

PLS-Program

SLAVE-PLS

EDI & JAT

MAI 2024

PLC Parameter
Data Name : Memory Capacity
Memory Capacity

5/6/2024

[Memory Capacity]
8000

[Program Capacity]
8000 Steps

[Comments Capacity]
0 Block 0 Points

[File Register Capacity]
0 Block 0 Points

[Special Function Block Setting]
0 Block

[Positioning]
0 Block

[Built-in CC-Link/LT Setting]
0 Block

PLC Parameter
Data Name : PLC System
PLC System

5/6/2024

[Battery Less Mode]

OFF

[MODEM Initialized]

None

[RUN Terminal Input]

None

PLC Parameter
Data Name : Device
Device

[Device]

	Sym.	Dig.	Points	Start	End	Latch Start	End	Latch Setting Range
Supplemental Relay	M	10	7680	0	7679	500	1023	0 - 1023
State	S	10	4096	0	4095	500	999	0 - 999
Timer	T	10	512	0	511			
Counter(16bit)	C	10	200	0	199	100	199	0 - 199
Counter(32bit)	C	10	56	200	255	220	255	200 - 255
Data Register	D	10	8000	0	7999	200	511	0 - 511
Extended Register	R	10	32768	0	32767			

Network Parameter
Data Name : CC-Link
CC-Link Setting

5/6/2024

[CC-Link Setting]

Connection Block Not Set

Network Parameter
Data Name : CC-Link
CC-Link Setting

5/6/2024

[CC-Link Setting]

	Setting Contents
Special Function Block No.	-
Type	-
Master Station Data Link Type	Start Parameter by BFM
Mode	-
Total Module Connected	-
Remote input(RX)	-
Remote output(RY)	-
Remote register(RW _r)	-
Remote register(RW _w)	-
Ver.2 Remote input(RX)	-
Ver.2 Remote output(RY)	-
Ver.2 Remote register(RW _r)	-
Ver.2 Remote register(RW _w)	-
Special relay(SB)	-
Special register(SW)	-
Retry Count	-
Automatic Reconnection Station Count	-
Standby Master Station No.	-
PLC Down Select	-
Scan Mode Setting	-
Delay Time Setting	-
Remote Device Station Initial Setting	-
Interrupt Settings	-

Execution type	Program file name [Title]	Task name [Title]	Task attribute
Execution Program	MAIN	stroomb Rudd	Priority (31), Always
		Task_01	Priority (31), Always
		task_2	Priority (31), Interval (T#200ms)

Program setting
Data Name : stroombuudd

Task Setting

	Program Name	Comment
1	stroombuudd	

Program setting
Data Name : Task_01

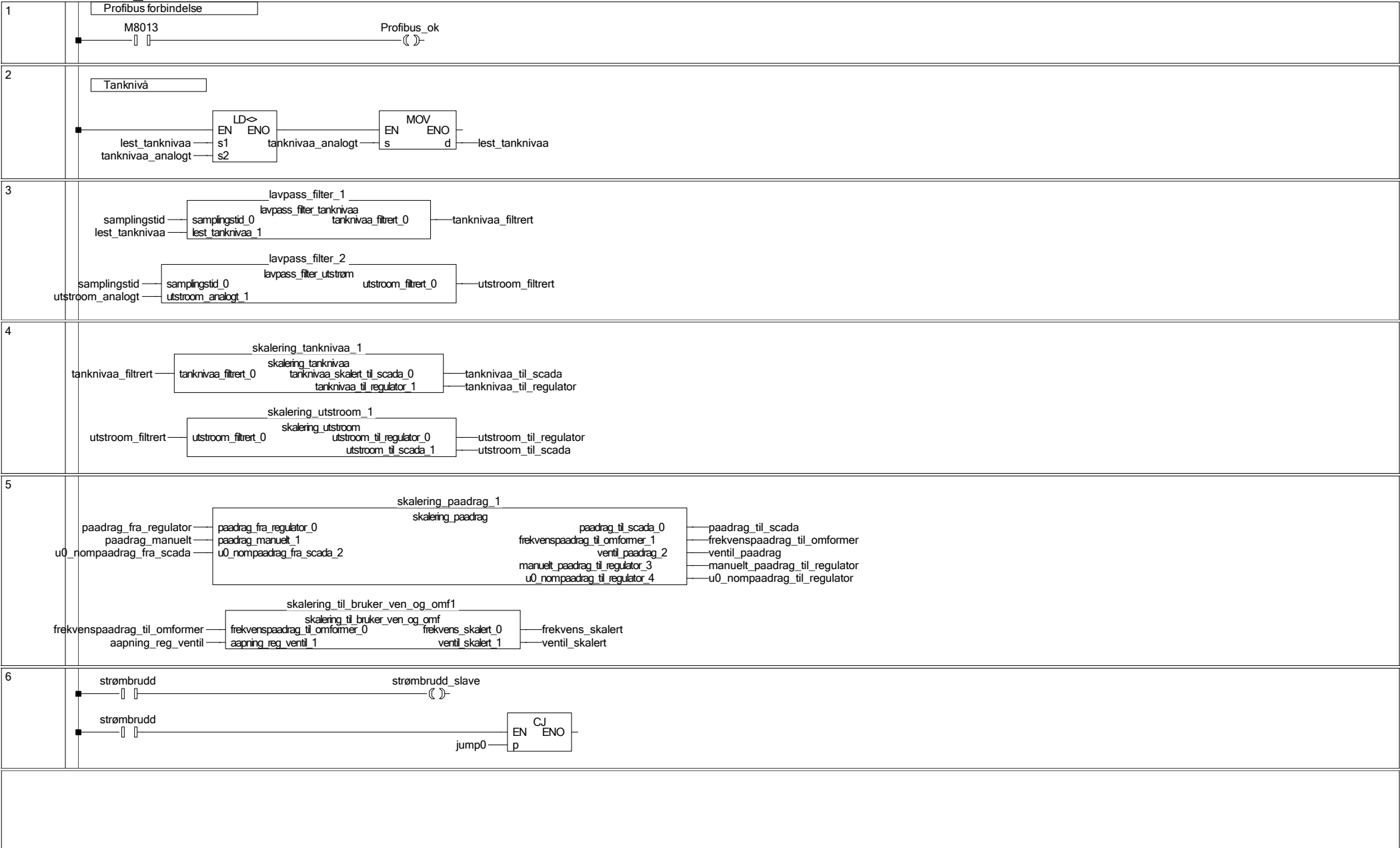
Task Setting

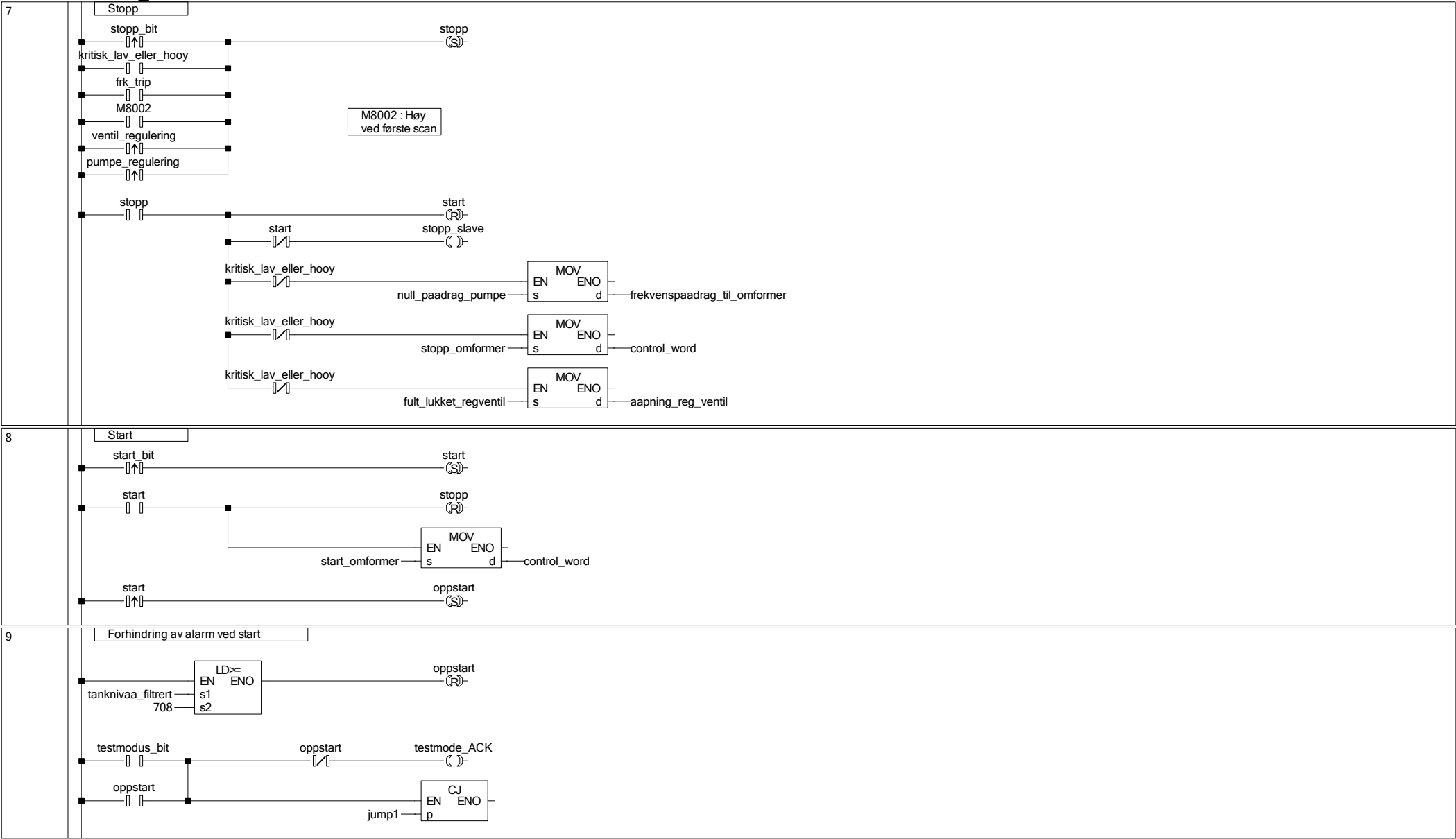
	Program Name	Comment
1	POU_01	

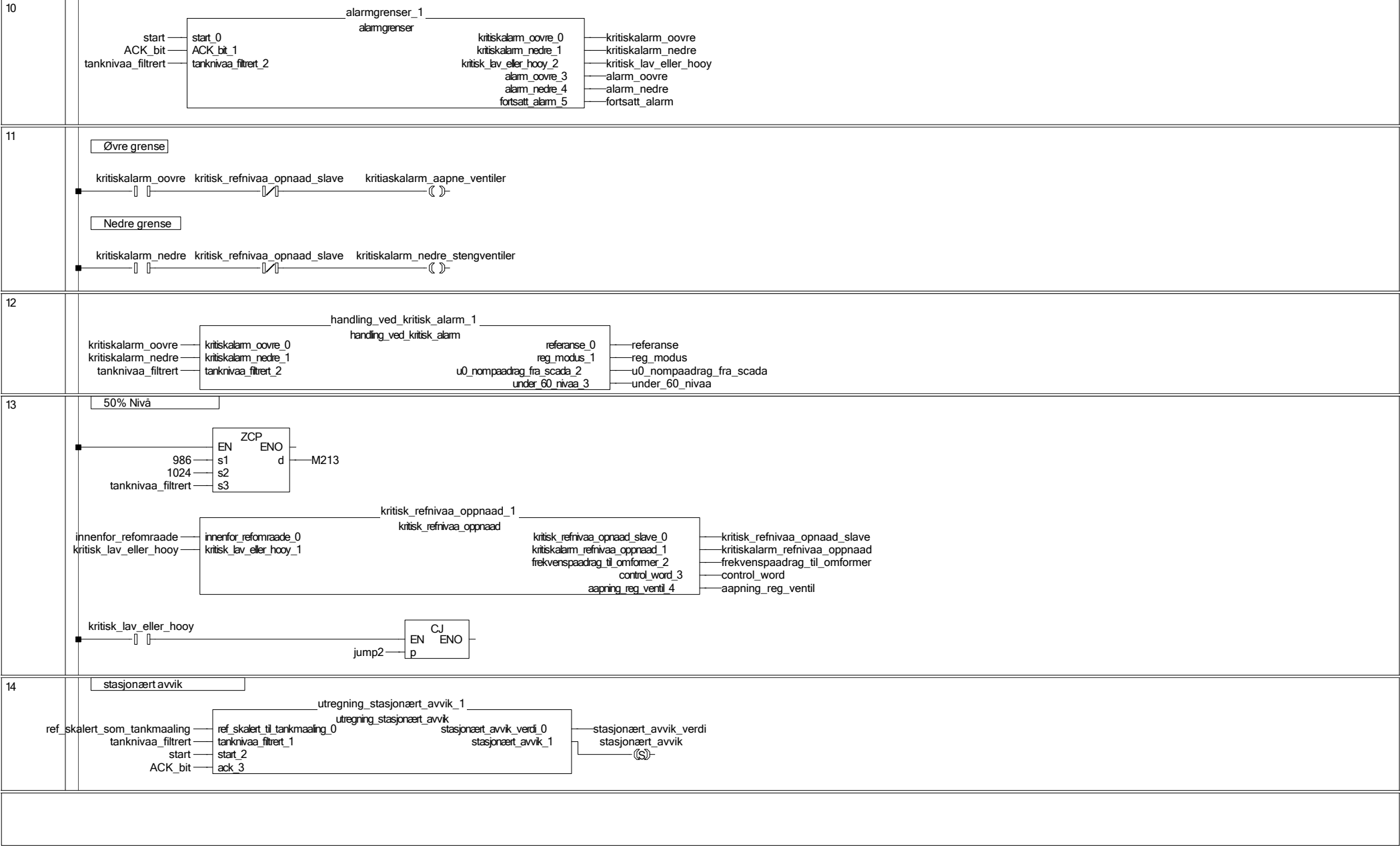
Program setting
Data Name : task_2

Task Setting

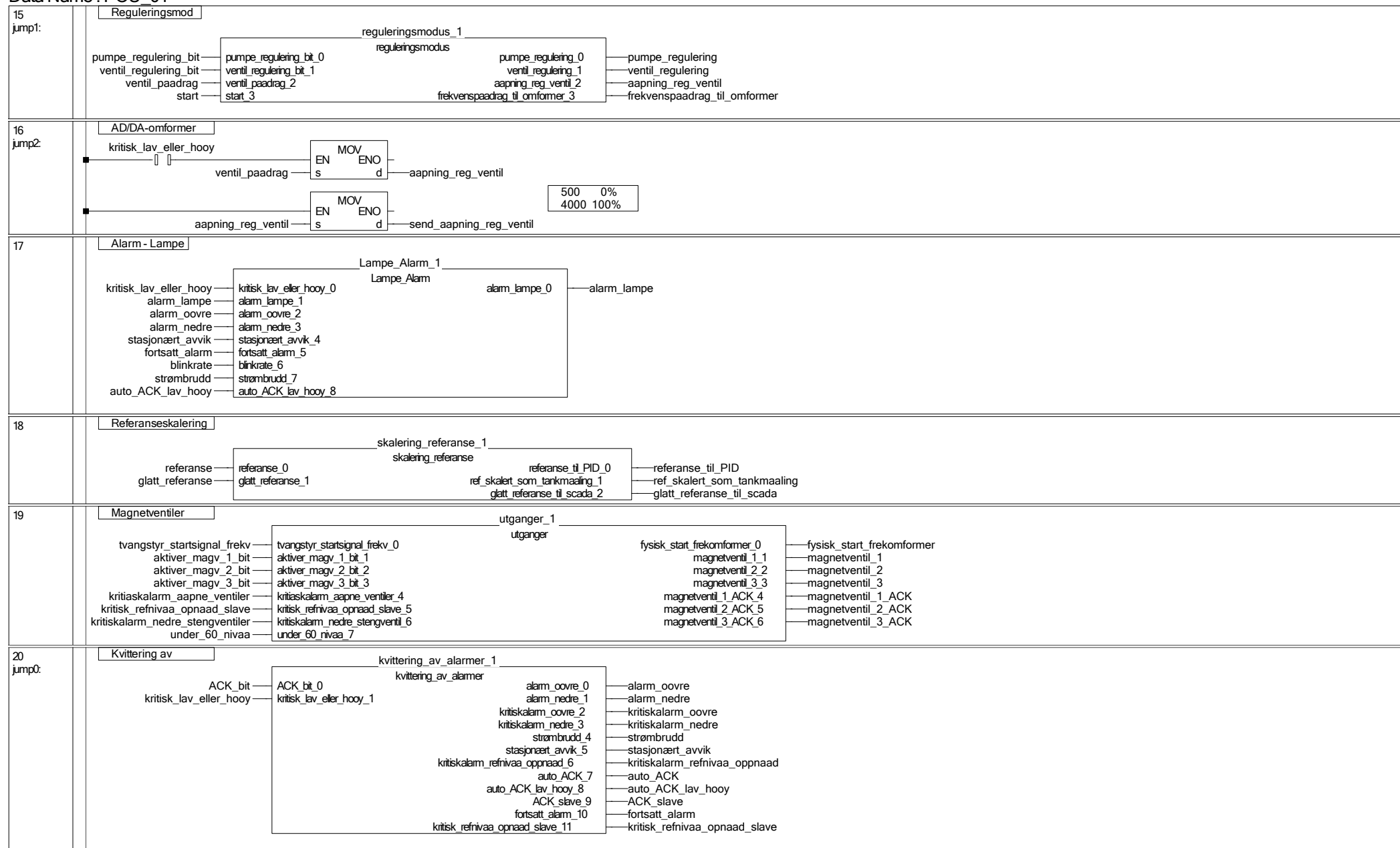
	Program Name	Comment
1	Regulator	

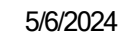
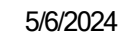


