_PP_02_1	Number	82	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	False	True	True	True	False		
EQ_RUN	Bool	false	False	True	True	True	False		
SAVE_ON_RUN	Bool	false	False	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	False	True	True	True	False		
RUN_MIN	UDInt	0	False	True	True	True	False		
RUN_PULSE	Bool	false	False	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
▼ CTU_RHOUR_CTU	CTU_INT		False	True	True	True	True		
CU	Bool	false	False	True	True	True	False		
CD	Bool	false	False	True	True	True	False		
R	Bool	false	False	True	True	True	False		
LD	Bool	false	False	True	True	True	False		
QU	Bool	false	False	True	True	True	False		
QD	Bool	false	False	True	True	True	False		
PV	Int	0	False	True	True	True	False		
CV	Int	0	False	True	True	True	False		
▼ TON_RHOUR	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG		False	True	True	True	True		
▼ Input									
CLK	Bool	false	False	True	True	True	False		
▼ Output									
Q	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	False	True	True	True	False		
CNT_RST	Bool	false	False	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Main Pumps

CM13_RH_CTRR_PH_PP_01_1 [DB83]

CM13_RH_CTRR_PH_PP_01_1 Properties

General

Name	CM13_RH_CTRR_PH_PP_01_1	Number	83	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	False	True	True	True	False		
EQ_RUN	Bool	false	False	True	True	True	False		
SAVE_ON_RUN	Bool	false	False	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	False	True	True	True	False		
RUN_MIN	UDInt	0	False	True	True	True	False		
RUN_PULSE	Bool	false	False	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
▼ CTU_RHOUR_CTU	CTU_INT		False	True	True	True	True		
CU	Bool	false	False	True	True	True	False		
CD	Bool	false	False	True	True	True	False		
R	Bool	false	False	True	True	True	False		
LD	Bool	false	False	True	True	True	False		
QU	Bool	false	False	True	True	True	False		
QD	Bool	false	False	True	True	True	False		
PV	Int	0	False	True	True	True	False		
CV	Int	0	False	True	True	True	False		
▼ TON_RHOUR	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG		False	True	True	True	True		
▼ Input									
CLK	Bool	false	False	True	True	True	False		
▼ Output									
Q	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	False	True	True	True	False		
CNT_RST	Bool	false	False	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP03_MB_NDE_VIB [DB48]

CM15_DP03_MB_NDE_VIB Properties

General

Name	CM15_DP03_MB_NDE_VIB	Number	48	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP03_PRESS_FLT [DB50]

CM15_DP03_PRESS_FLT Properties

General

Name	CM15_DP03_PRESS_FLT	Number	50	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM14_DP03_SILCK [DB52]

CM14_DP03_SILCK Properties

General

Name	CM14_DP03_SILCK	Number	52	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
ILCK1	Bool	false	False	True	True	True	False		
ILCK2	Bool	false	False	True	True	True	False		
ILCK3	Bool	false	False	True	True	True	False		
ILCK4	Bool	false	False	True	True	True	False		
ILCK5	Bool	false	False	True	True	True	False		
ILCK6	Bool	false	False	True	True	True	False		
ILCK7	Bool	false	False	True	True	True	False		
ILCK8	Bool	false	False	True	True	True	False		
ILCK9	Bool	false	False	True	True	True	False		
ILCK10	Bool	false	False	True	True	True	False		
ILCK11	Bool	false	False	True	True	True	False		
ILCK12	Bool	false	False	True	True	True	False		
ILCK13	Bool	false	False	True	True	True	False		
ILCK14	Bool	false	False	True	True	True	False		
ILCK15	Bool	false	False	True	True	True	False		
ILCK16	Bool	false	False	True	True	True	False		
▼ Output									
ILCK_OUT	Bool	false	False	True	True	True	False		
ILOCK_WRD	Word	16#0	False	True	True	True	False		
InOut									
▼ Static									
ILCK_T1	Bool	false	False	True	True	True	False		
ILCK_T2	Bool	false	False	True	True	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP04_MB_DET [DB54]

