

# Geniox Core Control system 43.04.02 (230V)

Dokumenter vist på de nedenstående sider

Projekt forside: side 1

Hurtig vejledning: side 2

Generel beskrivelse: side 3-4

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AHU med intern indkapsling:

Indkapsling er altid placeret indvendig i AHU

Aggregat data oversigt.

Varmeveksler type:

Se data i vedhæftet bilag - Tekniske data

Varmebatteri type:

Se data i vedhæftet bilag - Tekniske data

Kølebatteri type:

Se data i vedhæftet bilag - Tekniske data

Elektriske data:

Totalt optaget effekt: Se ordre bekræftelse

Ventilator sikring størrelse: Se ordre bekræftelse

Tilluft ventilator kabel impedans: Se ordre bekræftelse

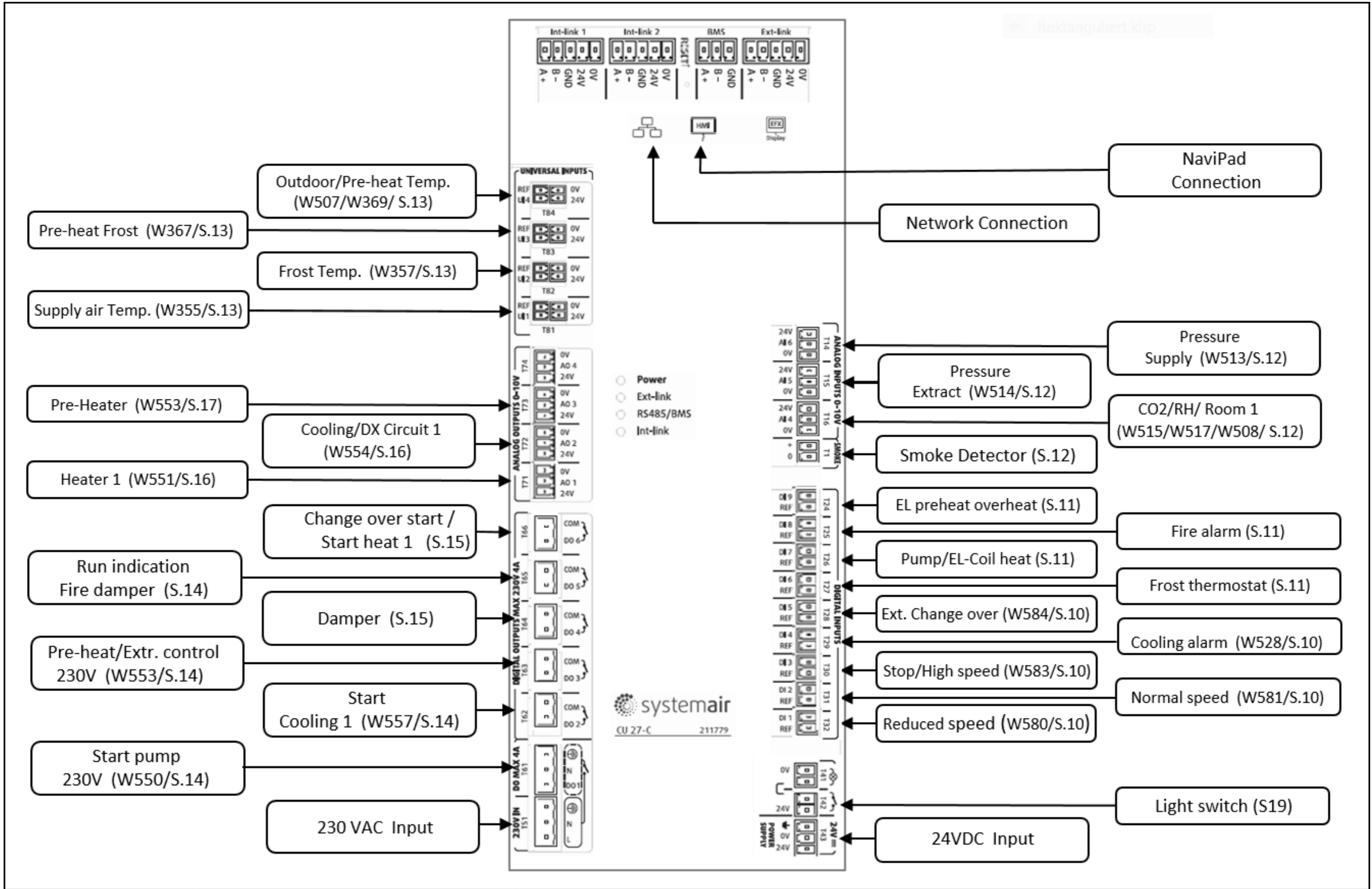
Fraluft ventilator kabel impedans: Se ordre bekræftelse

Max forsikring Se ordre bekræftelse

Ik max på sikring i anlæg: 6 kA

Producent:

Systemair A/S Danmark  
Ved Milepælen 7  
8361 Hasselager



Symboler er iht. IEC 60617.

På de følgende 2 sider, er der beskrivelse af benyttede symboler i projektet.

Lednings farvekode	
Sort - BK	
Brun - BN	
Rød - RD	
Orange - OG	
Gul - YE	
Grøn - GN	
Blå - BU	
Violet - V	
Grå - GY	
Hvid - WH	
Pink - PK	
Transparent - TP	
Grøn/gul - PE	

L1:1 > Referencer

-X2:1 ⚡ Klemme

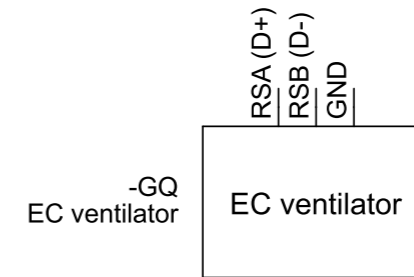
-EA ⦿ Lampe

-SF ⚡ Koblingsudstyr

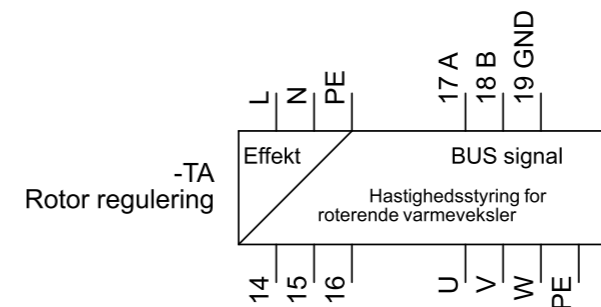
-BP Ⓜ Tryktransmitter

-BP Ⓜ Pressostat

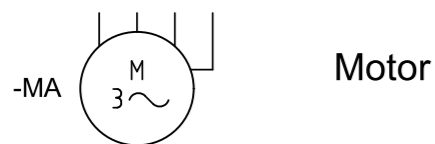
-F ⚡ Automatsikring,



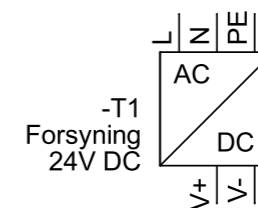
EBM EC ventilator



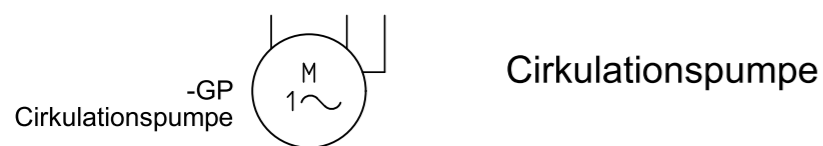
Roterende varmeveksler



Motor



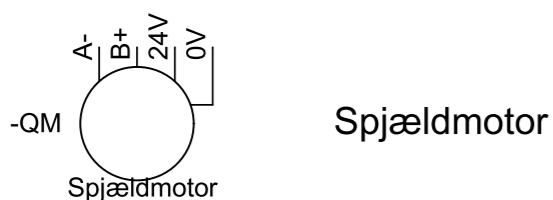
Forsyning



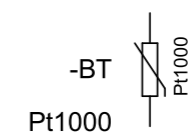
Cirkulationspumpe



Brandvagt



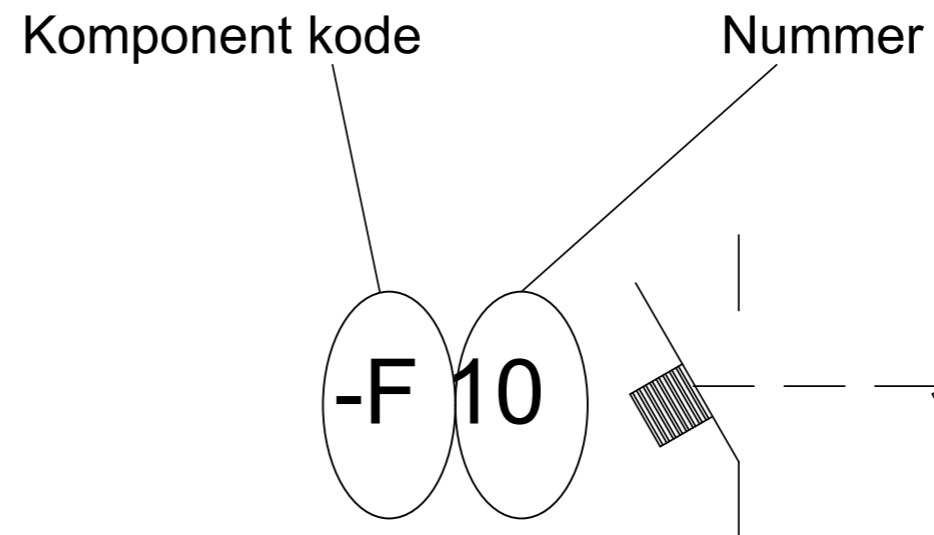
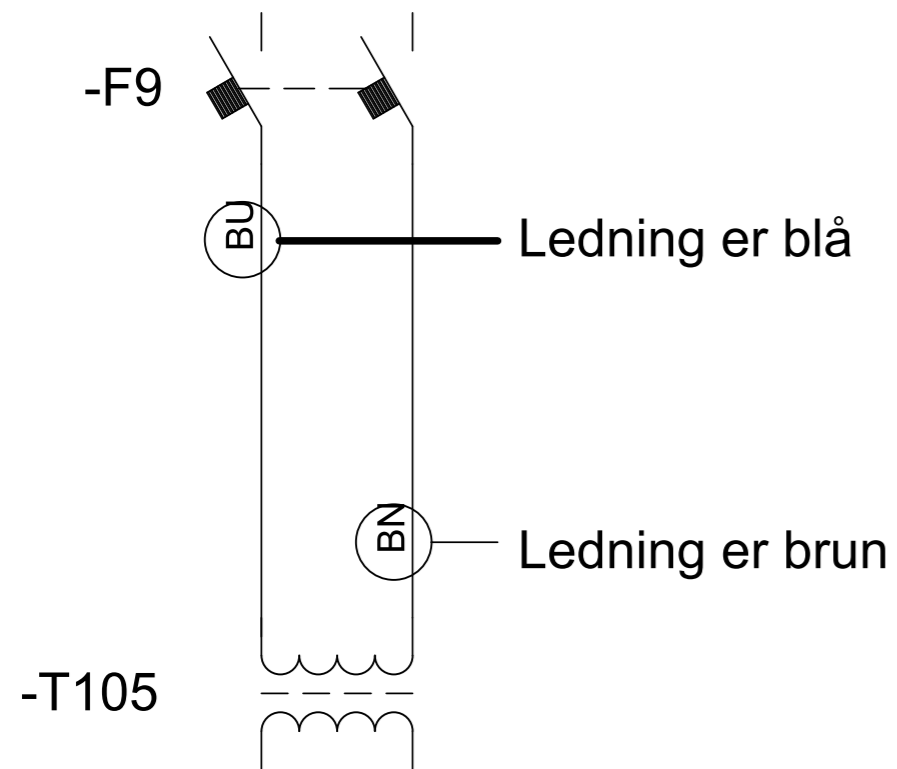
Spjældmotor

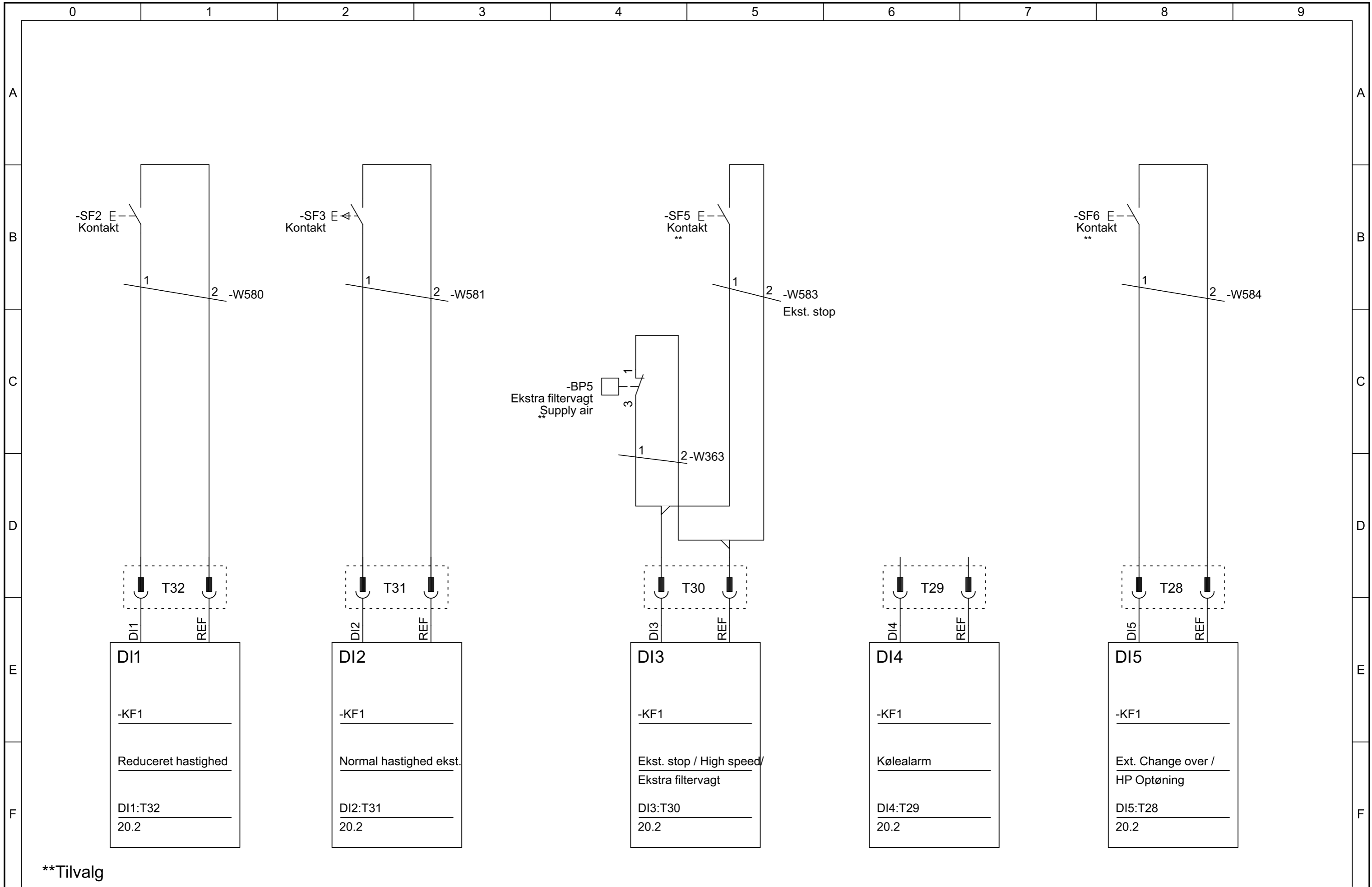


Temperatur (måling)

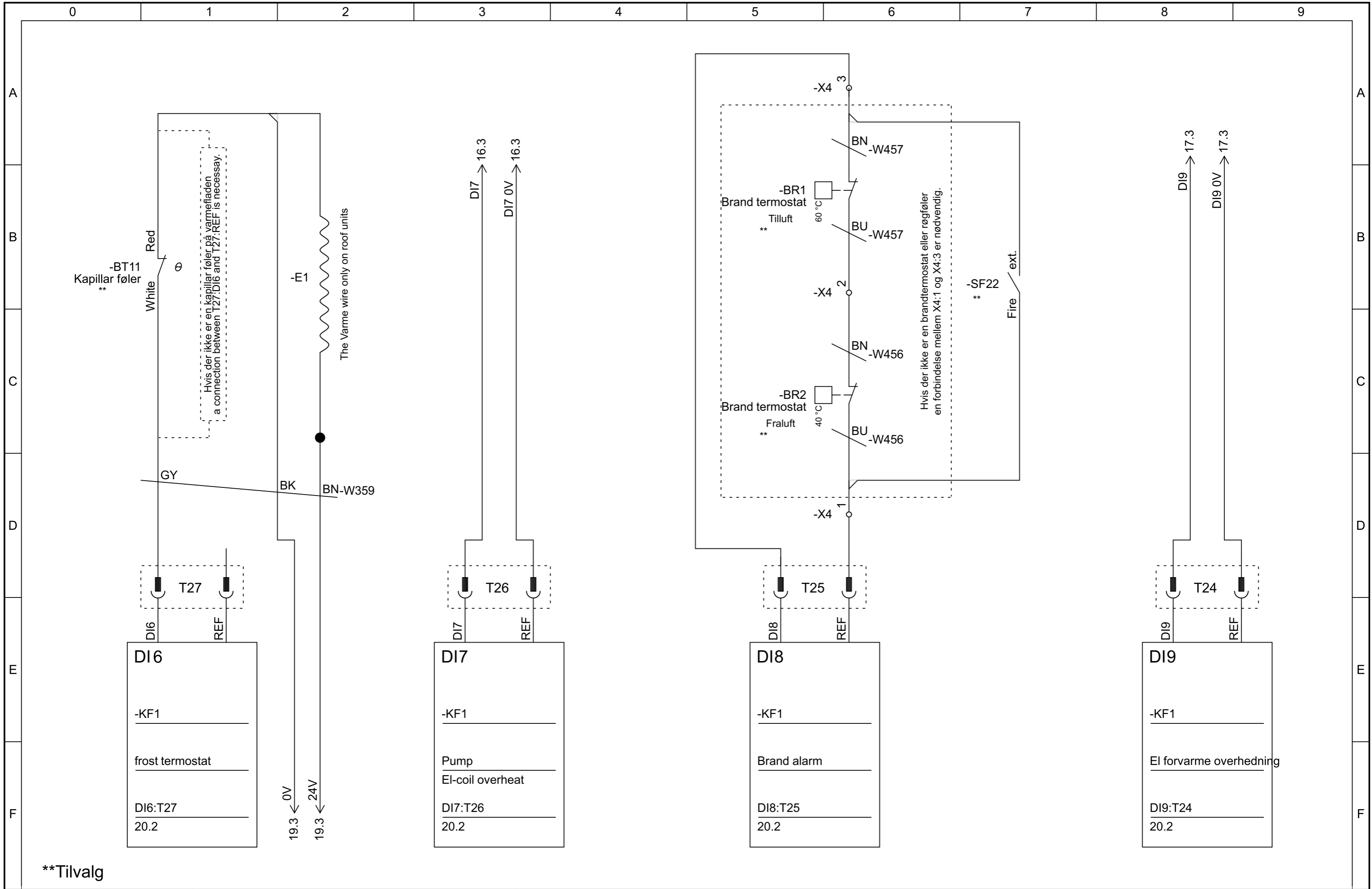
Labeling of wires  
are marked with  
Klemme name

Komponenter er mærket med komponent koder  
efterfulgt af et nummer iht. IEC 61346-1 Tabel 1