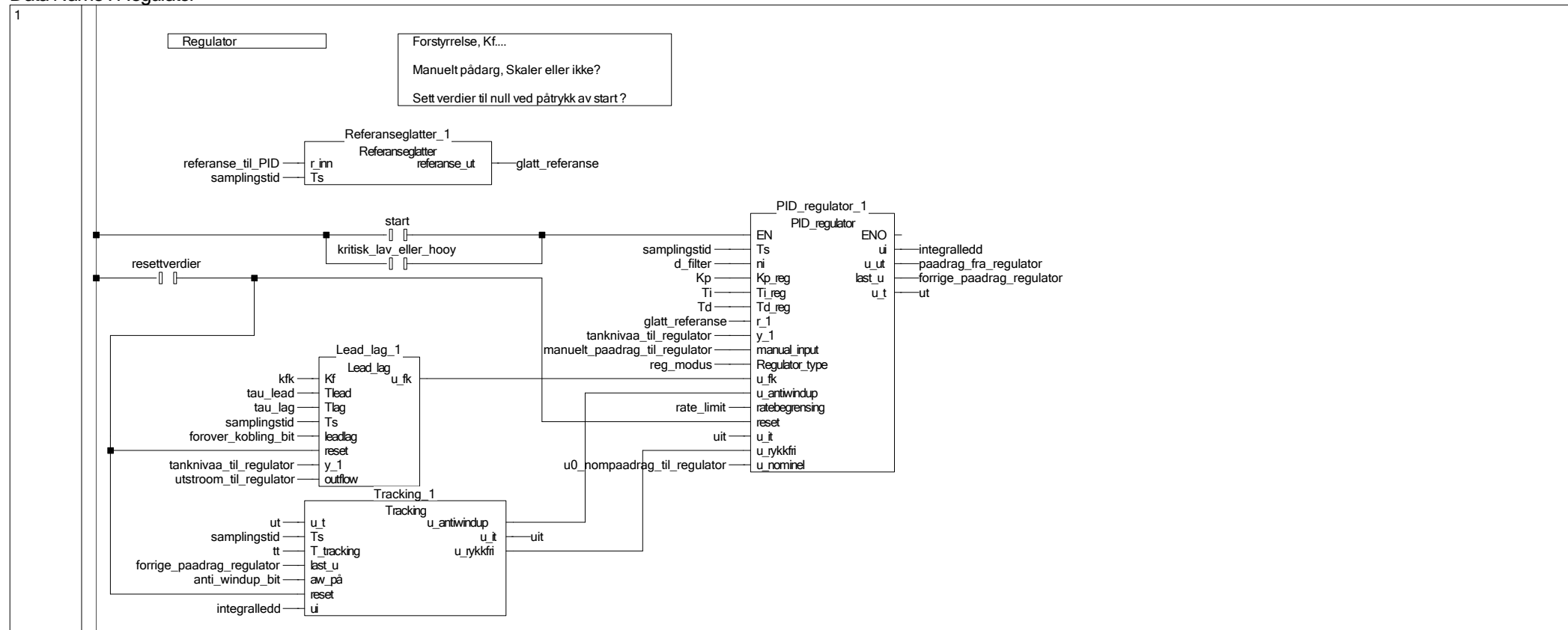




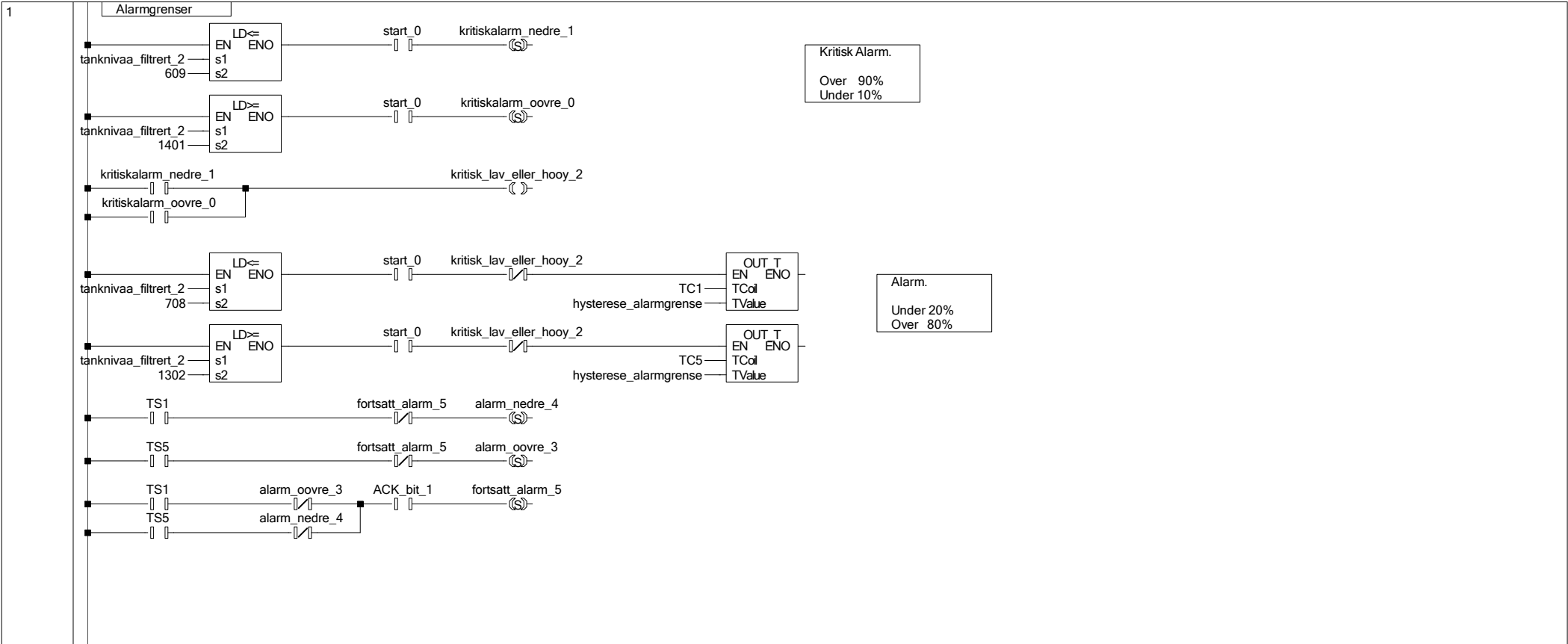
Data Name : POU_01



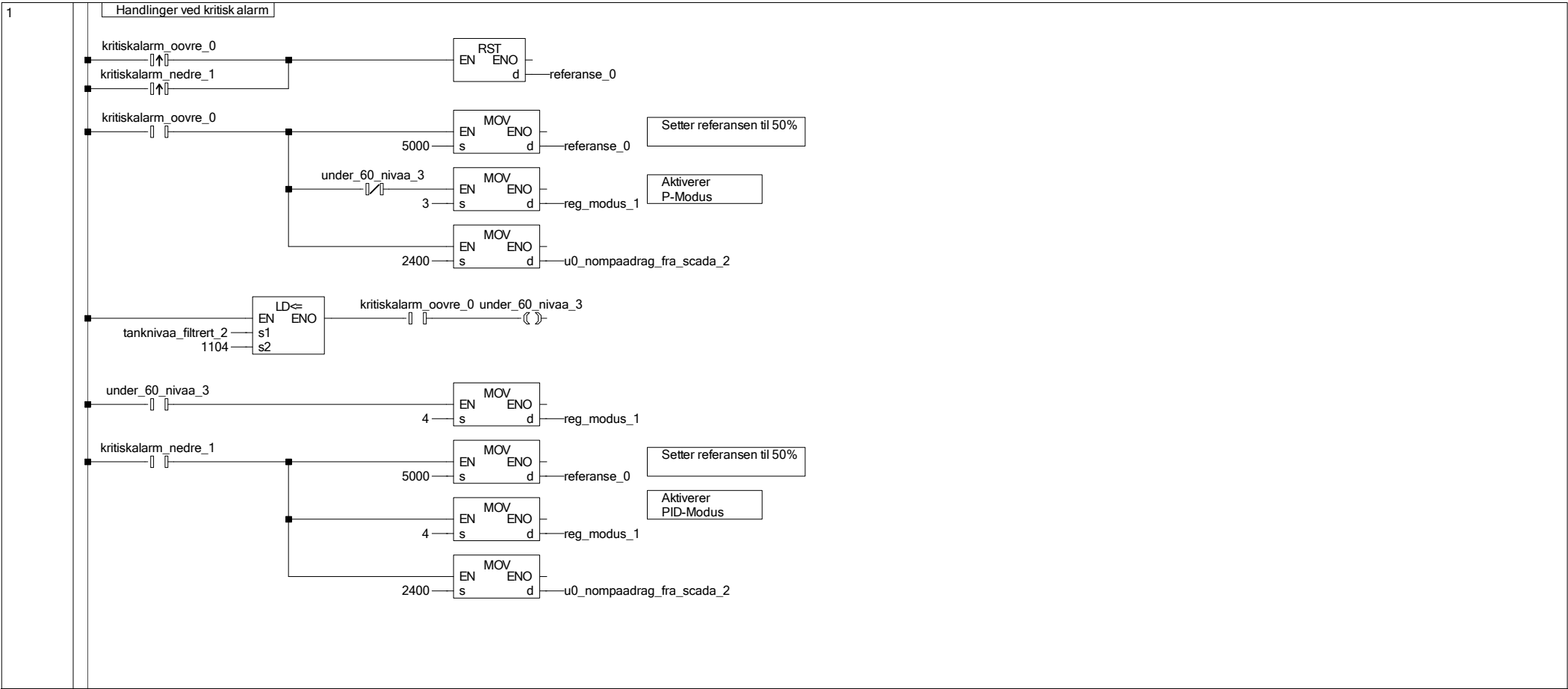


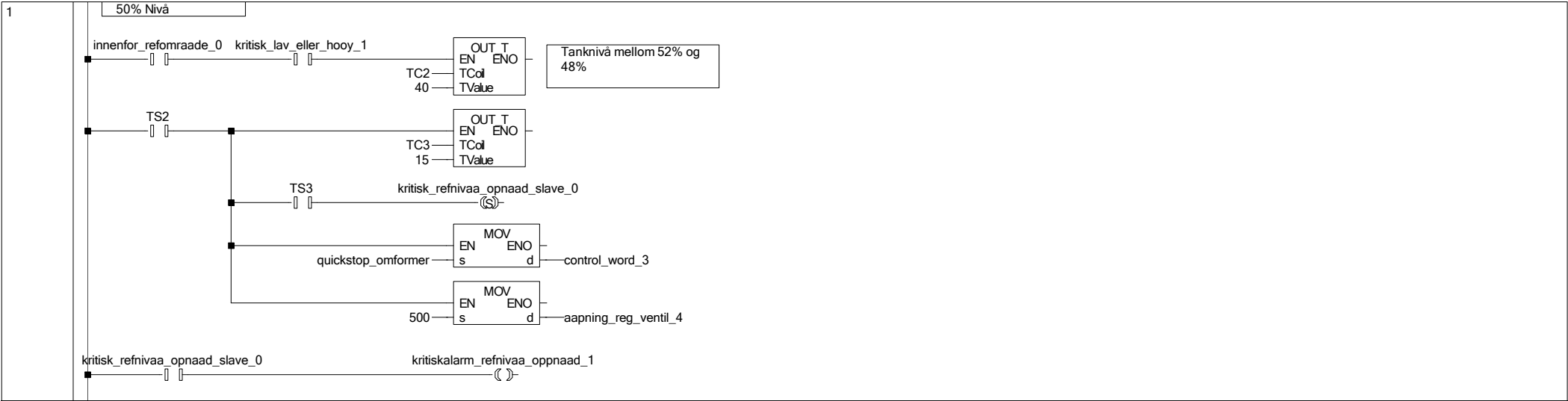


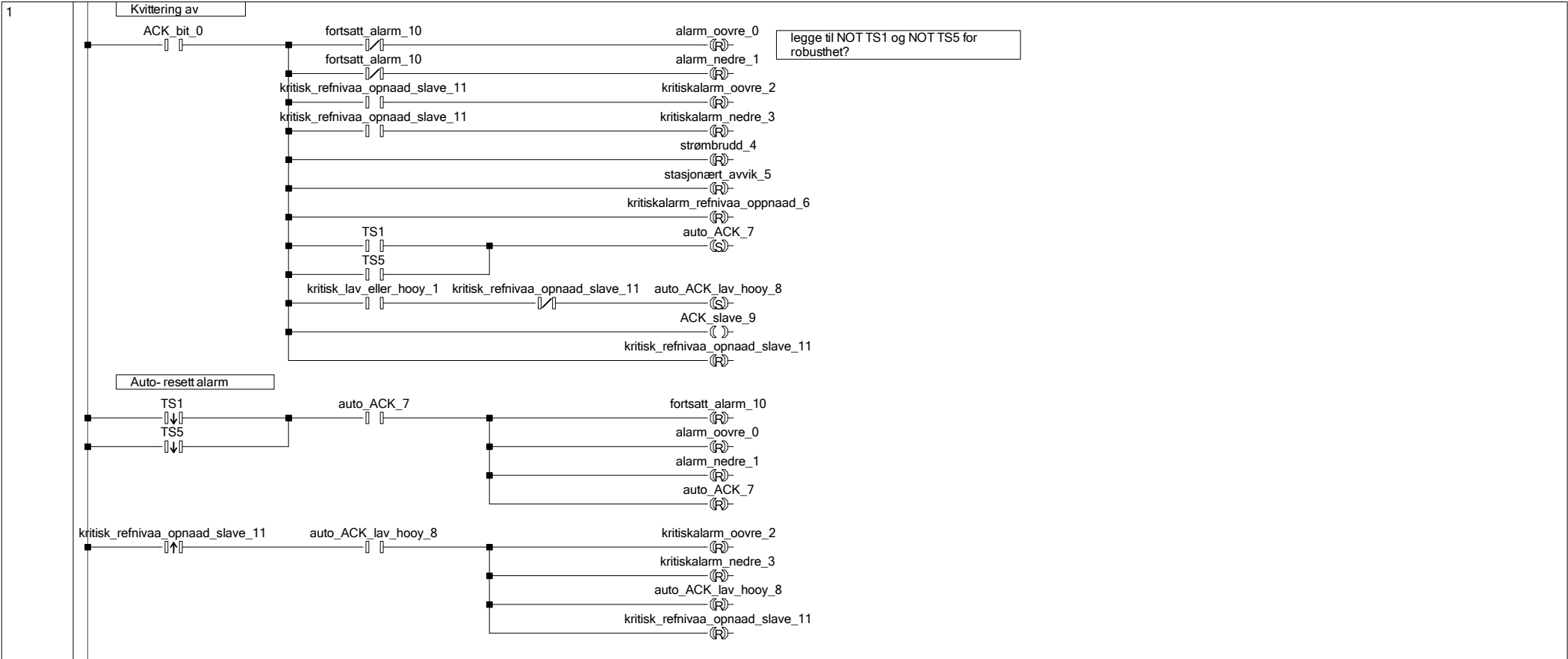


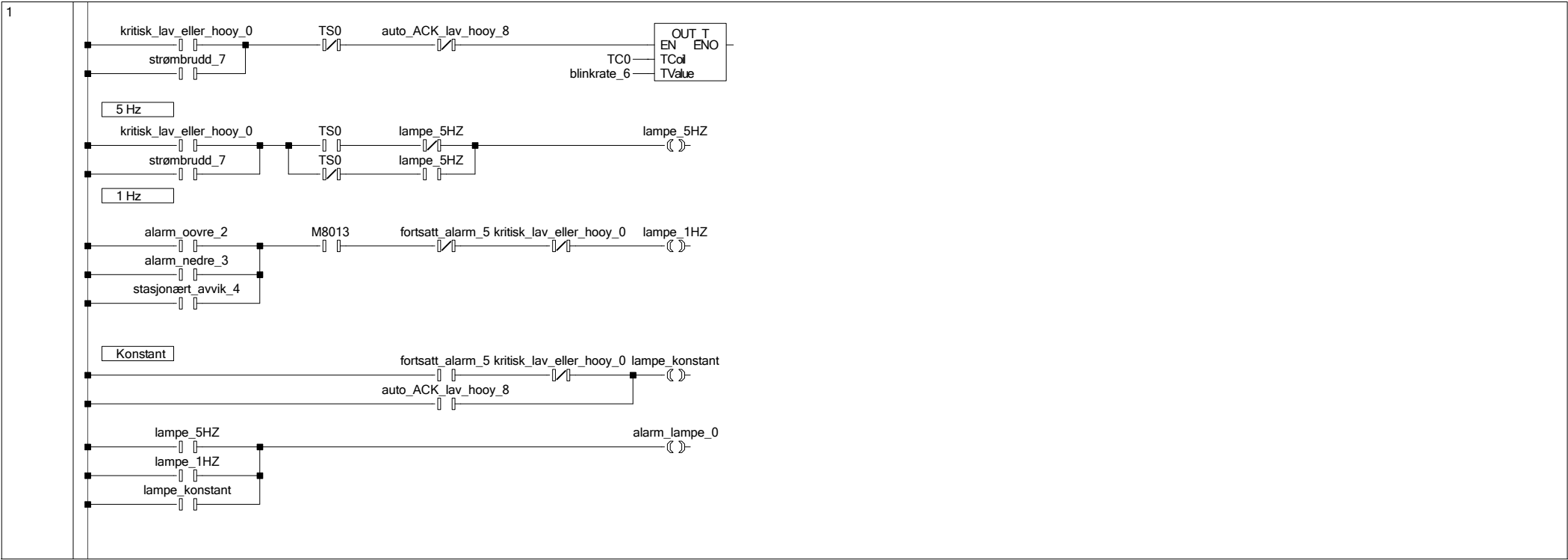


```
gjelende_siffer_real:=INT_TO_REAL(gjelende_siffer_input);  
ti_til_gjelende_siffer:=EXP(gjelende_siffer_real*LN(10.0));  
  
IF DINT_TO_REAL(REAL_TO_DINT(real_to_round*ti_til_gjelende_siffer))>(real_to_round*ti_til_gjelende_siffer-0.5) THEN;  
  int_round:=REAL_TO_DINT(real_to_round*ti_til_gjelende_siffer);  
  real_rounded:=DINT_TO_REAL(int_round)/ti_til_gjelende_siffer;  
ELSE  
  int_round:=REAL_TO_DINT(real_to_round*ti_til_gjelende_siffer+1.0);  
  real_rounded:=DINT_TO_REAL(int_round)/ti_til_gjelende_siffer;  
END_IF;
```









Data Name : lavpass_filter_tanknivaa

Function Block

```
tastetid_float := INT_TO_REAL(samplingstid_0)/100.0;  
eksponent := -tastetid_float*omega_0*two_pi;  
filter_faktor := EXP(eksponent);  
input_float := INT_TO_REAL(lest_tanknivaa_1);  
avg_maaling := filter_faktor*avg_maaling_k_minus_1 + (1.0-filter_faktor)*input_float;  
avg_maaling_k_minus_1 := avg_maaling;  
DEROUND_1(real_to_round := avg_maaling, gjelende_siffer_input := 0);  
tanknivaa_filtret_0 := REAL_TO_INT(DEROUND_1.real_rounded);
```


Data Name : lavpass_filter_utstrøm

Function Block

```
tastetid_float := INT_TO_REAL(samplingstid_0)/100.0;  
eksponent := -tastetid_float*omega_0*two_pi;  
filter_faktor := EXP(eksponent);  
input_float := INT_TO_REAL(utstroom_analogt_1);  
avg_maaling := filter_faktor*avg_maaling_k_minus_1 + (1.0 - filter_faktor)*input_float;  
avg_maaling_k_minus_1 := avg_maaling;  
DEROUND_1(real_to_round := avg_maaling, gjelende_siffer_input := 0);  
utstroom_filtret_0 := REAL_TO_INT(DEROUND_1.real_rounded);
```

FB/FUN Program
Data Name : Lead_lag
Function Block

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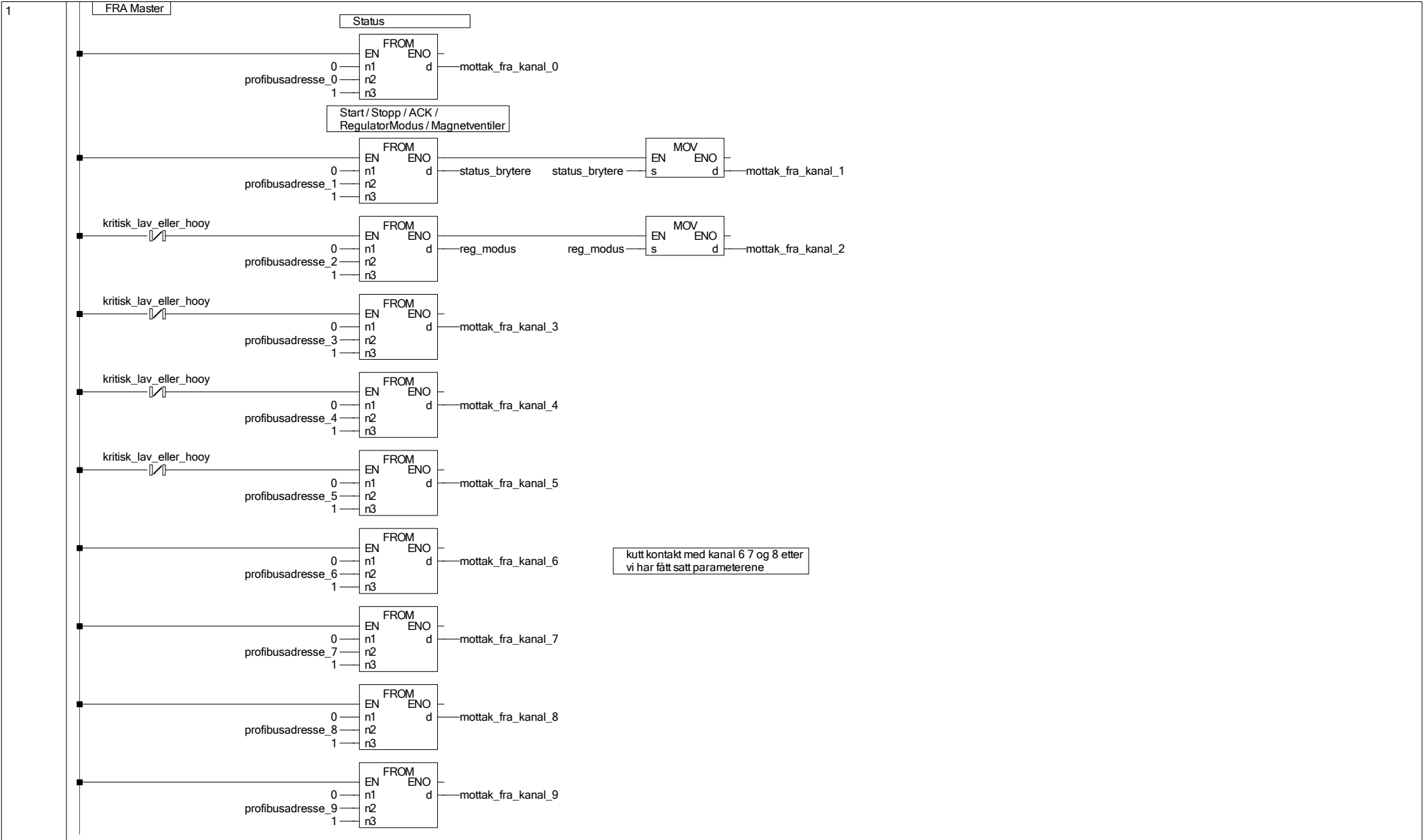
```
IF (reset) THEN
  last_v := 0.0;
  last_u_fk := 0.0;
END_IF;

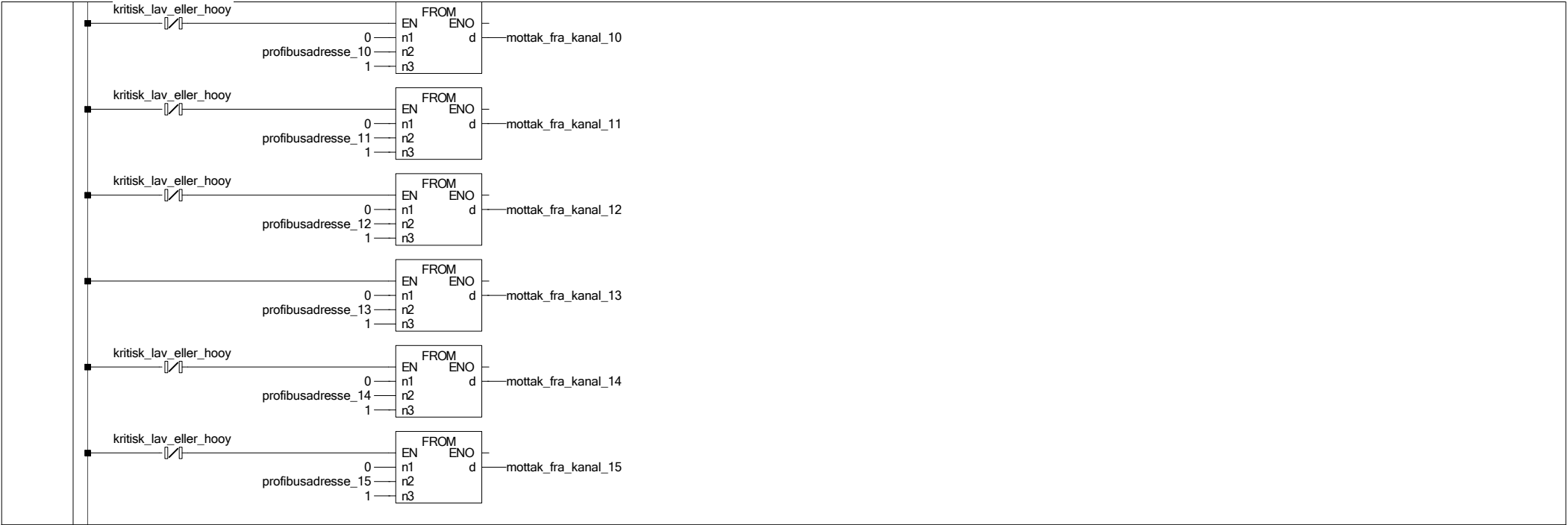
(*Trends det skalering??*)