CM15_DP04_MB_DET Properties

General

Name	CM15_DP04_MB_DET	Number	54	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP04_MB_NDET [DB55]

CM15_DP04_MB_NDET Properties

General

Name	CM15_DP04_MB_NDET	Number	55	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP04_CASE_T [DB56]

CM15_DP04_CASE_T Properties

General

Name	CM15_DP04_CASE_T	Number	56	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP04_TB_DE_T [DB57]

CM15_DP04_TB_DE_T Properties

General

Name	CM15_DP04_TB_DE_T	Number	57	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP04_MB_DE_VIB [DB58]

CM15_DP04_MB_DE_VIB Properties

General

Name	CM15_DP04_MB_DE_VIB	Number	58	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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Program blocks / Drainage Pumps

CM15_DP04_MB_NDE_VIB [DB59]

CM15_DP04_MB_NDE_VIB Properties

General

Name	CM15_DP04_MB_NDE_VIB	Number	59	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP04_PB_DE_VIB [DB60]

CM15_DP04_PB_DE_VIB Properties

General

Name	CM15_DP04_PB_DE_VIB	Number	60	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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Program blocks / Drainage Pumps

CM15_DP04_PB_NDE_VIB [DB61]

CM15_DP04_PB_NDE_VIB Properties

General

Name	CM15_DP04_PB_NDE_VIB	Number	61	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Totally Integrated Automation Portal

Program blocks / Drainage Pumps

CM15_DP04_PRESS_FLT [DB63]

CM15_DP04_PRESS_FLT Properties

General

Name	CM15_DP04_PRESS_FLT	Number	63	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AIN	UInt	0	False	True	True	True	False		
HI_ALM_VAL	UInt	0	False	True	True	True	False		
LO_ALM_VAL	UInt	0	False	True	True	True	False		
FTIME	Time	T#0ms	False	True	True	True	False		
LO_ALM_ENB	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
▼ Output									
HI_ALM	Bool	false	False	True	True	True	False		
LO_ALM	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
▼ TON_ANA_ALM_HI	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ TON_ANA_ALM_LO	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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Program blocks / Drainage Pumps

CM14_DP04_PILCK [DB64]

CM14_DP04_PILCK Properties

General

Name	CM14_DP04_PILCK	Number	64	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
ILCK1	Bool	false	False	True	True	True	False		
ILCK2	Bool	false	False	True	True	True	False		
ILCK3	Bool	false	False	True	True	True	False		
ILCK4	Bool	false	False	True	True	True	False		
ILCK5	Bool	false	False	True	True	True	False		
ILCK6	Bool	false	False	True	True	True	False		
ILCK7	Bool	false	False	True	True	True	False		
ILCK8	Bool	false	False	True	True	True	False		
ILCK9	Bool	false	False	True	True	True	False		
ILCK10	Bool	false	False	True	True	True	False		
ILCK11	Bool	false	False	True	True	True	False		
ILCK12	Bool	false	False	True	True	True	False		
ILCK13	Bool	false	False	True	True	True	False		
ILCK14	Bool	false	False	True	True	True	False		
ILCK15	Bool	false	False	True	True	True	False		
ILCK16	Bool	false	False	True	True	True	False		
▼ Output									
ILCK_OUT	Bool	false	False	True	True	True	False		
ILOCK_WRD	Word	16#0	False	True	True	True	False		
InOut									
▼ Static									
ILCK_T1	Bool	false	False	True	True	True	False		
ILCK_T2	Bool	false	False	True	True	True	False		

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Program blocks / Drainage Pumps

CM14_DP04_SILCK [DB65]

