

Bakule / 04_CP-L-Heat / plcHeat [CPU 1512SP F-1 PN] / Program blocks / Other blocks / CTU_Lab

Generator_W [FB1]

Generator_W Properties

General

Name	Generator_W	Number	1	Type	FB	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Generator_W

Name	Data type	Offset	Default value	Accessible from HMI/OPC UA	Writ-able from HMI/OPC UA	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
Mod	Int	0.0	0	True	True	True	False		Mode (0 Vypnuto, 1 Manual, 2 Generator)
Manualni_pozadovana	Real	2.0	0.0	True	True	True	False		Setpoint
▼ Output									
Vystup_generatoru	Real	6.0	0.0	True	True	True	False		Vystup signalu pres MUX (bit tvar signalu)
▼ InOut									
Tvar_signalu	Int	10.0	0	True	True	True	False		Tvar signalu (0 Manual, 1 Konst, 2 Sinus, 3 Obdelnik, 4 Vlastni)
Cas	Real	12.0	0.0	True	True	True	False		
▼ Static									
Vystup_konstanta	Real	16.0	0.0	True	True	True	False		Vystup signalu
Vystup_harmonicky	Real	20.0	0.0	True	True	True	False		Vystup signalu
Vystup_SimVystupu	Real	24.0	0.0	True	True	True	False		
SimVystupu_A_pamet	Real	28.0	0.0	True	True	True	False		

Name	Data type	Offset	Default value	Accessible from HMI/OPC UA	Writ-able from HMI/OPC UA	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
SimVystupu_f_pamet	Real	32.0	0.0	True	True	True	False		
SimVystupu_fi0_pamet	Real	36.0	0.0	True	True	True	False		
SimVystupu_b_pamet	Real	40.0	0.0	True	True	True	False		
SimVystupu_A	Real	44.0	0.0	True	True	True	False		
SimVystupu_f	Real	48.0	0.0	True	True	True	False		
SimVystupu_fi0	Real	52.0	0.0	True	True	True	False		
SimVystupu_b	Real	56.0	0.0	True	True	True	False		
Vystup_obdelnik	Real	60.0	0.0	True	True	True	False		Vystup signalu
Vystup_vlastni	Real	64.0	0.0	True	True	True	False		Vystup signalu
Harmonicky_A	Real	68.0	0.0	True	True	True	False		Sinusoida - amplituda
Harmonicky_A_pamet	Real	72.0	0.0	True	True	True	False		
Harmonicky_f	Real	76.0	0.0	True	True	True	False		Sinusoida - frekvence
Harmonicky_f_pamet	Real	80.0	0.0	True	True	True	False		
Harmonicky_fi0	Real	84.0	0.0	True	True	True	False		Sinusoida - fazovy posuv
Harmonicky_fi0_pamet	Real	88.0	0.0	True	True	True	False		
Harmonicky_b	Real	92.0	0.0	True	True	True	False		Sinusoida - offset
Harmonicky_b_pamet	Real	96.0	0.0	True	True	True	False		
Konstanta_b	Real	100.0	0.0	True	True	True	False		Konstanta - offset
Konstanta_b_pamet	Real	104.0	0.0	True	True	True	False		
Obdelnik_b	Real	108.0	0.0	True	True	True	False		Obdelnik - offset
Obdelnik_b_pamet	Real	112.0	0.0	True	True	True	False		
Obdelnik_A	Real	116.0	0.0	True	True	True	False		Obdelnik - amplituda
Obdelnik_A_pamet	Real	120.0	0.0	True	True	True	False		
Obdelnik_T	Real	124.0	0.0	True	True	True	False		Obdelnik - perioda
Obdelnik_T_pamet	Real	128.0	0.0	True	True	True	False		
Aktivni_pole	Int	132.0	0	True	True	True	False		
Suma_poli	Int	134.0	0	True	True	True	False		
FP_sub	Bool	136.0	false	True	True	True	False		
AbsHodnotaRozdilu	Real	138.0	0.0	True	True	True	False		
ZmenaPole	Bool	142.0	false	True	True	True	False		

Name	Data type	Offset	Default value	Accessible from HMI/OPC UA	Writ-able from HMI/OPC UA	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
PrepsatPamet	Bool	142.1	false	True	True	True	False		
Teplota_A_Real	Real	144.0	0.0	True	True	True	False		
Teplota_B_Real	Real	148.0	0.0	True	True	True	False		
HodnotaRustu	Real	152.0	0.0	True	True	True	False		
VzorkovaciPerioda	DInt	156.0	0	True	True	True	False		
Pole	Int	160.0	1	True	True	True	False		
SumaPoliPamet	Int	162.0	0	True	True	True	False		
NabeznaHrana2	Bool	164.0	false	True	True	True	False		
NabeznaHrana1	Bool	164.1	false	True	True	True	False		
▼ VlastniHodnoty	Array[0..9] of "Pole"	166.0		True	True	True	False		
▼ VlastniHodnoty[0]	"Pole"	166.0		True	True	True	False		
Hodnota_teploty_A	DInt	166.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	170.0	0	True	True	True	False		
Hodnota_casu_t	DInt	174.0	0	True	True	True	False		
▼ VlastniHodnoty[1]	"Pole"	178.0		True	True	True	False		
Hodnota_teploty_A	DInt	178.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	182.0	0	True	True	True	False		
Hodnota_casu_t	DInt	186.0	0	True	True	True	False		
▼ VlastniHodnoty[2]	"Pole"	190.0		True	True	True	False		
Hodnota_teploty_A	DInt	190.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	194.0	0	True	True	True	False		
Hodnota_casu_t	DInt	198.0	0	True	True	True	False		
▼ VlastniHodnoty[3]	"Pole"	202.0		True	True	True	False		
Hodnota_teploty_A	DInt	202.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	206.0	0	True	True	True	False		
Hodnota_casu_t	DInt	210.0	0	True	True	True	False		
▼ VlastniHodnoty[4]	"Pole"	214.0		True	True	True	False		
Hodnota_teploty_A	DInt	214.0	0	True	True	True	False		

Name	Data type	Offset	Default value	Accessible from HMI/OPC UA	Writ-able from HMI/OPC UA	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
Hodnota_teploty_B	DInt	218.0	0	True	True	True	False		
Hodnota_casu_t	DInt	222.0	0	True	True	True	False		
▼ VlastniHodnoty[5]	"Pole"	226.0		True	True	True	False		
Hodnota_teploty_A	DInt	226.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	230.0	0	True	True	True	False		
Hodnota_casu_t	DInt	234.0	0	True	True	True	False		
▼ VlastniHodnoty[6]	"Pole"	238.0		True	True	True	False		
Hodnota_teploty_A	DInt	238.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	242.0	0	True	True	True	False		
Hodnota_casu_t	DInt	246.0	0	True	True	True	False		
▼ VlastniHodnoty[7]	"Pole"	250.0		True	True	True	False		
Hodnota_teploty_A	DInt	250.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	254.0	0	True	True	True	False		
Hodnota_casu_t	DInt	258.0	0	True	True	True	False		
▼ VlastniHodnoty[8]	"Pole"	262.0		True	True	True	False		
Hodnota_teploty_A	DInt	262.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	266.0	0	True	True	True	False		
Hodnota_casu_t	DInt	270.0	0	True	True	True	False		
▼ VlastniHodnoty[9]	"Pole"	274.0		True	True	True	False		
Hodnota_teploty_A	DInt	274.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	278.0	0	True	True	True	False		
Hodnota_casu_t	DInt	282.0	0	True	True	True	False		
▼ HodnotyJezdca	"Pole"	286.0		True	True	True	True		
Hodnota_teploty_A	DInt	286.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	290.0	0	True	True	True	False		
Hodnota_casu_t	DInt	294.0	0	True	True	True	False		
▼ VlastniHodnotyPamet	Array[0..9] of "Pole"	298.0		True	True	True	True		