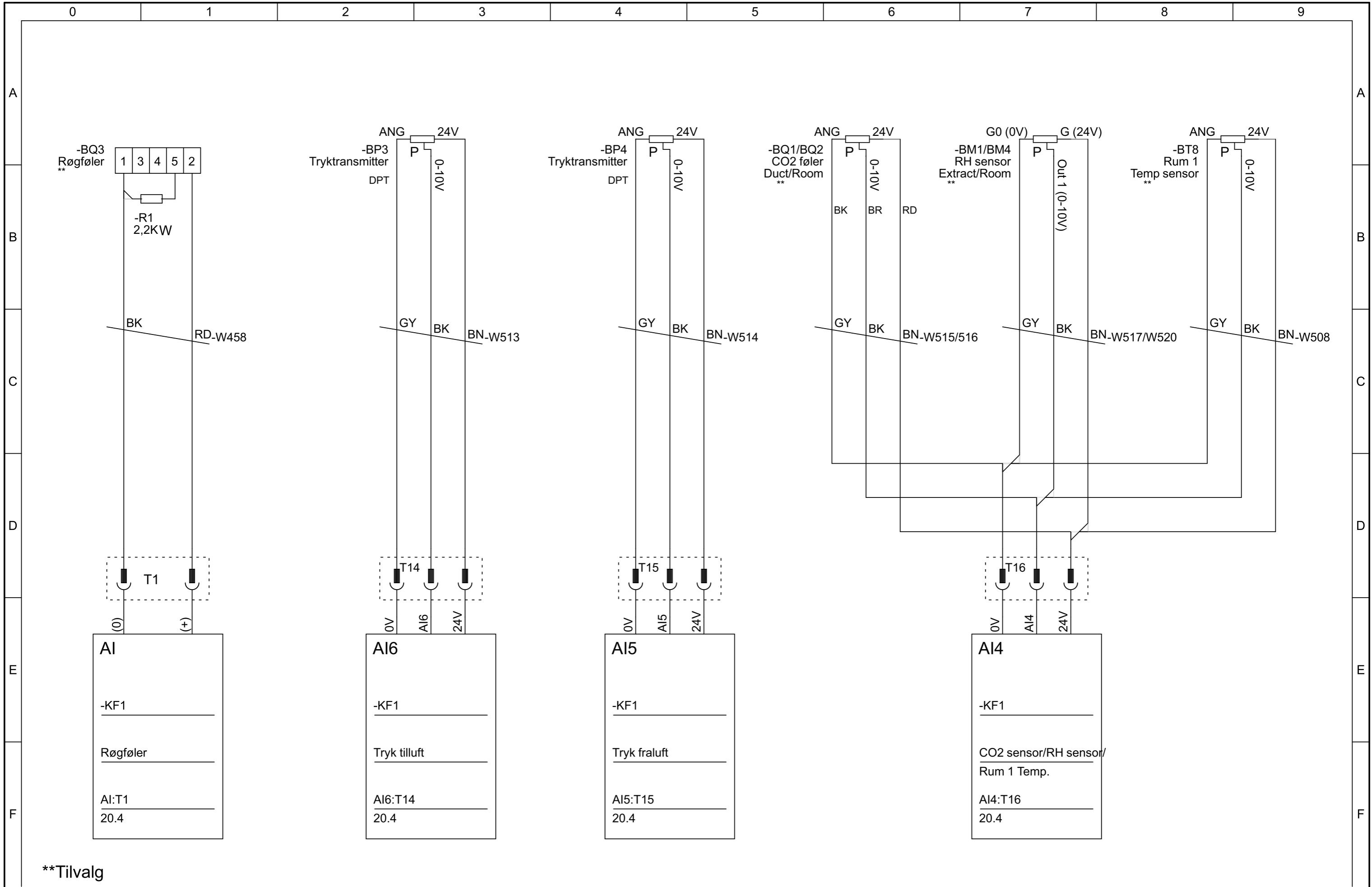




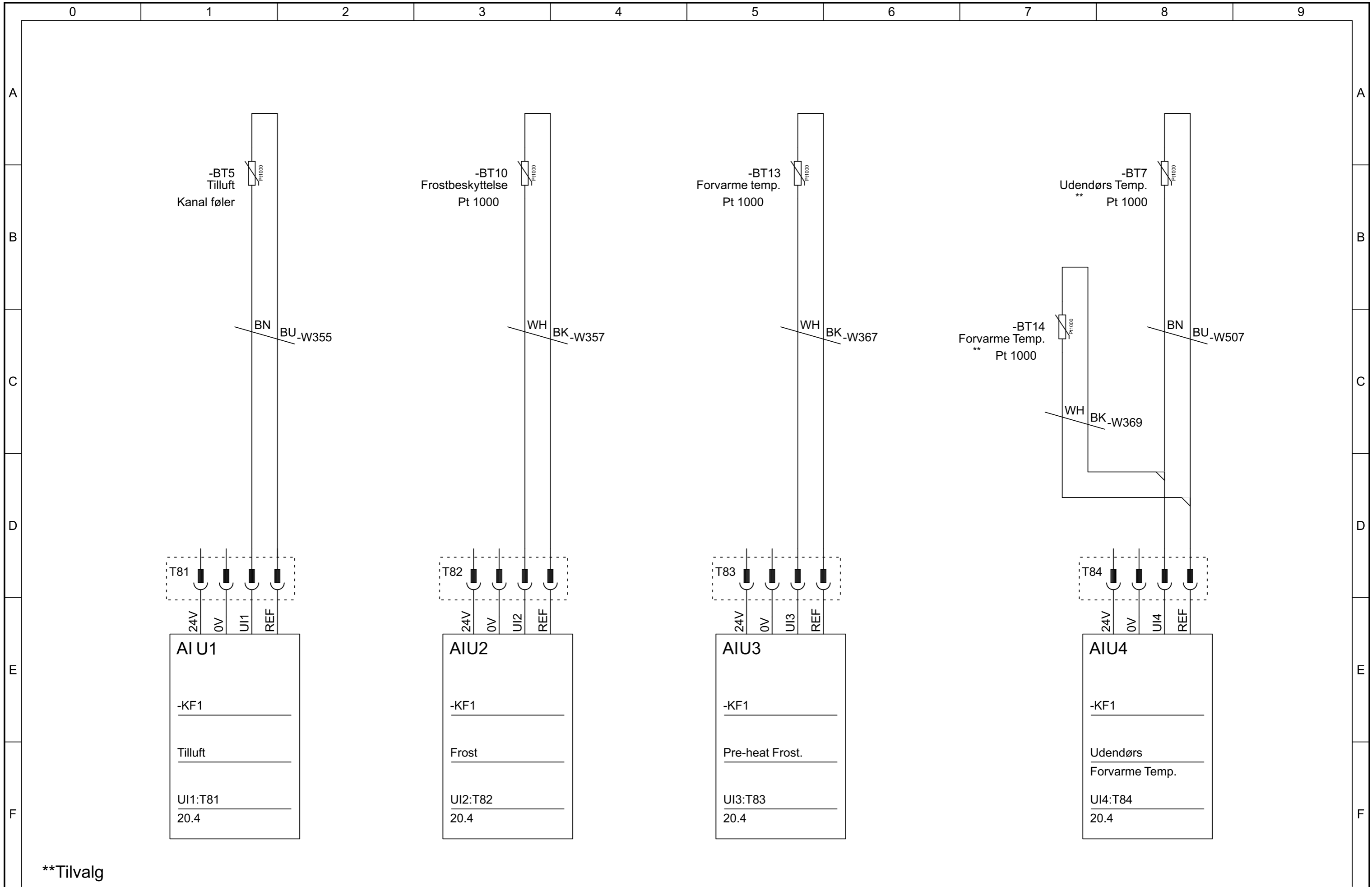
\*\*Tilvalg



\*\*Tilvalg



\*\*Tilvalg



\*\*Tilvalg



Geniox  
Access CU27 Regulator

External connections UI

Projekt:

Geniox-Core CS 43.04.02 230V DK

Rev.:

43.04.02

Blad:

13

Dato:

06-11-2019

Initialer:

MIKE

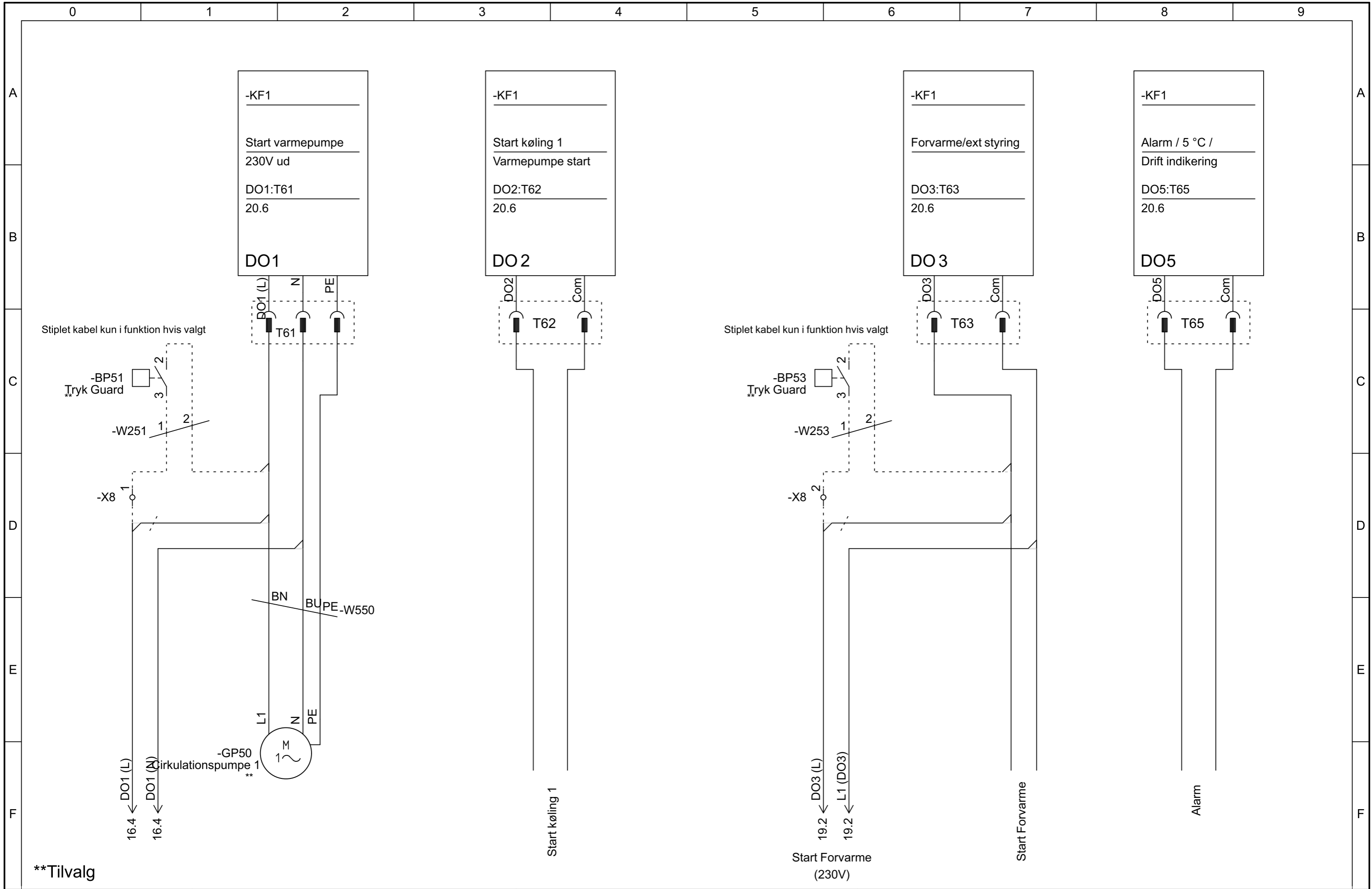
Antal sider:

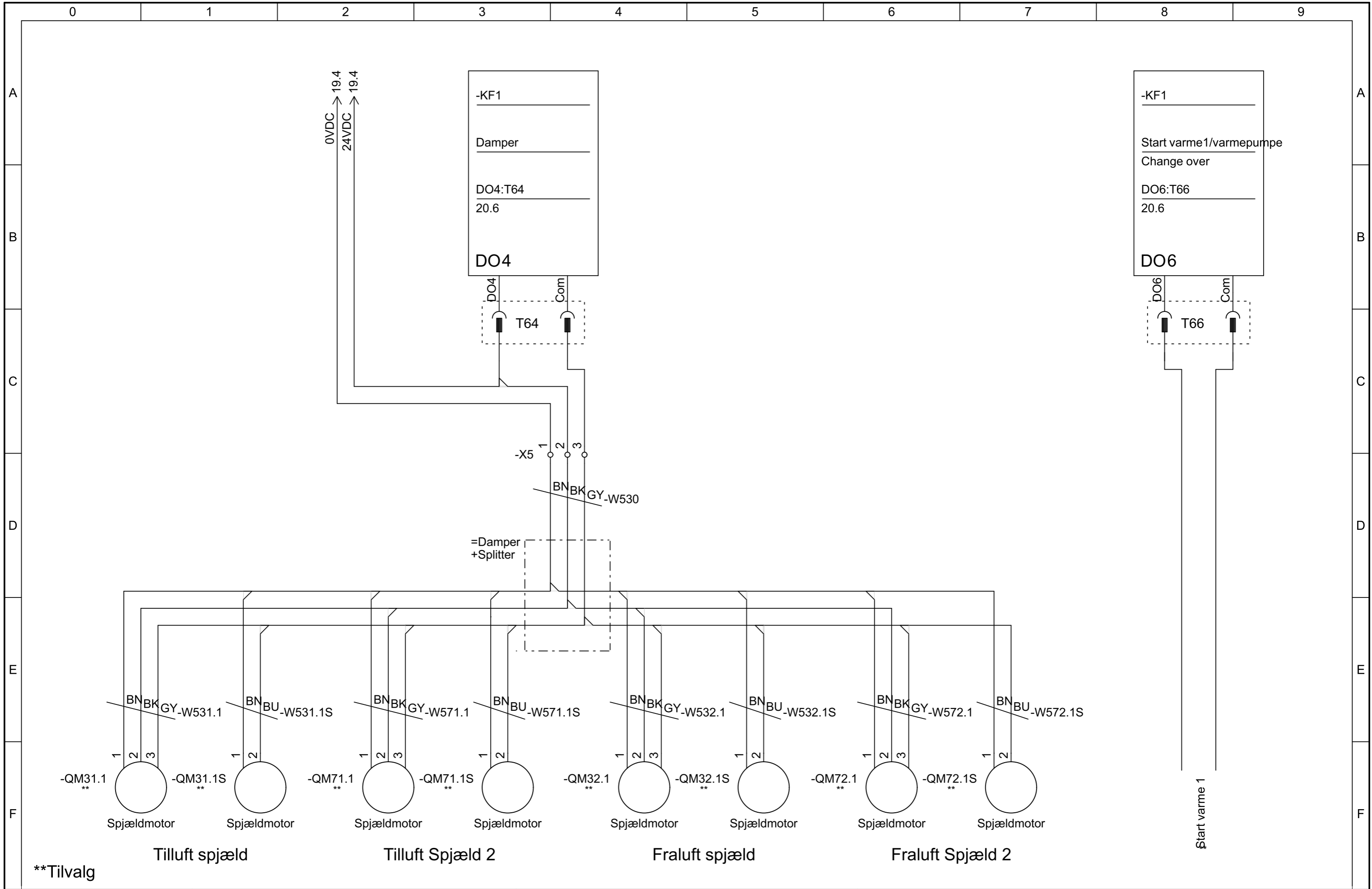
17

Næste side

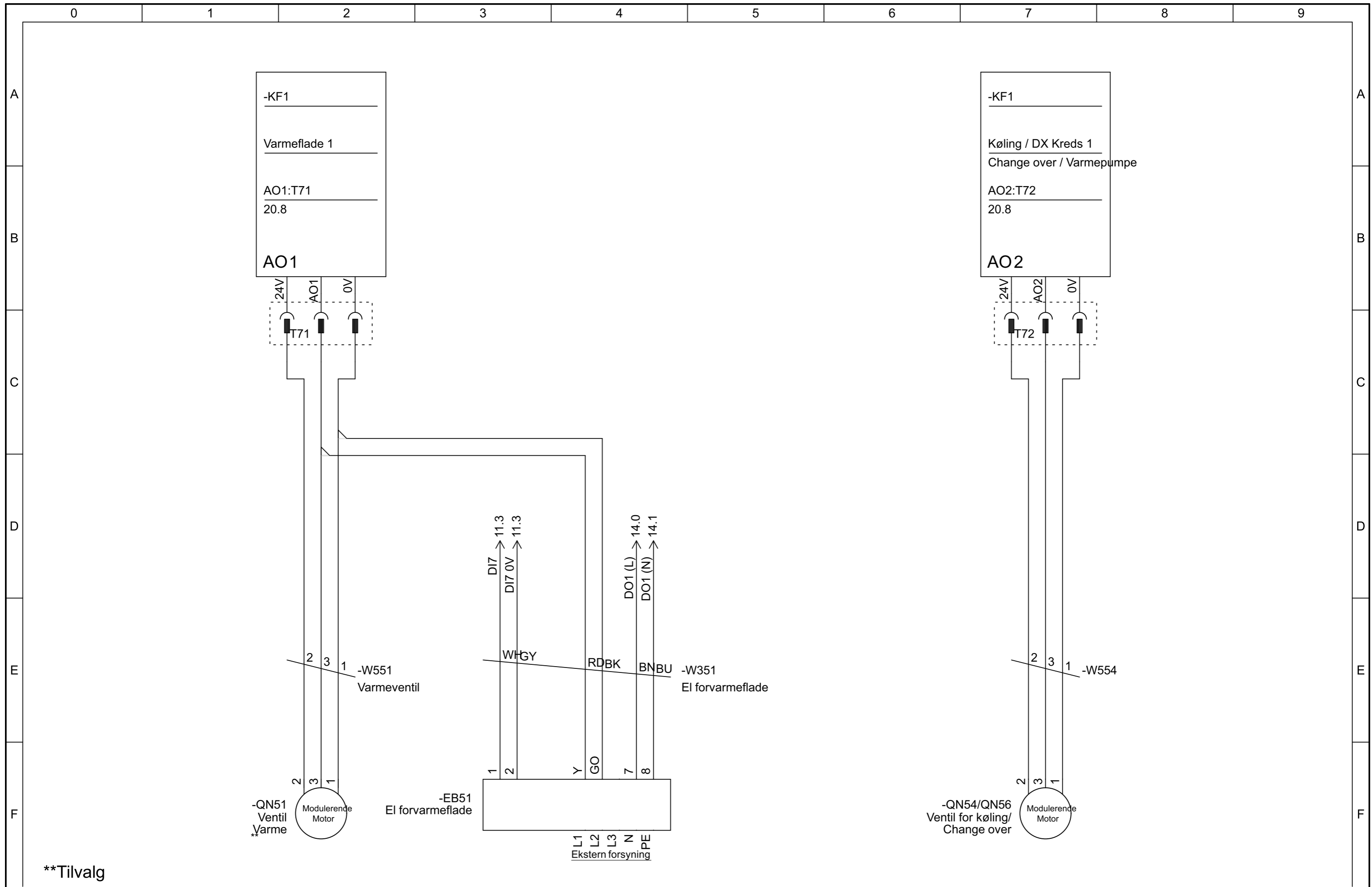
14



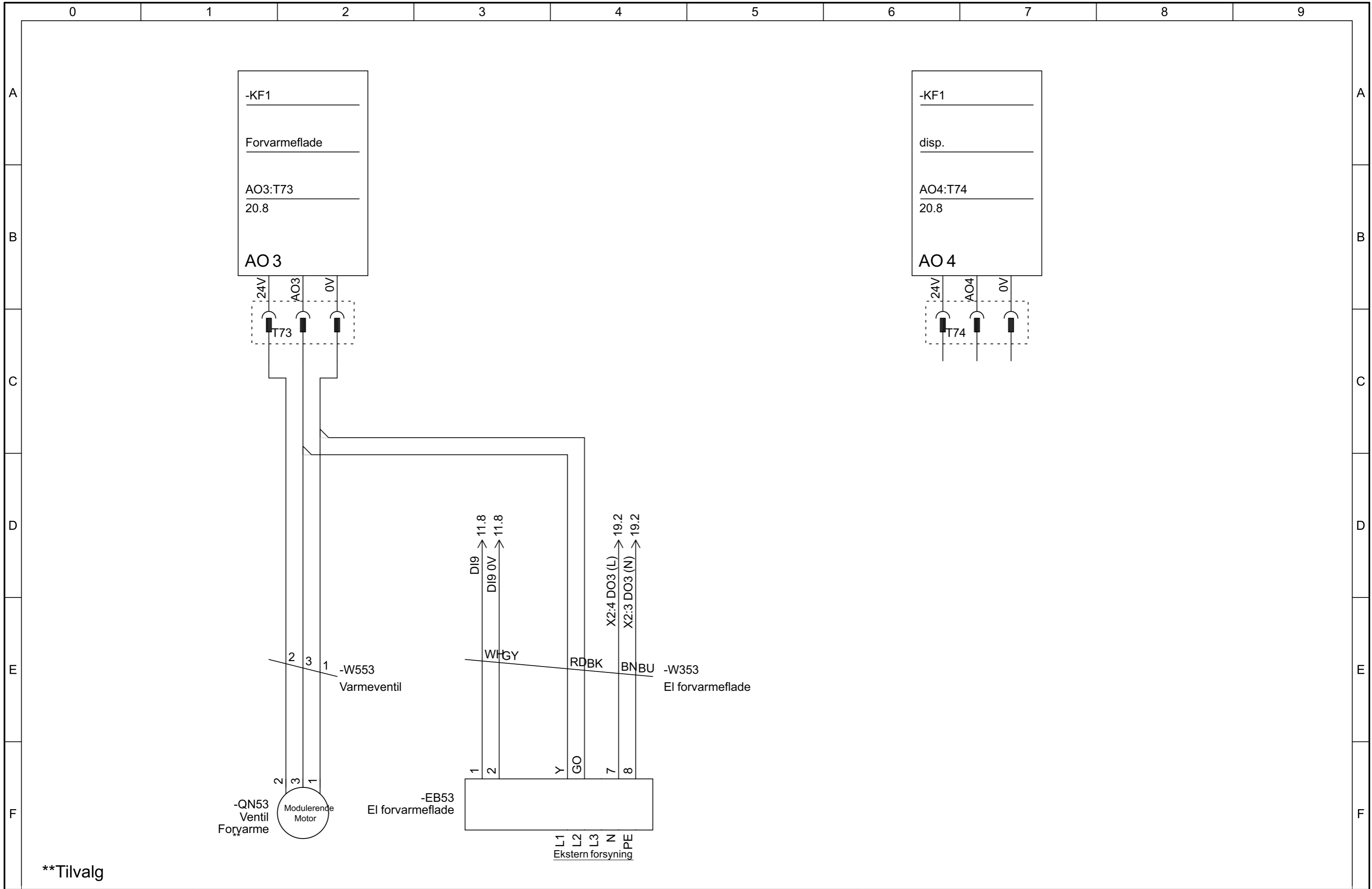


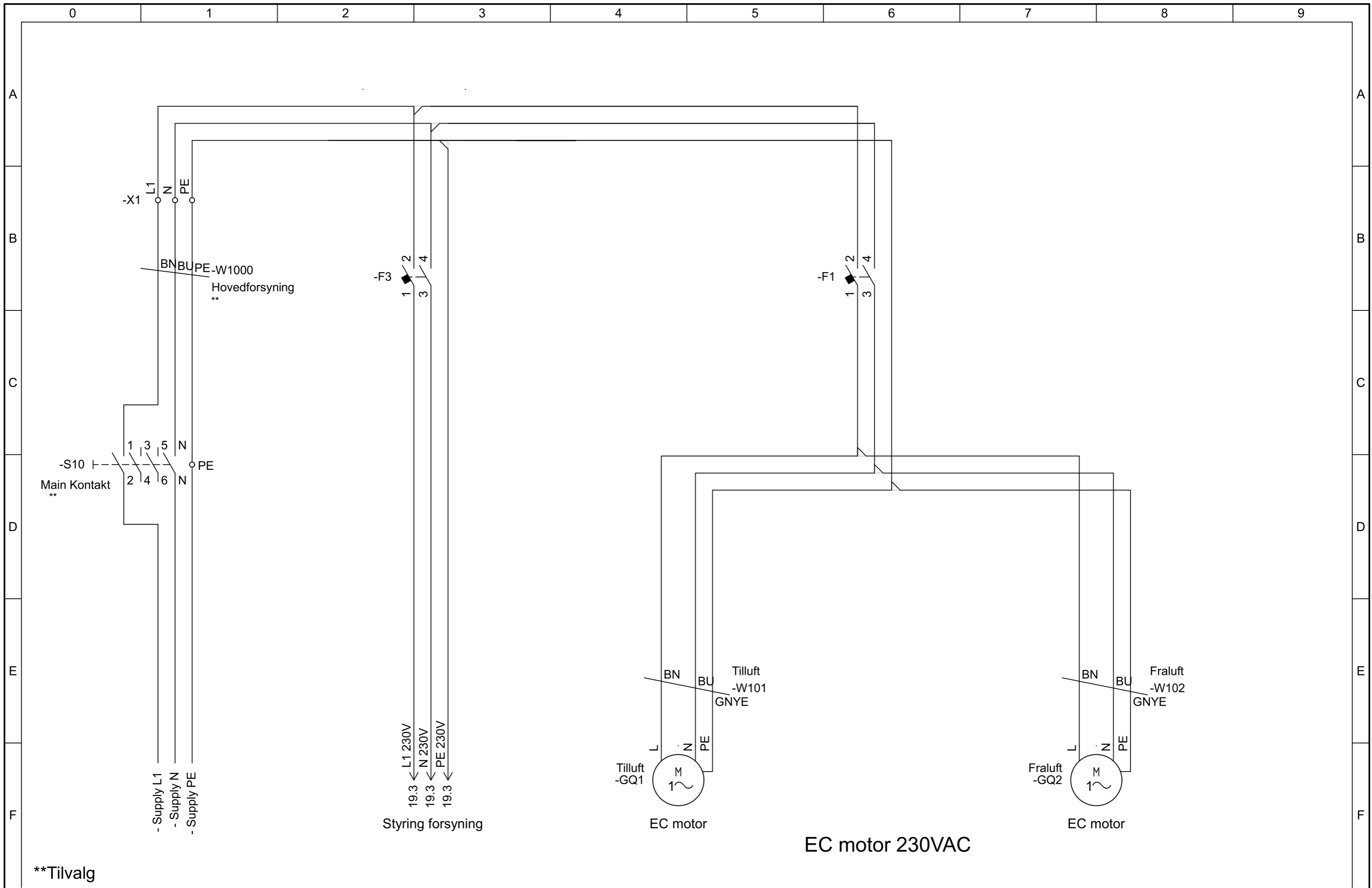


\*\*Tilvalg




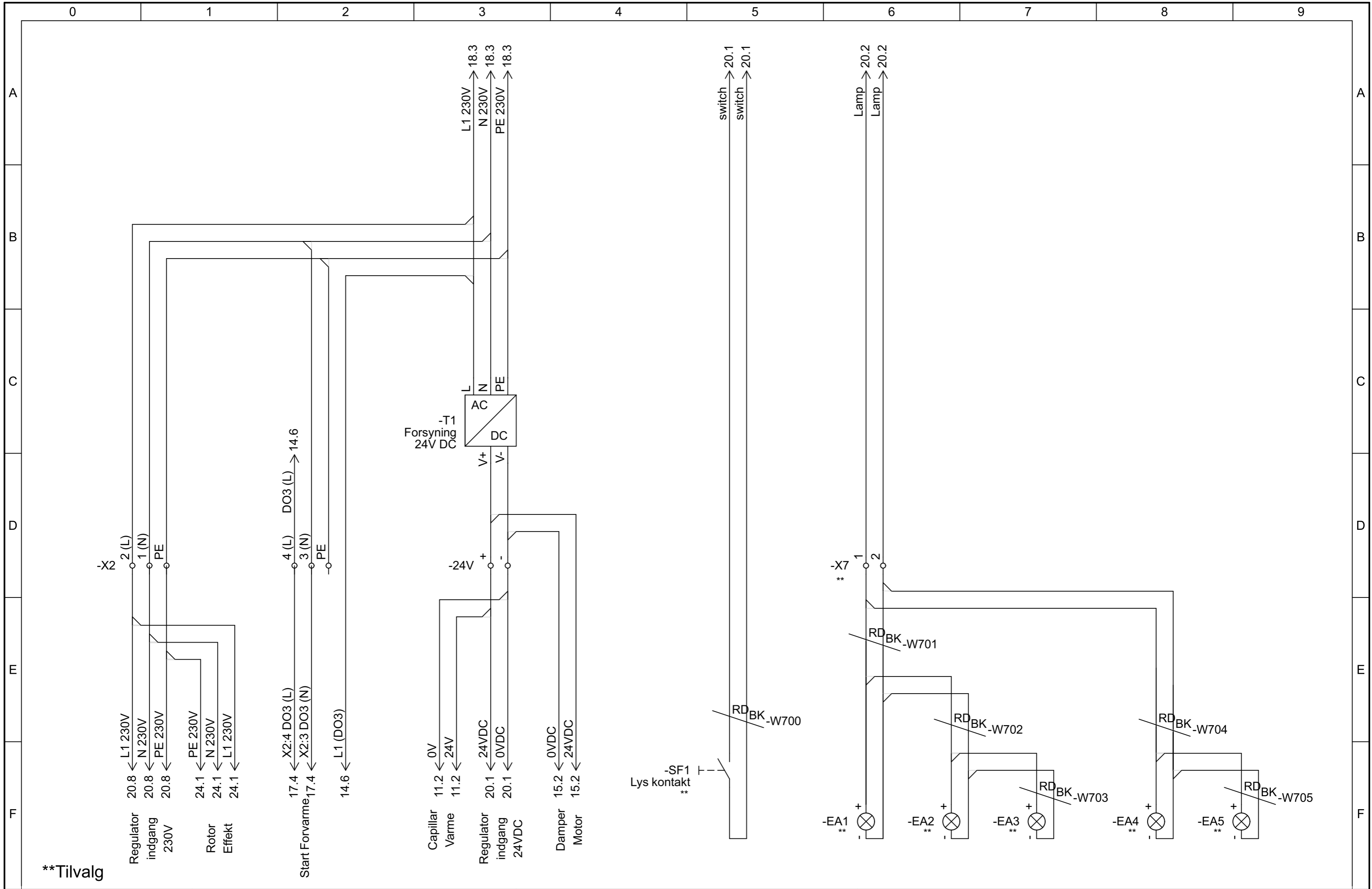
\*\*Tilvalg





\*\*Tilvalg

	Geniox Access CU27 Regulator	Main Effekt EC ventilator	Projekt: Geniox-Core CS 43.04.02 230V DK	Rev.: 43.04.02	Blad: 18
			Dato: 06-11-2019	Initialer: MIKE	Antal sider: 17



\*\*Tilvalg

-KF1

### Access CU27 Regulator

### Systemair A/S

DI1:T32 10.1 DI1  
Reduceret hastighed



AI:T1 12.0 (0)  
Røgføler



DO1:T61 14.1 DO1 (L)  
Start varmpumpe  
230V ud



AO1:T71 16.2 24V  
Varmeflade 1



DI2:T31 10.2 DI2  
Normal hastighed ekst.



AI6:T14 12.2 0V  
Tryk tilluft



DO2:T62 14.3 DO2  
Start køling 1  
Varmepumpe start



AO2:T72 16.7 24V  
Køling / DX Kreds 1  
Change over / Varmepumpe



DI3:T30 10.4 DI3  
Ekst. stop / High speed/  
Ekstra filtervagt



AI5:T15 12.4 0V  
Tryk fraluft



DO3:T63 14.6 DO3  
Forvarme/ext styring



AO3:T73 17.1 24V  
Forvarmeflade



DI4:T29 10.6 DI4  
Kølealarm



AI4:T16 12.7 0V  
CO2 sensor/RH sensor/



DO4:T64 15.3 DO4  
Damper



AO4:T74 17.6 24V  
disp.



DI5:T28 10.8 DI5  
Ext. Change over /  
HP Optøning



DO5:T65 14.8 DO5  
Alarm / 5 °C /  
Drift indikering



DI6:T27 11.1 DI6  
frost termostat



UI1:T81 13.1 24V  
Tilluft



DO6:T66 15.8 DO6  
Start varme1/varmpumpe  
Change over



DI7:T26 11.3 DI7  
Pump  
EI-coil overheat



UI2:T82 13.3 24V  
Frost



DI8:T25 11.5 DI8  
Brand alarm



UI3:T83 13.5 24V  
Pre-heat Frost.



DI9:T24 11.8 DI9  
EI forvarme overhedning



UI4:T84 13.8 24V  
Udendørs  
Forvarme Temp.



24VDC Ind

Light

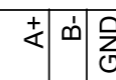
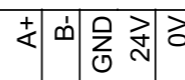
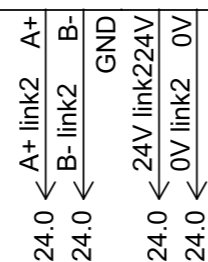
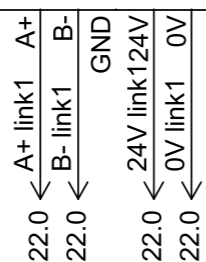
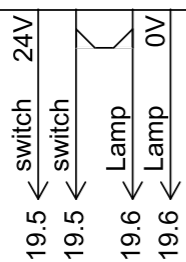
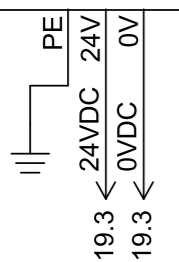
Int-link 1