CM14_DP04_SILCK Properties

General

Name	CM14_DP04_SILCK	Number	65	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
ILCK1	Bool	false	False	True	True	True	False		
ILCK2	Bool	false	False	True	True	True	False		
ILCK3	Bool	false	False	True	True	True	False		
ILCK4	Bool	false	False	True	True	True	False		
ILCK5	Bool	false	False	True	True	True	False		
ILCK6	Bool	false	False	True	True	True	False		
ILCK7	Bool	false	False	True	True	True	False		
ILCK8	Bool	false	False	True	True	True	False		
ILCK9	Bool	false	False	True	True	True	False		
ILCK10	Bool	false	False	True	True	True	False		
ILCK11	Bool	false	False	True	True	True	False		
ILCK12	Bool	false	False	True	True	True	False		
ILCK13	Bool	false	False	True	True	True	False		
ILCK14	Bool	false	False	True	True	True	False		
ILCK15	Bool	false	False	True	True	True	False		
ILCK16	Bool	false	False	True	True	True	False		
▼ Output									
ILCK_OUT	Bool	false	False	True	True	True	False		
ILOCK_WRD	Word	16#0	False	True	True	True	False		
InOut									
▼ Static									
ILCK_T1	Bool	false	False	True	True	True	False		
ILCK_T2	Bool	false	False	True	True	True	False		

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Program blocks / Drainage Pumps

CM02_DP04_Control [DB66]

CM02_DP04_Control Properties

General

Name	CM02_DP04_Control	Number	66	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
AUTO	Bool	false	False	True	True	True	False		
RUN	Bool	false	False	True	True	True	False		
AUTO_STT	Bool	false	False	True	True	True	False		
SC_MAN	Bool	false	False	True	True	True	False		
SC_STT	Bool	false	False	True	True	True	False		
SC_STP	Bool	false	False	True	True	True	False		
VLV_OPND	Bool	false	False	True	True	True	False		
VLV_CLD	Bool	false	False	True	True	True	False		
VLV_REM	Bool	false	False	True	True	True	False		
RST	Bool	false	False	True	True	True	False		
PILCK	Bool	false	False	True	True	True	False		
SILCK	Bool	false	False	True	True	True	False		
STT_FAIL_TIME	Time	T#0ms	False	True	True	True	False		
STP_FAIL_TIME	Time	T#0ms	False	True	True	True	False		
▼ Output									
PMP_STT	Bool	false	False	True	True	True	False		
OP_VLV	Bool	false	False	True	True	True	False		
CL_VLV	Bool	false	False	True	True	True	False		
PMP_FSTT	Bool	false	False	True	True	True	False		
PMP_FSTP	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
REM_STT	Bool	false	False	True	True	True	False		
AUTO_STT_ON_P	Bool	false	False	True	True	True	False		
AUTO_STT_OFF_P	Bool	false	False	True	True	True	False		
PMP_STT_TEMP	Bool	false	False	True	True	True	False		
▼ TON_DOL_PMP	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ DOL_VLV_CL_FAIL	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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Program blocks / Drainage Pumps

CM14_SP05_PILCK [DB67]

CM14_SP05_PILCK Properties

General

Name	CM14_SP05_PILCK	Number	67	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
ILCK1	Bool	false	False	True	True	True	False		
ILCK2	Bool	false	False	True	True	True	False		
ILCK3	Bool	false	False	True	True	True	False		
ILCK4	Bool	false	False	True	True	True	False		
ILCK5	Bool	false	False	True	True	True	False		
ILCK6	Bool	false	False	True	True	True	False		
ILCK7	Bool	false	False	True	True	True	False		
ILCK8	Bool	false	False	True	True	True	False		
ILCK9	Bool	false	False	True	True	True	False		
ILCK10	Bool	false	False	True	True	True	False		
ILCK11	Bool	false	False	True	True	True	False		
ILCK12	Bool	false	False	True	True	True	False		
ILCK13	Bool	false	False	True	True	True	False		
ILCK14	Bool	false	False	True	True	True	False		
ILCK15	Bool	false	False	True	True	True	False		
ILCK16	Bool	false	False	True	True	True	False		
▼ Output									
ILCK_OUT	Bool	false	False	True	True	True	False		
ILOCK_WRD	Word	16#0	False	True	True	True	False		
InOut									
▼ Static									
ILCK_T1	Bool	false	False	True	True	True	False		
ILCK_T2	Bool	false	False	True	True	True	False		

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Program blocks / Drainage Pumps

CM14_SP05_SILCK [DB68]

CM14_SP05_SILCK Properties

General

Name	CM14_SP05_SILCK	Number	68	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
ILCK1	Bool	false	False	True	True	True	False		
ILCK2	Bool	false	False	True	True	True	False		
ILCK3	Bool	false	False	True	True	True	False		
ILCK4	Bool	false	False	True	True	True	False		
ILCK5	Bool	false	False	True	True	True	False		
ILCK6	Bool	false	False	True	True	True	False		
ILCK7	Bool	false	False	True	True	True	False		
ILCK8	Bool	false	False	True	True	True	False		
ILCK9	Bool	false	False	True	True	True	False		
ILCK10	Bool	false	False	True	True	True	False		
ILCK11	Bool	false	False	True	True	True	False		
ILCK12	Bool	false	False	True	True	True	False		
ILCK13	Bool	false	False	True	True	True	False		
ILCK14	Bool	false	False	True	True	True	False		
ILCK15	Bool	false	False	True	True	True	False		
ILCK16	Bool	false	False	True	True	True	False		
▼ Output									
ILCK_OUT	Bool	false	False	True	True	True	False		
ILOCK_WRD	Word	16#0	False	True	True	True	False		
InOut									
▼ Static									
ILCK_T1	Bool	false	False	True	True	True	False		
ILCK_T2	Bool	false	False	True	True	True	False		

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Program blocks / Drainage Pumps

CM13_RH_CTRR_PH_PP_04_1 [DB79]

CM13_RH_CTRR_PH_PP_04_1 Properties

General

Name	CM13_RH_CTRR_PH_PP_04_1	Number	79	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	False	True	True	True	False		
EQ_RUN	Bool	false	False	True	True	True	False		
SAVE_ON_RUN	Bool	false	False	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	False	True	True	True	False		
RUN_MIN	UDInt	0	False	True	True	True	False		
RUN_PULSE	Bool	false	False	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
▼ CTU_RHOUR_CTU	CTU_INT		False	True	True	True	True		
CU	Bool	false	False	True	True	True	False		
CD	Bool	false	False	True	True	True	False		
R	Bool	false	False	True	True	True	False		
LD	Bool	false	False	True	True	True	False		
QU	Bool	false	False	True	True	True	False		
QD	Bool	false	False	True	True	True	False		
PV	Int	0	False	True	True	True	False		
CV	Int	0	False	True	True	True	False		
▼ TON_RHOUR	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG		False	True	True	True	True		
▼ Input									
CLK	Bool	false	False	True	True	True	False		
▼ Output									
Q	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	False	True	True	True	False		
CNT_RST	Bool	false	False	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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Program blocks / Drainage Pumps

CM13_RH_CTRR_PH_PP_03_1 [DB80]

CM13_RH_CTRR_PH_PP_03_1 Properties

General

Name	CM13_RH_CTRR_PH_PP_03_1	Number	80	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	False	True	True	True	False		
EQ_RUN	Bool	false	False	True	True	True	False		
SAVE_ON_RUN	Bool	false	False	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	False	True	True	True	False		
RUN_MIN	UDInt	0	False	True	True	True	False		
RUN_PULSE	Bool	false	False	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
▼ CTU_RHOUR_CTU	CTU_INT		False	True	True	True	True		
CU	Bool	false	False	True	True	True	False		
CD	Bool	false	False	True	True	True	False		
R	Bool	false	False	True	True	True	False		
LD	Bool	false	False	True	True	True	False		
QU	Bool	false	False	True	True	True	False		
QD	Bool	false	False	True	True	True	False		
PV	Int	0	False	True	True	True	False		
CV	Int	0	False	True	True	True	False		
▼ TON_RHOUR	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG		False	True	True	True	True		
▼ Input									
CLK	Bool	false	False	True	True	True	False		
▼ Output									
Q	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	False	True	True	True	False		
CNT_RST	Bool	false	False	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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Program blocks / Drainage Pumps