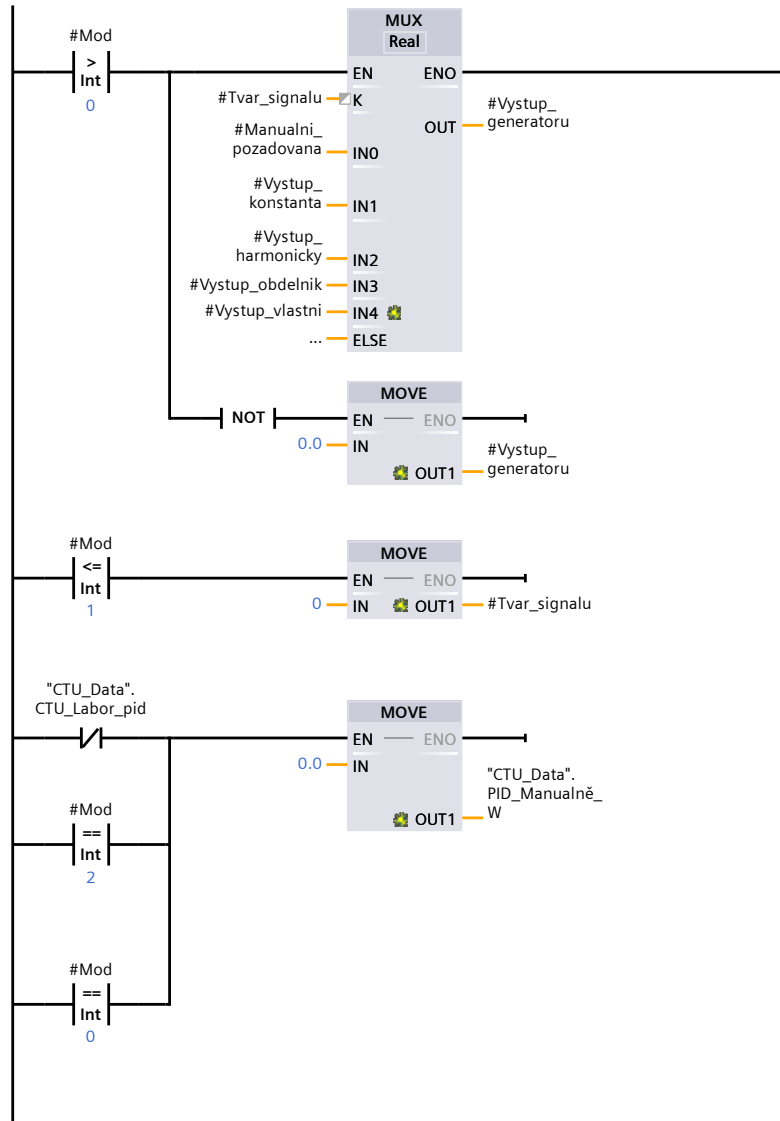
Name	Data type	Offset	Default value	Accessible from HMI/OPC UA	Writable from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervision	Comment
▼ VlastniHodnotyPamet[0]	"Pole"	298.0		True	True	True	True		
Hodnota_teploty_A	DInt	298.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	302.0	0	True	True	True	False		
Hodnota_casu_t	DInt	306.0	0	True	True	True	False		
▼ VlastniHodnotyPamet[1]	"Pole"	310.0		True	True	True	True		
Hodnota_teploty_A	DInt	310.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	314.0	0	True	True	True	False		
Hodnota_casu_t	DInt	318.0	0	True	True	True	False		
▼ VlastniHodnotyPamet[2]	"Pole"	322.0		True	True	True	True		
Hodnota_teploty_A	DInt	322.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	326.0	0	True	True	True	False		
Hodnota_casu_t	DInt	330.0	0	True	True	True	False		
▼ VlastniHodnotyPamet[3]	"Pole"	334.0		True	True	True	True		
Hodnota_teploty_A	DInt	334.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	338.0	0	True	True	True	False		
Hodnota_casu_t	DInt	342.0	0	True	True	True	False		
▼ VlastniHodnotyPamet[4]	"Pole"	346.0		True	True	True	True		
Hodnota_teploty_A	DInt	346.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	350.0	0	True	True	True	False		
Hodnota_casu_t	DInt	354.0	0	True	True	True	False		
▼ VlastniHodnotyPamet[5]	"Pole"	358.0		True	True	True	True		
Hodnota_teploty_A	DInt	358.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	362.0	0	True	True	True	False		
Hodnota_casu_t	DInt	366.0	0	True	True	True	False		
▼ VlastniHodnotyPamet[6]	"Pole"	370.0		True	True	True	True		
Hodnota_teploty_A	DInt	370.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	374.0	0	True	True	True	False		
Hodnota_casu_t	DInt	378.0	0	True	True	True	False		

Name	Data type	Offset	Default value	Accessible from HMI/OPC UA	Writ-able from HMI/OPC UA	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ VlastniHodnotyPamet[7]	"Pole"	382.0		True	True	True	True		
Hodnota_teploty_A	DInt	382.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	386.0	0	True	True	True	False		
Hodnota_casu_t	DInt	390.0	0	True	True	True	False		
▼ VlastniHodnotyPamet[8]	"Pole"	394.0		True	True	True	True		
Hodnota_teploty_A	DInt	394.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	398.0	0	True	True	True	False		
Hodnota_casu_t	DInt	402.0	0	True	True	True	False		
▼ VlastniHodnotyPamet[9]	"Pole"	406.0		True	True	True	True		
Hodnota_teploty_A	DInt	406.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	410.0	0	True	True	True	False		
Hodnota_casu_t	DInt	414.0	0	True	True	True	False		
▼ VypocetniHodnota	"Pole"	418.0		True	True	True	True		
Hodnota_teploty_A	DInt	418.0	0	True	True	True	False		
Hodnota_teploty_B	DInt	422.0	0	True	True	True	False		
Hodnota_casu_t	DInt	426.0	0	True	True	True	False		
SimulatorVystupu	Bool	430.0	false	True	True	True	False		
SimulatorVystupuStart	Bool	430.1	false	True	True	True	False		
SimulatorVystupuPrepsat	Bool	430.2	false	True	True	True	False		
DelkaPeriody	DInt	432.0	0	True	True	True	False		
▼ Temp									
ObdelnikPulPeriody	Real	0.0							
RozdilTeplot	Real	4.0							
Constant									

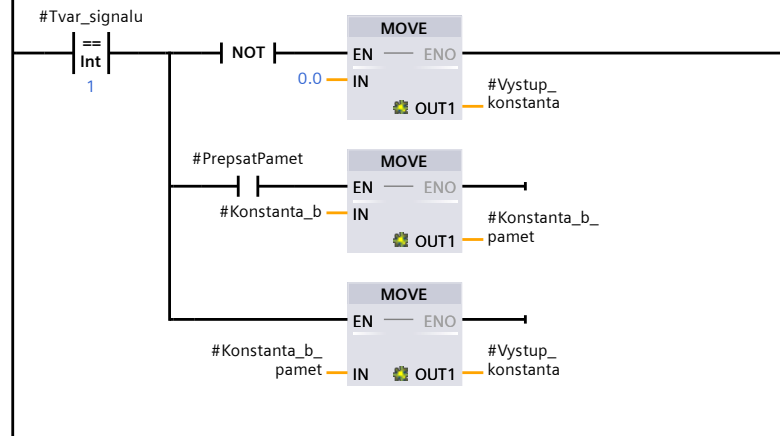
Network 1: Volba mezi signály

Mode (0 Vypnuto, 1 Manual, 2 Generator)

Tvar signalu (0 Manual, 1 Konst, 2 Sinus, 3 Obdelnik, 4 Vlastni)

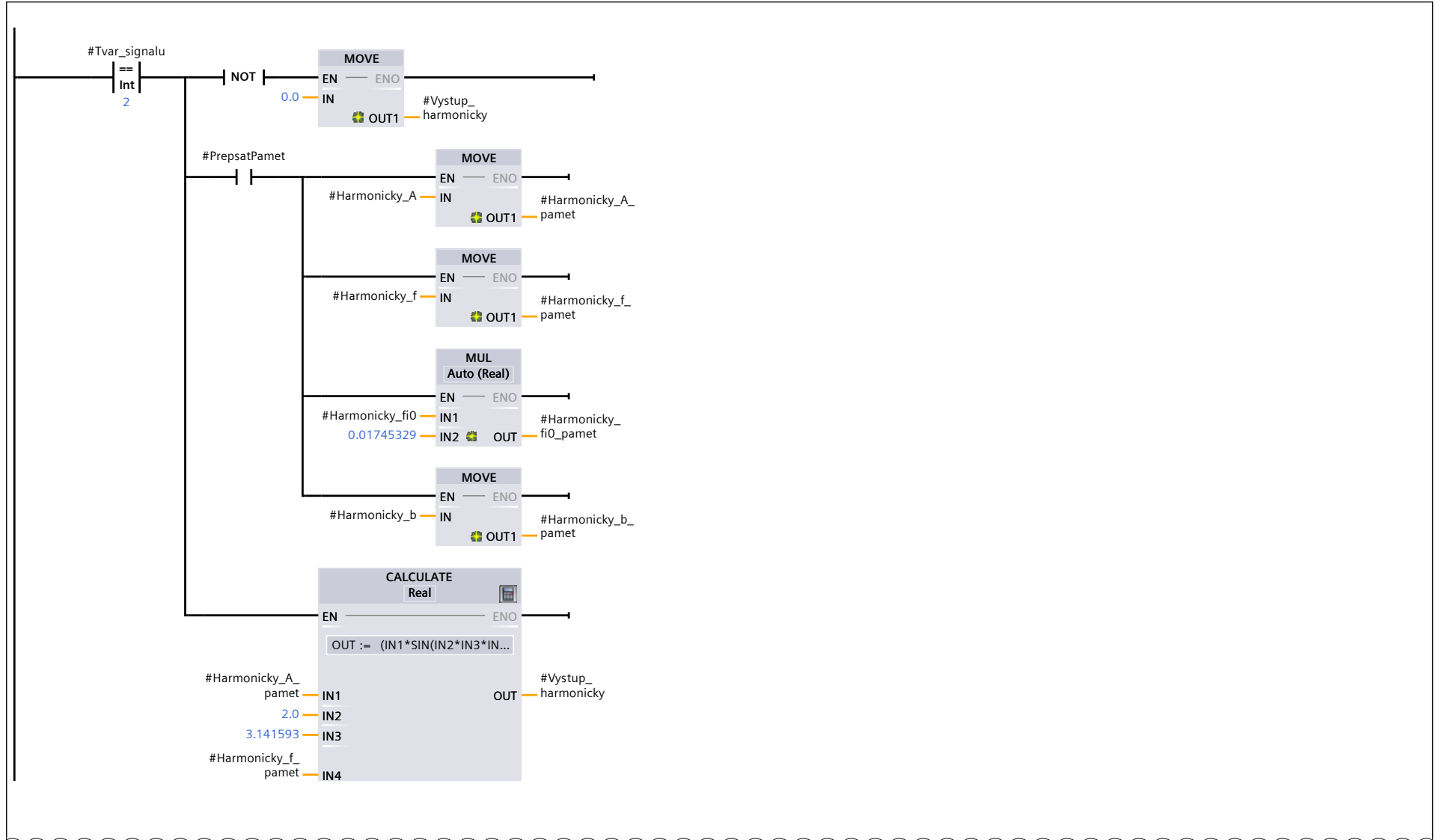


Network 2: 1- Constant



Network 3: 2 - Harm

Network 3: 2 - Harm (1.1 / 2.1)