Kf_ny := INT_TO_REAL(Kf)/100.00;
Tlead_ny := INT_TO_REAL(Tlead)/100.00;
Tlag_ny := INT_TO_REAL(Tlag)/100.00;
Ts_ut := INT_TO_REAL(Ts)/100.00;

forstyr := outflow - 0.00025367*y_1*y_1*y_1+0.04313578*y_1*y_1-2.8730536*y_1-5.08111888;

IF forstyr < 0.00 THEN
  forstyr_ny := 0.00;
ELSE
  forstyr_ny := forstyr;
END_IF;

IF (leadlag=1) THEN
  u_fk := (Kf_ny*Tlead_ny*(forstyr_ny-last_v)+Kf_ny*forstyr_ny*Ts_ut+Tlag_ny*last_u_fk)/(Ts_ut+Tlag_ny);
  (*ingen tidsforsinkelse her, skal vi ha det??*)
  last_v := forstyr_ny;
  last_u_fk := u_fk;
ELSE
  u_fk := 0.00;
  last_u_fk := 0.00;
END_IF;
```





FB/FUN Program

Data Name : PID_regulator

Function Block

```

IF (reset) THEN
  last_up := 0.0;
  last_ui := 0.0;
  last_ud := 0.0;
  last_y := 0.0;
  last_u_nom := 0.00;
END_IF;

Kp_ut := INT_TO_REAL(Kp)/100.00;
Ti_ut := INT_TO_REAL(Ti)/100.00;
Td_ut := INT_TO_REAL(Td)/100.00;
Ts_ut := INT_TO_REAL(Ts)/100.00;
d_filt := INT_TO_REAL(n)/100.00;

e_reg := r_1-y_1;

alpha := Ts_ut / Ti_ut;
beta := Td_ut/(Td_ut+d_filt*Ts_ut);

up := e_reg*Kp_ut;

IF (up>last_up>INT_TO_REAL(ratebegrensing)) THEN
  up := last_up+INT_TO_REAL(ratebegrensing);
ELSIF (up>last_up<INT_TO_REAL(0+ratebegrensing)) THEN
  up := last_up - INT_TO_REAL(ratebegrensing);
END_IF;

IF (e_reg)<0.00 THEN
  konstant := 1.00;
ELSE
  konstant := 1.00;
END_IF;

ui := last_ui + Kp_ut*alpha* e_reg*konstant+u_ik+u_antiwindup;

IF (ui>last_ui>INT_TO_REAL(ratebegrensing)) THEN
  ui := last_ui+INT_TO_REAL(ratebegrensing);
ELSIF (ui>last_ui<INT_TO_REAL(0+ratebegrensing)) THEN
  ui := last_ui - INT_TO_REAL(ratebegrensing);
END_IF;

ud := beta*last_ud-Kp_ut*(Td_ut/Ts_ut)*(1.00-beta)*(y_1-last_y);

IF (ud>last_ud>INT_TO_REAL(ratebegrensing)) THEN
  ud := last_ud+INT_TO_REAL(ratebegrensing);
ELSIF (ud>last_ud<INT_TO_REAL(0+ratebegrensing)) THEN
  ud := last_ud - INT_TO_REAL(ratebegrensing);
END_IF;

(*velger regulator type*)
CASE regulator_type OF
  0:
    u_reg := manual_input;
    ui := 0.00;
  (* up := 0.00;
  ud := 0.00;*)
  1:
    u_reg := up+u_nominel+u_fk+u_rykkfri;
    ui := u_nominel;
  (* ud := 0.00;*)
  2:
    u_reg := up+ui+u_fk+u_rykkfri;
    (*ud := 0.00;*)
  3:

```

FB/FUN Program
Data Name : PID_regulator
Function Block

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```
u_reg:=up+ud+u_nomine+u_fk+u_rykkfri;  
ui:=u_nomine;  
4;  
u_reg:=up+ui+ud+u_fk+u_rykkfri;  
END_CASE;  
  
u_t:=u_reg;  
  
IF u_reg<0.00 THEN  
u_reg:=0.00;  
END_IF;  
  
IF (u_reg-last_u>INT_TO_REAL(ratebegrensing)) THEN  
u_reg:=last_u+INT_TO_REAL(ratebegrensing);  
ELSIF (u_reg-last_u<INT_TO_REAL(0-ratebegrensing)) THEN  
u_reg:=last_u-INT_TO_REAL(ratebegrensing);  
END_IF;  
  
u_nom:=u_nomine;  
  
IF (u_nomine-last_u_nom>INT_TO_REAL(ratebegrensing)) THEN  
u_nom:=last_u_nom+INT_TO_REAL(ratebegrensing);  
ELSIF (u_nomine-last_u_nom<INT_TO_REAL(0-ratebegrensing)) THEN  
u_nom:=last_u_nom-INT_TO_REAL(ratebegrensing);  
END_IF;  
  
last_u_nom:=u_nom;  
last_u:=u_reg;  
last_up:=up;  
last_ui:=ui;  
last_ud:=ud;  
last_y:=y_1;  
u_ut:=u_reg;
```

Data Name : Referanseglatter

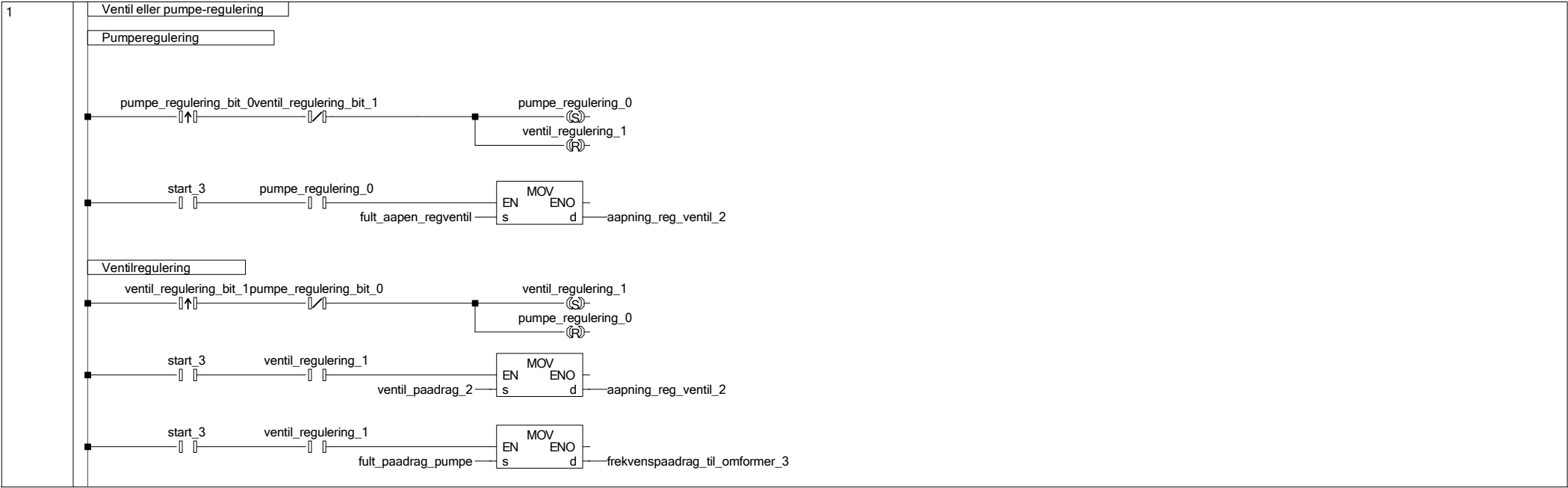
Function Block

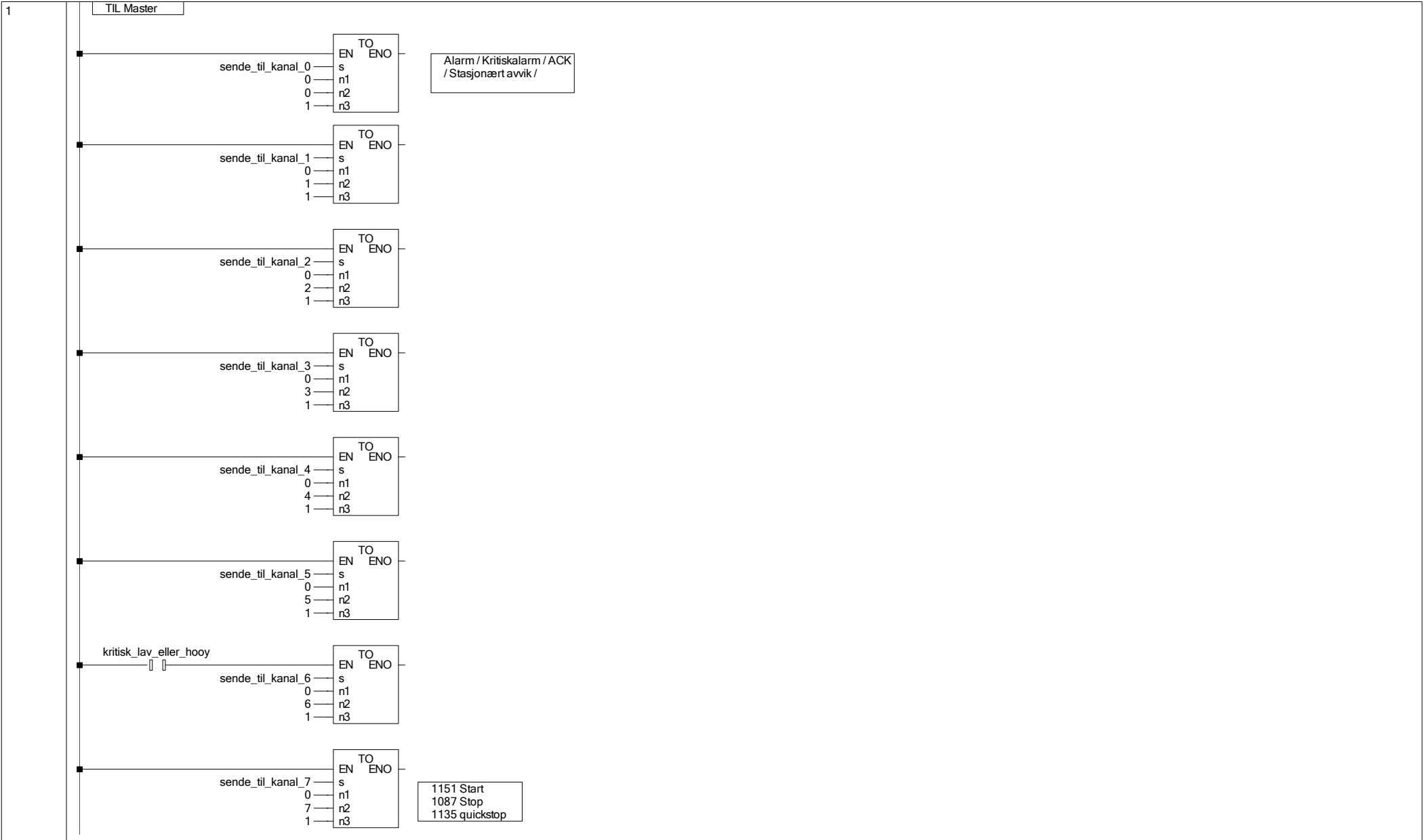
```
IF (M8002) THEN
  last_rut:=0.0;
  lastlast_rut:=0.0;
END_IF;

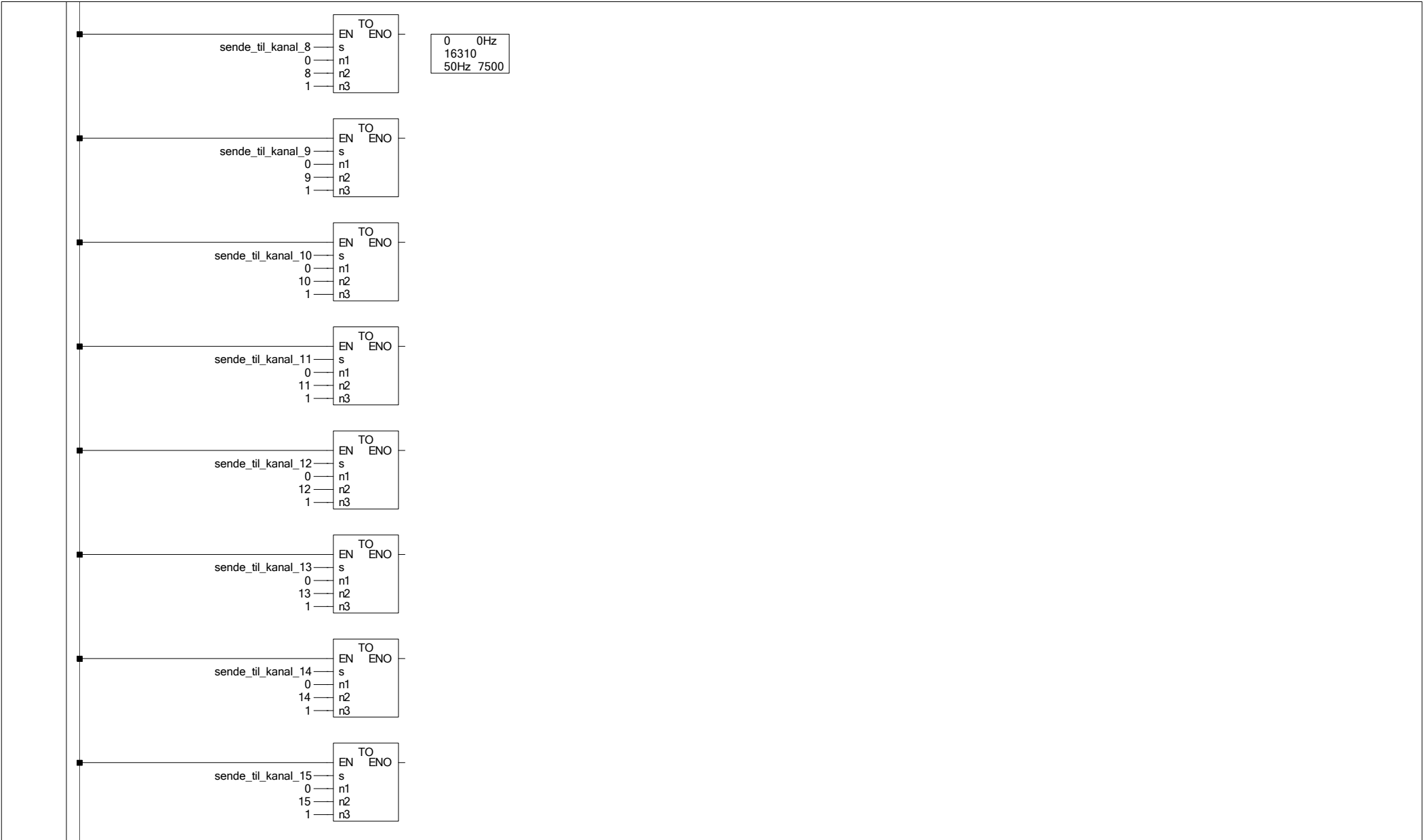
Ts_ut:=INT_TO_REAL(Ts)/100.00;
r_glatting:=r_inn;

referanse_ut:=(Ts_ut*Ts_ut*a_rglatt*r_glatting-lastlast_rut+(2.00+b*Ts_ut)*last_rut)/(1.00+Ts_ut*b+a_rglatt*Ts_ut*Ts_ut);

lastlast_rut:=last_rut;
last_rut:=referanse_ut;
```







Data Name : skalering_paadrage

Function Block

```
IF pumpe_regulering THEN;  
  DEROUND_1(real_to_round := paadrage_fra_regulator_0*84.85 + 7825.0, gjelende_siffer_input := 0);  
  frekvenspaadrage_til_omformer_1 := REAL_TO_INT(DEROUND_1.real_rounded);  
ELSIF ventil_regulering THEN;  
  DEROUND_2(real_to_round := paadrage_fra_regulator_0*35.0 + 500.0, gjelende_siffer_input := 0);  
  ventil_paadrage_2 := REAL_TO_INT(DEROUND_2.real_rounded);  
END_IF;  
DEROUND_3(real_to_round := paadrage_fra_regulator_0*100.0, gjelende_siffer_input := 0);  
paadrage_til_scada_0 := REAL_TO_INT(DEROUND_3.real_rounded);  
manuelt_paadrage_til_regulator_3 := INT_TO_REAL(paadrage_manuelt_1)/100.0;  
u0_nompaadrage_til_regulator_4 := INT_TO_REAL(u0_nompaadrage_fra_scada_2)/100.0;
```

Data Name : skalering_referanse

Function Block

```
referanse_til_PID_0 := INT_TO_REAL(referanse_0)/100.0;  
DEROUND_1(real_to_round := referanse_til_PID_0*9.9 + 510.0, gjelende_siffer_input := 0);  
ref_skalert_som_tankmaaling_1 := REAL_TO_INT(DEROUND_1.real_rounded);  
DEROUND_2(real_to_round := glatt_referanse_1*100.0, gjelende_siffer_input := 0);  
glatt_referanse_til_scada_2 := REAL_TO_INT(DEROUND_2.real_rounded);
```

Data Name : skalering_tanknivaa

Function Block

```
IF (tanknivaa_filtret_0 < 510) THEN;  
  tanknivaa_til_regulator_1 := 0.0;  
  tanknivaa_skalet_til_scada_0 := 0;  
ELSE  
  tanknivaa_til_regulator_1 := INT_TO_REAL(tanknivaa_filtret_0-510)/9.9;  
  DEROUND_1(real_to_round := INT_TO_REAL(tanknivaa_filtret_0-510)/9.9*100.0, gjelende_siffer_input := 0);  
  tanknivaa_skalet_til_scada_0 := REAL_TO_INT(DEROUND_1.real_rounded);  
END_IF;
```

Data Name : skalering_til_bruker_ven_og_omf

Function Block

```
IF frekvenspaadrag_til_omformer_0 < 7825 THEN;  
    frekvens_skalert_0 := 0;  
ELSE  
    DEROUND_1(real_to_round := (INT_TO_REAL(frekvenspaadrag_til_omformer_0) - 7825.0)/0.8485, gjelende_siffer_input := 0);  
    frekvens_skalert_0 := REAL_TO_INT(DEROUND_1.real_rounded);  
END_IF;  
DEROUND_2(real_to_round := (INT_TO_REAL(aapning_reg_ventil_1) - 500.0)/0.35, gjelende_siffer_input := 0);  
ventil_skalert_1 := REAL_TO_INT(DEROUND_2.real_rounded);
```

Data Name : skalering_utstroom

Function Block

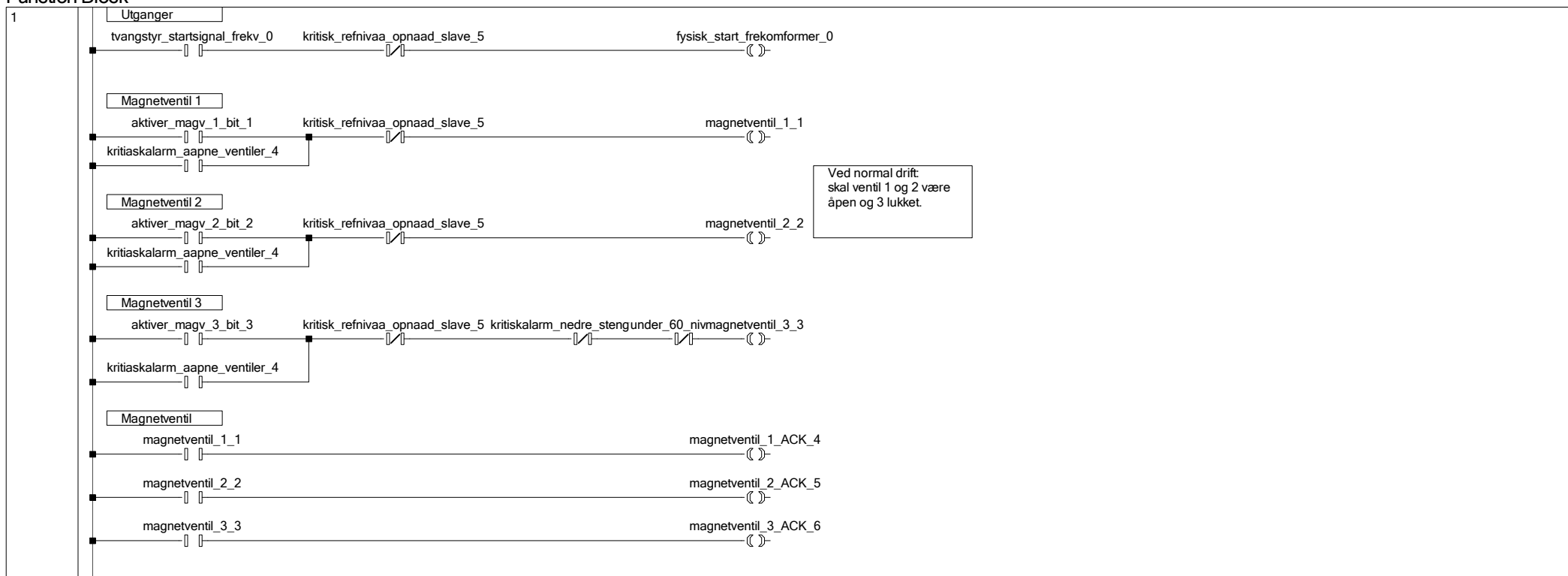
```
IF utstroom_filtret_0 < 400 THEN;  
  utstroom_til_regulator_0 := 0.0;  
  utstroom_til_scada_1 := 0;  
ELSE  
  utstroom_til_regulator_0 := INT_TO_REAL(utstroom_filtret_0-400)/12.35;  
  DEROUND_2(real_to_round := INT_TO_REAL(utstroom_filtret_0 - 400)/200.00, gjelende_siffer_input := 2);  
  utstroom_til_scada_1 := REAL_TO_INT(DEROUND_2.real_rounded*100.00);  
END_IF;
```


Data Name : skalering_ventil

Function Block

```
DEROUND_1(real_to_round:= INT_TO_REAL(ventil_input - 500)/0.35, gjelende_siffer_input:= 0);  
ventil_scada:= REAL_TO_INT(DEROUND_1.real_rounded);  
ventil_regulator:= INT_TO_REAL(ventil_input - 500)/35.0;
```

```
IF (reset) THEN;  
  last_u_antiwindup := 0.00;  
  last_u_rykkfri := 0.00;  
END_IF;  
  
Ts_ut := INT_TO_REAL(Ts)/100.00;  
T_tut := INT_TO_REAL(T_tracking)/100.00;  
  
u_aw := u_metning-u_t;  
u_rf := u_t;  
  
IF ((u_aw+5.00)<0.00) THEN;  
  IF (aw_pa) THEN;  
    u_antiwindup := u_aw*(Ts_ut/T_tut)+last_u_antiwindup;  
  ELSE;  
    u_antiwindup := 0.00;  
  END_IF;  
ELSIF (u_t<0.00) THEN;  
  IF (aw_pa) THEN;  
    u_antiwindup := -u_t*(Ts_ut/T_tut)+last_u_antiwindup;  
  ELSE;  
    u_antiwindup := 0.00;  
  END_IF;  
ELSIF ((u_rf+10.00)<last_u) THEN;  
  u_rykkfri := (last_u-u_rf)*(Ts_ut/T_tut)+last_u_rykkfri;  
ELSIF ((u_rf-10.00)>last_u) THEN;  
  u_rykkfri := (last_u-u_rf)*(Ts_ut/T_tut)+last_u_rykkfri;  
ELSE;  
  u_rykkfri := 0.00;  
  u_antiwindup := 0.00;  
END_IF;  
  
last_u_antiwindup := u_antiwindup;  
last_u_rykkfri := u_rykkfri;
```



Data Name : utregning_stasjonært_avvik

Function Block

```
stasjonært_avvik_verdi_0 := ABS(ref_skalet_til_tankmaaling_0 - tanknivaa_filtret_1);
```

```
IF ((stasjonært_avvik_verdi_0 >= 99) AND (start_2) AND (NOT ack_3)) THEN;  
  myTimer(IN := TRUE, PT := T#60s);
```

```
ELSE  
  myTimer(IN := FALSE);  
END_IF;
```

```
IF myTimer.Q THEN  
  stasjonært_avvik_1 := TRUE;  
ELSE  
  stasjonært_avvik_1 := FALSE;  
END_IF;
```

Label
Data Name : Global1
Global Label Setting

	Class	Label Name	Data Type	Constant	Device	Address	Comment	Remark	Relation with System Label	System Label Name	Attribute
1	VAR_GLOBAL	tanknivaa_analogt	Word[Signed]		D8260	%MW0.8260		NIVAMÅLER			
2	VAR_GLOBAL	utstroom_analogt	Word[Signed]		D8261	%MW0.8261		FLOWMETER			
3	VAR_GLOBAL	send_aapning_reg_ventil	Word[Signed]		D8262	%MW0.8262		ÅPNING REGVENTIL			
4											
5											
6	VAR_GLOBAL	start_bit	Bit		M101	%MX0.101		M100 til M199 Reserveres TIL SLAVE			
7	VAR_GLOBAL	stopp_bit	Bit		M100	%MX0.100					
8	VAR_GLOBAL	ACK_bit	Bit		M102	%MX0.102					
9	VAR_GLOBAL	aktiver_magv_1_bit	Bit		M103	%MX0.103					
10	VAR_GLOBAL	aktiver_magv_2_bit	Bit		M104	%MX0.104					
11	VAR_GLOBAL	aktiver_magv_3_bit	Bit		M105	%MX0.105					
12	VAR_GLOBAL	ventil_regulering_bit	Bit		M106	%MX0.106					
13	VAR_GLOBAL	pumpe_regulering_bit	Bit		M107	%MX0.107					
14	VAR_GLOBAL	forover_kobling_bit	Bit		M108	%MX0.108					
15	VAR_GLOBAL	anti_windup_bit	Bit		M109	%MX0.109					
16	VAR_GLOBAL	testmodus_bit	Bit		M110	%MX0.110					
17	VAR_GLOBAL	kritisk_lav_eller_hooy_bit	Bit		M111	%MX0.111					
18	VAR_GLOBAL	reg_modus_bit	Bit		M112	%MX0.112	Til og med M115				
19											
20											
21	VAR_GLOBAL	tvangstyr_startsignal_frekv	Bit		M1	%MX0.1	Aktiver kontaktor for startsignal til omformer	M0 til M99 Reservert INTERNT i slave			
22	VAR_GLOBAL	intern_start_regventil	Bit		M2	%MX0.2					
23											
24	VAR_GLOBAL	intern_aktiver_magventil_1	Bit		M4	%MX0.4	Lokalt for slave				
25	VAR_GLOBAL	intern_aktiver_magventil_2	Bit		M5	%MX0.5	Lokalt for slave				
26	VAR_GLOBAL	intern_aktiver_magventil_3	Bit		M6	%MX0.6	Lokalt for slave				
27											
28											
29	VAR_GLOBAL	tanknivaa_til_scada	Word[Signed]		D0	%MW0.0					
30	VAR_GLOBAL	lest_tanknivaa	Word[Signed]		D1	%MW0.1		LAGRING AV WORDS			
31	VAR_GLOBAL	status_brytere	Word[Signed]		D2	%MW0.2	Start,stop,ACK og AutoModus				
32	VAR_GLOBAL	paadrag_til_scada	Word[Signed]		D4	%MW0.4	Start,stop,ACK og AutoModus				
33	VAR_GLOBAL	referanse	Word[Signed]		D5	%MW0.5					
34	VAR_GLOBAL	Td	Word[Signed]		D6	%MW0.6					
35	VAR_GLOBAL	Ti	Word[Signed]		D7	%MW0.7					
36	VAR_GLOBAL	Kp	Word[Signed]		D8	%MW0.8					
37	VAR_GLOBAL	reg_modus	Word[Signed]		D9	%MW0.9	4bit				
38	VAR_GLOBAL	u0_nompaadrag_fra_scada	Word[Signed]		D10	%MW0.10					
39	VAR_GLOBAL	samplingstid	Word[Signed]		D12	%MW0.12					
40	VAR_GLOBAL	tau_lead	Word[Signed]		D13	%MW0.13					
41	VAR_GLOBAL	tau_lag	Word[Signed]		D14	%MW0.14					
42	VAR_GLOBAL	d_filter	Word[Signed]		D15	%MW0.15					
43	VAR_GLOBAL	rate_limit	Word[Signed]		D16	%MW0.16					
44	VAR_GLOBAL	tt	Word[Signed]		D17	%MW0.17					
45	VAR_GLOBAL	kfk	Word[Signed]		D18	%MW0.18	Foroverkoblingsparameter				
46											
47	VAR_GLOBAL	utstroom_filtret	Word[Signed]		D20	%MW0.20					
48	VAR_GLOBAL	lest_utstroom	Word[Signed]		D21	%MW0.21					
49											
50	VAR_GLOBAL	ref_skalert_som_tankmaaling	Word[Signed]		D22	%MW0.22					
51	VAR_GLOBAL	aapning_reg_ventil	Word[Signed]		D23	%MW0.23					
52	VAR_GLOBAL	tanknivaa_filtret	Word[Signed]		D24	%MW0.24					
53	VAR_GLOBAL	stasjonært_avvik_verdi	Word[Signed]		D25	%MW0.25					
54	VAR_GLOBAL	paadrag_regulator	Word[Signed]		D26	%MW0.26	RegulatorParmameterere				
55											
56	VAR_GLOBAL	control_word	Word[Signed]		D32	%MW0.32					
57	VAR_GLOBAL	frekvenspaadrag_til_omformer	Word[Signed]		D33	%MW0.33					
58	VAR_GLOBAL	paadrag_manuelt	Word[Signed]		D34	%MW0.34					
59	VAR_GLOBAL	frekvens_skalert	Word[Signed]		D35	%MW0.35					
60	VAR_GLOBAL	ventil_paadrag	Word[Signed]		D36	%MW0.36					
61	VAR_GLOBAL	ventil_skalert	Word[Signed]		D37	%MW0.37					
62	VAR_GLOBAL	glatt_referanse_til_scada	Word[Signed]		D38	%MW0.38					

Label
Data Name : Global1
Global Label Setting

5/6/2024

	Class	Label Name	Data Type	Constant	Device	Address	Comment	Remark	Relation with System Label	System Label Name	Attribute
63	VAR_GLOBAL	utstroom_til_scada	Word[Signed]		D39	%MW0.39					
64											
65	VAR_GLOBAL	tanknivaa_til_regulator	FLOAT (Single Precision)		D40	%MD0.40					
66	VAR_GLOBAL	referanse_til_PID	FLOAT (Single Precision)		D42	%MD0.42					
67	VAR_GLOBAL	glatt_referanse	FLOAT (Single Precision)		D44	%MD0.44					
68	VAR_GLOBAL	u0_nompaadrag_til_regulator	FLOAT (Single Precision)		D46	%MD0.46					
69	VAR_GLOBAL	paadrag_fra_regulator	FLOAT (Single Precision)		D48	%MD0.48					
70	VAR_GLOBAL	manuelt_paadrag_til_regulator	FLOAT (Single Precision)		D50	%MD0.50					
71	VAR_GLOBAL	forrige_paadrag_regulator	FLOAT (Single Precision)		D52	%MD0.52					
72	VAR_GLOBAL	utstroom_til_regulator	FLOAT (Single Precision)		D54	%MD0.54					
73											
74	VAR_GLOBAL	ubrukt_2	Word[Signed]		D100	%MW0.100					
75	VAR_GLOBAL	ubrukt_3	Word[Signed]		D101	%MW0.101					
76	VAR_GLOBAL	ubrukt_4	Word[Signed]		D102	%MW0.102					
77	VAR_GLOBAL	ubrukt_15	Word[Signed]		D103	%MW0.103					
78											
79	VAR_GLOBAL_CONSTANT	start_omformer	Word[Signed]	1151				KONSTANTER			
80	VAR_GLOBAL_CONSTANT	stopp_omformer	Word[Signed]	1087							
81	VAR_GLOBAL_CONSTANT	quickstop_omformer	Word[Signed]	1135							
82	VAR_GLOBAL_CONSTANT	fult_aapen_regventil	Word[Signed]	4000							
83	VAR_GLOBAL_CONSTANT	fult_lukket_regventil	Word[Signed]	500							
84	VAR_GLOBAL_CONSTANT	fult_paadrag_pumpe	Word[Signed]	16310			16310 før skalering				
85	VAR_GLOBAL_CONSTANT	null_paadrag_pumpe	Word[Signed]	0			16310 før skalering				
86	VAR_GLOBAL_CONSTANT	hysterese_alarmgrense	Word[Signed]	20							
87	VAR_GLOBAL_CONSTANT	blinkrate	Word[Signed]	1							
88											
89											
90	VAR_GLOBAL	fysisk_start_frekomformer	Bit		Y000	%QX0	K4	UTGANGER			
91	VAR_GLOBAL	alarm_lampe	Bit		Y001	%QX1	Alarmlampe				
92	VAR_GLOBAL	magnetventil_1	Bit		Y004	%QX4	K1				
93	VAR_GLOBAL	magnetventil_2	Bit		Y005	%QX5	K2				
94	VAR_GLOBAL	magnetventil_3	Bit		Y006	%QX6	K3				
95											
96											
97	VAR_GLOBAL	strømbrydd	Bit		M500	%MX0.500					
98											
99	VAR_GLOBAL	start	Bit		M200	%MX0.200		INTERNT I SLAVE			
100	VAR_GLOBAL	stopp	Bit		M201	%MX0.201					
101	VAR_GLOBAL	kritisk_refnivaa_opnaad_slave	Bit		M202	%MX0.202					
102	VAR_GLOBAL	kritiskalarm_aapne_ventiler	Bit		M203	%MX0.203					
103	VAR_GLOBAL	kritiskalarm_nedre_stengventiler	Bit		M206	%MX0.206					
104	VAR_GLOBAL	fortsatt_kritisk_nedre	Bit		M207	%MX0.207					
105	VAR_GLOBAL	fortsatt_kritisk_oovre	Bit		M208	%MX0.208					
106	VAR_GLOBAL	fortsatt_alarm	Bit		M209	%MX0.209					
107	VAR_GLOBAL	kritisk_lav_eller_hooy	Bit		M210	%MX0.210					
108	VAR_GLOBAL	oppstart	Bit		M211	%MX0.211					
109	VAR_GLOBAL	auto_ACK	Bit		M212	%MX0.212					
110	VAR_GLOBAL	under_refnivaa	Bit		M213	%MX0.213	M213 til M215				
111	VAR_GLOBAL	innenfor_reformraade	Bit		M214	%MX0.214	M213 til M215				
112	VAR_GLOBAL	over_refnivaa	Bit		M215	%MX0.215	M213 til M215				
113											
114	VAR_GLOBAL	auto_ACK_lav_hooy	Bit		M216	%MX0.216					
115	VAR_GLOBAL	under_60_nivaa	Bit		M217	%MX0.217					
116											
117	VAR_GLOBAL	alarm_oovre	Bit		M300	%MX0.300		M300 til M399 beholdes FRA SLAVE			
118	VAR_GLOBAL	kritiskalarm_oovre	Bit		M301	%MX0.301					
119	VAR_GLOBAL	ACK_slave	Bit		M302	%MX0.302					
120	VAR_GLOBAL	stasjonært_avvik	Bit		M303	%MX0.303					
121	VAR_GLOBAL	strømbrydd_slave	Bit		M304	%MX0.304					
122	VAR_GLOBAL	alarm_nedre	Bit		M305	%MX0.305		M300 til M399 beholdes FRA SLAVE			
123	VAR_GLOBAL	kritiskalarm_nedre	Bit		M306	%MX0.306					
124	VAR_GLOBAL	stopp_slave	Bit		M307	%MX0.307					

	Class	Label Name	Data Type	Constant	Device	Address	Comment	Remark	Relation with System Label	System Label Name	Attribute
125	VAR_GLOBAL	magnetventil_1_ACK	Bit		M308	%MX0.308					
126	VAR_GLOBAL	magnetventil_2_ACK	Bit		M309	%MX0.309					
127	VAR_GLOBAL	magnetventil_3_ACK	Bit		M310	%MX0.310					
128	VAR_GLOBAL	magnetventil_aapen_igjen	Bit		M311	%MX0.311					
129	VAR_GLOBAL	pumpe_regulering	Bit		M312	%MX0.312					
130	VAR_GLOBAL	ventil_regulering	Bit		M313	%MX0.313					
131	VAR_GLOBAL	Profibus_ok	Bit		M314	%MX0.314					
132	VAR_GLOBAL	kritiskalarm_refnivaa_oppnaad	Bit		M315	%MX0.315					
133	VAR_GLOBAL	testmode_ACK	Bit		M316	%MX0.316					
134	VAR_GLOBAL	reg_modus_ACK	Bit		M317	%MX0.317	M317 til og med M320				
135											
136											
137											
138	VAR_GLOBAL	frk_control	Bit		M400	%MX0.400	Høy = klar, Lav = ikke klar	Statusmeldinger fra frekvensomformer			
139	VAR_GLOBAL	frk_VLT	Bit		M401	%MX0.401					
140	VAR_GLOBAL	frk_motor_coasting	Bit		M402	%MX0.402					
141	VAR_GLOBAL	frk_trip	Bit		M403	%MX0.403					
142	VAR_GLOBAL	frk_on_2	Bit		M404	%MX0.404					
143	VAR_GLOBAL	frk_on_3	Bit		M405	%MX0.405					
144	VAR_GLOBAL	frk_stop_enable	Bit		M406	%MX0.406					
145	VAR_GLOBAL	frk_warning	Bit		M407	%MX0.407					
146	VAR_GLOBAL	frk_speed_ref	Bit		M408	%MX0.408					
147	VAR_GLOBAL	frk_local_operation	Bit		M409	%MX0.409					
148	VAR_GLOBAL	frk_frequency_ok	Bit		M410	%MX0.410					
149	VAR_GLOBAL	frk_running	Bit		M411	%MX0.411					
150	VAR_GLOBAL	frk_spenning_ok	Bit		M413	%MX0.413					
151	VAR_GLOBAL	frk_moment_ok	Bit		M414	%MX0.414					
152	VAR_GLOBAL	frk_termisk_varsel	Bit		M415	%MX0.415					

Label
Data Name : POU_01
Local Label Setting

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	Class	Label Name	Data Type	Constant	Device	Address	Comment
1	VAR	lavpass_filter_1	lavpass_filter_tanknivaa				
2	VAR	lavpass_filter_2	lavpass_filter_utstrøm				
3	VAR	DEROUND_1	DEROUND				
4	VAR	DEROUND_2	DEROUND				
5	VAR	Lampe_Alarm_1	Lampe_Alarm				
6	VAR	DEROUND_5	DEROUND				
7	VAR	DEROUND_6	DEROUND				
8	VAR	DEROUND_7	DEROUND				
9	VAR	DEROUND_3	DEROUND				
10	VAR	DEROUND_4	DEROUND				
11	VAR	skalering_tanknivaa_1	skalering_tanknivaa				
12	VAR	skalering_ventil_1	skalering_ventil				
13	VAR	skalering_paadrag_1	skalering_paadrag				
14	VAR	skalering_referanse_1	skalering_referanse				
15	VAR	utregning_stasjonært_avvik_1	utregning_stasjonært_avvik				
16	VAR	skalering_til Bruker ven og omf1	skalering_til Bruker ven og omf				
17	VAR	skalering_utstroom_1	skalering_utstroom				
18	VAR	mottak_av_data_fra_master_1	mottak_av_data_fra_master				
19	VAR	sending_av_data_til_master_1	sending_av_data_til_master				
20	VAR	kvittering_av_alarmer_1	kvittering_av_alarmer				
21	VAR	utganger_1	utganger				
22	VAR	kritisk_refnivaa_oppnaad_1	kritisk_refnivaa_oppnaad				
23	VAR	reguleringsmodus_1	reguleringsmodus				
24	VAR	handling_ved_kritisk_alarm_1	handling_ved_kritisk_alarm				
25	VAR	alarmgrenser_1	alarmgrenser				

	Class	Label Name	Data Type	Constant	Device	Address	Comment
1	VAR	Lead_lag_1	Lead_lag				
2	VAR	Tracking_1	Tracking				
3	VAR	PID_regulator_1	PID_regulator				
4	VAR	Referanseglatter_1	Referanseglatter				
5	VAR	resettverdier	Bit				
6	VAR	integralledd	FLOAT (Single Precision)				
7	VAR	uit	FLOAT (Single Precision)				
8	VAR	ut	FLOAT (Single Precision)				

Label
Data Name : stroombuudd
Local Label Setting

	Class	Label Name	Data Type	Constant	Device	Address	Comment
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Label
Data Name : alarmgrenser
Function/FB Label Setting

5/6/2024

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	start_0	Bit		
2	VAR_INPUT	ACK_bit_1	Bit		
3	VAR_INPUT	tanknivaa_filtret_2	Word[Signed]		
4					
5	VAR_OUTPUT	kritiskalarm_oovre_0	Bit		
6	VAR_OUTPUT	kritiskalarm_nedre_1	Bit		
7	VAR_OUTPUT	kritisk_lav_eller_hooy_2	Bit		
8	VAR_OUTPUT	alarm_oovre_3	Bit		
9	VAR_OUTPUT	alarm_nedre_4	Bit		
10	VAR_OUTPUT	fortsatt_alarm_5	Bit		

Label
Data Name : DEROUND
Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	real_to_round	FLOAT (Single Precision)		
2	VAR_INPUT	gjelende_siffer_input	Word[Signed]		
3	VAR	gjelende_siffer_real	FLOAT (Single Precision)		
4	VAR	ti_til_gjellende_siffer	FLOAT (Single Precision)		
5	VAR	int_round	Double Word[Signed]		
6	VAR_OUTPUT	real_rounded	FLOAT (Single Precision)		

Label

5/6/2024

Data Name : handling_ved_kritisk_alarm

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	kritiskalarm_oovre_0	Bit		
2	VAR_INPUT	kritiskalarm_nedre_1	Bit		
3	VAR_INPUT	tanknivaa_filtret_2	Word[Signed]		
4					
5	VAR_OUTPUT	referanse_0	Word[Signed]		
6	VAR_OUTPUT	reg_modus_1	Word[Signed]		
7	VAR_OUTPUT	u0_nompaadrag_fra_scada_2	Word[Signed]		
8	VAR_OUTPUT	under_60_nivaa_3	Bit		

Label

5/6/2024

Data Name : kritisk_refnivaa_oppnaad

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	innenfor_refomraade_0	Bit		
2	VAR_INPUT	kritisk_lav_eller_hooy_1	Bit		
3					
4	VAR_OUTPUT	kritisk_refnivaa_opnaad_slave_	Bit		
5	VAR_OUTPUT	kritiskalarm_refnivaa_oppnaad_	Bit		
6	VAR_OUTPUT	frekvenspaadrag_til_omformer_	Word[Signed]		
7	VAR_OUTPUT	control_word_3	Word[Signed]		
8	VAR_OUTPUT	aapning_reg_ventil_4	Word[Signed]		

Label

Data Name : kvittering_av_alarmer

Function/FB Label Setting

5/6/2024

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	ACK_bit_0	Bit		
2	VAR_INPUT	kritisk_lav_eller_hooy_1	Bit		
3					
4	VAR_OUTPUT	alarm_oovre_0	Bit		
5	VAR_OUTPUT	alarm_nedre_1	Bit		
6	VAR_OUTPUT	kritiskalarm_oovre_2	Bit		
7	VAR_OUTPUT	kritiskalarm_nedre_3	Bit		
8	VAR_OUTPUT	strømbrydd_4	Bit		
9	VAR_OUTPUT	stasjonært_avvik_5	Bit		
10	VAR_OUTPUT	kritiskalarm_refnivaa_opnaad_6	Bit		
11	VAR_OUTPUT	auto_ACK_7	Bit		
12	VAR_OUTPUT	auto_ACK_lav_hooy_8	Bit		
13	VAR_OUTPUT	ACK_slave_9	Bit		
14	VAR_OUTPUT	fortsatt_alarm_10	Bit		
15	VAR_OUTPUT	kritisk_refnivaa_opnaad_slave_11	Bit		

Label

5/6/2024

Data Name : Lampe_Alarm

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	kritisk_lav_eller_hooy_0	Bit		
2	VAR_INPUT	alarm_lampe_1	Bit		
3	VAR_INPUT	alarm_oovre_2	Bit		
4	VAR_INPUT	alarm_nedre_3	Bit		
5	VAR_INPUT	stasjonært_avvik_4	Bit		
6	VAR_INPUT	fortsatt_alarm_5	Bit		
7	VAR_INPUT	blinkrate_6	Word[Signed]		
8	VAR_OUTPUT	alarm_lampe_0	Bit		
9	VAR_INPUT	strømbrudd_7	Bit		
10	VAR_INPUT	auto_ACK_lav_hooy_8	Bit		
11					
12	VAR	lampe_5HZ	Bit		
13	VAR	lampe_1HZ	Bit		
14	VAR	lampe_konstant	Bit		

Label

5/6/2024

Data Name : lavpass_filter_tanknivaa

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_CONSTANT	omega_0	FLOAT (Single Precision)	0.2	cutoff frekvens. 16.4: 0.25 mye støy?? gamle:0.0384
2	VAR_CONSTANT	two_pi	FLOAT (Single Precision)	6.28	2*pi
3	VAR_INPUT	samplingstid_0	Word[Signed]		
4	VAR	input_float	FLOAT (Single Precision)		
5	VAR	avg_maaling	FLOAT (Single Precision)		
6	VAR	avg_maaling_k_minus_1	FLOAT (Single Precision)		
7	VAR	filter_faktor	FLOAT (Single Precision)		
8	VAR	eksponent	FLOAT (Single Precision)		
9	VAR	tastetid_float	FLOAT (Single Precision)		
10	VAR_INPUT	lest_tanknivaa_1	Word[Signed]		
11	VAR_OUTPUT	tanknivaa_filtret_0	Word[Signed]		
12	VAR	DEROUND_1	DEROUND		

Label

5/6/2024

Data Name : lavpass_filter_utstrøm

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_CONSTANT	omega_0	FLOAT (Single Precision)	0.2	cutoff frekvens. 16.4: 0.25 mye støy?? gamle:0.0384
2	VAR_CONSTANT	two_pi	FLOAT (Single Precision)	6.28	2*pi
3	VAR_INPUT	samplingstid_0	Word[Signed]		
4	VAR_INPUT	utstroom_analogt_1	Word[Signed]		
5	VAR_OUTPUT	utstroom_filtret_0	Word[Signed]		
6	VAR	input_float	FLOAT (Single Precision)		
7	VAR	avg_maaling	FLOAT (Single Precision)		
8	VAR	avg_maaling_k_minus_1	FLOAT (Single Precision)		
9	VAR	filter_faktor	FLOAT (Single Precision)		
10	VAR	eksponent	FLOAT (Single Precision)		
11	VAR	tastetid_float	FLOAT (Single Precision)		
12	VAR	DEROUND_1	DEROUND		

Label
Data Name : Lead_lag
Function/FB Label Setting

5/6/2024

	Class	Label Name	Data Type	Constant	Comment
1	VAR_OUTPUT	u_fk	FLOAT (Single Precision)		
2	VAR_INPUT	Kf	Word[Signed]		random konstant per nå
3	VAR	forstyr	FLOAT (Single Precision)		forstyrrelse
4	VAR_INPUT	Tlead	Word[Signed]		random konstant per nå
5	VAR_INPUT	Tlag	Word[Signed]		random konstant per nå
6	VAR	last_v	FLOAT (Single Precision)		
7	VAR_INPUT	Ts	Word[Signed]		
8	VAR	last_u_fk	FLOAT (Single Precision)		
9	VAR_INPUT	leadlag	Bit		
10	VAR	Kf_ny	FLOAT (Single Precision)		
11	VAR	Tlead_ny	FLOAT (Single Precision)		
12	VAR	Tlag_ny	FLOAT (Single Precision)		
13	VAR	forstyr_ny	FLOAT (Single Precision)		
14	VAR	Ts_ut	FLOAT (Single Precision)		
15	VAR_INPUT	reset	Bit		
16	VAR_INPUT	y_1	FLOAT (Single Precision)		
17	VAR_INPUT	outflow	FLOAT (Single Precision)		

Label

5/6/2024

Data Name : mottak_av_data_fra_master

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	profibusadresse_0	Word[Signed]		
2	VAR_INPUT	profibusadresse_1	Word[Signed]		
3	VAR_INPUT	profibusadresse_2	Word[Signed]		
4	VAR_INPUT	profibusadresse_3	Word[Signed]		
5	VAR_INPUT	profibusadresse_4	Word[Signed]		
6	VAR_INPUT	profibusadresse_5	Word[Signed]		
7	VAR_INPUT	profibusadresse_6	Word[Signed]		
8	VAR_INPUT	profibusadresse_7	Word[Signed]		
9	VAR_INPUT	profibusadresse_8	Word[Signed]		
10	VAR_INPUT	profibusadresse_9	Word[Signed]		
11	VAR_INPUT	profibusadresse_10	Word[Signed]		
12	VAR_INPUT	profibusadresse_11	Word[Signed]		
13	VAR_INPUT	profibusadresse_12	Word[Signed]		
14	VAR_INPUT	profibusadresse_13	Word[Signed]		
15	VAR_INPUT	profibusadresse_14	Word[Signed]		
16	VAR_INPUT	profibusadresse_15	Word[Signed]		
17					
18	VAR_OUTPUT	mottak_fra_kanal_0	Word[Signed]		
19	VAR_OUTPUT	mottak_fra_kanal_1	Word[Signed]		
20	VAR_OUTPUT	mottak_fra_kanal_2	Word[Signed]		
21	VAR_OUTPUT	mottak_fra_kanal_3	Word[Signed]		
22	VAR_OUTPUT	mottak_fra_kanal_4	Word[Signed]		
23	VAR_OUTPUT	mottak_fra_kanal_5	Word[Signed]		
24	VAR_OUTPUT	mottak_fra_kanal_6	Word[Signed]		
25	VAR_OUTPUT	mottak_fra_kanal_7	Word[Signed]		
26	VAR_OUTPUT	mottak_fra_kanal_8	Word[Signed]		
27	VAR_OUTPUT	mottak_fra_kanal_9	Word[Signed]		
28	VAR_OUTPUT	mottak_fra_kanal_10	Word[Signed]		
29	VAR_OUTPUT	mottak_fra_kanal_11	Word[Signed]		
30	VAR_OUTPUT	mottak_fra_kanal_12	Word[Signed]		
31	VAR_OUTPUT	mottak_fra_kanal_13	Word[Signed]		
32	VAR_OUTPUT	mottak_fra_kanal_14	Word[Signed]		
33	VAR_OUTPUT	mottak_fra_kanal_15	Word[Signed]		

	Class	Label Name	Data Type	Constant	Comment
1	VAR	last_y	FLOAT (Single Precision)		
2	VAR_INPUT	Ts	Word[Signed]		0.04
3	VAR	up	FLOAT (Single Precision)		
4	VAR	ud	FLOAT (Single Precision)		
5	VAR_OUTPUT	ui	FLOAT (Single Precision)		
6	VAR	e_reg	FLOAT (Single Precision)		
7	VAR	alpha	FLOAT (Single Precision)		
8	VAR	beta	FLOAT (Single Precision)		
9	VAR	last_ui	FLOAT (Single Precision)		
10	VAR	last_ud	FLOAT (Single Precision)		
11	VAR	last_up	FLOAT (Single Precision)		
12	VAR_INPUT	ni	Word[Signed]		mulig dette skal være input fra intouch idk.
13	VAR_INPUT	Kp_reg	Word[Signed]		
14	VAR_INPUT	Ti_reg	Word[Signed]		
15	VAR_INPUT	Td_reg	Word[Signed]		
16	VAR_INPUT	r_1	FLOAT (Single Precision)		
17	VAR_OUTPUT	u_ut	FLOAT (Single Precision)		endre til word
18	VAR_INPUT	y_1	FLOAT (Single Precision)		
19	VAR_INPUT	manual_input	FLOAT (Single Precision)		endre til word
20	VAR_INPUT	Regulator_type	Word[Signed]		
21	VAR_INPUT	u_fk	FLOAT (Single Precision)		
22	VAR	u_nom	FLOAT (Single Precision)		
23	VAR_INPUT	u_antiwindup	FLOAT (Single Precision)		
24	VAR	Kp_ut	FLOAT (Single Precision)		
25	VAR	Ti_ut	FLOAT (Single Precision)		
26	VAR	Td_ut	FLOAT (Single Precision)		
27	VAR_OUTPUT	last_u	FLOAT (Single Precision)		
28	VAR_INPUT	ratebegrensing	Word[Signed]		initial value = 2
29	VAR	Ts_ut	FLOAT (Single Precision)		
30	VAR	d_filt	FLOAT (Single Precision)		
31	VAR	u_reg	FLOAT (Single Precision)		
32	VAR_INPUT	reset	Bit		
33	VAR_INPUT	u_it	FLOAT (Single Precision)		

Label
Data Name : PID_regulator
Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
34	VAR_OUTPUT	u_t	FLOAT (Single Precision)		
35	VAR_INPUT	u_rykkfri	FLOAT (Single Precision)		
36	VAR	last_u_nom	FLOAT (Single Precision)		
37	VAR_INPUT	u_nominel	FLOAT (Single Precision)		
38	VAR	konstant	FLOAT (Single Precision)		

Label

5/6/2024

Data Name : Referanseglatter

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_OUTPUT	referanse_ut	FLOAT (Single Precision)		
2	VAR_INPUT	r_inn	FLOAT (Single Precision)		
3	VAR_CONSTANT	a_rglatt	FLOAT (Single Precision)	5	
4	VAR_CONSTANT	b	FLOAT (Single Precision)	4.47	
5	VAR_INPUT	Ts	Word[Signed]		
6	VAR	Ts_ut	FLOAT (Single Precision)		
7	VAR	r_glatting	FLOAT (Single Precision)		
8	VAR	last_rut	FLOAT (Single Precision)		
9	VAR	lastlast_rut	FLOAT (Single Precision)		

Label

5/6/2024

Data Name : reguleringsmodus

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	pumpe_regulering_bit_0	Bit		
2	VAR_INPUT	ventil_regulering_bit_1	Bit		
3	VAR_INPUT	ventil_paadrag_2	Word[Signed]		
4	VAR_INPUT	start_3	Bit		
5					
6	VAR_OUTPUT	pumpe_regulering_0	Bit		
7	VAR_OUTPUT	ventil_regulering_1	Bit		
8	VAR_OUTPUT	aapning_reg_ventil_2	Word[Signed]		
9	VAR_OUTPUT	frekvenspaadrag_til_omformer_0	Word[Signed]		

Label

5/6/2024

Data Name : sending_av_data_til_master

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	sende_til_kanal_0	Word[Signed]		
2	VAR_INPUT	sende_til_kanal_1	Word[Signed]		
3	VAR_INPUT	sende_til_kanal_2	Word[Signed]		
4	VAR_INPUT	sende_til_kanal_3	Word[Signed]		
5	VAR_INPUT	sende_til_kanal_4	Word[Signed]		
6	VAR_INPUT	sende_til_kanal_5	Word[Signed]		
7	VAR_INPUT	sende_til_kanal_6	Word[Signed]		
8	VAR_INPUT	sende_til_kanal_7	Word[Signed]		
9	VAR_INPUT	sende_til_kanal_8	Word[Signed]		
10	VAR_INPUT	sende_til_kanal_9	Word[Signed]		
11	VAR_INPUT	sende_til_kanal_10	Word[Signed]		
12	VAR_INPUT	sende_til_kanal_11	Word[Signed]		
13	VAR_INPUT	sende_til_kanal_12	Word[Signed]		
14	VAR_INPUT	sende_til_kanal_13	Word[Signed]		
15	VAR_INPUT	sende_til_kanal_14	Word[Signed]		
16	VAR_INPUT	sende_til_kanal_15	Word[Signed]		

Label

5/6/2024

Data Name : skalering_paadrag

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	paadrag_fra_regulator_0	FLOAT (Single Precision)		
2	VAR_INPUT	paadrag_manuelt_1	Word[Signed]		
3	VAR_INPUT	u0_nompaadrag_fra_scada_2	Word[Signed]		
4	VAR_OUTPUT	paadrag_til_scada_0	Word[Signed]		
5	VAR_OUTPUT	frekvenspaadrag_til_omformer_1	Word[Signed]		
6	VAR_OUTPUT	ventil_paadrag_2	Word[Signed]		
7	VAR_OUTPUT	manuelt_paadrag_til_regulator_3	FLOAT (Single Precision)		
8	VAR_OUTPUT	u0_nompaadrag_til_regulator_4	FLOAT (Single Precision)		
9	VAR	DEROUND_1	DEROUND		
10	VAR	DEROUND_2	DEROUND		
11	VAR	DEROUND_3	DEROUND		

Label

5/6/2024

Data Name : skalering_referanse

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	referanse_0	Word[Signed]		
2	VAR_INPUT	glatt_referanse_1	FLOAT (Single Precision)		
3	VAR_OUTPUT	referanse_til_PID_0	FLOAT (Single Precision)		
4	VAR_OUTPUT	ref_skalert_som_tankmaaling_1	Word[Signed]		
5	VAR_OUTPUT	glatt_referanse_til_scada_2	Word[Signed]		
6	VAR	DEROUND_1	DEROUND		
7	VAR	DEROUND_2	DEROUND		

Label
Data Name : skalering_tanknivaa
Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	tanknivaa_filtretrt_0	Word[Signed]		
2	VAR_OUTPUT	tanknivaa_skalert_til_scada_0	Word[Signed]		
3	VAR_OUTPUT	tanknivaa_til_regulator_1	FLOAT (Single Precision)		
4	VAR	DEROUND_1	DEROUND		

Label

5/6/2024

Data Name : skalering_til_bruker_ven_og_omf

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	frekvenspaadrag_til_omformer_	Word[Signed]		
2	VAR_INPUT	aapning_reg_ventil_1	Word[Signed]		
3	VAR_OUTPUT	frekvens_skalert_0	Word[Signed]		
4	VAR_OUTPUT	ventil_skalert_1	Word[Signed]		
5	VAR	DEROUND_1	DEROUND		
6	VAR	DEROUND_2	DEROUND		

Label

5/6/2024

Data Name : skalering_utstroom

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	utstroom_filtret_0	Word[Signed]		
2	VAR_OUTPUT	utstroom_til_regulator_0	FLOAT (Single Precision)		
3	VAR_OUTPUT	utstroom_til_scada_1	Word[Signed]		
4	VAR	DEROUND_1	DEROUND		
5	VAR	DEROUND_2	DEROUND		

Label
Data Name : skalering_ventil
Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	ventil_input	Word[Signed]		
2	VAR_OUTPUT	ventil_regulator	FLOAT (Single Precision)		
3	VAR_OUTPUT	ventil_scada	Word[Signed]		
4	VAR	DEROUND_1	DEROUND		

Label
Data Name : Tracking
Function/FB Label Setting

5/6/2024

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	u_t	FLOAT (Single Precision)		
2	VAR_CONSTANT	u_metning	FLOAT (Single Precision)	100.00	random konstant per nå
3	VAR	u_aw	FLOAT (Single Precision)		
4	VAR	last_u_antiwindup	FLOAT (Single Precision)		
5	VAR_OUTPUT	u_antiwindup	FLOAT (Single Precision)		
6	VAR_INPUT	Ts	Word[Signed]		
7	VAR_INPUT	T_tracking	Word[Signed]		default: 0.87
8	VAR_INPUT	last_u	FLOAT (Single Precision)		
9	VAR	u_rf	FLOAT (Single Precision)		
10	VAR_INPUT	aw_på	Bit		
11	VAR	last_u_rykkfri	FLOAT (Single Precision)		
12	VAR	Ts_ut	FLOAT (Single Precision)		
13	VAR	T_tut	FLOAT (Single Precision)		
14	VAR_INPUT	reset	Bit		
15	VAR_INPUT	ui	FLOAT (Single Precision)		
16	VAR_OUTPUT	u_it	FLOAT (Single Precision)		
17	VAR	last_u_it	FLOAT (Single Precision)		
18	VAR_OUTPUT	u_rykkfri	FLOAT (Single Precision)		

Label
Data Name : utganger
Function/FB Label Setting

5/6/2024

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	tvangstyr_startsignal_frekv_0	Bit		
2	VAR_INPUT	aktiver_magv_1_bit_1	Bit		
3	VAR_INPUT	aktiver_magv_2_bit_2	Bit		