Int-link 2

Ext-link

BMS

230V Ind



Geniox  
Access CU27 Regulator

Access CU27 Regulator

Projekt: Geniox-Core CS 43.04.02 230V DK

Rev.: 43.04.02

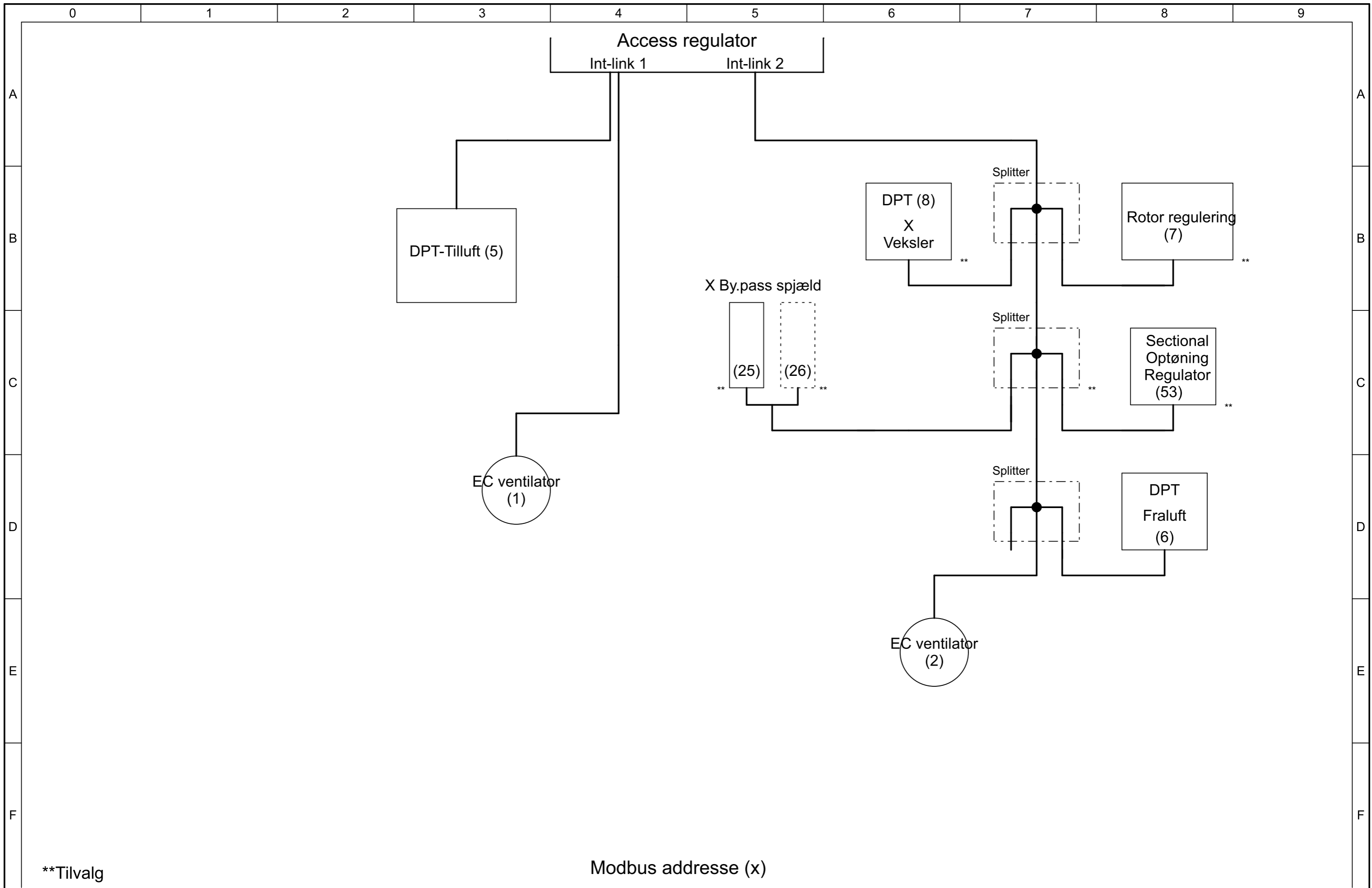
Blad: 20

Dato: 06-11-2019

Initialer: MIKE

Antal sider: 17

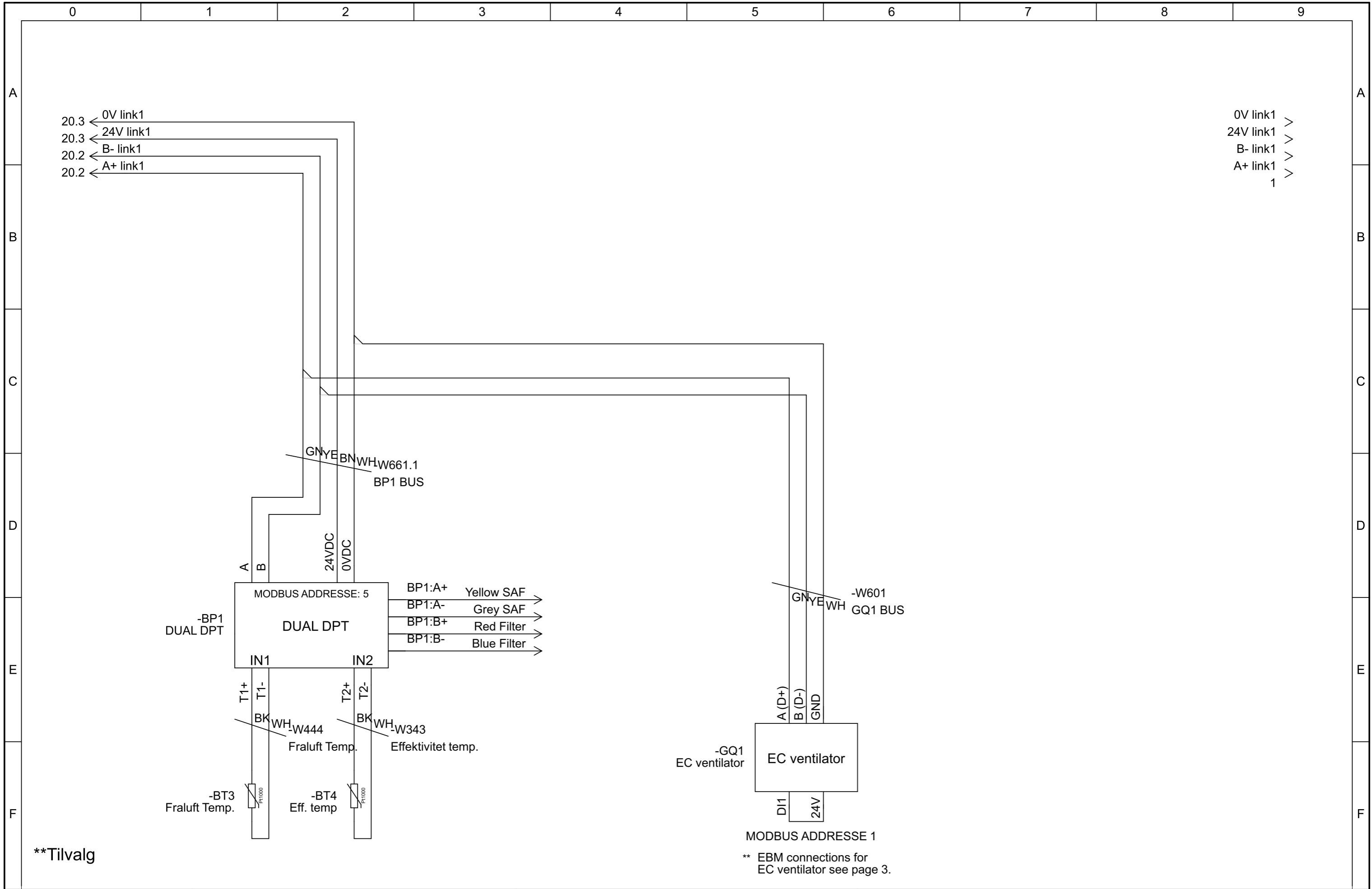
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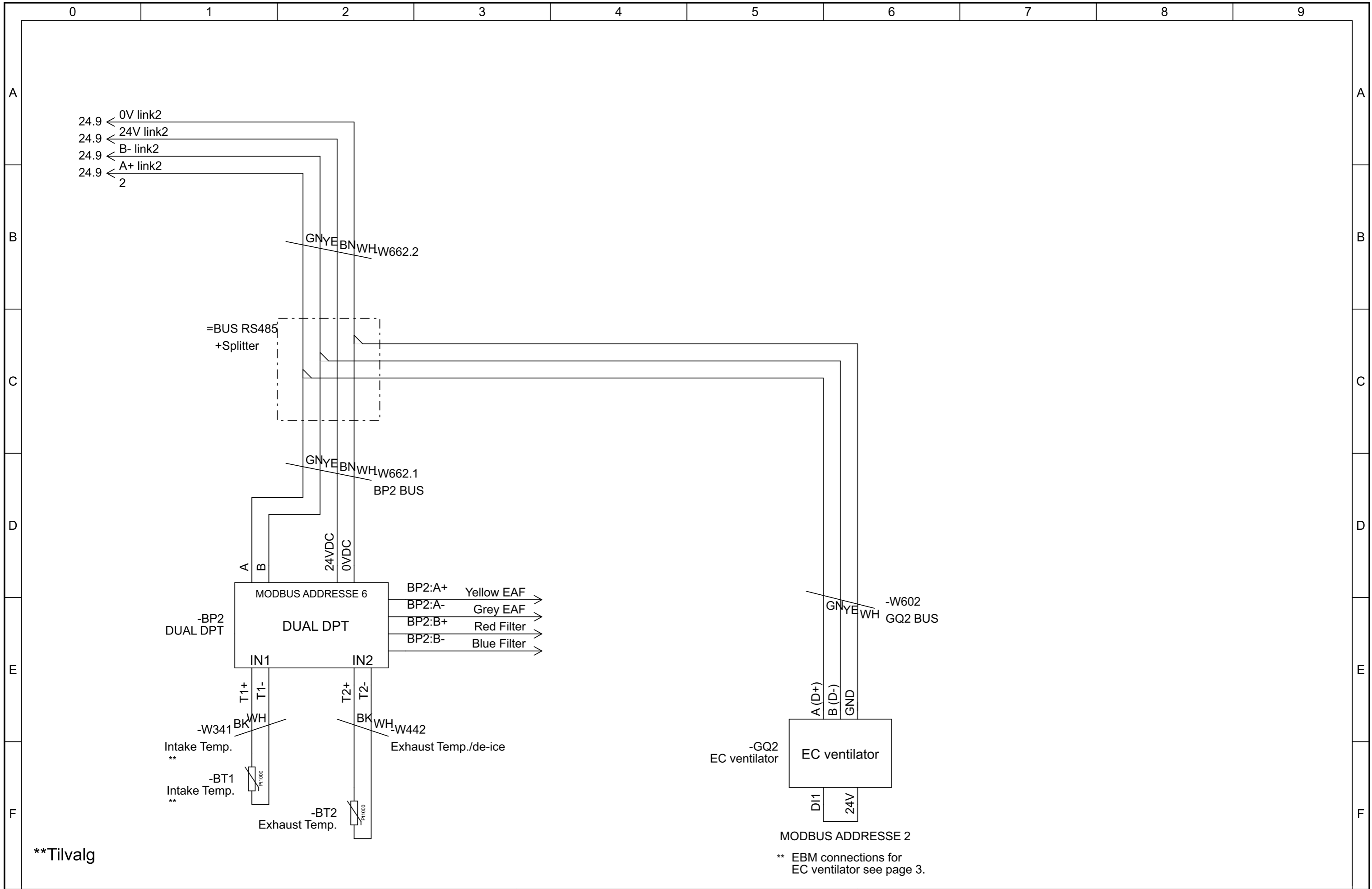


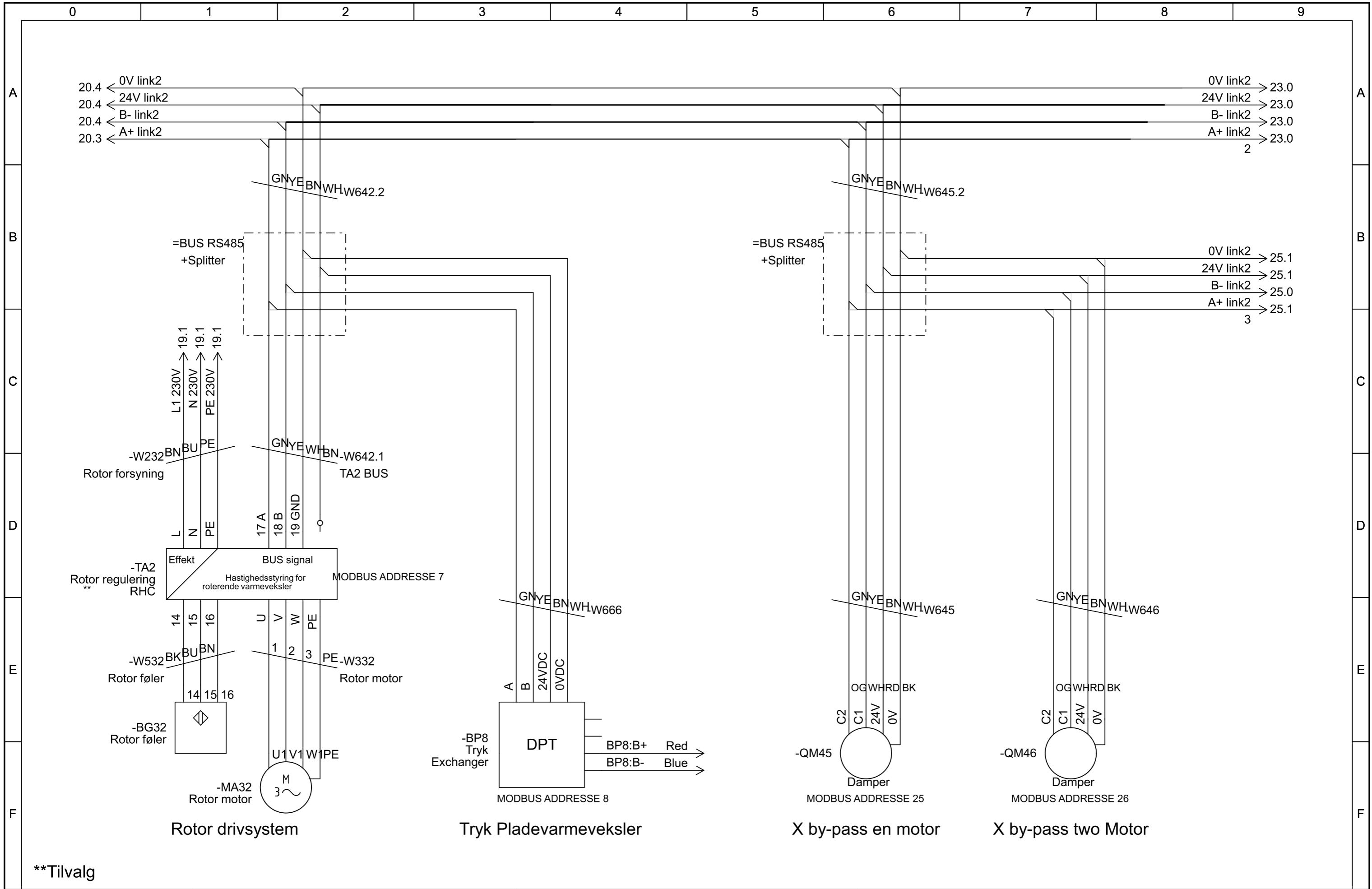
\*\*Tilvalg

Modbus adresse (x)

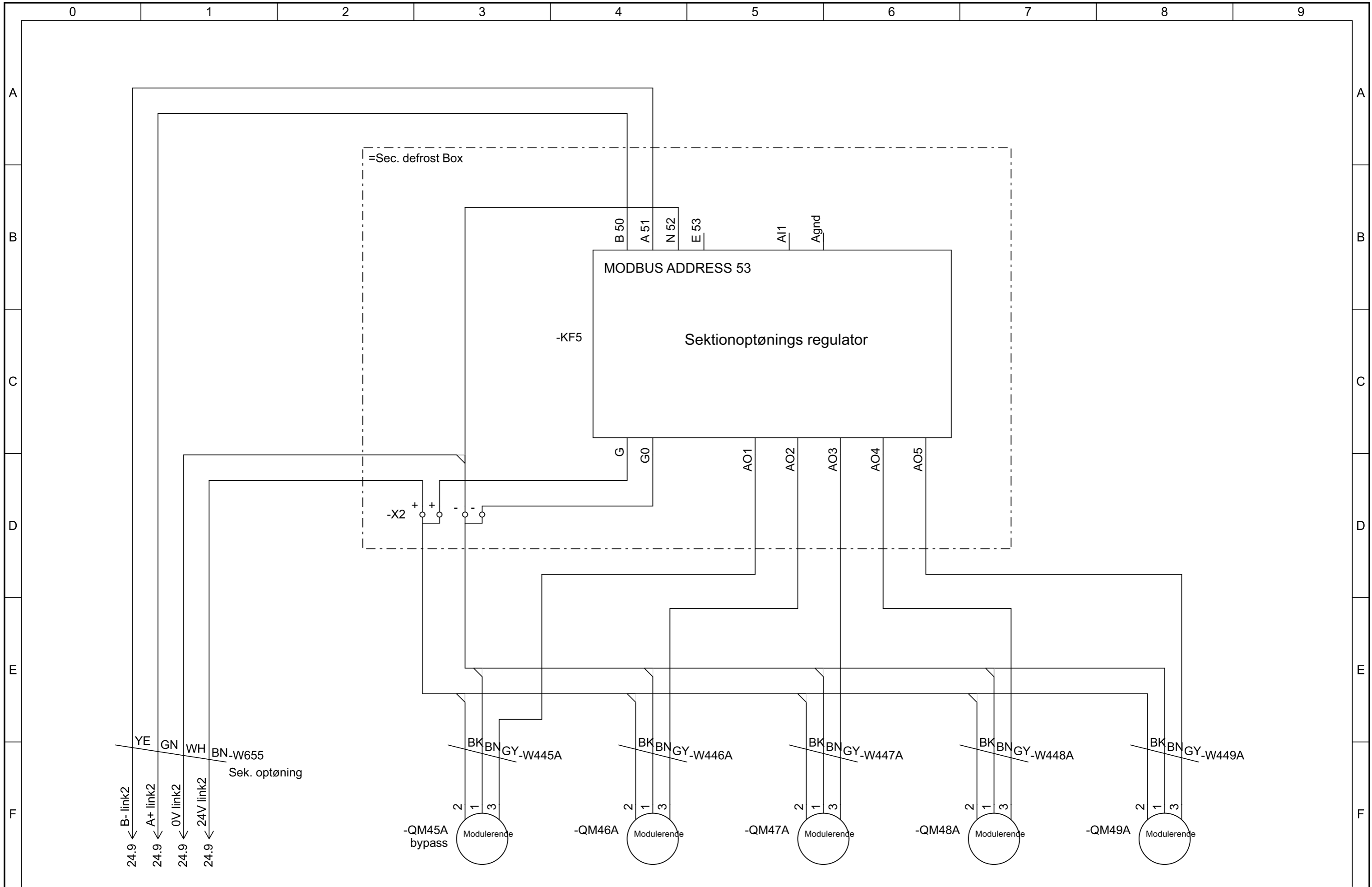








\*\*Tilvalg



### Address list

### Systemair settings of ECblue Modbus

Address	Component: Code
1	Supply air fan 1: GQ1
2	Extract air fan 1: GQ2
3	Supply air fan 2: GQ3
4	Extract air fan 2: GQ4
5	Dual pressure transmitter supply: BP1
6	Dual pressure transmitter extract: BP2
7	RHC (Rotor drive system): TA2
8	Pressure Exchanger: BP8
25	Plate exchanger by-pass: QM45
26	Plate exchanger "by-pass" 2: QM46
53	Sectional Defrost control: KF5

COM Baudrate: 9600Bd

COM Mode: 8N1

BUS Address: Supply air, 1 and (3, Twin fans)

Extract air, 2 and (4, Twin fans)

D1: 19D

D1 is set to disable internal safety functions that protects the motor (fire mode)

Normal speed control of the fan is possible in this mode.

Function is active if D1 is open = no signal.



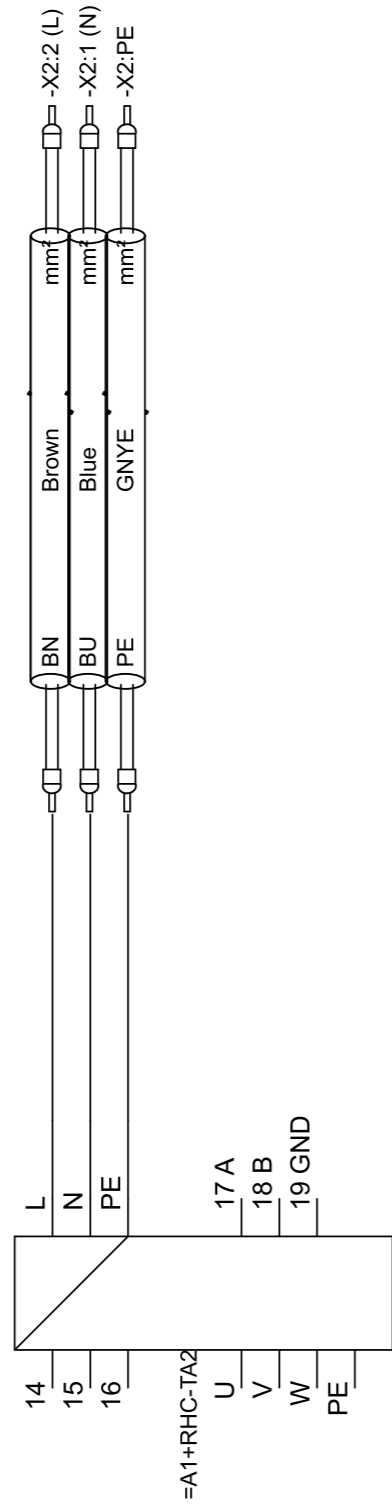
# Kabel plan

Strømvej  
Blad

Bemærk: Rotor forsyning  
Cable-type:

**-W232**

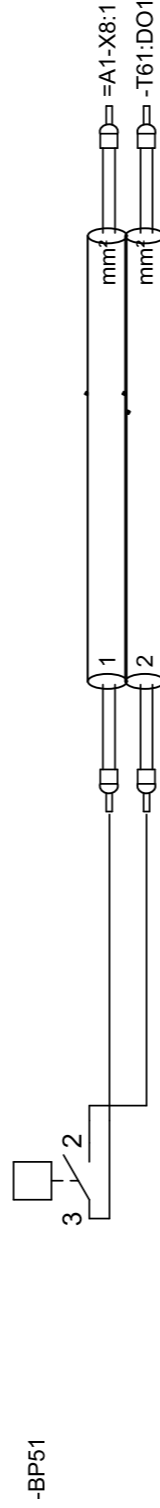
Rotor regulering  
RHC



Bemærk:  
Cable-type:

**-W251**

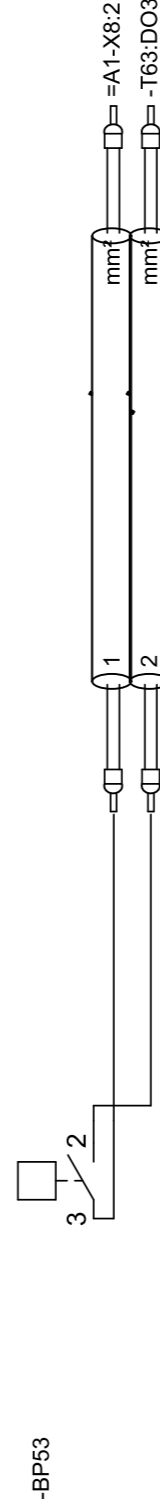
Tryk Guard



Bemærk:  
Cable-type:

**-W253**

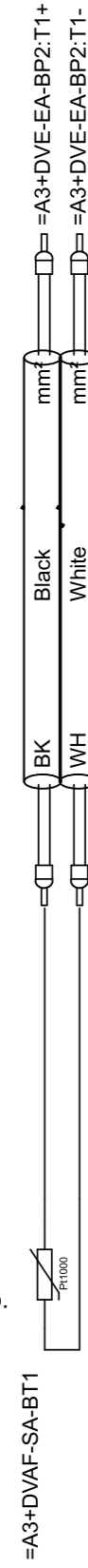
Tryk Guard



Bemærk: Intake Temp.  
Cable-type:

**-W341**

Intake Temp.