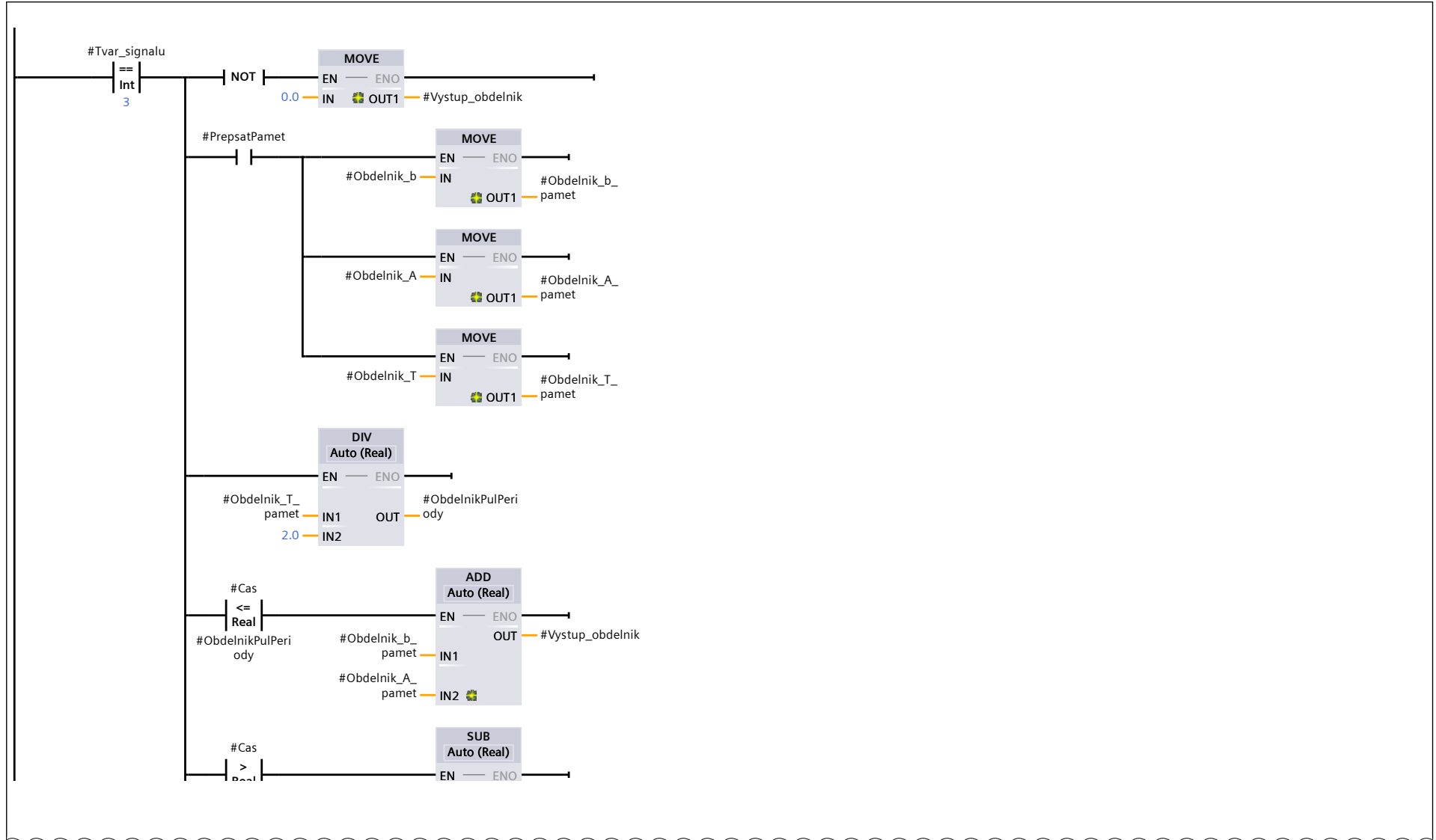
Network 3: 2 - Harm (2.1 / 2.1)

1.1 (Page1 - 9)

#Cas — IN5
#Harmonicky_
fi0_pamet — IN6
#Harmonicky_b_
pamet — IN7 🚧

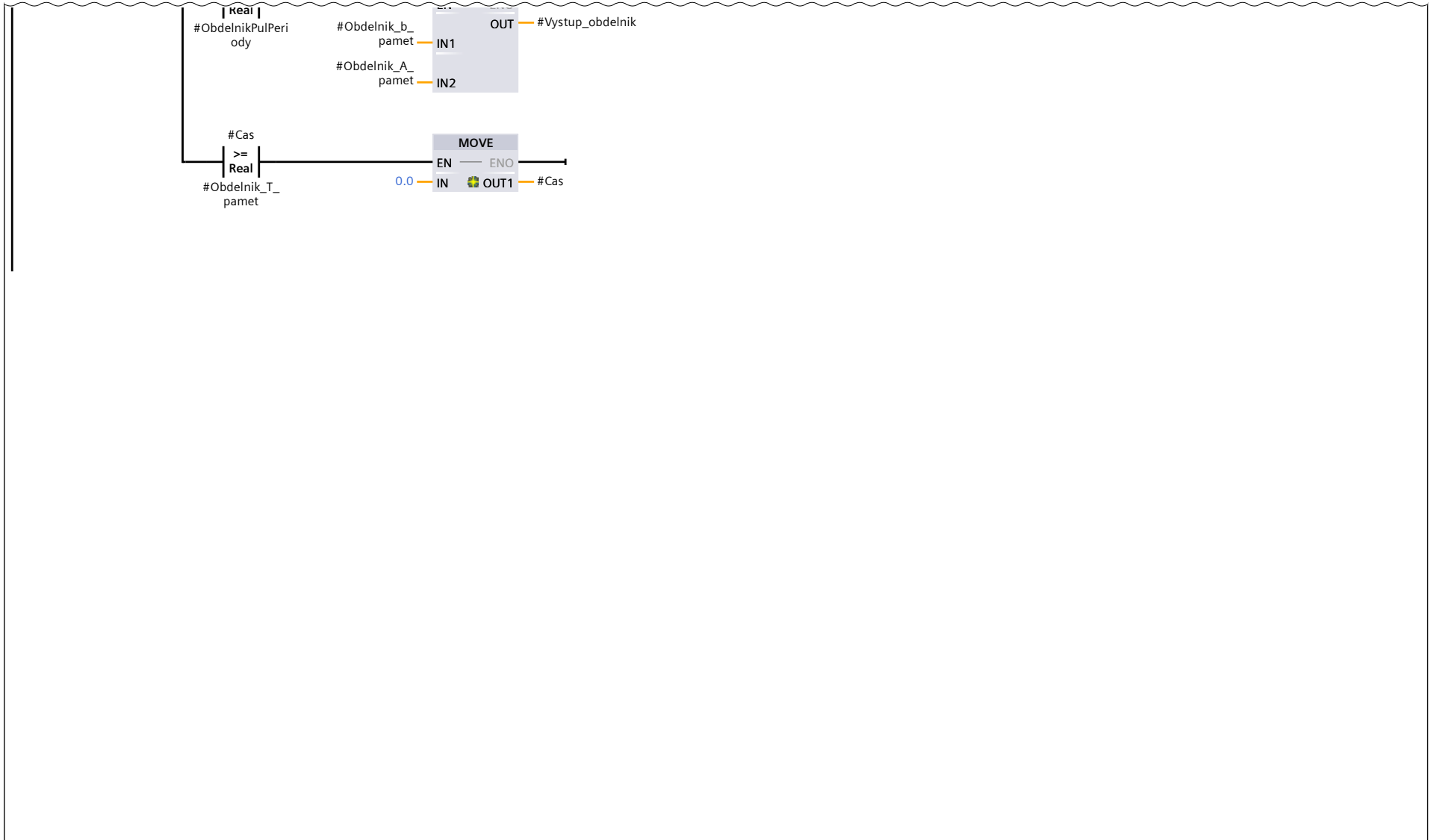
Network 4: 3 - Rectangle

Network 4: 3 - Rectangle (1.1 / 2.1)



Network 4: 3 - Rectangle (2.1 / 2.1)

1.1 (Page1 - 12)



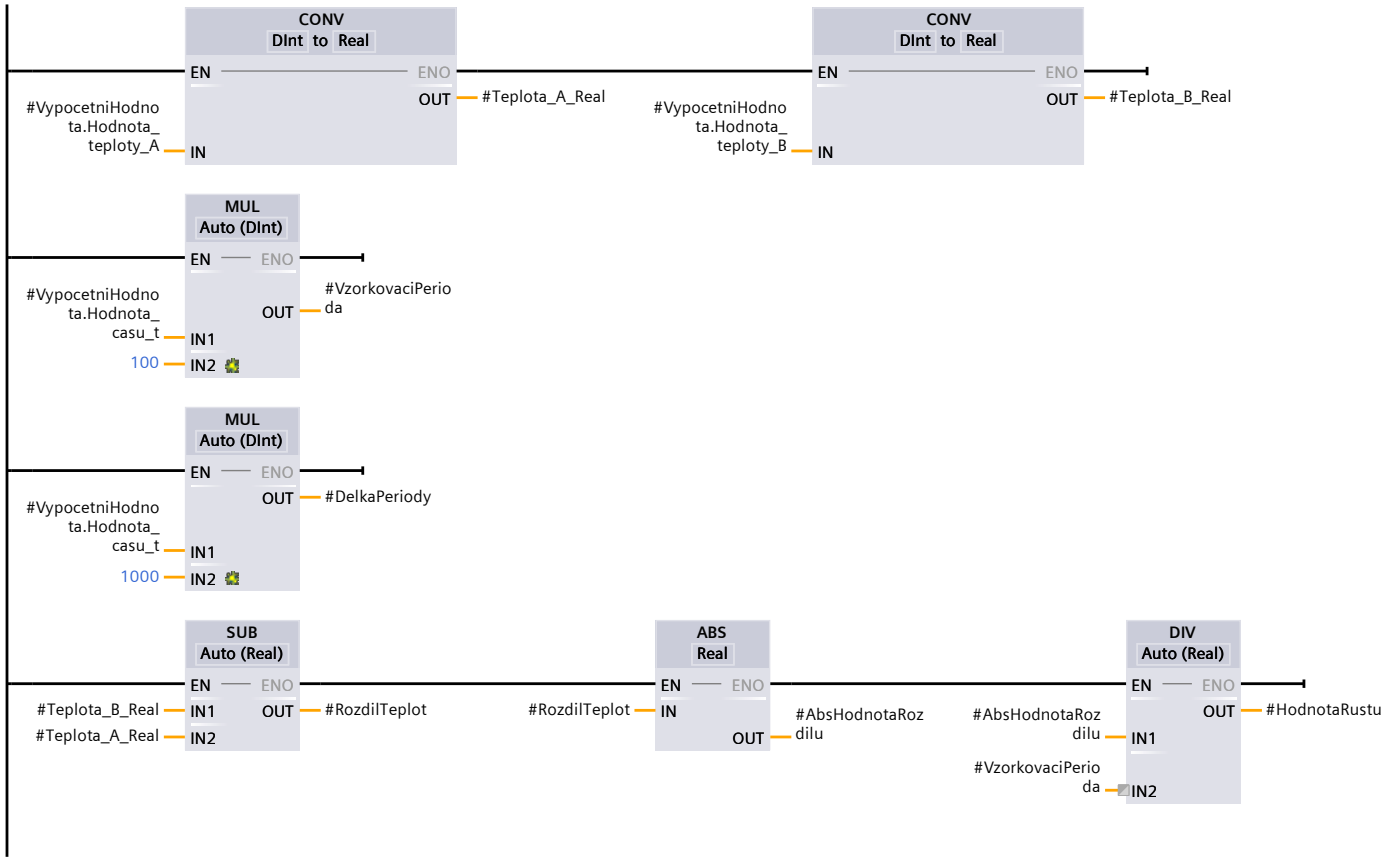
Network 5: HarmSim

```
0001 IF #SimulatorVystupu=TRUE AND #SimulatorVystupuStart = true THEN
0002     #Vystup_SimVystupu := (#SimVystupu_A*SIN_REAL(2*3.141593*#SimVystupu_f*#Cas
0003         + (#SimVystupu_fi0*0.01745329))+#SimVystupu_b);
0004 ELSE
0005     #Vystup_SimVystupu := 0.0;
0006     #SimulatorVystupuStart := FALSE;
0007 END_IF;
0008
```

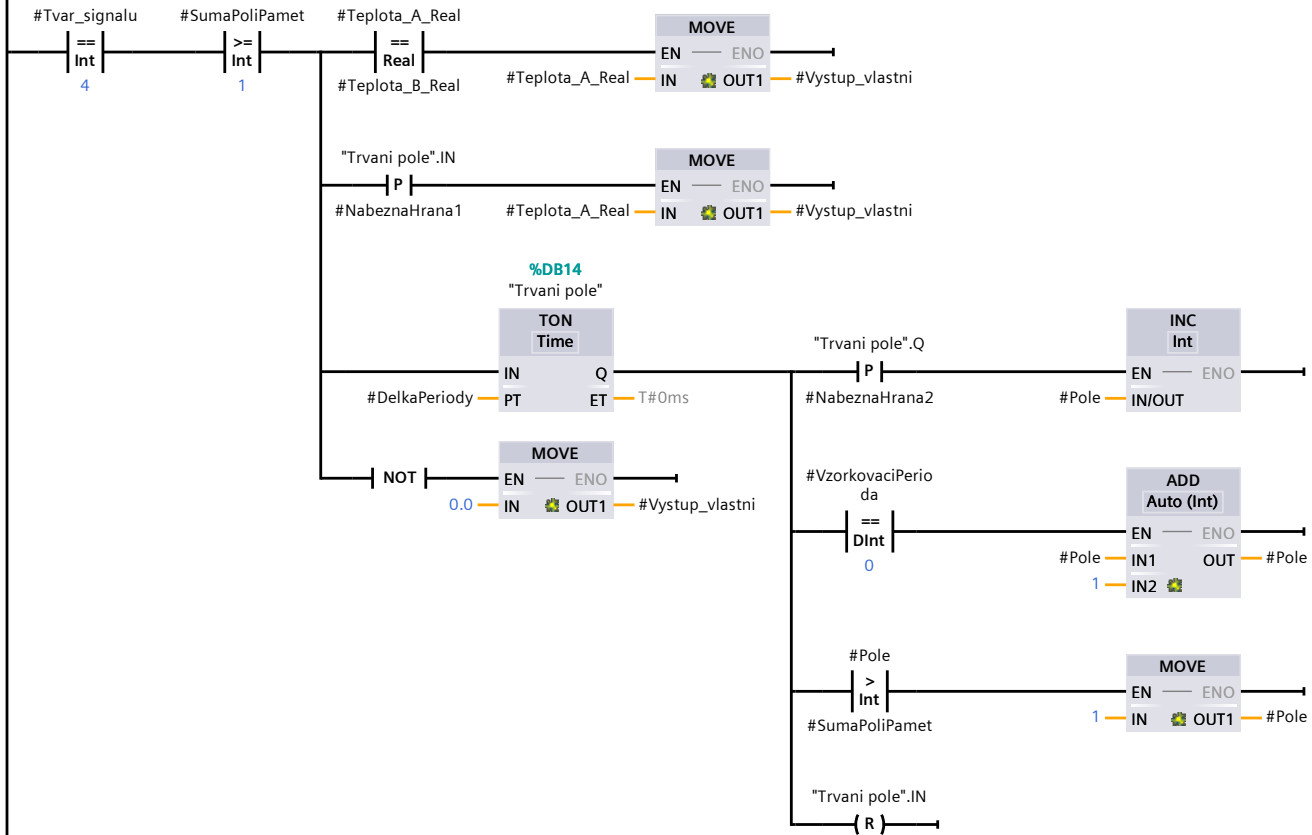
Network 6:

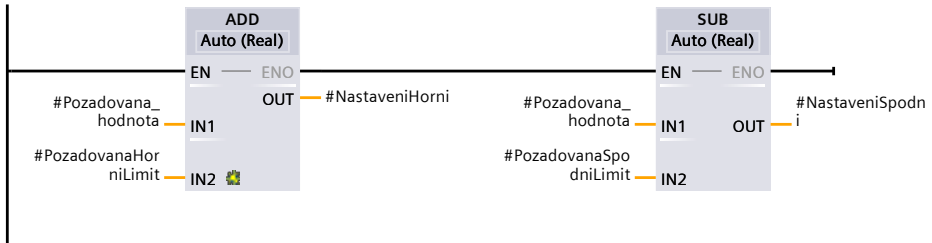
```
0001
0002 IF #ZmenaPole = FALSE THEN
0003     #VlastniHodnoty[#Aktivni_pole]:= #HodnotyJezdcu;
0004 ELSE
0005     #HodnotyJezdcu := #VlastniHodnoty[#Aktivni_pole];
0006 END_IF;
0007
0008 IF #Tvar_signalu = 4 AND #PrepsatPamet = TRUE THEN
0009     #VlastniHodnotyPamet := #VlastniHodnoty;
0010     #SumaPoliPamet := #Suma_poli;
0011 END_IF;
0012 #VypocetniHodnota := #VlastniHodnotyPamet[#Pole];
```

Network 7: Preparing parameters for generator



Network 8: Step 2 - Generator





Bakule / 04_CP-L-Heat / plcHeat [CPU 1512SP F-1 PN] / Program blocks / Other blocks / CTU_Lab

VykreslovaniKrivky [FB3]

VykreslovaniKrivky Properties

General

Name	VykreslovaniKrivky	Number	3	Type	FB	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

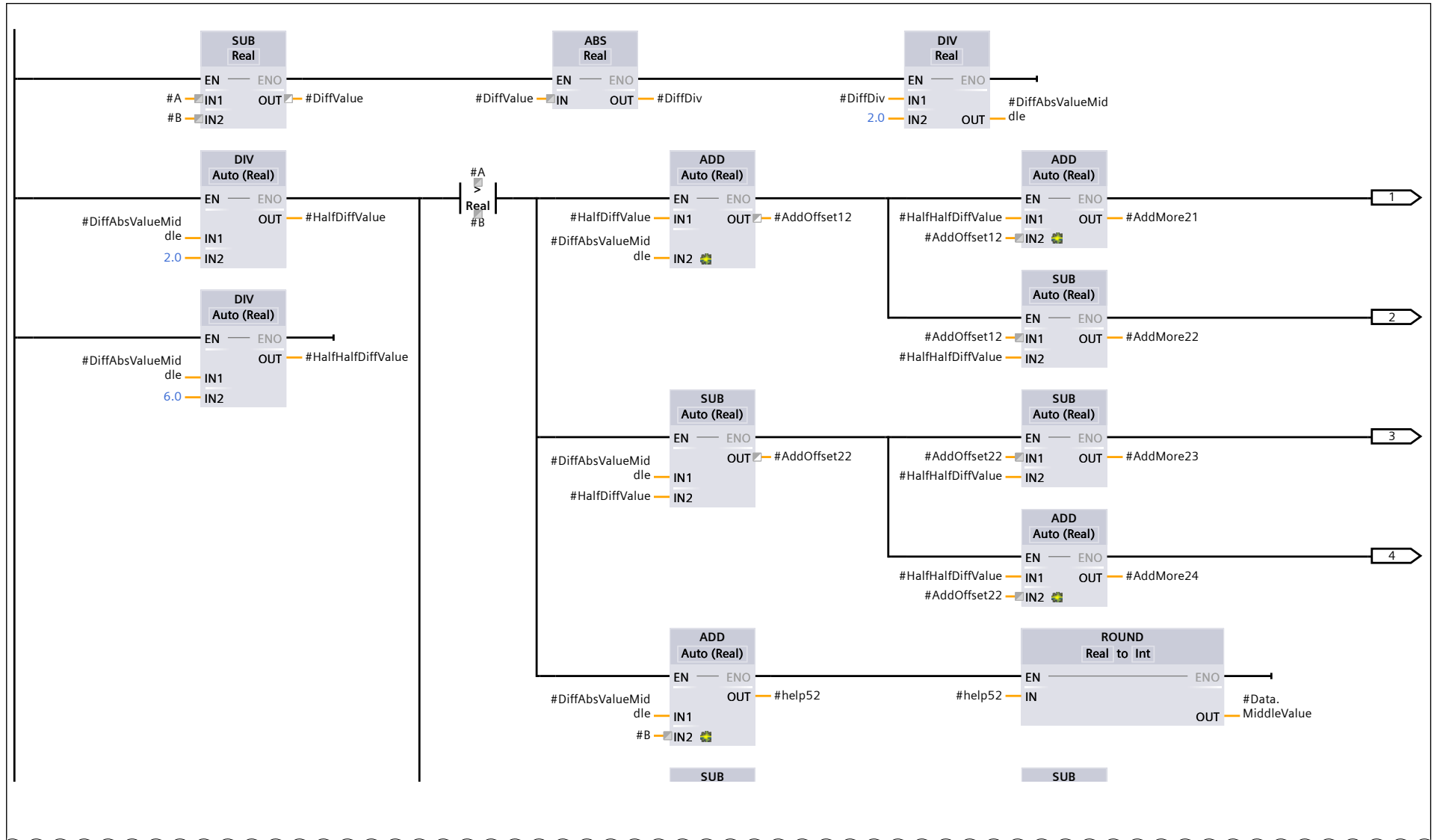
VykreslovaniKrivky

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writ-able from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervi-sion	Comment
▼ Input									
A	DInt	0	Non-retain	True	True	True	False		
B	DInt	0	Non-retain	True	True	True	False		
▼ Output									
▼ Data	"BodyKrivky"		Non-retain	True	True	True	False		
LeftLeftValue	Int	0	Non-retain	True	True	True	False		
LeftRightValue	Int	0	Non-retain	True	True	True	False		
RightRightValue	Int	0	Non-retain	True	True	True	False		
RightLeftValue	Int	0	Non-retain	True	True	True	False		
MiddleValue	Int	0	Non-retain	True	True	True	False		
InOut									
▼ Static									
DiffAbsValueMiddle	Real	0.0	Non-retain	True	True	True	False		
DiffDiv	Real	0.0	Non-retain	True	True	True	False		
HalfDiffValue	Real	0.0	Non-retain	True	True	True	False		
HalfHalfDiffValue	Real	0.0	Non-retain	True	True	True	False		

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writ-able from HMI/OPC UA	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
AddMore21	Real	0.0	Non-retain	True	True	True	False		
AddMore22	Real	0.0	Non-retain	True	True	True	False		
AddMore23	Real	0.0	Non-retain	True	True	True	False		
AddMore24	Real	0.0	Non-retain	True	True	True	False		
▼ Temp									
DiffValue	Int								
AddOffset12	Int								
AddOffset22	Int								
help12	Real								
help52	Real								
help42	Real								
help32	Real								
help22	Real								
Constant									

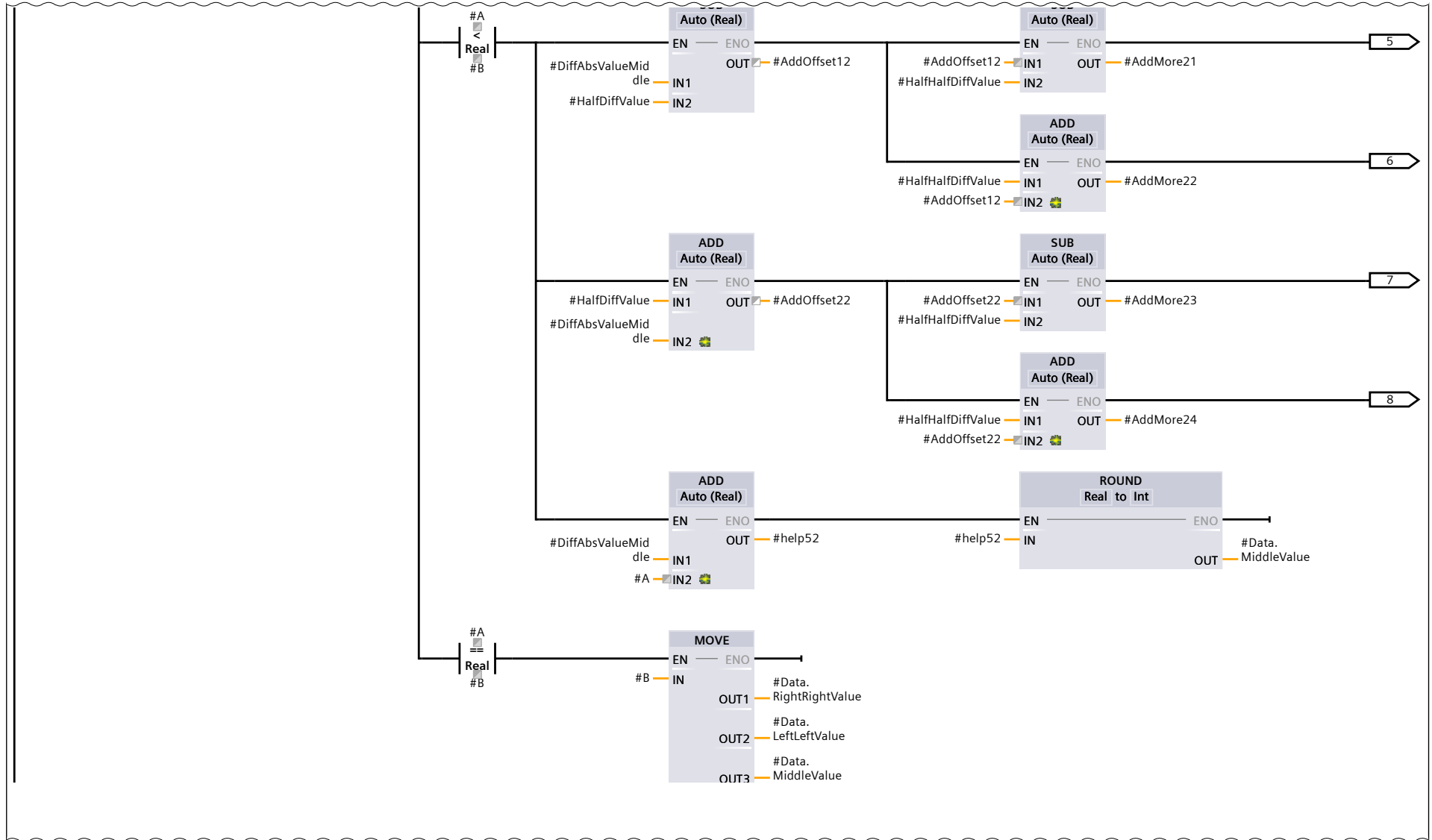
Network 1: Pole1

Network 1: Pole1 (1.1 / 4.1)



Network 1: Pole1 (2.1 / 4.1)

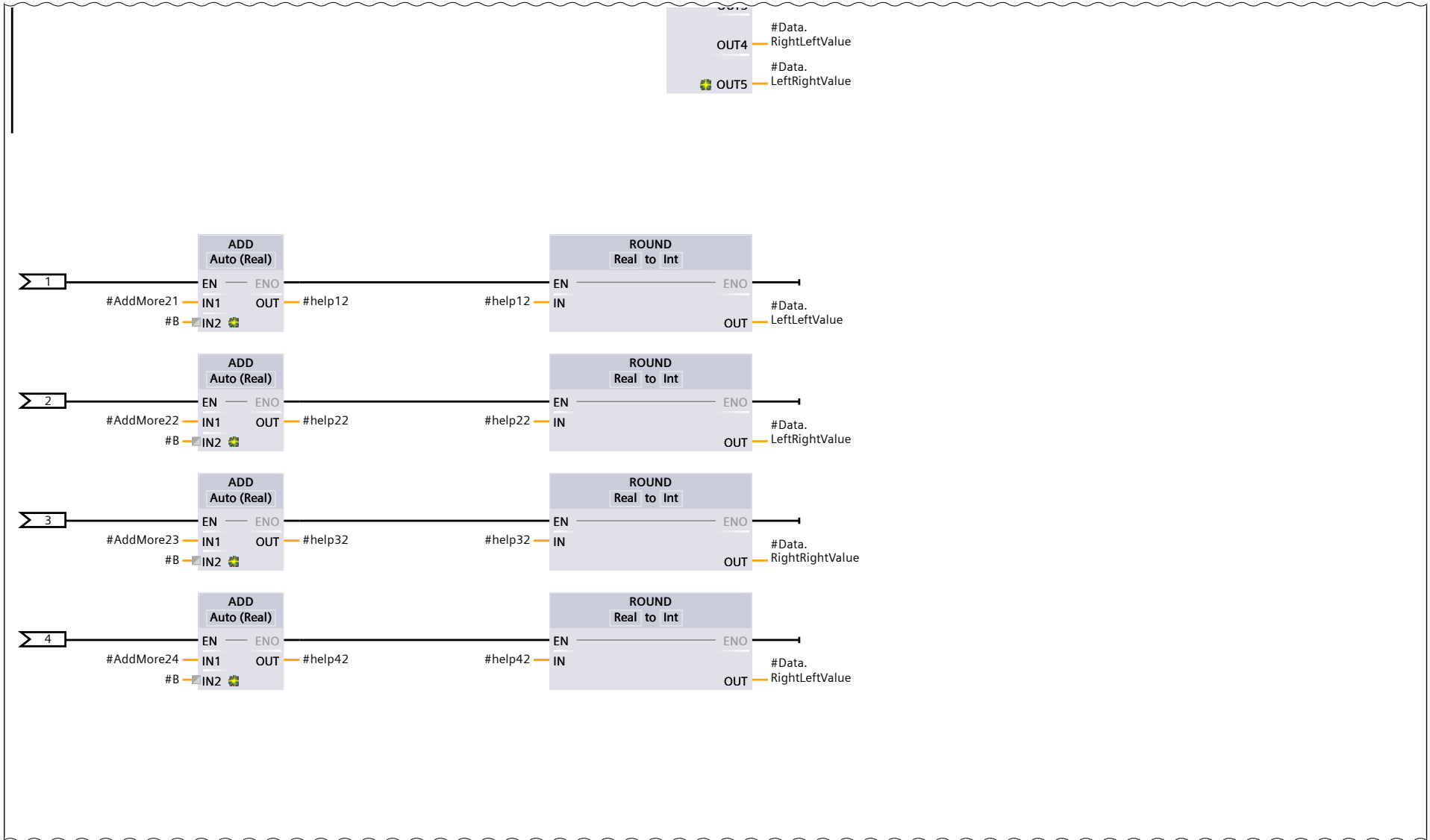
1.1 (Page1 - 3)



3.1 (Page1 - 5)

Network 1: Pole1 (3.1 / 4.1)

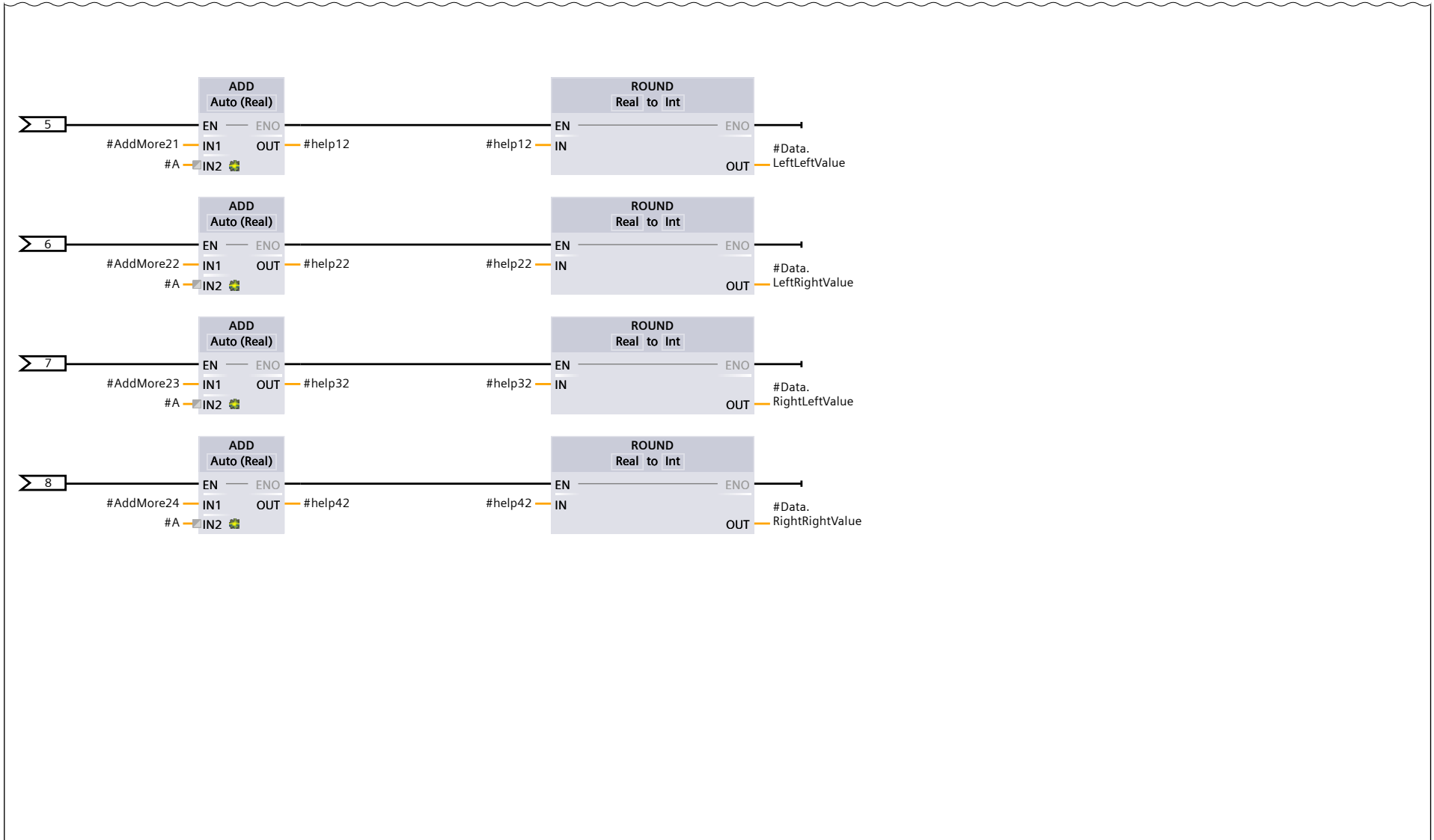
2.1 (Page1 - 4)



4.1 (Page1 - 6)

Network 1: Pole1 (4.1 / 4.1)

3.1 (Page1 - 5)



Bakule / 04_CP-L-Heat / plcHeat [CPU 1512SP F-1 PN] / Program blocks / Other blocks / CTU_Lab

Doplňkove_funkce [FB4]

Doplňkove_funkce Properties

General

Name	Doplňkove_funkce	Number	4	Type	FB	Language	LAD
Numbering	Automatic						

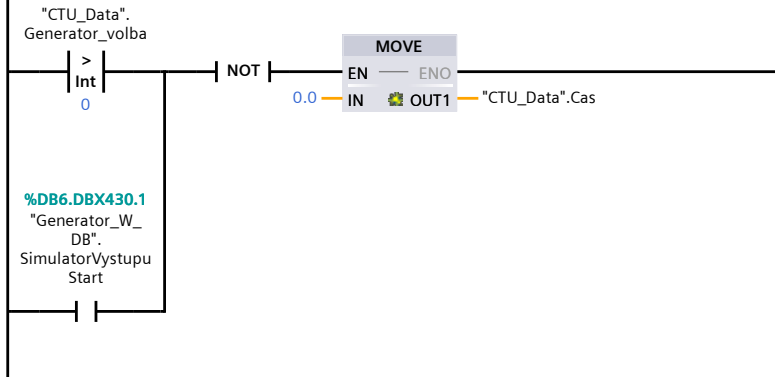
Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

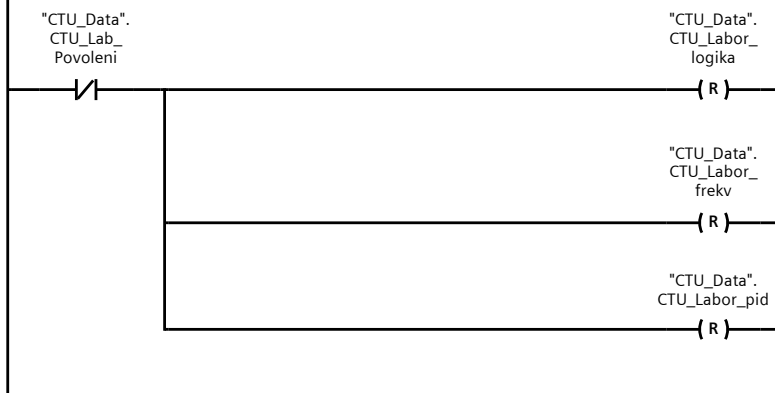
Doplňkove_funkce

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA	Writ-able from HMI/OPC UA	Visible in HMI engineering	Setpoint	Supervi-sion	Comment
Input									
Output									
InOut									
▼ Static									
Potentiometr	Real	0.0	Non-retain	True	True	True	False		
Potentiometr2	Real	0.0	Non-retain	True	True	True	False		
Potentiometr3	Real	0.0	Non-retain	True	True	True	False		
Prepocet	Real	0.0	Non-retain	True	True	True	False		
Temp									
Constant									

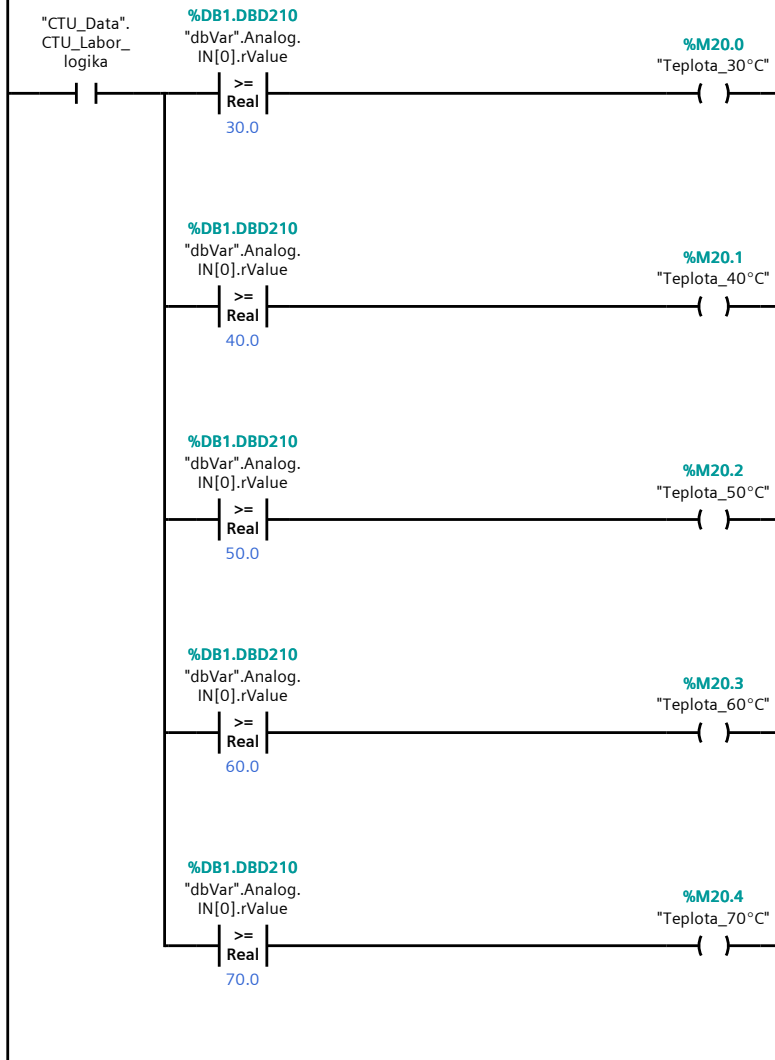
Network 1: Cas pro Generator



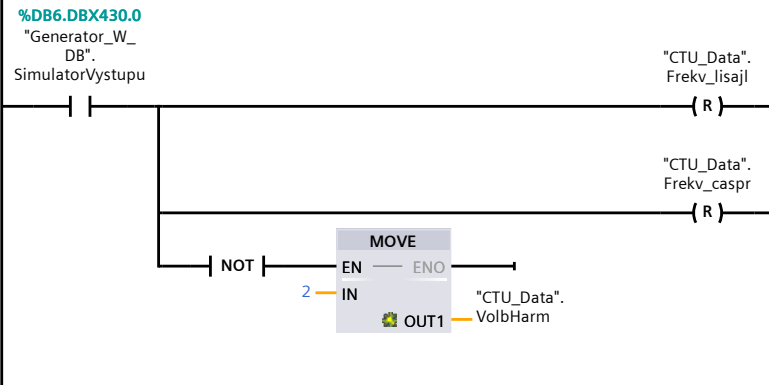
Network 2: Aktivni laboratorni cviceni



Network 3: Merkery pro hranici teploty (uloha logicka rizeni)



Network 4: Frekvencni charakteristiky - simulace (spousteni obrazovek)



Network 5: PID Zaloha - Ulozit/Nahrat

```

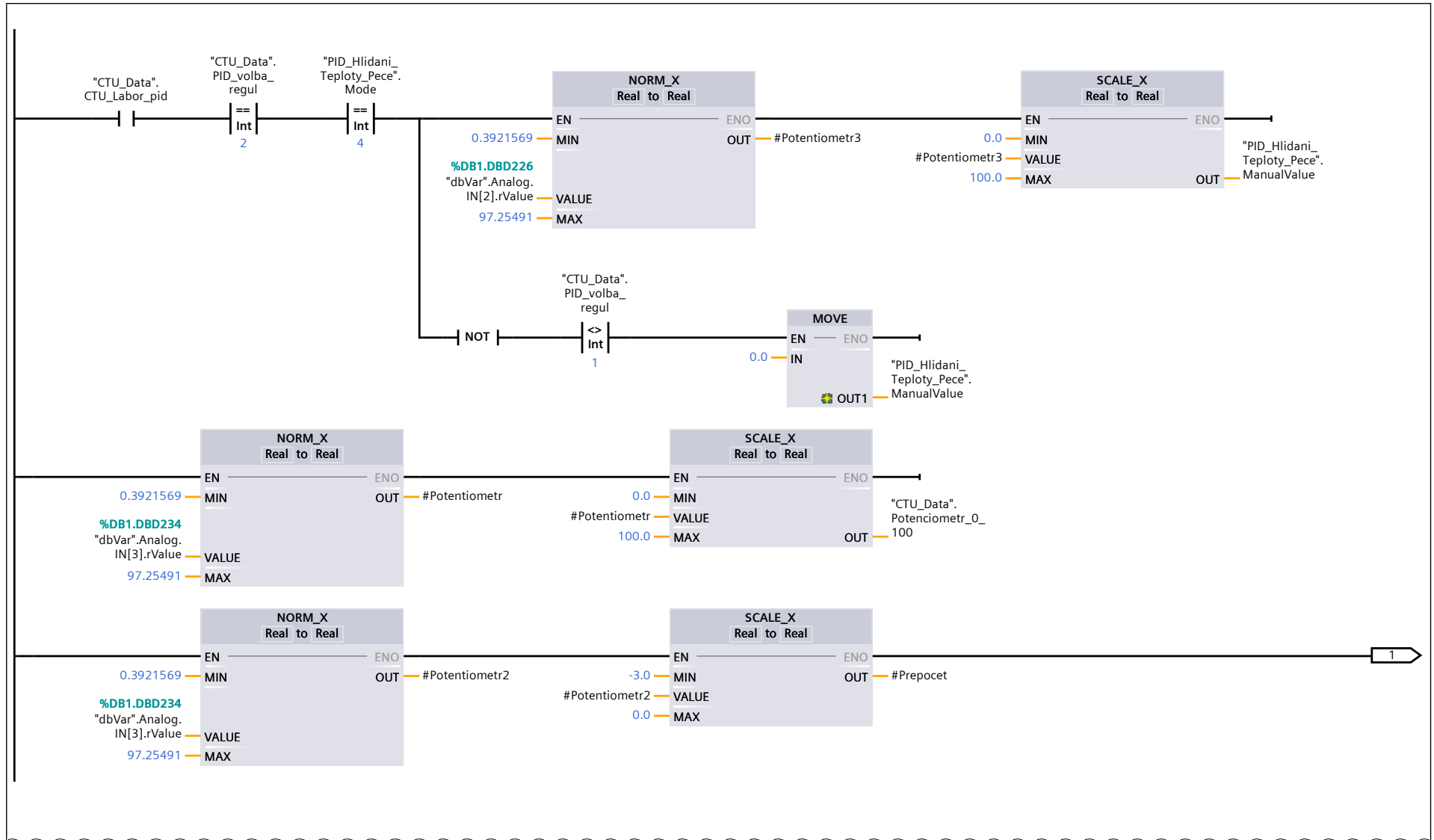
0001 IF "CTU_Data".PID_zaloha_ulozit = TRUE THEN
0002     "CTU_Data".PID_Zaloha.Gain := "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.Gain;
0003     "CTU_Data".PID_Zaloha.Ti := "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.Ti;
0004     "CTU_Data".PID_Zaloha.Td := "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.Td;
0005     "CTU_Data".PID_Zaloha.PWeight := "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.PWeighting;
0006     "CTU_Data".PID_Zaloha.DWeight := "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.DWeighting;
0007     "CTU_Data".PID_Zaloha.DDelay := "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.TdFiltRatio;
0008     "CTU_Data".PID_Zaloha.Zadana_W_Max := "PID_Hlidani_Teploty_Pece".Config.SetpointUpperLimit;
0009     "CTU_Data".PID_Zaloha.Zadana_W_Min := "PID_Hlidani_Teploty_Pece".Config.SetpointLowerLimit;
0010     "CTU_Data".PID_Zaloha.Akzni_U_Max := "PID_Hlidani_Teploty_Pece".Config.OutputUpperLimit;
0011     "CTU_Data".PID_Zaloha.Akzni_U_Min := "PID_Hlidani_Teploty_Pece".Config.OutputLowerLimit;
0012     "CTU_Data".PID_Zaloha.Regulovana_Y_Max := "PID_Hlidani_Teploty_Pece".Config.InputUpperLimit;
0013     "CTU_Data".PID_Zaloha.Regulovana_Y_Min := "PID_Hlidani_Teploty_Pece".Config.InputLowerLimit;
0014     "CTU_Data".PID_Zaloha.PWM_MIN_ONTIME := "PID_Hlidani_Teploty_Pece".Config.MinimumOnTime;
0015     "CTU_Data".PID_Zaloha.PWM_MIN_OFFTIME := "PID_Hlidani_Teploty_Pece".Config.MinimumOffTime;
0016     "CTU_Data".PID_Zaloha.Vzorokovani_PID := "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.Cycle;
0017 END_IF;
0018 IF "CTU_Data".PID_zaloha_nahrat = TRUE OR "xFirstScan" = TRUE THEN
0019     "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.Gain := "CTU_Data".PID_Zaloha.Gain;
0020     "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.Ti := "CTU_Data".PID_Zaloha.Ti;
0021     "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.Td := "CTU_Data".PID_Zaloha.Td;

```

```
0022 "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.PWeighting := "CTU_Data".PID_Zaloha.PWeight;  
0023 "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.DWeighting := "CTU_Data".PID_Zaloha.DWeight;  
0024 "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.TdFiltRatio := "CTU_Data".PID_Zaloha.DDelay;  
0025 "PID_Hlidani_Teploty_Pece".Config.SetpointUpperLimit := "CTU_Data".PID_Zaloha.Zadana_W_Max;  
0026 "PID_Hlidani_Teploty_Pece".Config.SetpointLowerLimit := "CTU_Data".PID_Zaloha.Zadana_W_Min;  
0027 "PID_Hlidani_Teploty_Pece".Config.OutputUpperLimit := "CTU_Data".PID_Zaloha.Akcni_U_Max;  
0028 "PID_Hlidani_Teploty_Pece".Config.OutputLowerLimit := "CTU_Data".PID_Zaloha.Akcni_U_Min;  
0029 "PID_Hlidani_Teploty_Pece".Config.InputUpperLimit := "CTU_Data".PID_Zaloha.Regulovana_Y_Max;  
0030 "PID_Hlidani_Teploty_Pece".Config.InputLowerLimit := "CTU_Data".PID_Zaloha.Regulovana_Y_Min;  
0031 "PID_Hlidani_Teploty_Pece".Config.MinimumOnTime := "CTU_Data".PID_Zaloha.PWM_MIN_ONTIME;  
0032 "PID_Hlidani_Teploty_Pece".Config.MinimumOffTime := "CTU_Data".PID_Zaloha.PWM_MIN_OFFTIME;  
0033 "PID_Hlidani_Teploty_Pece".Retain.CtrlParams.Cycle := "CTU_Data".PID_Zaloha.Vzorokovani_PID;  
0034 END_IF;  
0035  
0036
```

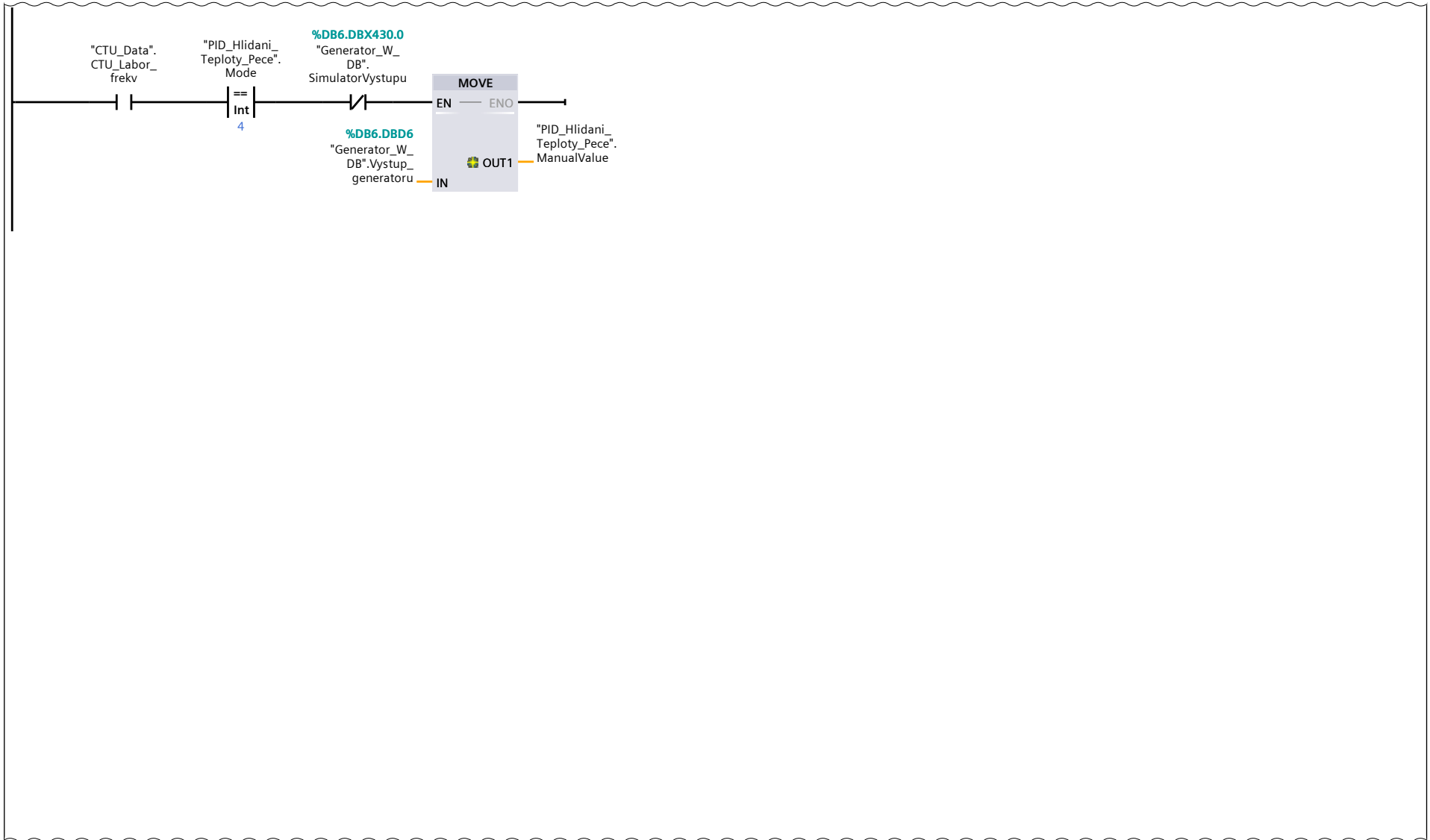
Network 6: Nastaveni analogu - Potenciometry

Network 6: Nastaveni analogu - Potenciometry (1.1 / 3.1)



Network 6: Nastaveni analogu - Potenciometry (2.1 / 3.1)

1.1 (Page1 - 6)



3.1 (Page1 - 8)

Network 6: Nastaveni analogu - Potenciometry (3.1 / 3.1)

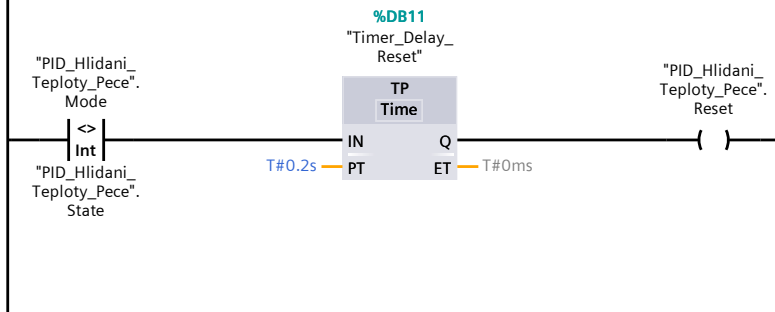
2.1 (Page1 - 7)



Network 7: Ladení u,w pomocí potenciometru

```
0001 IF "CTU_Data".Frekv_ladeni_enable = TRUE AND "CTU_Data".Frekv_ladeni_poten = 0 AND "CTU_Data".PID_volba_w=1 THEN
0002     "CTU_Data".PID_Manualně_W:= "CTU_Data".Potenciometr_0_100;
0003 END_IF;
0004
0005 IF "CTU_Data".Frekv_ladeni_enable = TRUE AND "CTU_Data".Frekv_ladeni_poten = 1 AND "CTU_Data".PID_volba_w=2 THEN
0006     "Generator_W_DB".Harmonicky_A_pamet :="CTU_Data".Potenciometr_0_100;
0007     "Generator_W_DB".Konstanta_b_pamet :="CTU_Data".Potenciometr_0_100;
0008     "Generator_W_DB".Obdelnik_b_pamet :="CTU_Data".Potenciometr_0_100;
0009     END_IF;
0010
0011     IF "CTU_Data".Frekv_ladeni_enable = TRUE AND "CTU_Data".Frekv_ladeni_poten = 2 AND "CTU_Data".PID_volba_w=2 THEN
0012         "Generator_W_DB".Harmonicky_b_pamet :="CTU_Data".Potenciometr_0_100;
0013         "Generator_W_DB".Obdelnik_A_pamet :="CTU_Data".Potenciometr_0_100;
0014     END_IF;
0015
0016 IF "CTU_Data".Frekv_ladeni_enable = TRUE AND "CTU_Data".Frekv_ladeni_poten = 3 AND "CTU_Data".PID_volba_w=2 THEN
0017     "Generator_W_DB".Obdelnik_T_pamet :="CTU_Data".Potenciometr_0_100;
0018     "Generator_W_DB".Harmonicky_fi0_pamet :="CTU_Data".Potenciometr_0_100;
0019     ;
0020 END_IF;
0021
0022 IF "CTU_Data".Frekv_ladeni_enable = TRUE AND "CTU_Data".Frekv_ladeni_poten = 4 AND "CTU_Data".PID_volba_w=2 THEN
0023     "Generator_W_DB".Harmonicky_f_pamet :="CTU_Data".Potenciometr_0_2;
0024 END_IF;
0025
0026
0027 IF "CTU_Data".Frekv_ladeni_enable = FALSE THEN
0028     "CTU_Data".Frekv_ladeni_poten := 0;
0029 END_IF;
0030
0031
```

Network 8: Reset PID při změně režimu



Network 9: Vykon tunelu (0=500W, 1=1000W) (xEB_KF2)