4	VAR_INPUT	aktiver_magv_3_bit_3	Bit		
5	VAR_INPUT	kritiaskalarm_aapne_ventiler_4	Bit		
6	VAR_INPUT	kritisk_refnivaa_opnaad_slave_5	Bit		
7	VAR_INPUT	kritiskalarm_nedre_stengventil_6	Bit		
8	VAR_INPUT	under_60_nivaa_7	Bit		
9					
10	VAR_OUTPUT	fysisk_start_frekomformer_0	Bit		
11	VAR_OUTPUT	magnetventil_1_1	Bit		
12	VAR_OUTPUT	magnetventil_2_2	Bit		
13	VAR_OUTPUT	magnetventil_3_3	Bit		
14	VAR_OUTPUT	magnetventil_1_ACK_4	Bit		
15	VAR_OUTPUT	magnetventil_2_ACK_5	Bit		
16	VAR_OUTPUT	magnetventil_3_ACK_6	Bit		

Label

5/6/2024

Data Name : utregning_stasjonært_avvik

Function/FB Label Setting

	Class	Label Name	Data Type	Constant	Comment
1	VAR_INPUT	ref_skalert_til_tankmaaling_0	Word[Signed]		
2	VAR_INPUT	tanknivaa_filtret_1	Word[Signed]		
3	VAR_INPUT	start_2	Bit		
4	VAR_INPUT	ack_3	Bit		
5	VAR_OUTPUT	stasjonært_avvik_verdi_0	Word[Signed]		
6	VAR_OUTPUT	stasjonært_avvik_1	Bit		
7	VAR	myTimer	TON		

Device List
Data Name : Device List

5/6/2024

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
M100	*	*(1)		
M101	*	*(1)		
M102	*	*(1)		
M103	*	*(1)		
M104	*	*(1)		
M105	*	*(1)		
M106	*	*(1)		
M107	*	*(1)		
M108	*	*(1)		
M109	*	*(1)		
M110	*	*(1)		
M200	*	*(2)		
M201	*	*(2)		
M202	*	*(3)		
M203	*	*(1)		
M206	*	*(1)		
M209	*	*(2)		
M210	*	*(1)		
M211	*	*(2)		
M212	*	*(2)		
M214	*	*(1)		
M216	*	*(2)		
M217	*	*(1)		
M300	*	*(3)		
M301	*	*(3)		
M302	*	*(1)		
M303	*	*(2)		

Device List
Data Name : Device List

5/6/2024

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
M304	*	*(1)		
M305	*	*(3)		
M306	*	*(3)		
M307	*	*(1)		
M308	*	*(1)		
M309	*	*(1)		
M310	*	*(1)		
M312	*	*(2)		
M313	*	*(2)		
M314	*	*(1)		
M315	*	*(2)		
M316	*	*(1)		
M403	*	*(1)		
M500	*	*(2)		
M7660	*	*(17)		
M7662	*	*(17)		
M7663	*	*(1)		
M7666	*	*(1)		
M7667	*	*(1)		
M7668	*	*(2)		
M7669	*	*(1)		
M7670	*	*(1)		
M7671	*	*(11)		
M7674	*	*(3)		
M7677	*	*(1)		
M7678	*	*(1)		
M7679	*	*(1)		

Device List
Data Name : Device List

5/6/2024

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
Y004	*	*(1)		
Y005	*	*(1)		
Y006	*	*(1)		
D0	*	*(2)		
D1	*	*(1)		
D2	*	*(1)		
D4	*	*(1)		
D5	*	*(4)		
D6	*	*(1)		
D7	*	*(1)		
D8	*	*(1)		
D9	*	*(4)		
D10	*	*(3)		
D12	*	*(1)		
D13	*	*(1)		
D14	*	*(1)		
D15	*	*(1)		
D16	*	*(1)		
D17	*	*(1)		
D18	*	*(1)		
D20	*	*(1)		
D22	*	*(1)		
D23	*	*(5)		
D24	*	*(1)		
D25	*	*(2)		
D32	*	*(3)		
D33	*	*(3)		

Device List
Data Name : Device List

5/6/2024

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D34	*	*(1)		
D35	*	*(2)		
D36	*	*(1)		
D37	*	*(1)		
D38	*	*(1)		
D39	*	*(2)		
D40	*	*(2)		
D41	*	*(2)		
D42	*	*(1)		
D43	*	*(1)		
D44	*	*(1)		
D45	*	*(1)		
D46	*	*(1)		
D47	*	*(1)		
D48	*	*(1)		
D49	*	*(1)		
D50	*	*(1)		
D51	*	*(1)		
D52	*	*(1)		
D53	*	*(1)		
D54	*	*(2)		
D55	*	*(2)		
D706	*	*(5)		
D707	*	*(3)		
D708	*	*(3)		
D709	*	*(5)		
D710	*	*(5)		

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D711	*	*(2)		
D712	*	*(2)		
D713	*	*(2)		
D714	*	*(2)		
D715	*	*(11)		
D716	*	*(11)		
D717	*	*(33)		
D718	*	*(33)		
D719	*	*(66)		
D720	*	*(66)		
D721	*	*(1)		
D722	*	*(1)		
D725	*	*(6)		
D726	*	*(6)		
D727	*	*(2)		
D728	*	*(2)		
D729	*	*(2)		
D730	*	*(2)		
D731	*	*(1)		
D732	*	*(1)		
D733	*	*(1)		
D734	*	*(1)		
D735	*	*(2)		
D736	*	*(2)		
D737	*	*(2)		
D738	*	*(2)		
D739	*	*(8)		

Device List
Data Name : Device List

5/6/2024

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D740	*	*(8)		
D741	*	*(1)		
D742	*	*(1)		
D743	*	*(1)		
D744	*	*(1)		
D745	*	*(1)		
D746	*	*(1)		
D747	*	*(1)		
D748	*	*(1)		
D749	*	*(1)		
D750	*	*(1)		
D751	*	*(3)		
D752	*	*(3)		
D753	*	*(2)		
D754	*	*(2)		
D755	*	*(2)		
D756	*	*(2)		
D757	*	*(2)		
D758	*	*(2)		
D759	*	*(1)		
D760	*	*(1)		
D761	*	*(1)		
D762	*	*(1)		
D763	*	*(1)		
D764	*	*(1)		
D765	*	*(3)		
D766	*	*(3)		

Device List
Data Name : Device List

5/6/2024

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D767	*	*(3)		
D768	*	*(3)		
D769	*	*(2)		
D770	*	*(2)		
D773	*	*(1)		
D774	*	*(1)		
D775	*	*(1)		
D776	*	*(1)		
D777	*	*(2)		
D778	*	*(2)		
D779	*	*(1)		
D780	*	*(1)		
D781	*	*(2)		
D782	*	*(2)		
D783	*	*(1)		
D784	*	*(1)		
D785	*	*(1)		
D786	*	*(1)		
D787	*	*(2)		
D788	*	*(2)		
D789	*	*(1)		
D790	*	*(1)		
D791	*	*(1)		
D792	*	*(1)		
D793	*	*(1)		
D794	*	*(1)		
D795	*	*(3)		

Device List
Data Name : Device List

5/6/2024

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D796	*	*(3)		
D797	*	*(2)		
D798	*	*(2)		
D799	*	*(1)		
D800	*	*(1)		
D801	*	*(2)		
D802	*	*(2)		
D803	*	*(1)		
D804	*	*(1)		
D805	*	*(2)		
D806	*	*(2)		
D807	*	*(1)		
D808	*	*(1)		
D809	*	*(2)		
D810	*	*(2)		
D811	*	*(1)		
D812	*	*(1)		
D813	*	*(2)		
D814	*	*(2)		
D815	*	*(1)		
D816	*	*(1)		
D817	*	*(2)		
D818	*	*(2)		
D819	*	*(1)		
D820	*	*(1)		
D821	*	*(2)		
D822	*	*(2)		

Device List
Data Name : Device List

5/6/2024

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D823	*	*(2)		
D824	*	*(2)		
D825	*	*(1)		
D826	*	*(1)		
D827	*	*(1)		
D828	*	*(1)		
D829	*	*(2)		
D830	*	*(2)		
D831	*	*(1)		
D832	*	*(1)		
D833	*	*(2)		
D834	*	*(2)		
D835	*	*(1)		
D836	*	*(1)		
D837	*	*(2)		
D838	*	*(2)		
D839	*	*(16)		
D840	*	*(2)		
D841	*	*(2)		
D842	*	*(13)		
D843	*	*(13)		
D844	*	*(51)		
D845	*	*(51)		
D846	*	*(98)		
D847	*	*(98)		
D848	*	*(2)		
D849	*	*(2)		

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D850	*	*(1)		
D851	*	*(1)		
D852	*	*(1)		
D853	*	*(1)		
D860	*	*(2)		
D861	*	*(2)		
D862	*	*(1)		
D863	*	*(1)		
D864	*	*(1)		
D865	*	*(1)		
D866	*	*(2)		
D867	*	*(2)		
D868	*	*(1)		
D869	*	*(1)		
D870	*	*(1)		
D871	*	*(1)		
D880	*	*(2)		
D881	*	*(2)		
D882	*	*(1)		
D883	*	*(1)		
D884	*	*(1)		
D885	*	*(1)		
D886	*	*(2)		
D887	*	*(2)		
D888	*	*(1)		
D889	*	*(1)		
D890	*	*(1)		

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D891	*	*(1)		
D892	*	*(2)		
D893	*	*(2)		
D894	*	*(1)		
D895	*	*(1)		
D896	*	*(1)		
D897	*	*(1)		
D898	*	*(2)		
D899	*	*(2)		
D900	*	*(1)		
D901	*	*(1)		
D902	*	*(1)		
D903	*	*(1)		
D904	*	*(2)		
D905	*	*(2)		
D906	*	*(1)		
D907	*	*(1)		
D908	*	*(1)		
D909	*	*(1)		
D916	*	*(2)		
D917	*	*(2)		
D918	*	*(1)		
D919	*	*(1)		
D920	*	*(1)		
D921	*	*(1)		
D964	*	*(2)		
D965	*	*(2)		

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D966	*	*(1)		
D967	*	*(1)		
D968	*	*(1)		
D969	*	*(1)		
D970	*	*(1)		
D971	*	*(1)		
D972	*	*(1)		
D973	*	*(1)		
D974	*	*(1)		
D975	*	*(1)		
D976	*	*(1)		
D977	*	*(1)		
D978	*	*(1)		
D979	*	*(1)		
D980	*	*(1)		
D981	*	*(1)		
D982	*	*(2)		
D983	*	*(2)		
D984	*	*(1)		
D985	*	*(1)		
D986	*	*(1)		
D987	*	*(1)		
D988	*	*(1)		
D989	*	*(1)		
D990	*	*(1)		
D991	*	*(1)		
D992	*	*(1)		

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
D993	*	*(1)		
D994	*	*(1)		
D995	*	*(1)		
D996	*	*(1)		
D997	*	*(1)		
D998	*	*(1)		
D999	*	*(1)		
T0	*	*(1)		
T1	*	*(1)		
T2	*	*(1)		
T3	*	*(1)		
T5	*	*(1)		
P2049	*	*(1)		
P2050	*	*(1)		
P2051	*	*(1)		
P2052	*	*(1)		
P2053	*	*(1)		
P2054	*	*(1)		
P2055	*	*(1)		
P2056	*	*(1)		
P2057	*	*(1)		
P2058	*	*(1)		
P2059	*	*(1)		
P2060	*	*(1)		
P2061	*	*(1)		
P2062	*	*(1)		
P2063	*	*(1)		

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
P2064	*	*(1)		
P2065	*	*(2)		
P2066	*	*(1)		
P2067	*	*(1)		
P2068	*	*(1)		
P2069	*	*(1)		
P2070	*	*(1)		
P2071	*	*(1)		
P2072	*	*(1)		
P2073	*	*(1)		
P2074	*	*(1)		
P2075	*	*(1)		
P2076	*	*(1)		
P2077	*	*(1)		
P2078	*	*(1)		
P2079	*	*(1)		
P2080	*	*(1)		
P2081	*	*(1)		
P2082	*	*(1)		
P2083	*	*(1)		
P2084	*	*(1)		
P2085	*	*(1)		
P2087	*	*(1)		
P2088	*	*(1)		
P2089	*	*(1)		
P2090	*	*(1)		
P2091	*	*(1)		

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
P2092	*	*(1)		
P2093	*	*(1)		
P2094	*	*(1)		
P2095	*	*(6)		
P2096	*	*(1)		
P2097	*	*(1)		
P2098	*	*(1)		
P2099	*	*(1)		
P2100	*	*(1)		
P2101	*	*(1)		
P2102	*	*(1)		
P2103	*	*(2)		
P2104	*	*(1)		
P2105	*	*(1)		
P2106	*	*(1)		
P2107	*	*(2)		
P2108	*	*(1)		
P2109	*	*(2)		
P2110	*	*(1)		
P2111	*	*(4)		
P2112	*	*(1)		
P2113	*	*(1)		
P2114	*	*(1)		
P2115	*	*(1)		
P2116	*	*(1)		
P2117	*	*(1)		
P2118	*	*(2)		

Device List
Data Name : Device List

Find In:(Entire project)
Find What:Used Device (Contact & Coil)
Print Range:Whole Range

*:in use, (counts): the number of coil uses

Device	Contact	Coil (counts)	Parameter	Comment
P2119	*	*(1)		
P2120	*	*(2)		

Project Contents List

5/6/2024

Data Name : Project Contents List

Workspace Name :

Project Name : Slave_V37_FERDIG

Title :

Data Name	Last Change	Title
Parameter	3/5/2024 10:23:13 AM	
PLC Parameter	3/5/2024 10:23:13 AM	
Network Parameter	3/5/2024 10:23:13 AM	
CC-Link	3/5/2024 10:23:13 AM	
Special Module(Intelligent Function Module)	3/5/2024 10:23:13 AM	
Global Device Comment	3/5/2024 10:23:19 AM	
Global Label	5/2/2024 12:09:25 AM	
Global1	5/2/2024 12:09:25 AM	
Program Setting		
Execution Program		
MAIN	5/2/2024 12:25:22 AM	
stroombrudd	5/2/2024 12:25:22 AM	
stroombrudd	5/3/2024 9:50:42 AM	
Program	5/3/2024 9:50:42 AM	
Local Label	5/2/2024 12:24:30 AM	
Task_01	4/23/2024 12:29:01 PM	
POU_01	5/6/2024 11:18:53 AM	
Program	5/6/2024 11:18:53 AM	
Local Label	5/1/2024 10:34:40 PM	
task_2	4/23/2024 12:31:54 PM	
Regulator	5/1/2024 6:55:26 PM	
Program	5/1/2024 6:55:26 PM	
Local Label	4/25/2024 2:06:58 PM	
POU		
Program	5/2/2024 12:24:30 AM	
POU_01	5/6/2024 11:18:53 AM	
Program	5/6/2024 11:18:53 AM	
Local Label	5/1/2024 10:34:40 PM	

Project Contents List

5/6/2024

Data Name : Project Contents List

Workspace Name :

Project Name : Slave_V37_FERDIG

Title :

Data Name	Last Change	Title
Regulator	5/1/2024 6:55:26 PM	
Program	5/1/2024 6:55:26 PM	
Local Label	4/25/2024 2:06:58 PM	
stroombrudd	5/3/2024 9:50:42 AM	
Program	5/3/2024 9:50:42 AM	
Local Label	5/2/2024 12:24:30 AM	
FB/FUN	5/1/2024 10:32:27 PM	
alarmgrenser	5/1/2024 11:40:39 PM	
Program	4/29/2024 3:29:49 AM	
Local Label	5/1/2024 11:40:39 PM	
DEROUND	4/19/2024 6:57:50 PM	
Program	4/19/2024 6:57:50 PM	
Local Label	4/19/2024 6:39:10 PM	
handling_ved_kritisk_alarm	5/6/2024 12:21:27 PM	
Program	5/6/2024 12:21:27 PM	
Local Label	4/30/2024 10:31:52 AM	
kritisk_refnivaa_oppnaad	5/6/2024 12:12:56 PM	
Program	5/6/2024 12:12:56 PM	
Local Label	5/1/2024 11:40:04 PM	
kvittering_av_alarmer	5/6/2024 1:12:40 PM	
Program	5/6/2024 1:12:40 PM	
Local Label	4/30/2024 9:56:37 AM	
Lampe_Alarm	5/2/2024 12:09:40 AM	
Program	5/1/2024 6:55:26 PM	
Local Label	5/2/2024 12:09:40 AM	
lavpass_filter_tanknivaa	5/1/2024 10:34:16 PM	
Program	5/1/2024 10:34:16 PM	
Local Label	5/1/2024 10:33:53 PM	

Project Contents List

5/6/2024

Data Name : Project Contents List

Workspace Name :

Project Name : Slave_V37_FERDIG

Title :

Data Name	Last Change	Title
lavpass_filter_utstrøm	5/1/2024 10:40:11 PM	
Program	5/1/2024 10:31:59 PM	
Local Label	5/1/2024 10:40:11 PM	
Lead_lag	5/1/2024 2:39:04 PM	
Program	5/1/2024 2:39:04 PM	
Local Label	5/1/2024 1:57:36 PM	
mottak_av_data_fra_master	5/6/2024 12:21:27 PM	
Program	5/6/2024 12:21:27 PM	
Local Label	4/28/2024 9:36:53 PM	
PID_regulator	5/1/2024 4:43:22 PM	
Program	5/1/2024 4:43:22 PM	
Local Label	5/1/2024 4:20:42 PM	
Referanseglatter	4/30/2024 12:12:51 PM	
Program	4/25/2024 9:26:44 PM	
Local Label	4/30/2024 12:12:51 PM	
reguleringsmodus	4/30/2024 9:37:01 AM	
Program	4/30/2024 9:37:01 AM	
Local Label	4/30/2024 9:25:21 AM	
sending_av_data_til_master	4/30/2024 9:46:53 AM	
Program	4/30/2024 9:46:53 AM	
Local Label	4/28/2024 10:39:29 PM	
skalering_paadrag	5/1/2024 6:55:26 PM	
Program	5/1/2024 6:55:26 PM	
Local Label	5/1/2024 6:51:54 PM	
skalering_referanse	5/1/2024 6:55:26 PM	
Program	5/1/2024 6:55:26 PM	
Local Label	5/1/2024 6:41:33 PM	
skalering_tanknivaa	5/1/2024 6:37:21 PM	

Project Contents List
Data Name : Project Contents List

5/6/2024

Workspace Name :
Project Name : Slave_V37_FERDIG
Title :

Data Name	Last Change	Title
Program	5/1/2024 6:37:21 PM	
Local Label	5/1/2024 6:35:46 PM	
skalering_til Bruker_ven_og_omf	5/1/2024 10:26:25 PM	
Program	5/1/2024 10:26:25 PM	
Local Label	5/1/2024 6:54:58 PM	
skalering_utstroom	5/1/2024 10:38:45 PM	
Program	5/1/2024 10:38:45 PM	
Local Label	5/1/2024 6:39:26 PM	
skalering_ventil	4/24/2024 6:04:07 PM	
Program	4/24/2024 6:04:07 PM	
Local Label	4/24/2024 4:06:54 PM	
Tracking	4/25/2024 6:06:33 PM	
Program	4/25/2024 6:06:33 PM	
Local Label	4/25/2024 6:01:42 PM	
utganger	4/30/2024 10:38:54 AM	
Program	4/30/2024 10:38:54 AM	
Local Label	4/30/2024 10:34:15 AM	
utregning_stasjonært_avvik	5/1/2024 6:34:55 PM	
Program	5/1/2024 6:34:55 PM	
Local Label	5/1/2024 6:24:02 PM	
Structured Data Types	3/5/2024 10:23:13 AM	
Local Device Comment		
Device Memory	3/5/2024 10:23:20 AM	
MAIN	3/5/2024 10:23:20 AM	