CM13_RH_CTRR_PH_PP_03 [DB132]

CM13_RH_CTRR_PH_PP_03 Properties

General

Name	CM13_RH_CTRR_PH_PP_03	Number	132	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	False	True	True	True	False		
EQ_RUN	Bool	false	False	True	True	True	False		
SAVE_ON_RUN	Bool	false	False	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	False	True	True	True	False		
RUN_MIN	UDInt	0	False	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
RUN_PULSE	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_INT		False	True	True	True	True		
CU	Bool	false	False	True	True	True	False		
CD	Bool	false	False	True	True	True	False		
R	Bool	false	False	True	True	True	False		
LD	Bool	false	False	True	True	True	False		
QU	Bool	false	False	True	True	True	False		
QD	Bool	false	False	True	True	True	False		
PV	Int	0	False	True	True	True	False		
CV	Int	0	False	True	True	True	False		
▼ TON_RHOUR	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG		False	True	True	True	True		
▼ Input									
CLK	Bool	false	False	True	True	True	False		
▼ Output									
Q	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	False	True	True	True	False		
CNT_RST	Bool	false	False	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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Program blocks / Drainage Pumps

CM13_RH_CTRR_PH_PP_04 [DB133]

CM13_RH_CTRR_PH_PP_04 Properties

General

Name	CM13_RH_CTRR_PH_PP_04	Number	133	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
SAVE_HOURS	UInt	0	False	True	True	True	False		
EQ_RUN	Bool	false	False	True	True	True	False		
SAVE_ON_RUN	Bool	false	False	True	True	True	False		
▼ Output									
RUN_HOUR	UInt	0	False	True	True	True	False		
RUN_MIN	UDInt	0	False	True	True	True	False		
▼ InOut									
RUN_MIN_R	UDInt	0	True	True	True	True	False		
▼ Static									
RUN_PULSE	Bool	false	False	True	True	True	False		
▼ CTU_RHOUR_CTU	CTU_INT		False	True	True	True	True		
CU	Bool	false	False	True	True	True	False		
CD	Bool	false	False	True	True	True	False		
R	Bool	false	False	True	True	True	False		
LD	Bool	false	False	True	True	True	False		
QU	Bool	false	False	True	True	True	False		
QD	Bool	false	False	True	True	True	False		
PV	Int	0	False	True	True	True	False		
CV	Int	0	False	True	True	True	False		
▼ TON_RHOUR	TON_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		
▼ F_TRIG_RUN_RST	F_TRIG		False	True	True	True	True		
▼ Input									
CLK	Bool	false	False	True	True	True	False		
▼ Output									
Q	Bool	false	False	True	True	True	False		
InOut									
▼ Static									
Stat_Bit	Bool	false	False	True	True	True	False		
CNT_RST	Bool	false	False	False	False	False	False		
▼ TOF_RHOUR	TOF_TIME		False	True	True	True	True		
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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Program blocks / Alanoge Convert

CM10_SCALE_DB_CTRR_PH_TE_11 [DB111]

CM10_SCALE_DB_CTRR_PH_TE_11 Properties

General

Name	CM10_SCALE_DB_CTRR_PH_TE_11	Number	111	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID	</				

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Program blocks / Alanoge Convert

CM10_SCALE_DB_CTRR_PH_TE_12 [DB112]

CM10_SCALE_DB_CTRR_PH_TE_12 Properties

General

Name	CM10_SCALE_DB_CTRR_PH_TE_12	Number	112	Type	DB	Language	DB
Number							

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Program blocks / Alanoge Convert

CM10_SCALE_DB_CTRR_PH_TE_13 [DB113]

CM10_SCALE_DB_CTRR_PH_TE_13 Properties

General

Name	CM10_SCALE_DB_CTRR_PH_TE_13	Number	113	Type	DB	Language	DB
Number							

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Program blocks / Alanoge Convert

CM10_SCALE_DB_CTRR_PH_TE_14 [DB114]

CM10_SCALE_DB_CTRR_PH_TE_14 Properties

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