Blad	24	24	24
Strømvej	1	1	1

Blad	14	14
Strømvej	1	1

Blad	14	14
Strømvej	6	6

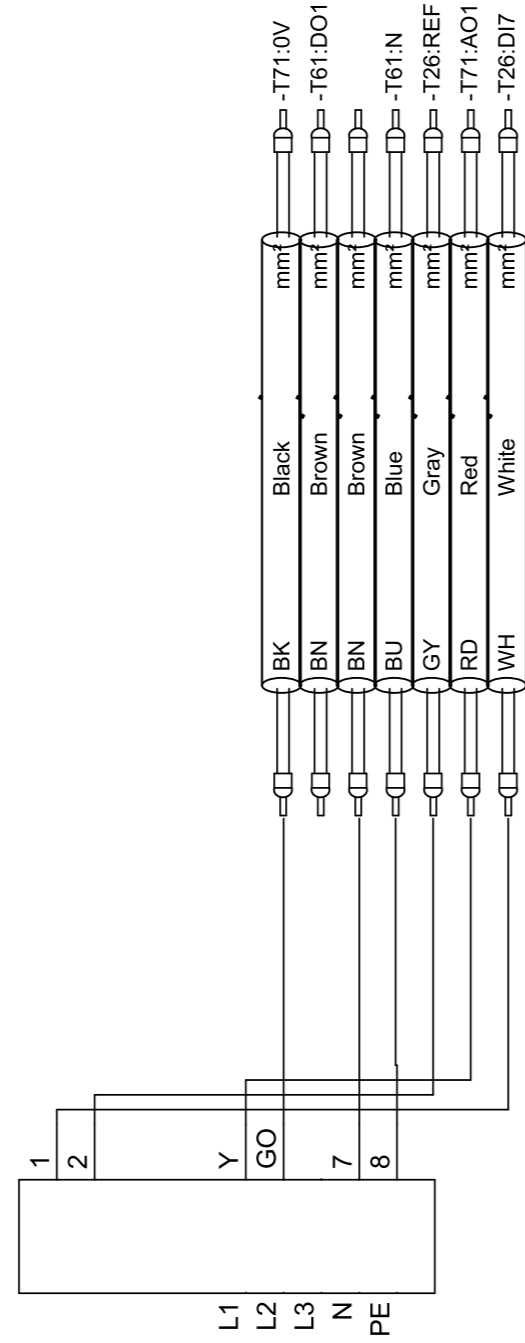
Blad	23	23
Strømvej	1	1

# Kabel plan

Strømvej  
Blad

Bemærk: El varmeplade  
Cable-type:

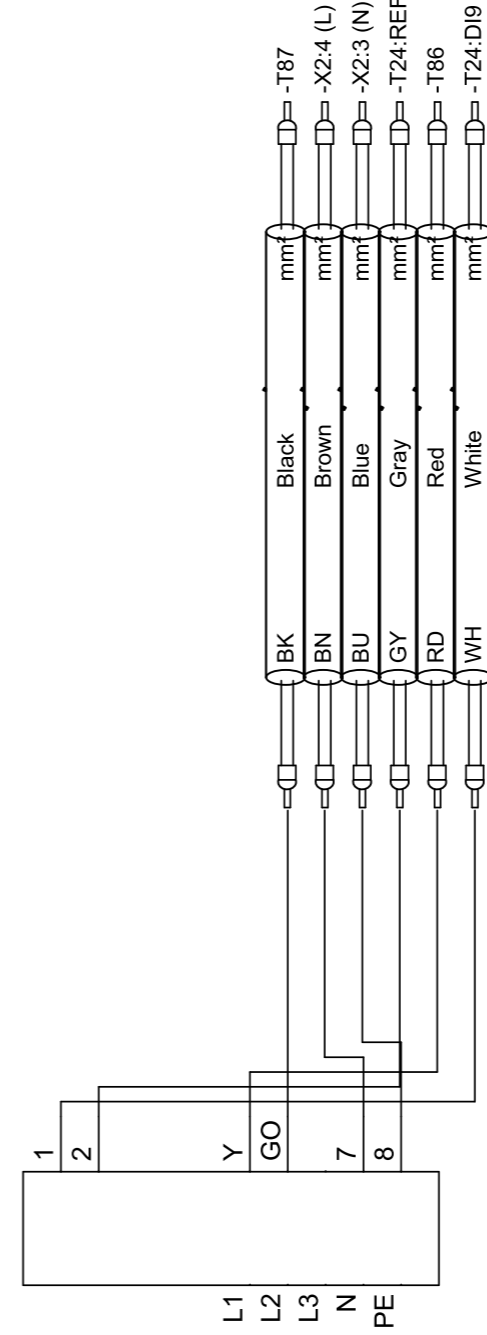
**-W351**  
El forvarmeplade



-EB51

Bemærk: El forvarmeplade  
Cable-type:

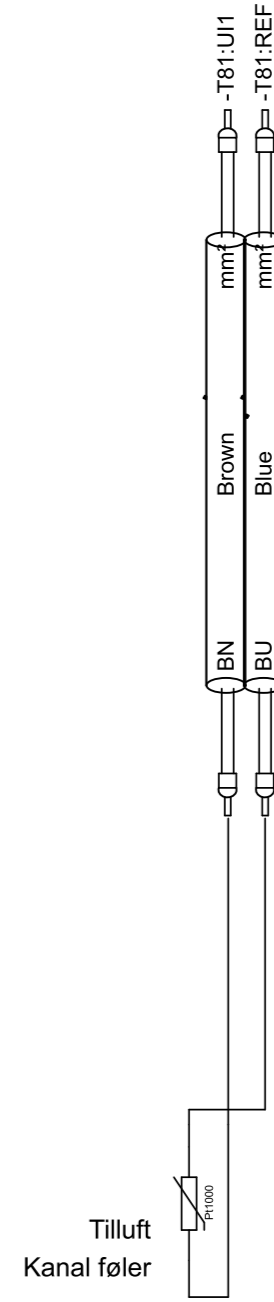
**-W353**  
El forvarmeplade



-EB53

Bemærk: Temperatur føler tilluft  
Cable-type:

**-W355**



-BT5

16 4  
16 4  
16 4  
16 4  
16 3  
16 4  
16 3

17 4  
17 4  
17 4  
17 3  
17 4  
17 3

13 1  
13 2

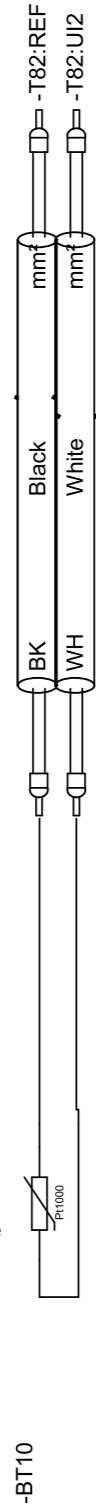
# Kabel plan

Strømvej  
Blad

Bemærk: Frostbeskyttelse varmeklode  
Cable-type:

**-W357**

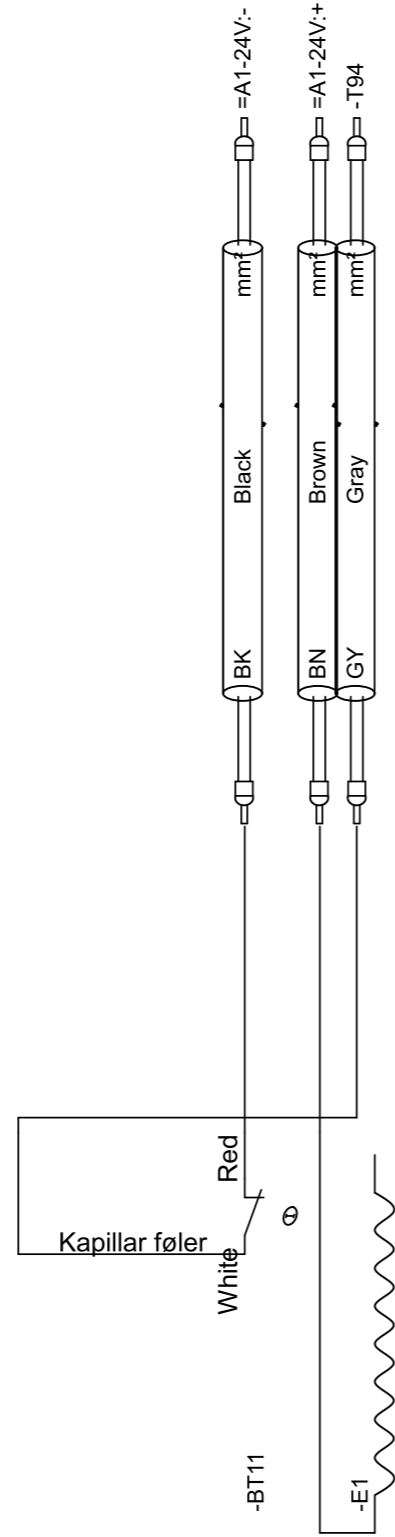
Frostbeskyttelse  
Pt 1000



-BT10

**-W359**

Bemærk: frost termostat  
Cable-type:

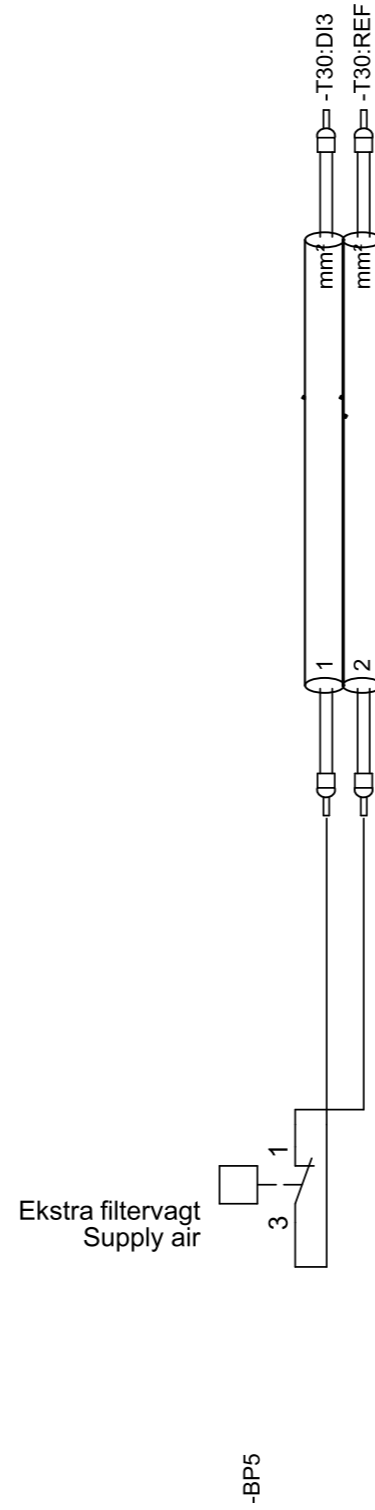


-BT11

-E1

**-W363**

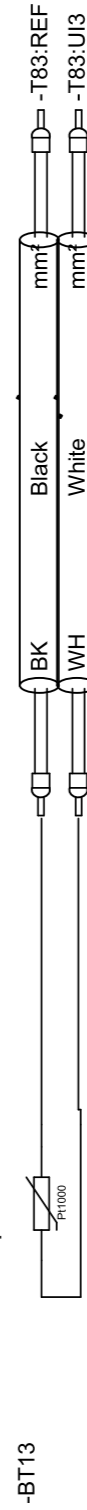
Bemærk: Ekstra filtervagt  
Cable-type:



-BP5

**-W367**

Forvarme temp.  
Pt 1000



-BT13

4  
3

2  
2  
1

4  
4

6  
5

13  
13

11  
11  
11

10  
10

13  
13



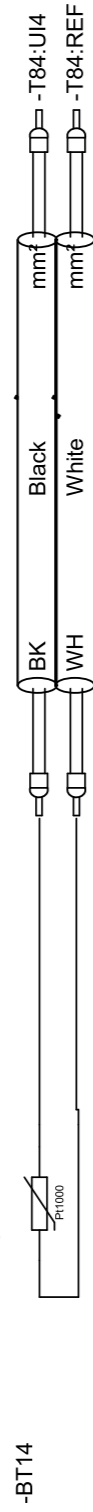
# Kabel plan

Strømvej  
Blad

**-W369**

Bemærk: Forvarme temp.  
Cable-type:

Forvarme Temp.  
Pt 1000



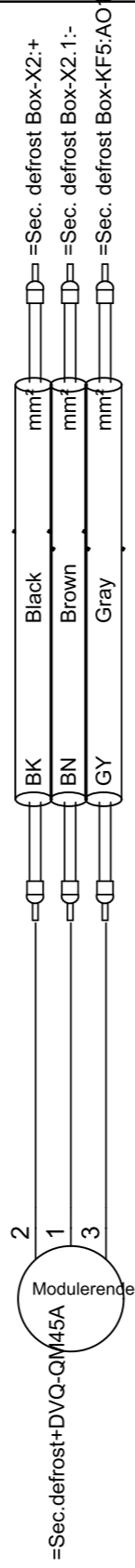
-BT14

7  
7  
13  
13

**-W445A**

Bemærk:  
Cable-type:

bypass



3  
3  
3  
25  
25  
25

**-W446A**

Bemærk:  
Cable-type:



4  
4  
4  
25  
25  
25

**-W447A**

Bemærk:  
Cable-type:



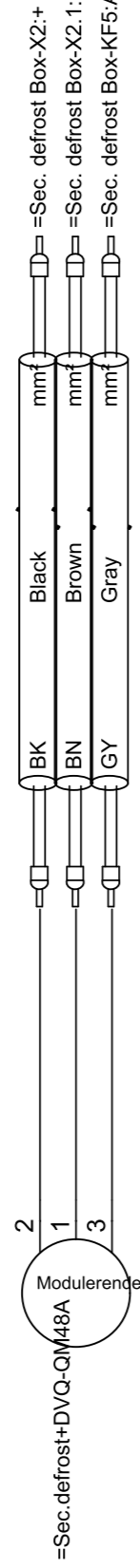
5  
6  
6  
25  
25  
25

# Kabel plan

Strømvej  
Blad

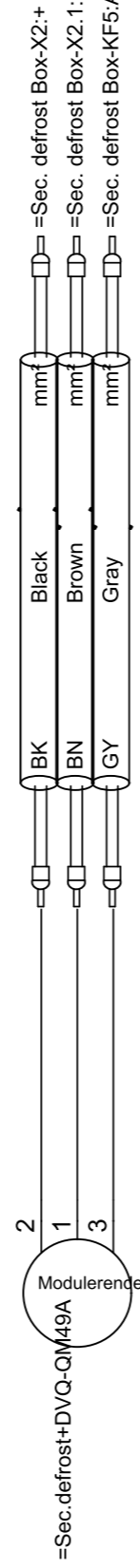
**-W448A**

Bemærk:  
Cable-type:



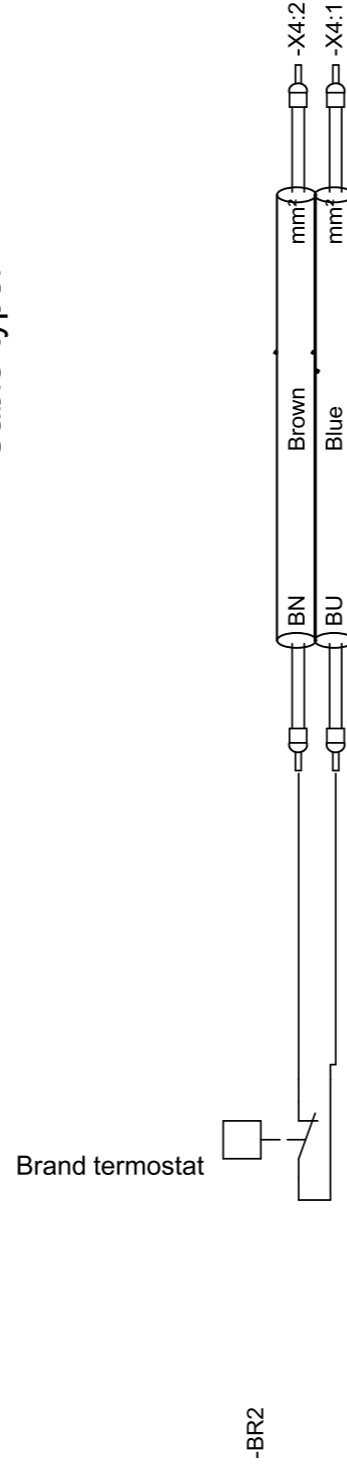
**-W449A**

Bemærk:  
Cable-type:



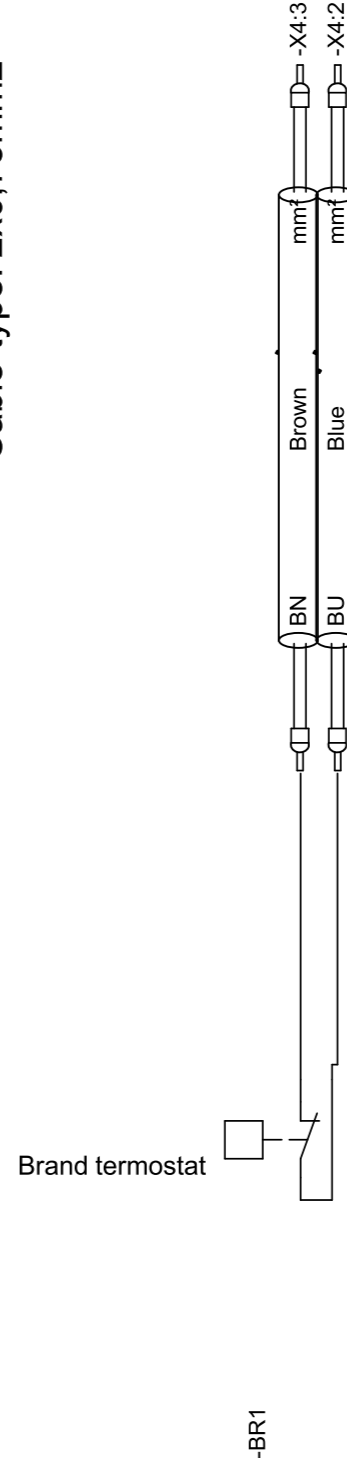
**-W456**

Bemærk: Brandtermostat fraluft  
Cable-type:



**-W457**

Bemærk: Brandtermostat  
Cable-type: 2x0,75mm<sup>2</sup>



7  
25

8  
25

6  
11

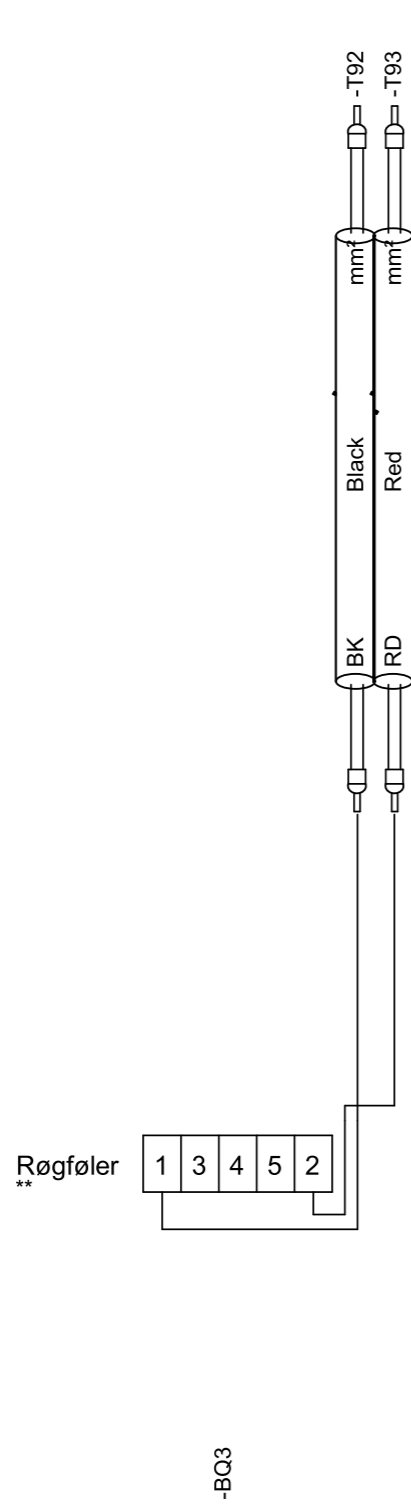
6  
11

# Kabel plan

Strømvej  
Blad

Bemærk: Røg føler  
Cable-type:

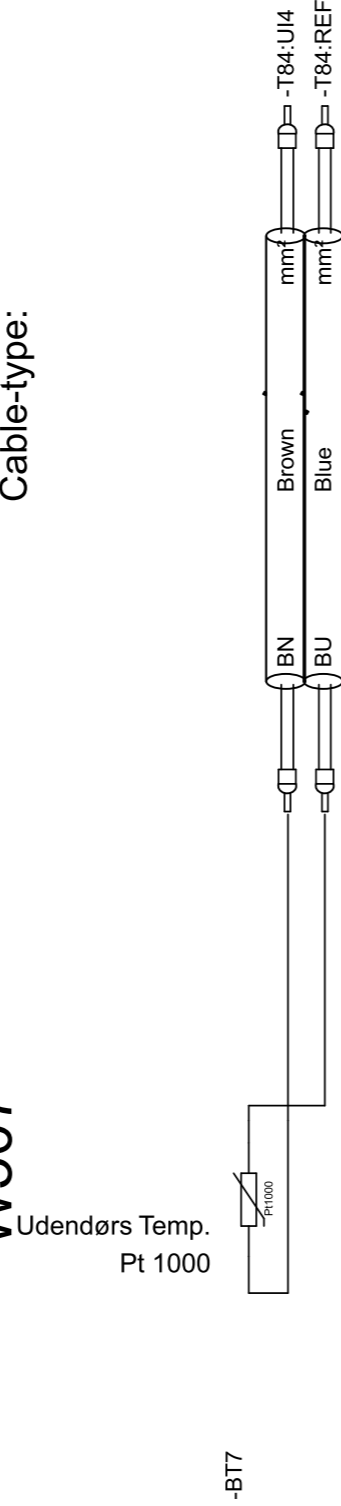
**-W458**



-BQ3

Bemærk: Ude føler  
Cable-type:

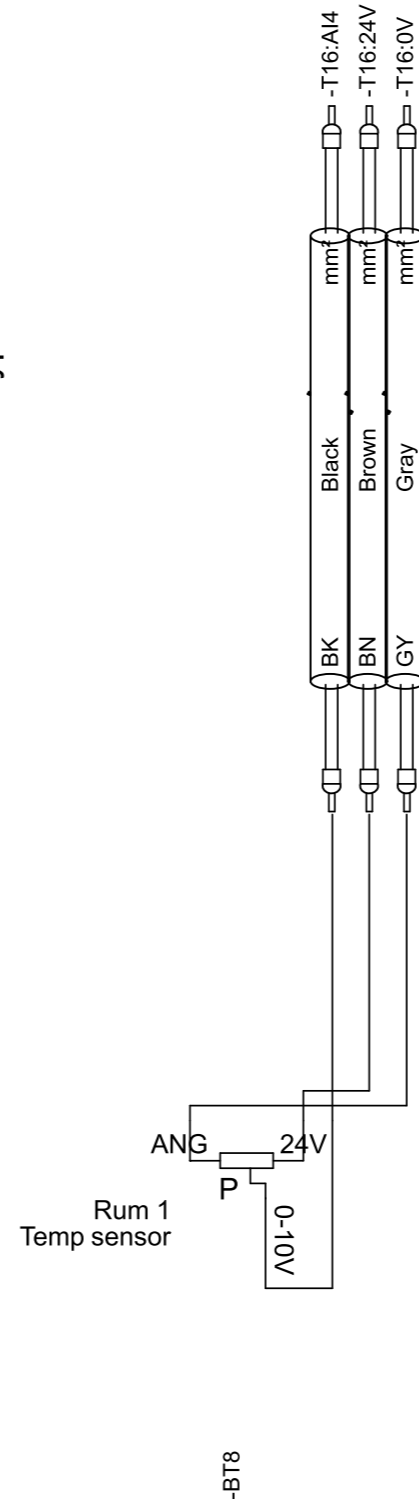
**-W507**



-BT7

Bemærk: Rum føler 1  
Cable-type:

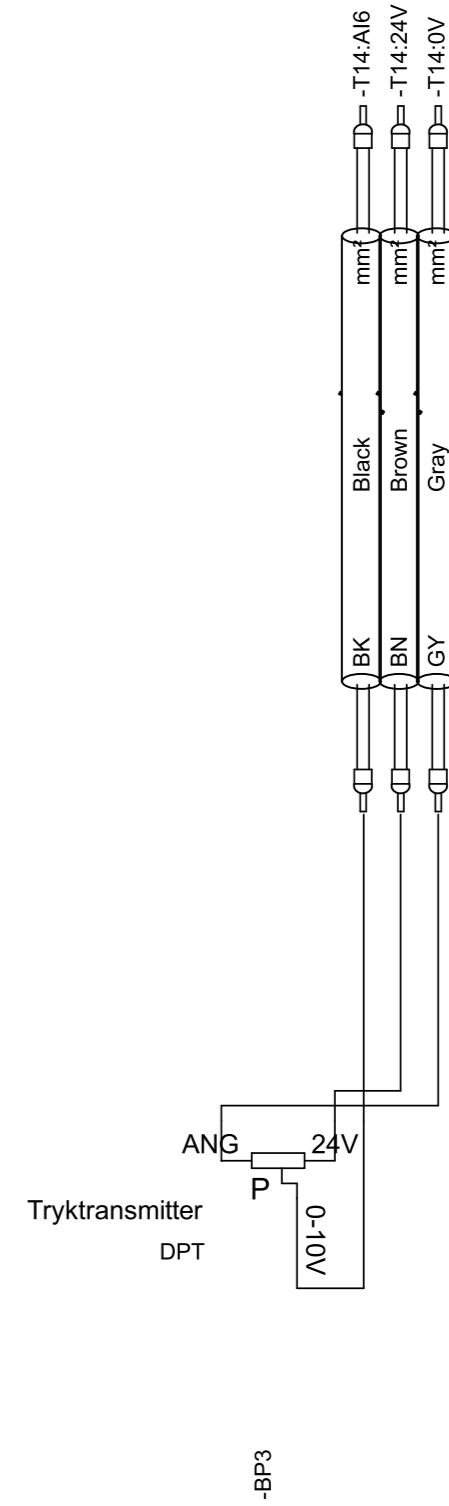
**-W508**



-BT8

Bemærk: Tryk Tilluft ekstern  
Cable-type:

**-W513**



-BP3

0  
12

8  
13

9  
12

3  
12

1  
12

8  
13

9  
12

3  
12

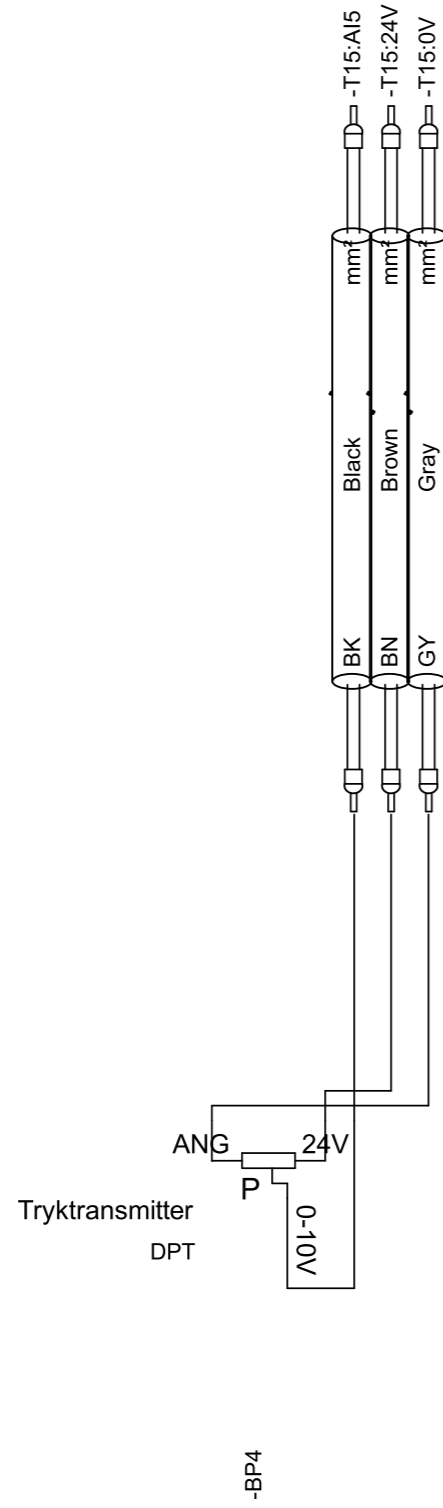
2

# Kabel plan

Strømvej  
Blad

Bemærk: Tryk Fraluft ekstern  
Cable-type:

**-W514**



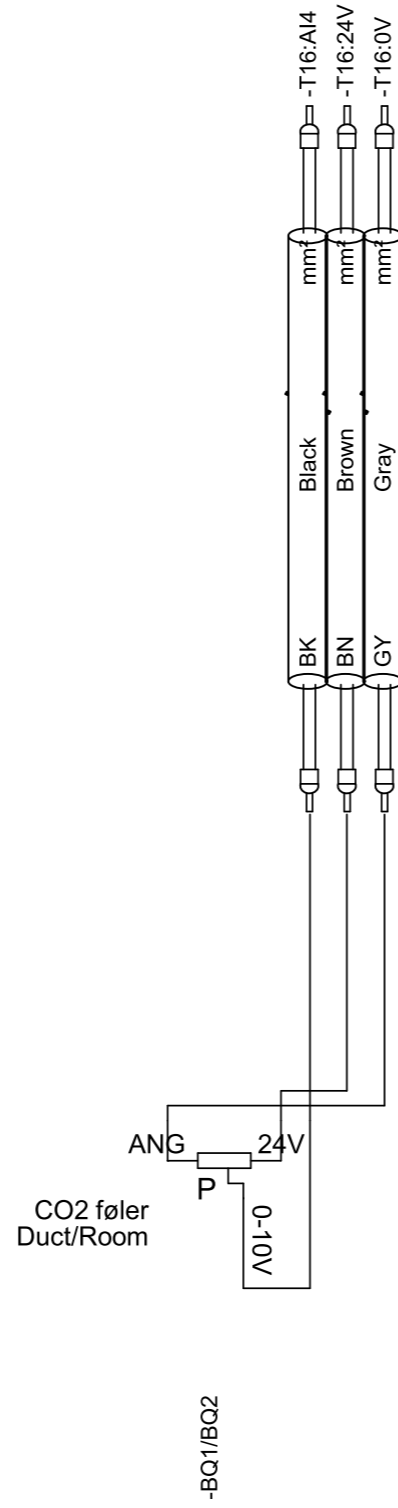
-BP4

12  
12  
12

4  
5  
4

Bemærk: CO2 føler  
Cable-type:

**-W515/516**



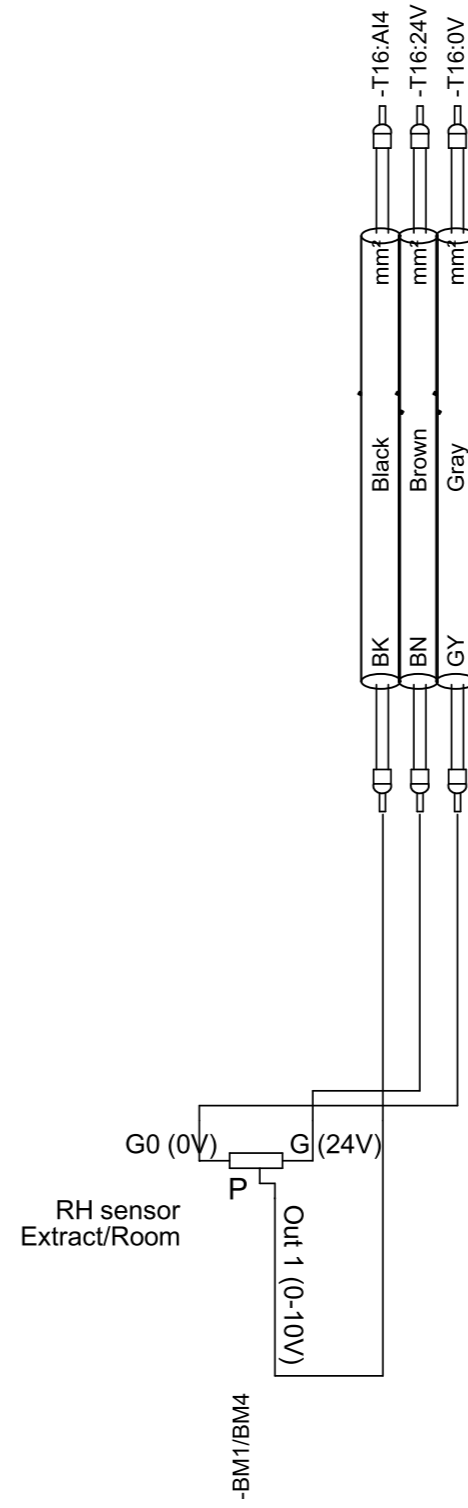
-BQ1/BQ2

12  
12  
12

6  
6  
6

Bemærk: RH sensor  
Cable-type:

**-W517/W520**



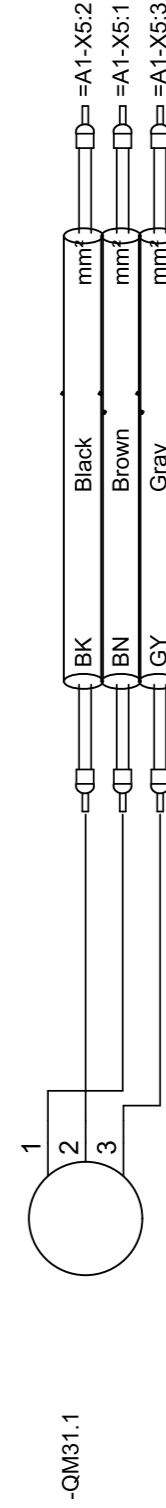
-BM1/BM4

12  
12  
12

7  
7  
7

Bemærk: Spjæld Tilluft  
Cable-type:

**-W531.1**



-QM31.1

15  
15  
15

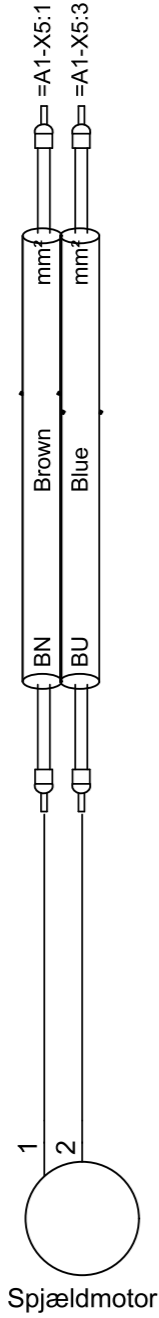
1  
0  
1

# Kabel plan

Strømvej  
Blad

**-W531.1S**

Bemærk: Spjæld Tilluft  
Cable-type:

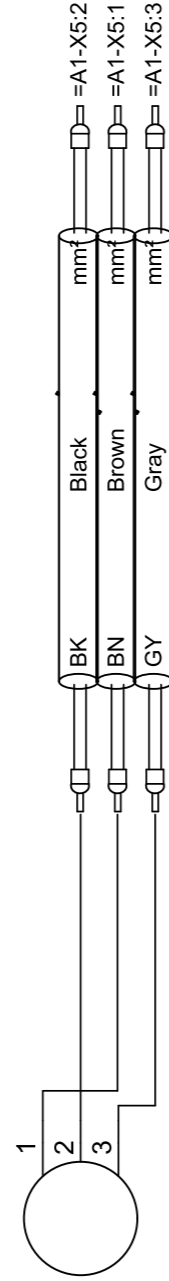


-QM31.1S  
Spjældmotor

1  
15

**-W532.1**

Bemærk: Spjæld Fraluft  
Cable-type:

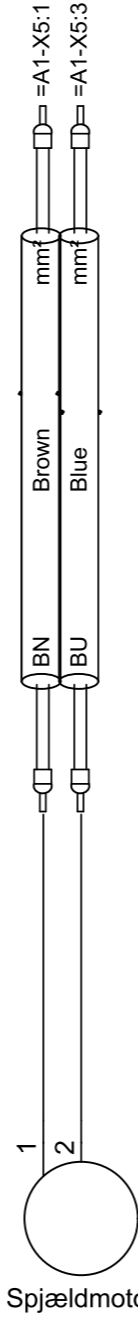


-QM32.1

4  
15  
4  
15  
4  
15

**-W532.1S**

Bemærk: Spjæld Fraluft  
Cable-type:

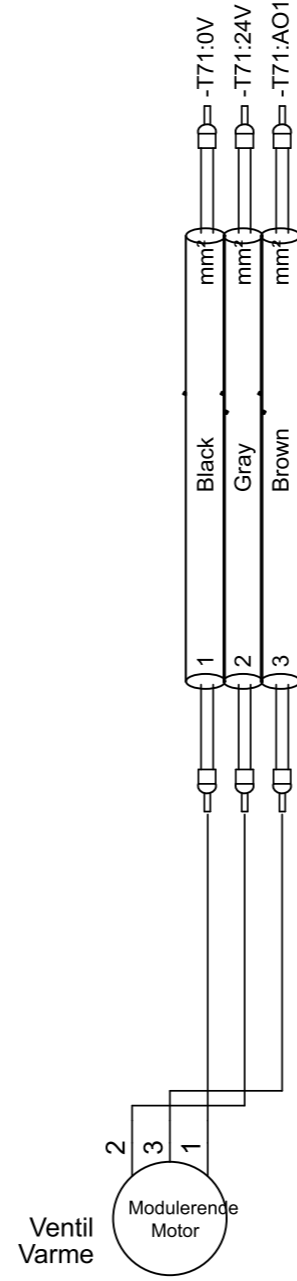


-QM32.1S

5  
15

**-W551**

Bemærk: Varme ventil  
Cable-type:

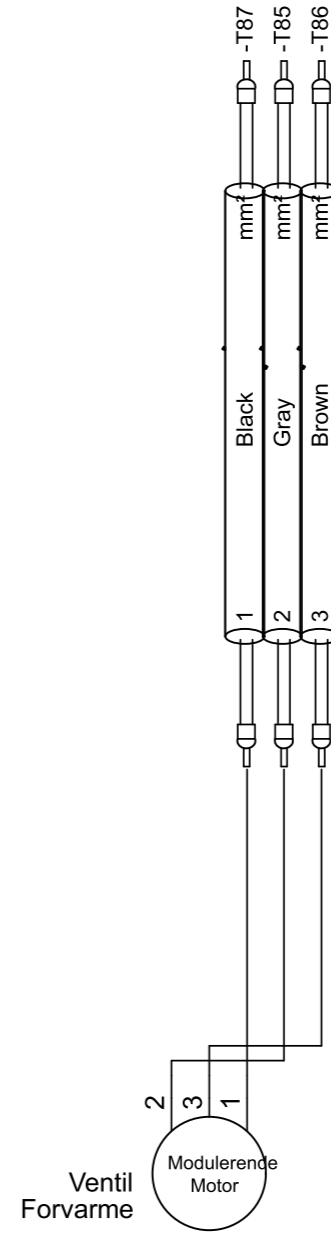


-QN51

2  
16  
2  
16  
2  
16

**-W553**

Bemærk: Varme ventil  
Cable-type:

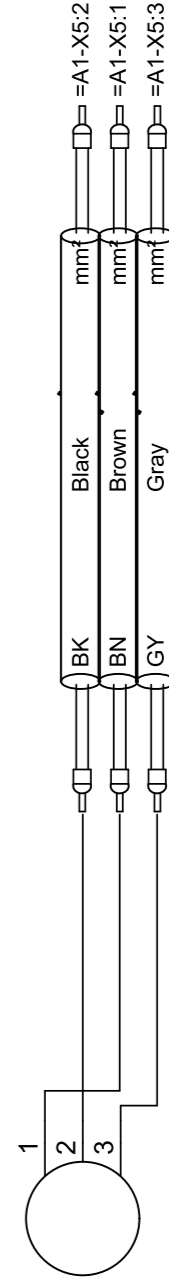


-QN53

2  
17  
2  
17  
2  
17

**-W571.1**

Bemærk: Spjæld Tilluft 2  
Cable-type:



-QM71.1

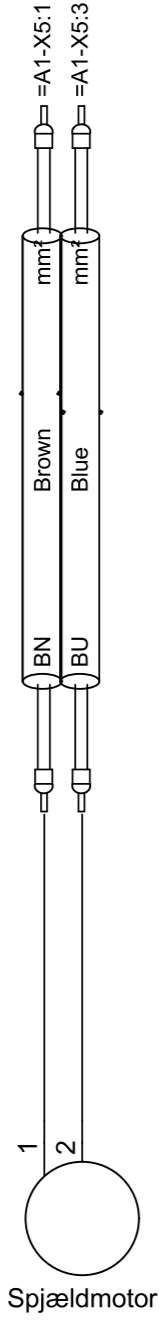
2  
15  
2  
15  
2  
15

# Kabel plan

Strømvej  
Blad

**-W571.1S**

Bemærk: Spjæld Tilluft 2  
Cable-type:



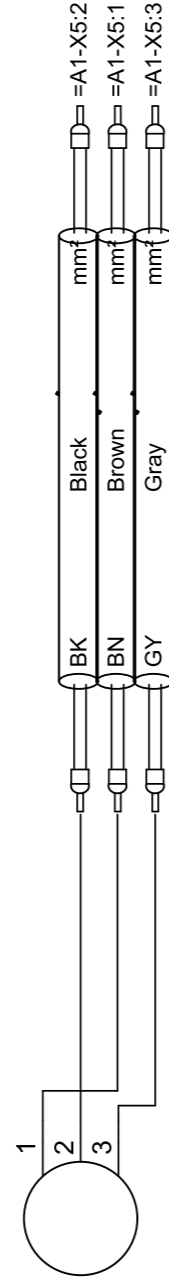
-QM71.1S

Spjældmotor

3  
3

**-W572.1**

Bemærk: Spjæld Fraluft 2  
Cable-type:

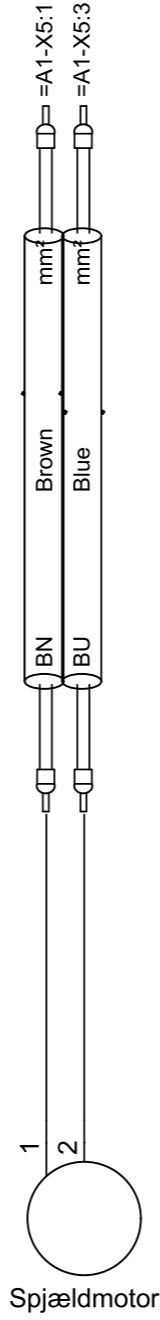


-QM72.1

6  
6  
6

**-W572.1S**

Bemærk: Spjæld Fraluft 2  
Cable-type:



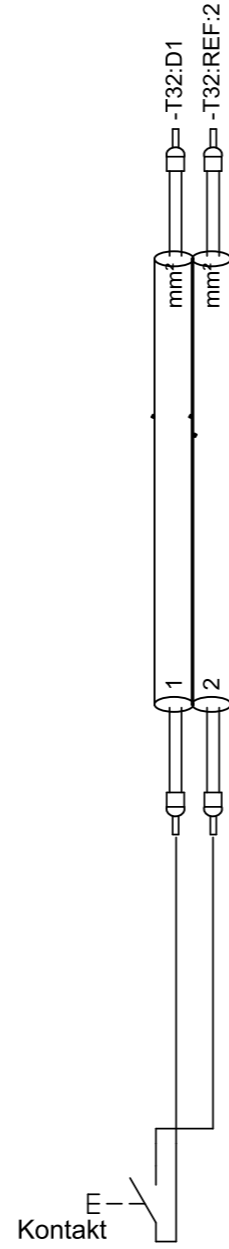
-QM72.1S

Spjældmotor

7  
7

**-W580**

Bemærk: Reduceret hastighed  
Cable-type: 2x0,75mm2

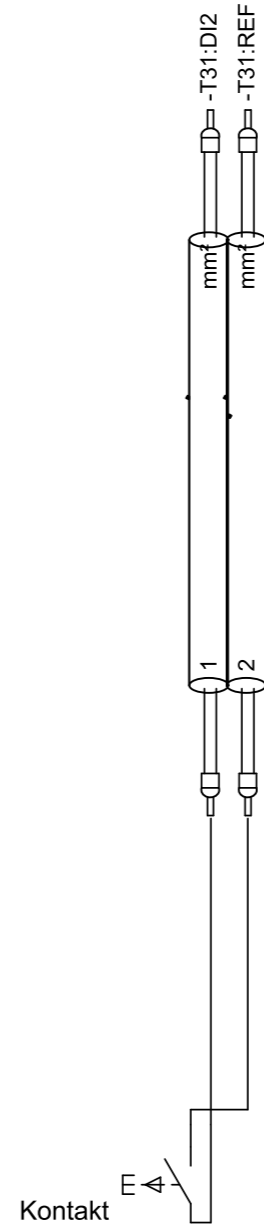


-SF2

1  
1

**-W581**

Bemærk: Normal hastighed-ekst.  
Cable-type:

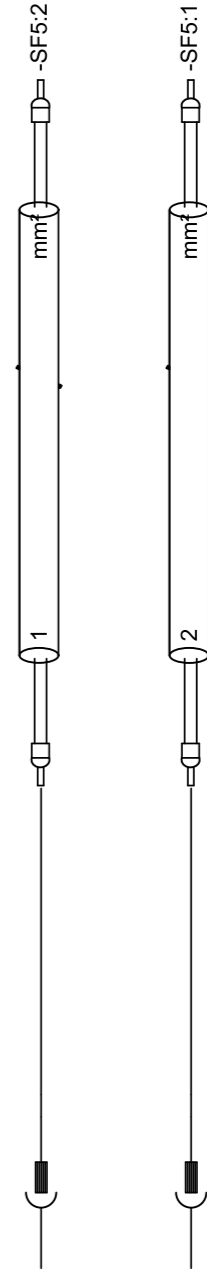


-SF3

2  
3

**-W583**

Bemærk: Ekst. stop  
Cable-type: 2x0,75mm2



-T30:D13

-T30:REF

5

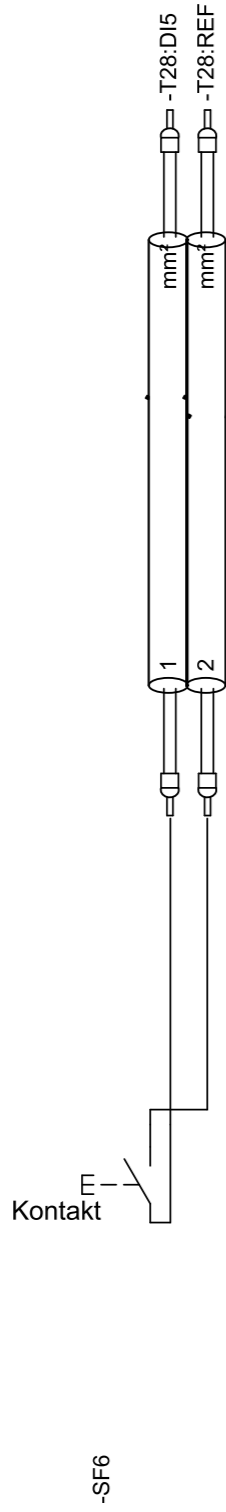
5

# Kabel plan

Strømvej  
Blad

**-W584**

Bemærk: Change over  
Cable-type:



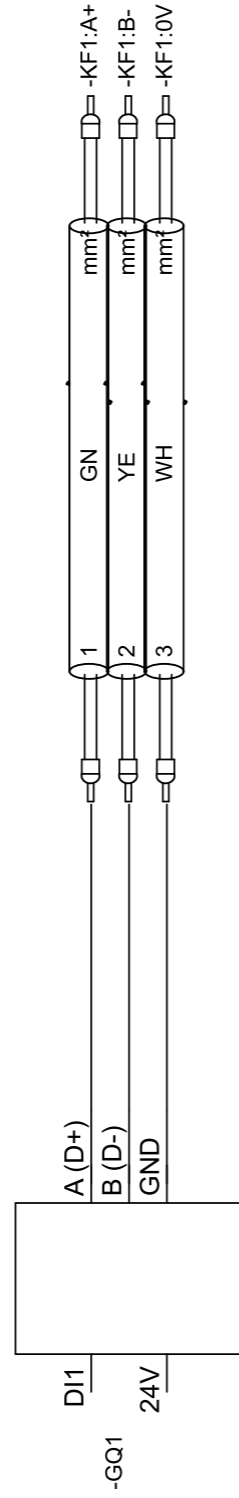
8  
8

10  
10

**-W601**

Bemærk: GQ1 BUS  
Cable-type: 4x0,6mm2

EC ventilator



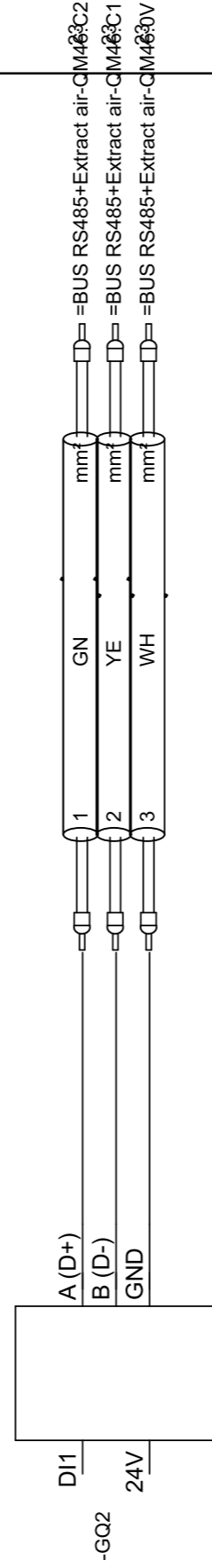
5  
5  
6

22  
22  
22

**-W602**

Bemærk: GQ2 BUS  
Cable-type: 4x0,6mm2

EC ventilator

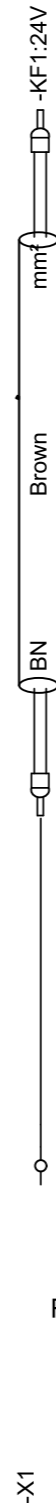


6  
6  
6

22  
22  
22

**-W642.1**

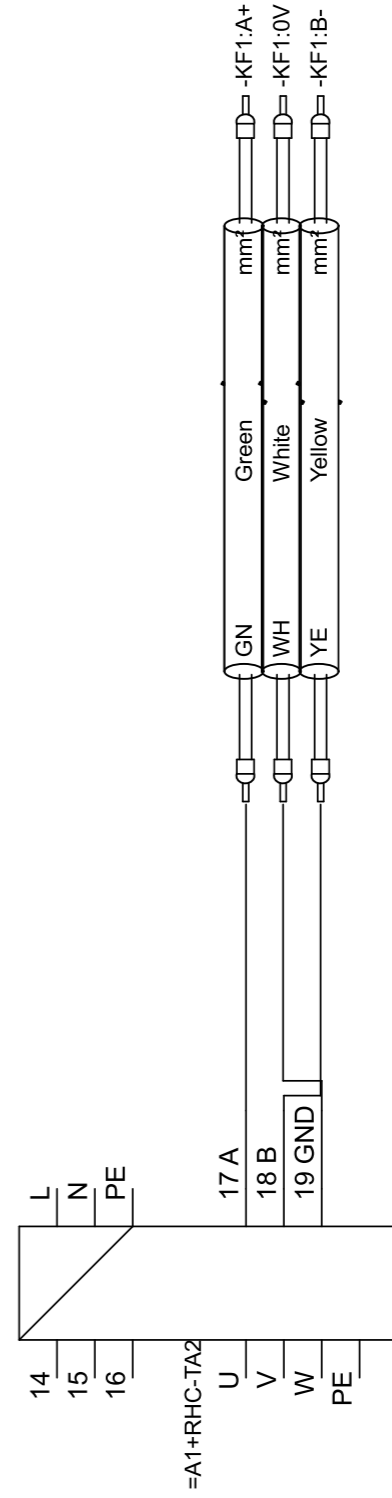
Bemærk: TA2 BUS  
Cable-type:



2

24

Rotor regulering  
RHC



1  
2  
2

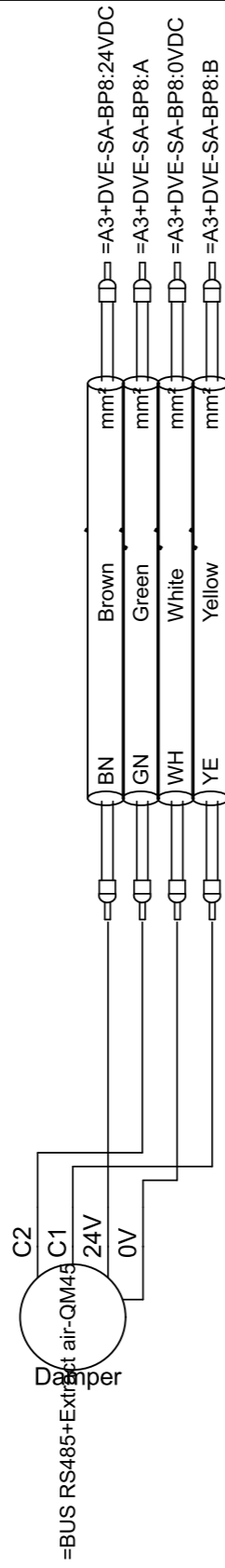
24  
24  
24

# Kabel plan

Strømvej  
Blad

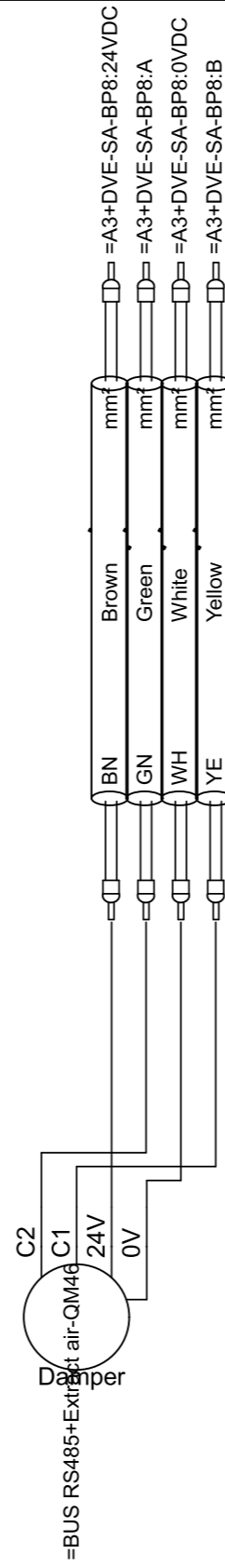
Bemærk: Fraluft  
Cable-type:

-W645



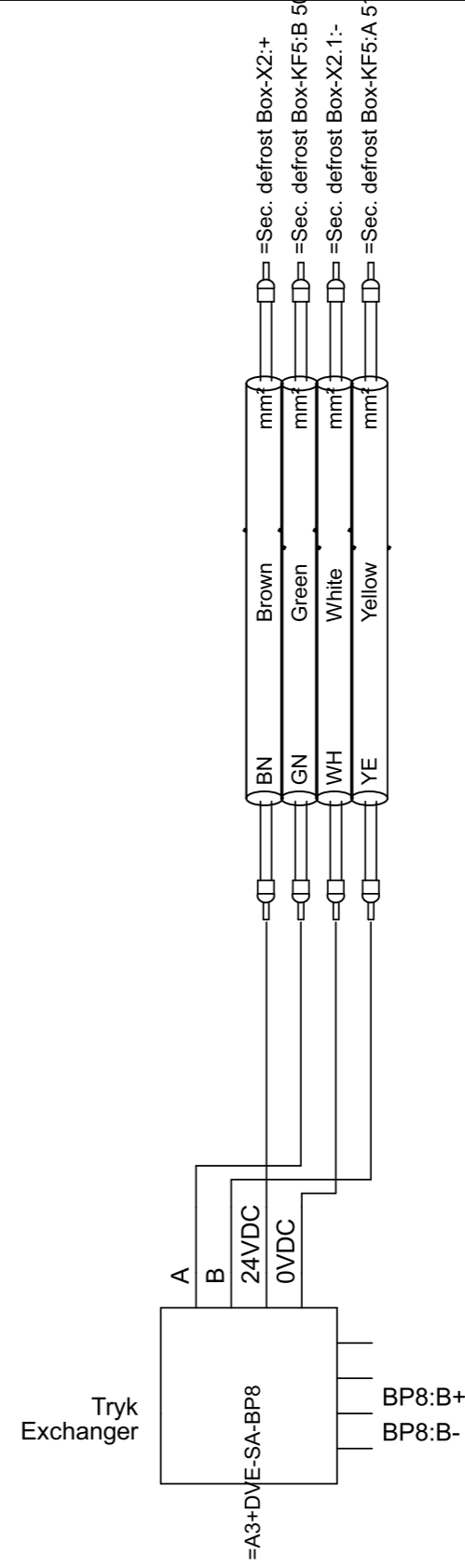
-W646

Bemærk: Fraluft  
Cable-type:



-W655

Bemærk: Sek. optøning  
Cable-type:



6  
6  
6  
6

24  
24  
24  
24

7  
7  
8  
7

24  
24  
24  
24

1  
1  
1  
0

25  
25  
25  
25

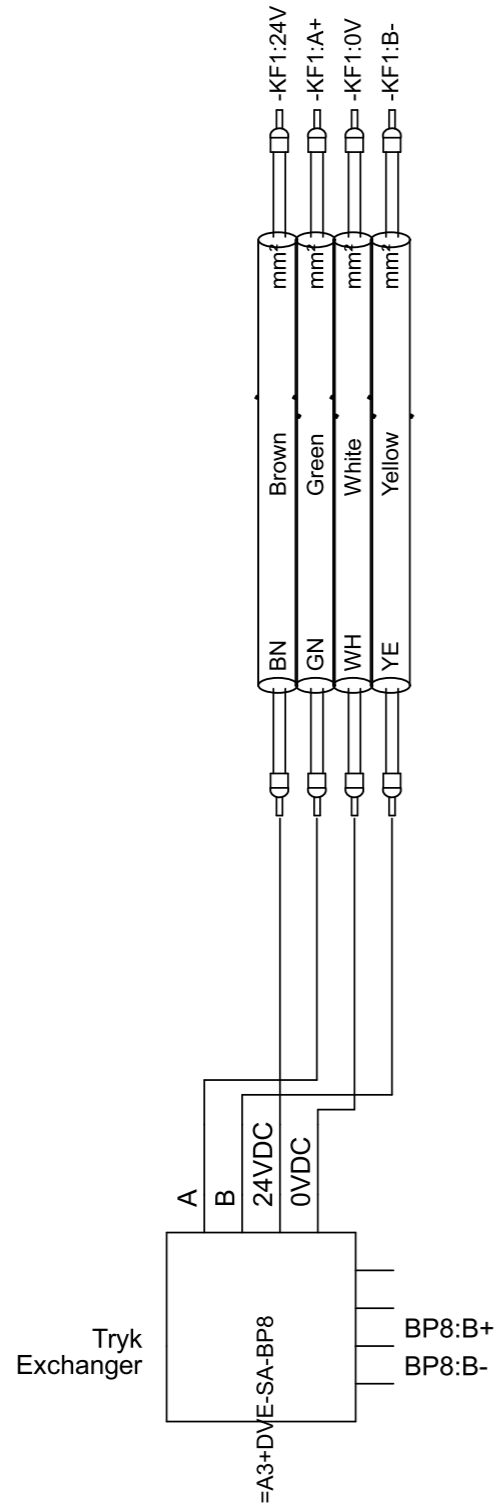


# Kabel plan

Strømvej  
Blad

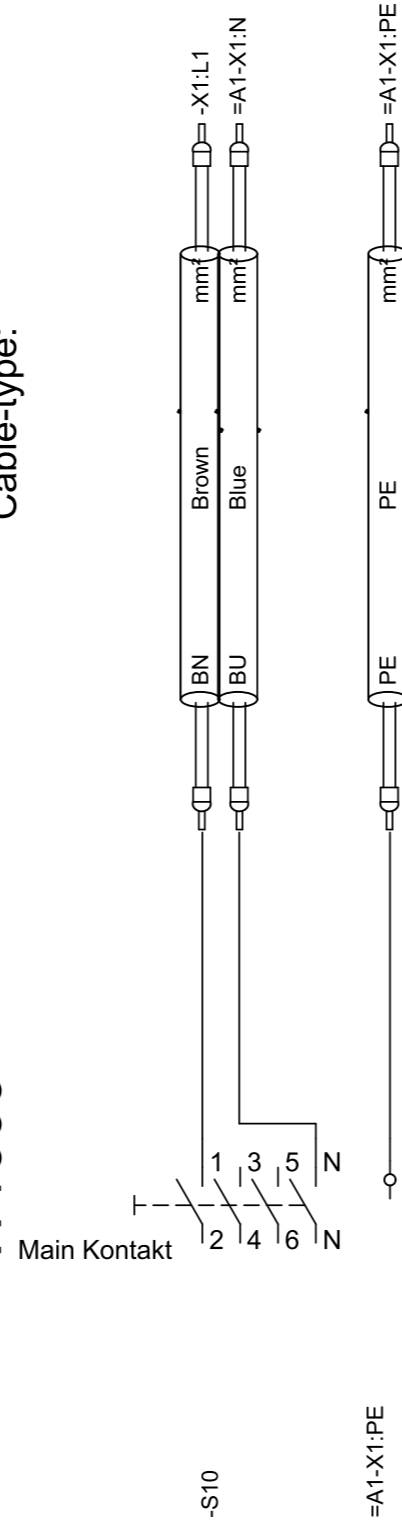
Bemærk: Tryk Pladeveksler  
Cable-type:

**-W666**



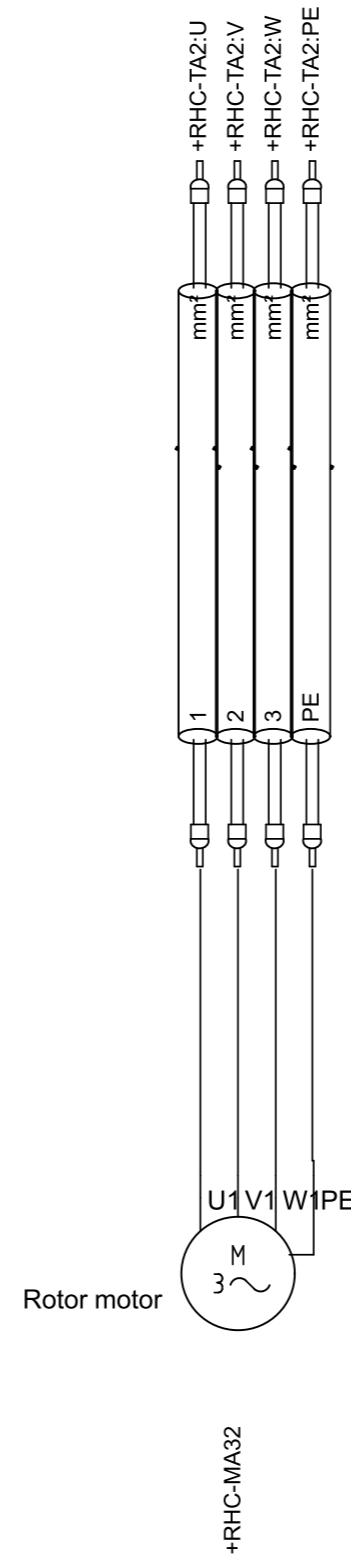
Bemærk: Hovedforsyning  
Cable-type:

**-W1000**



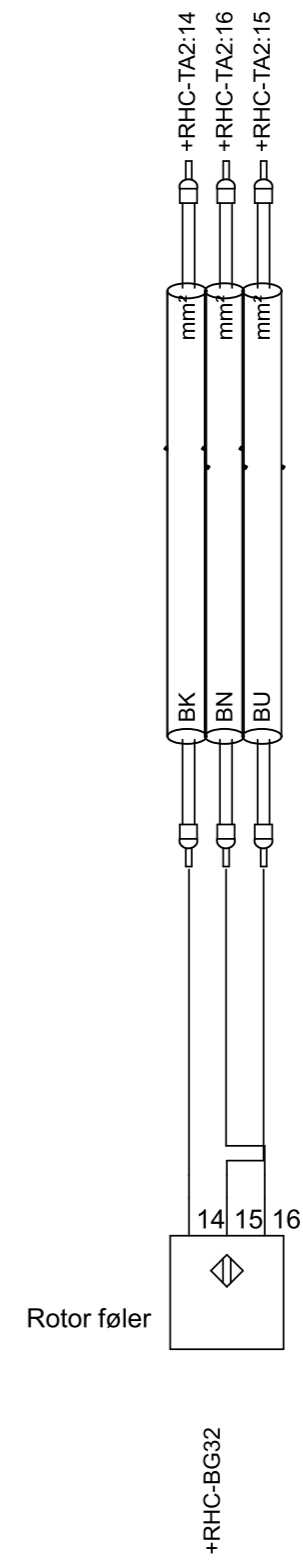
Bemærk: Rotor Motor  
Cable-type:

**=A1-W332**



Bemærk: Rotor føler  
Cable-type:

**=A1-W532**



24 4  
24 3  
24 4  
24 3

18 1  
18 1

18 1

24 1  
24 2  
24 2  
24 2

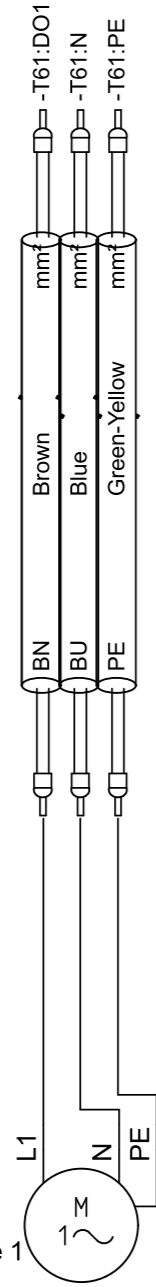
24 1  
24 1  
24 1

# Kabel plan

Strømvej  
Blad

**=A1-W550**

Bemærk: Cirkulationspumpe  
Cable-type:

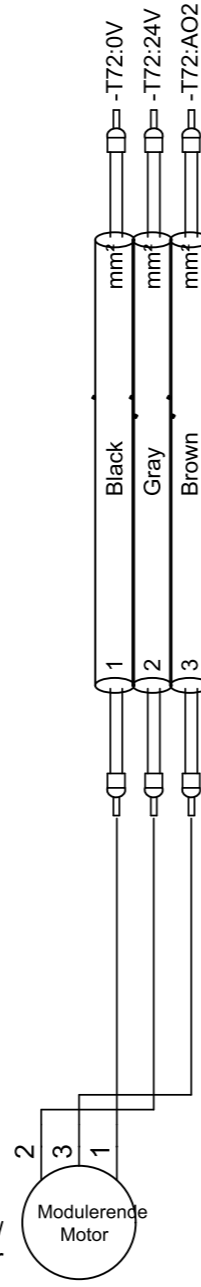


-GP50

**=A1-W554**

Bemærk: Køleventil  
Cable-type:

Ventil for køling/  
Change over

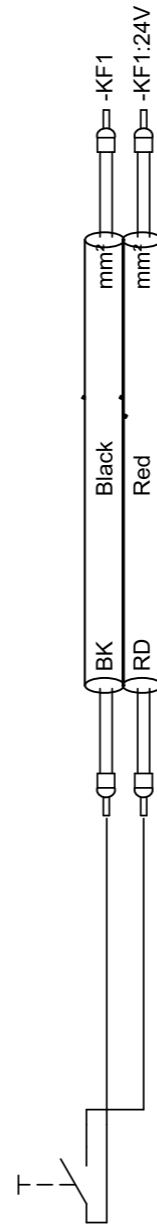


-QN54/QN56

**=A1-W700**

Bemærk: Lys kontakt  
Cable-type:

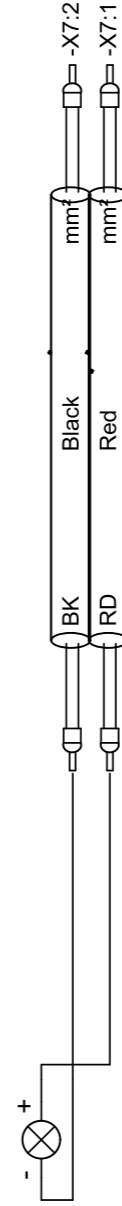
Lys kontakt



-SF1

**=A1-W701**

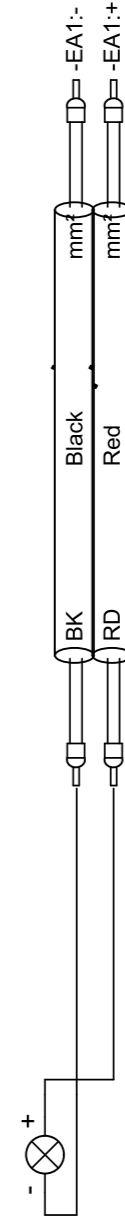
Bemærk: Lys P20  
Cable-type:



-EA1

**=A1-W702**

Bemærk: Lys P20  
Cable-type:



-EA2

1  
2  
2

14  
14  
14

7  
7  
7

16  
16  
16

5  
5

19  
19

6  
6

19  
19

7  
6

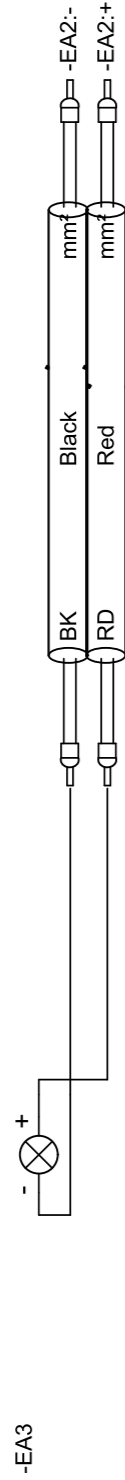
19  
19

# Kabel plan

Strømvej  
Blad

=A1-W703

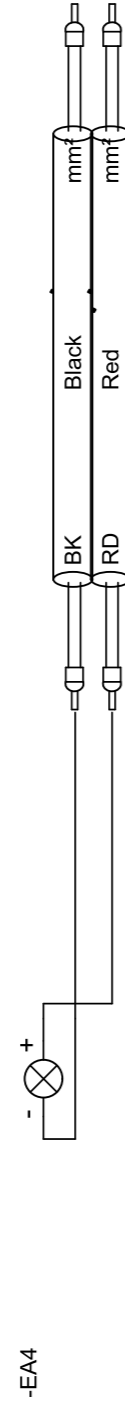
Bemærk: Lys P20  
Cable-type:



19  
19

=A1-W704

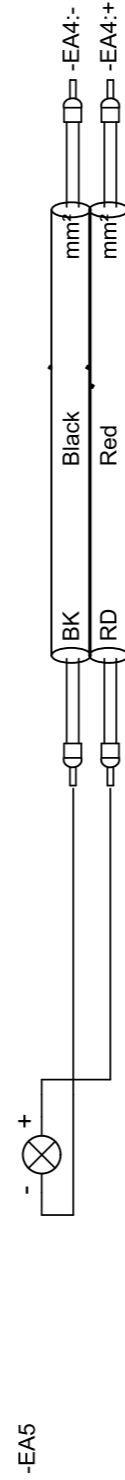
Bemærk: Lys P21  
Cable-type:



19  
19

=A1-W705

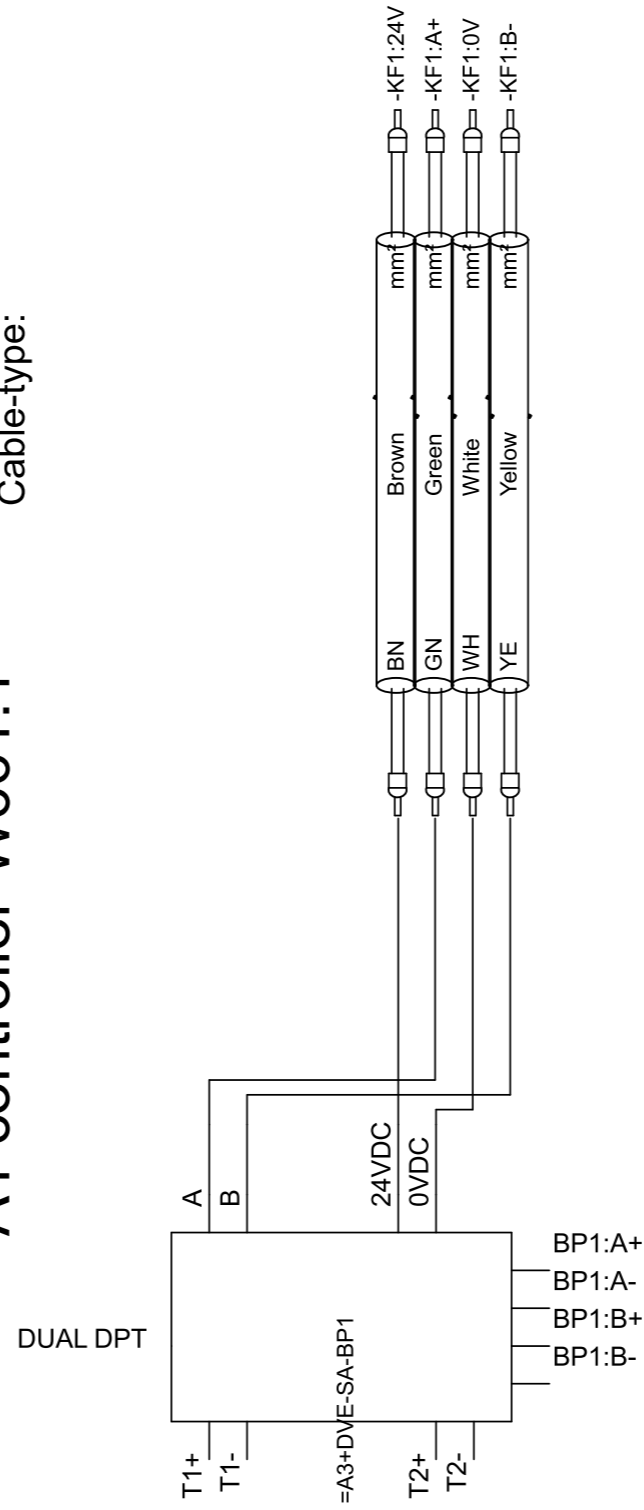
Bemærk:  
Cable-type:



19  
19

=A1 controller-W661.1

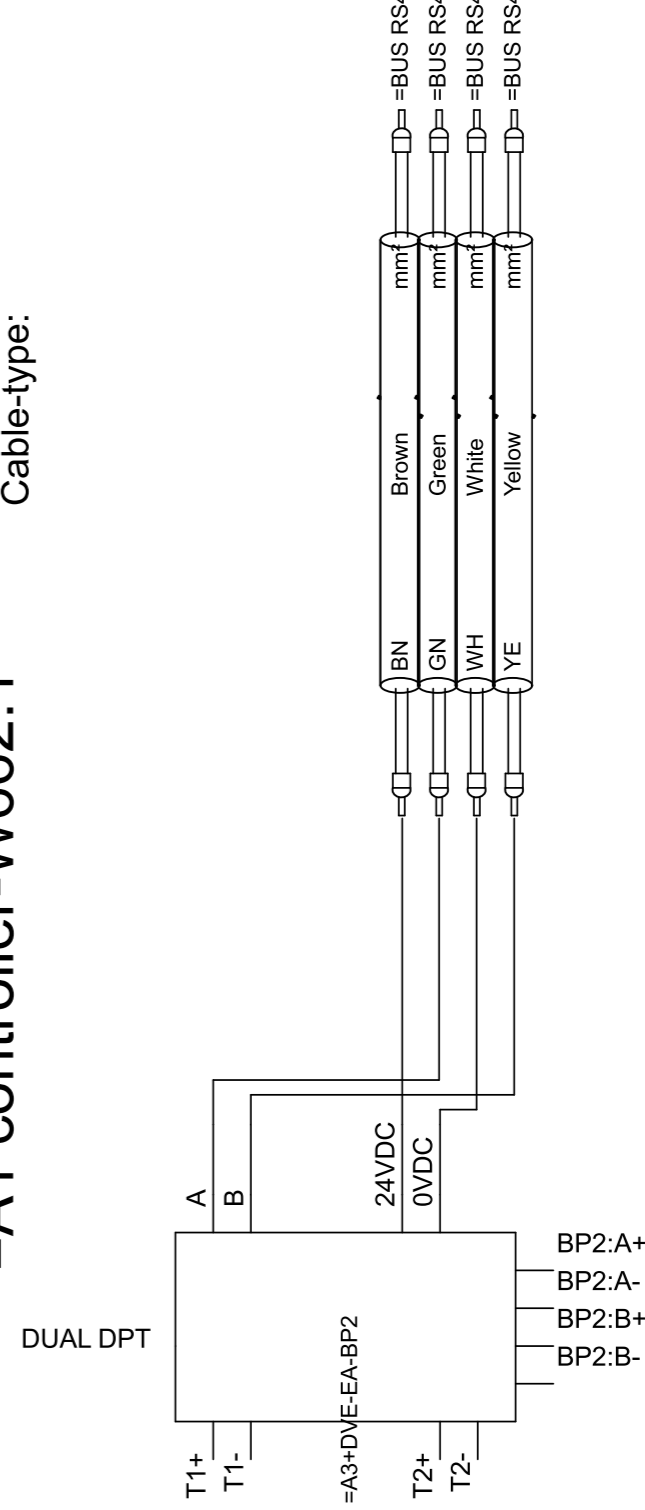
Bemærk: BP1 BUS  
Cable-type:



22  
22  
22  
22

=A1 controller-W662.1

Bemærk: BP2 BUS  
Cable-type:



2  
2  
2  
2

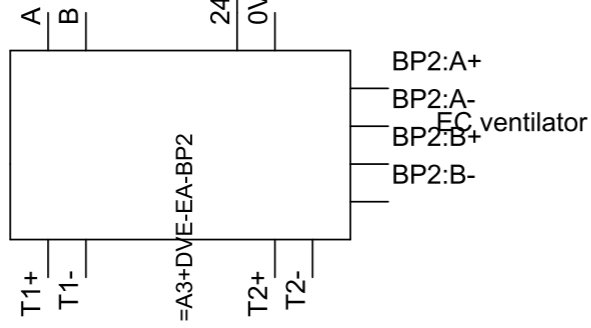
# Kabel plan

Strømvej  
Blad

Bemærk: BP2 BUS  
Cable-type:

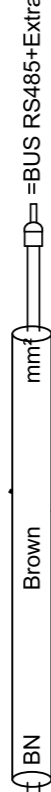
=A1 controller-W662.2

DUAL DPT



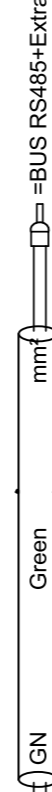
2

QM46324V



2

QM463C2



2

QM4630V



2

QM463C1



=A3-W343

Bemærk: Effektivitet temp.  
Cable-type: 2x0,25mm2

Eff. temp

+DVE-SA-BT4



2

22

2

22

=A3-W442

Bemærk: Exhaust Temp./de-ice  
Cable-type: 2x0,25mm2

Exhaust Temp.

+DVAF-EA-BT2



2

23

2

23

=A3-W444

Bemærk: Fraluft Temp.  
Cable-type: 2x0,25mm2

Fraluft Temp.

+DVAF-EA-BT3



1

22

1

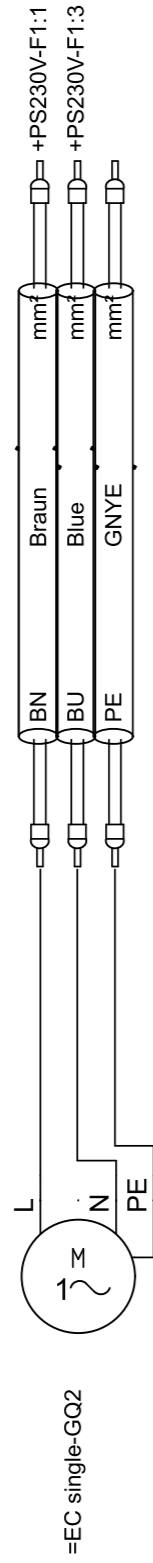
22

# Kabel plan

Strømvej  
Blad

7	8	8	4	5	5
18	18	18	18	18	18

=EC Single/Twin+Extract air-~~W102~~ Motor Fraluft  
Cable-type:



=EC Single/Twin+Supply air-~~W101~~ Motor Tilluft  
Cable-type:

