

Geniox Core Control system 44.04.02 (230V Pre-heat)

Dokumenter vist på de nedenstående sider

Projekt forside: side 1

Hurtig vejledning: side 2

Generel beskrivelse: side 3-4

External Tilslutninger: page 10-17

Circuit Diagram: page 19-26

Modbus Guide: page 21

Modbus address list: page 26

Cable plan: page 100-116

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



Geniox
Access CU27 Regulator

Forside

Projekt:

Geniox-Core CS 44.04.02 230V Pre-heat DK

Rev.:

44.04.02

Blad:

1

Dato:

07-08-2020

Initialer:

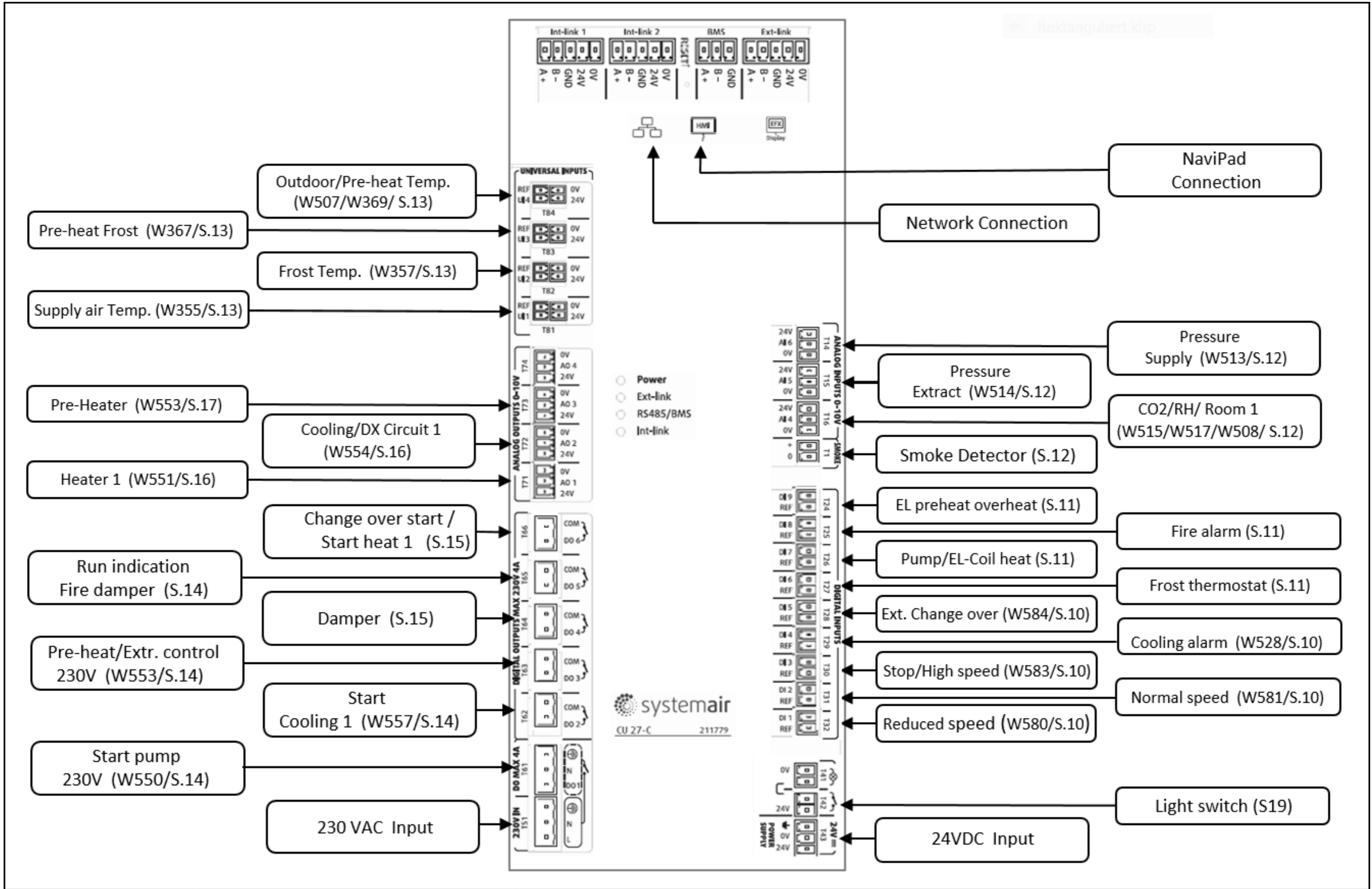
MIKE

Antal sider:

4

Næste side

2



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

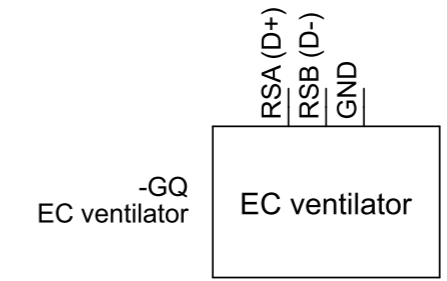
-EA Lampe

-SF Koblingsudstyr

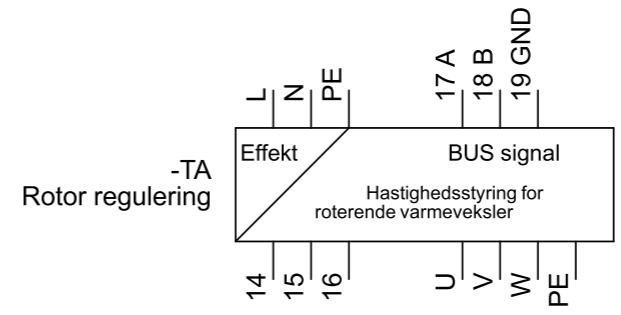
-BP Tryktransmitter

-BP Pressostat

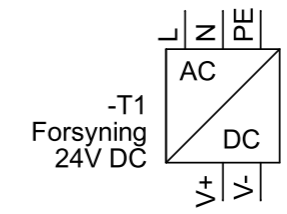
-F Automatsikring,



EBM EC ventilator



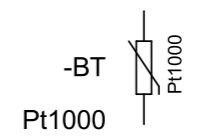
Roterende varmeveksler



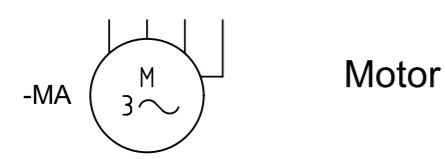
Forsyning



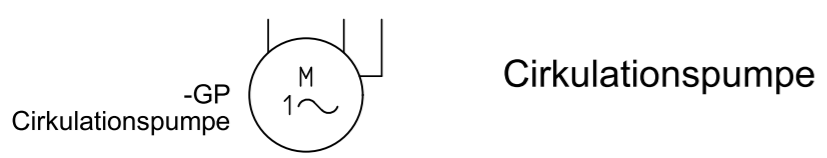
Brandvagt



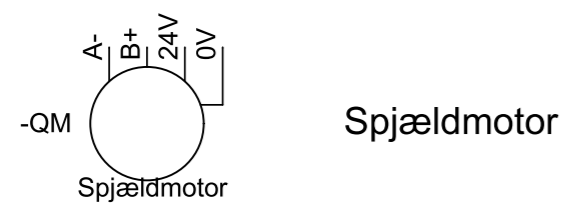
Temperatur (måling)



Motor



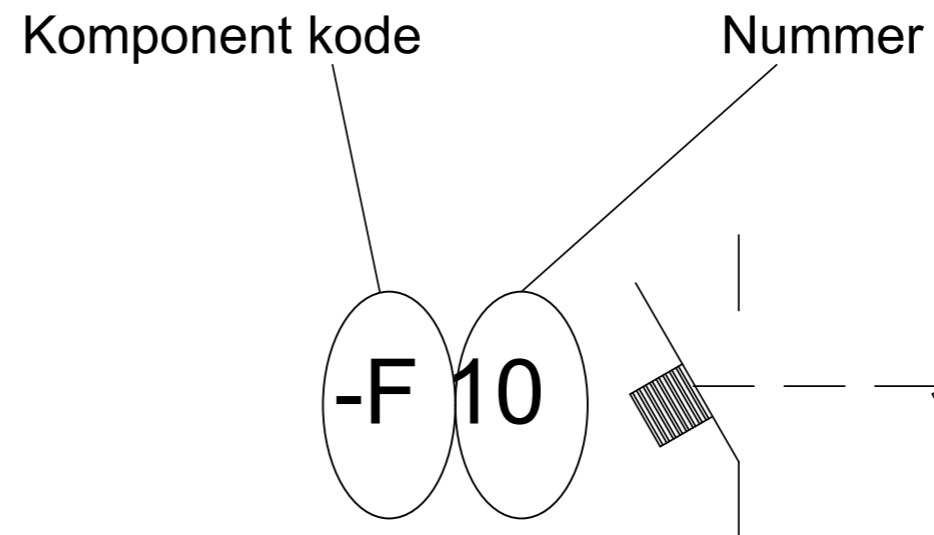
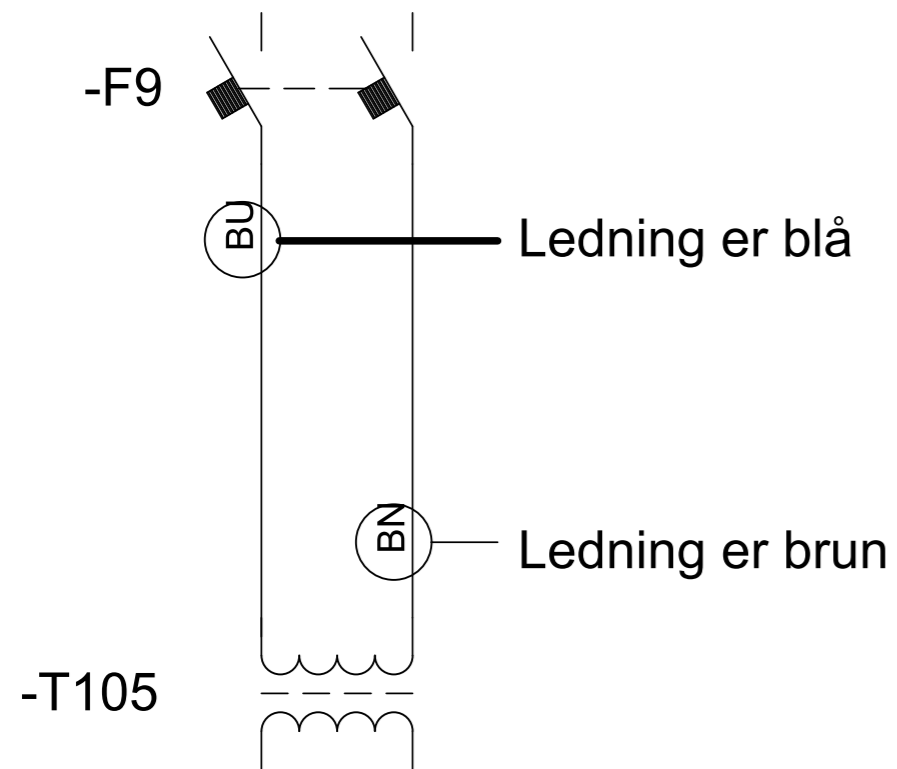
Cirkulationspumpe

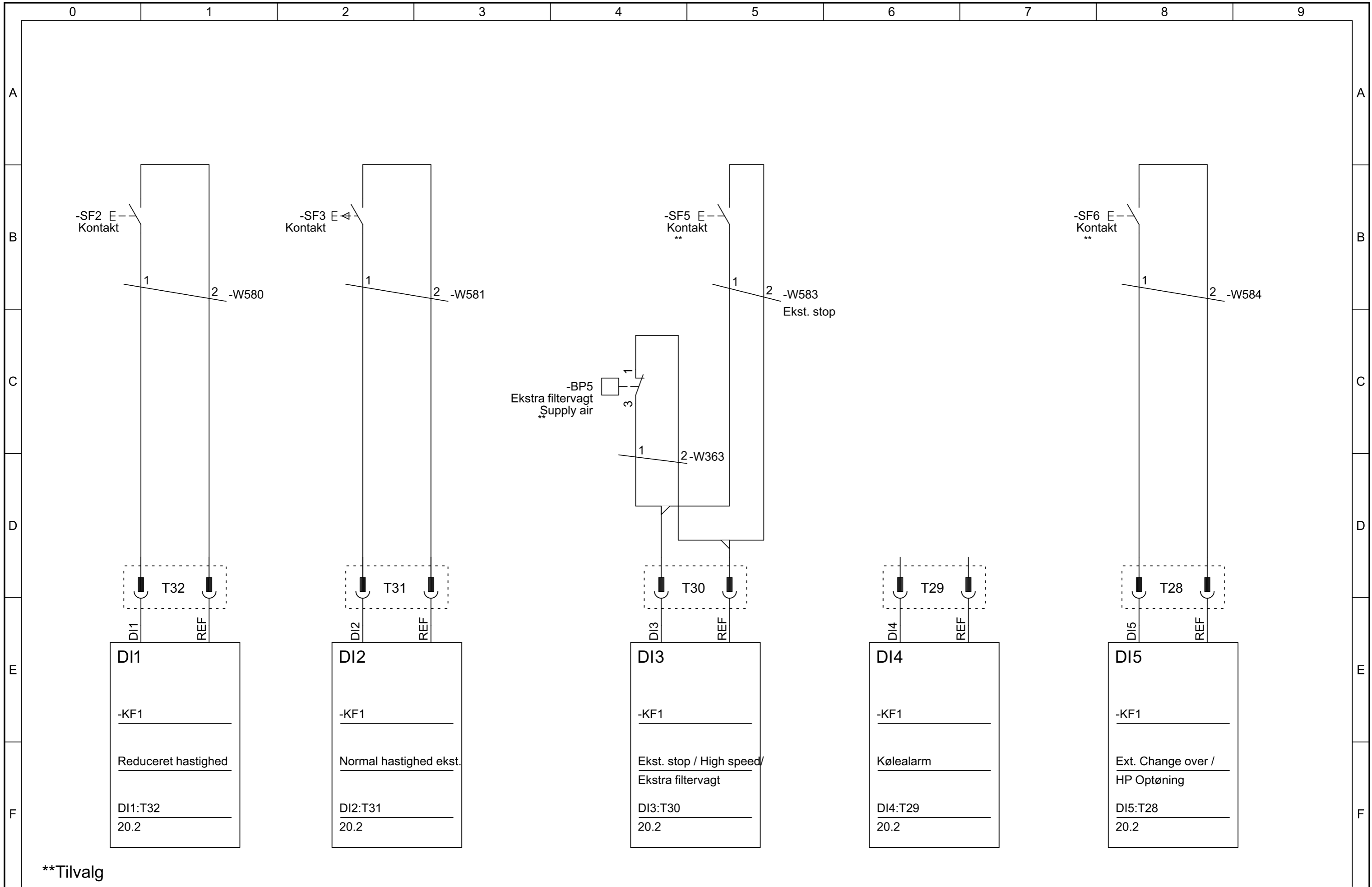


Spjældmotor

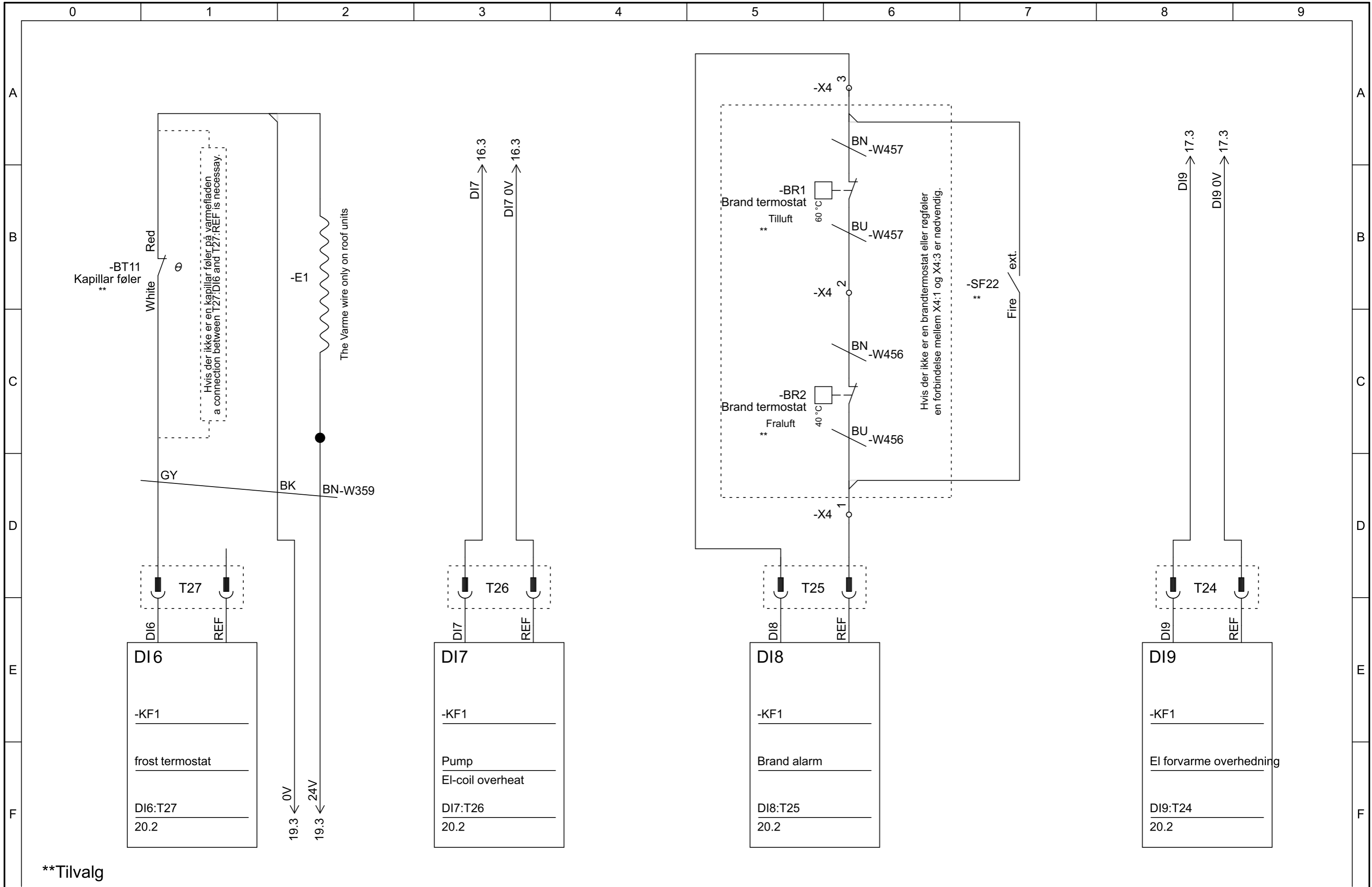
Labeling of wires
are marked with
Klemme name

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

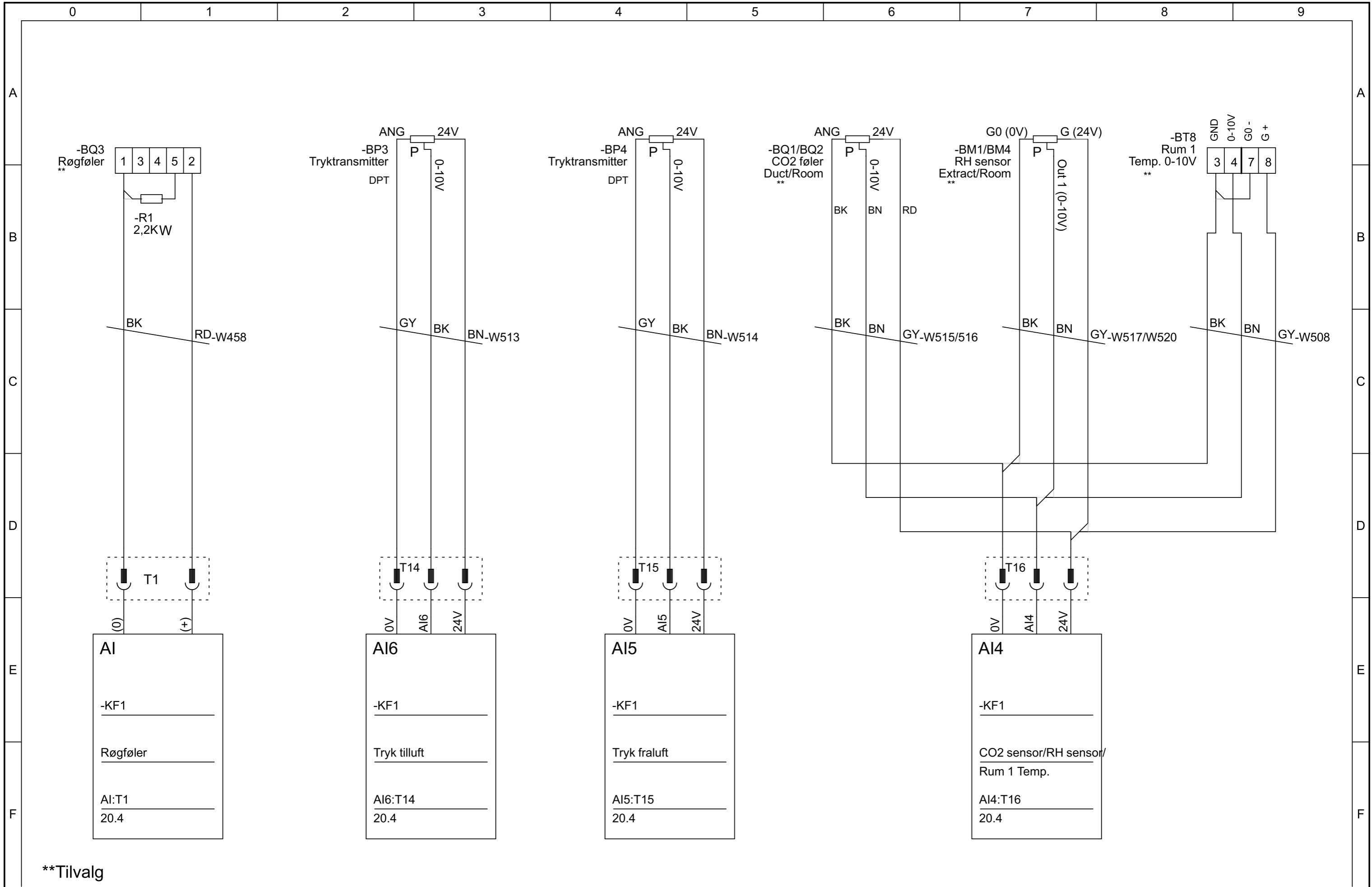




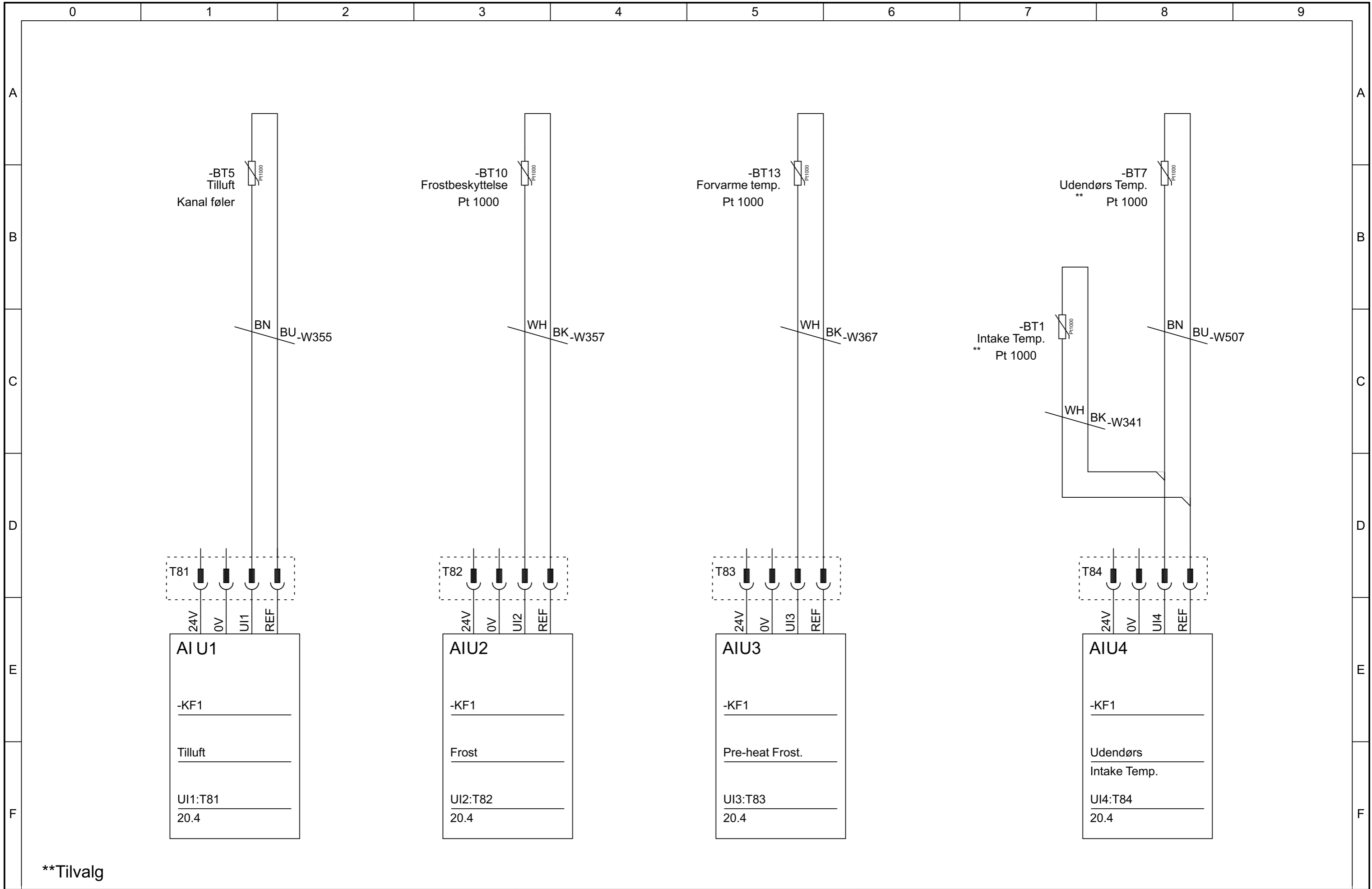
**Tilvalg



**Tilvalg



**Tilvalg



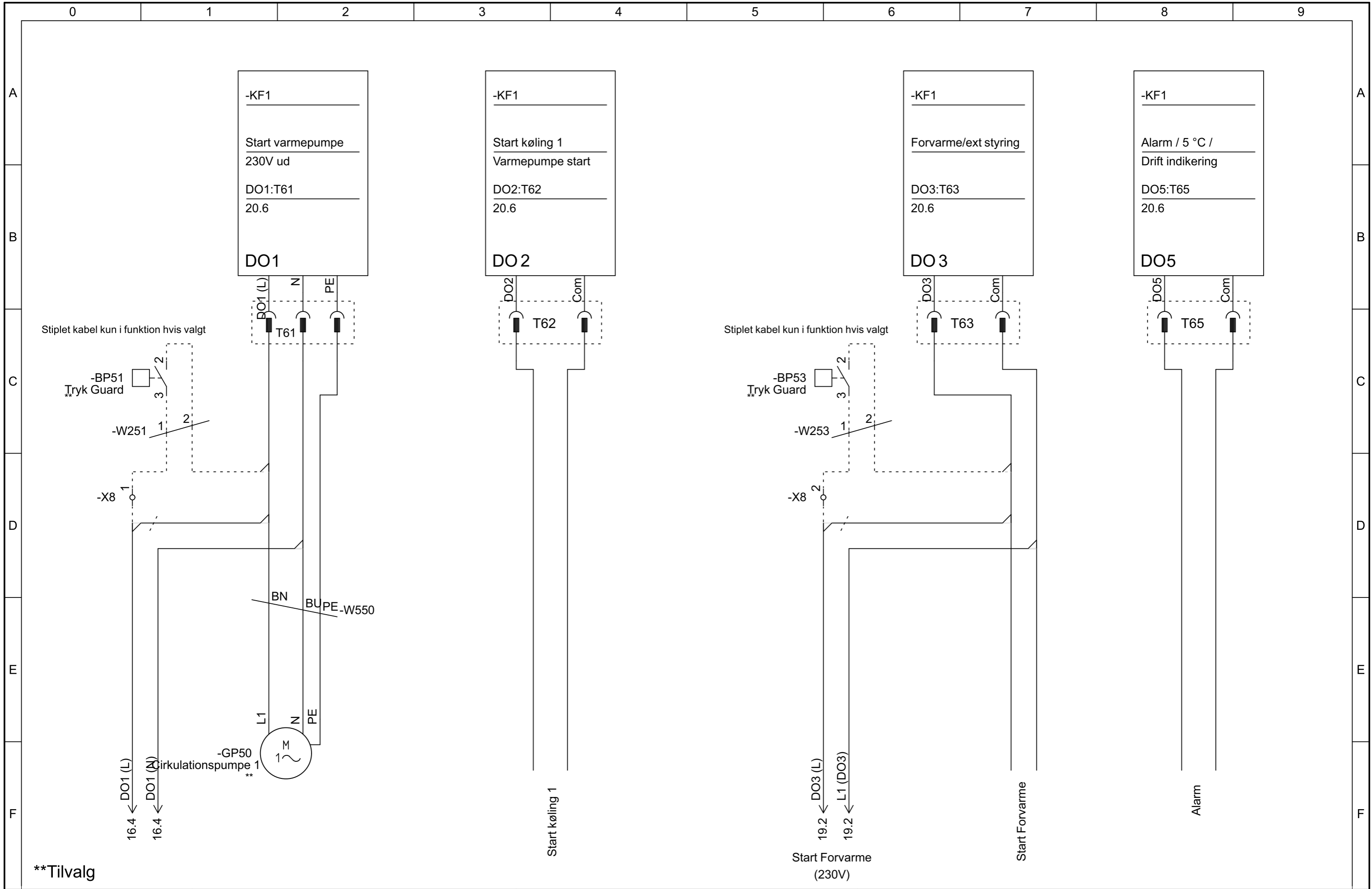
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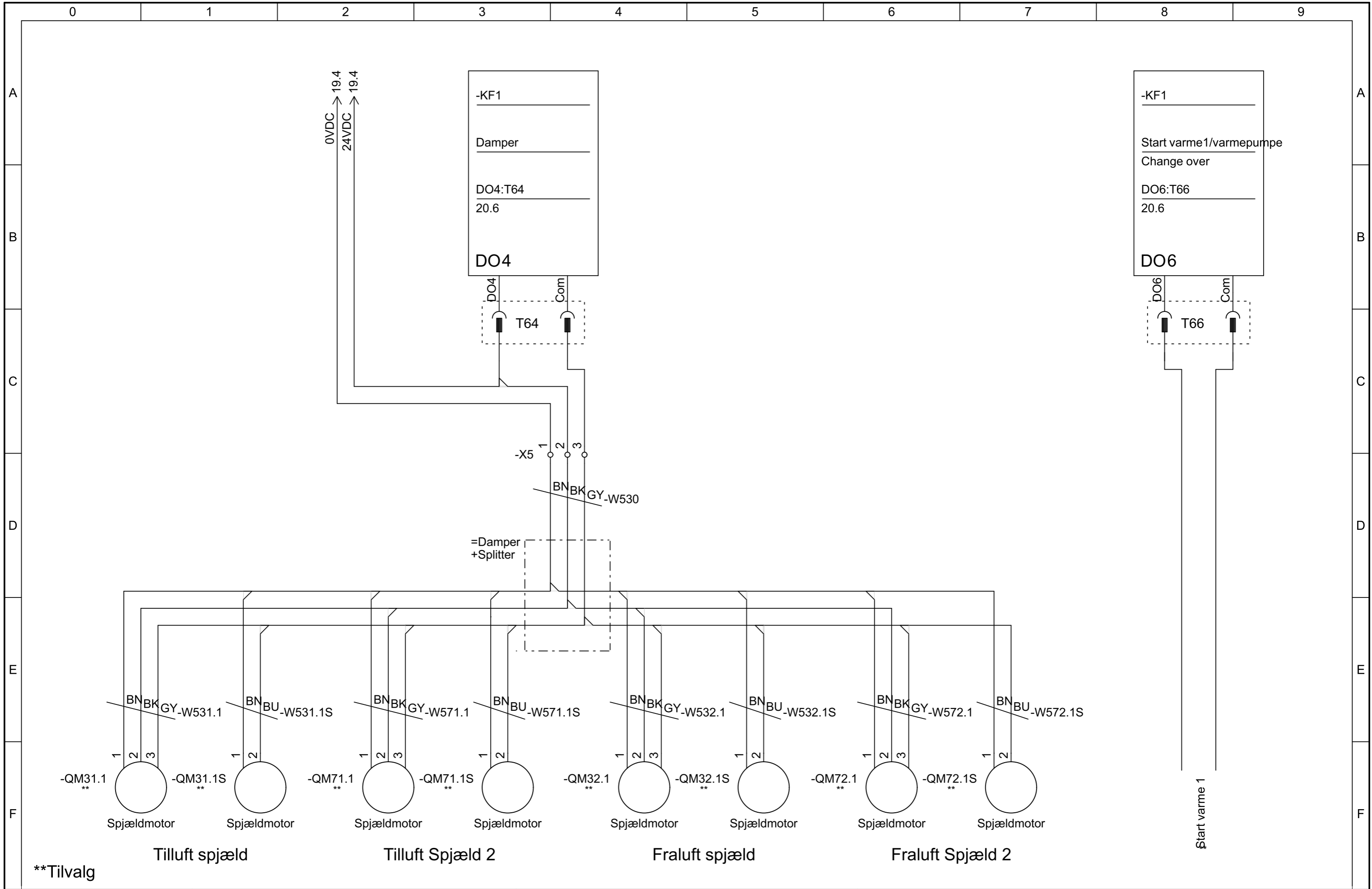


Geniox
Access CU27 Regulator

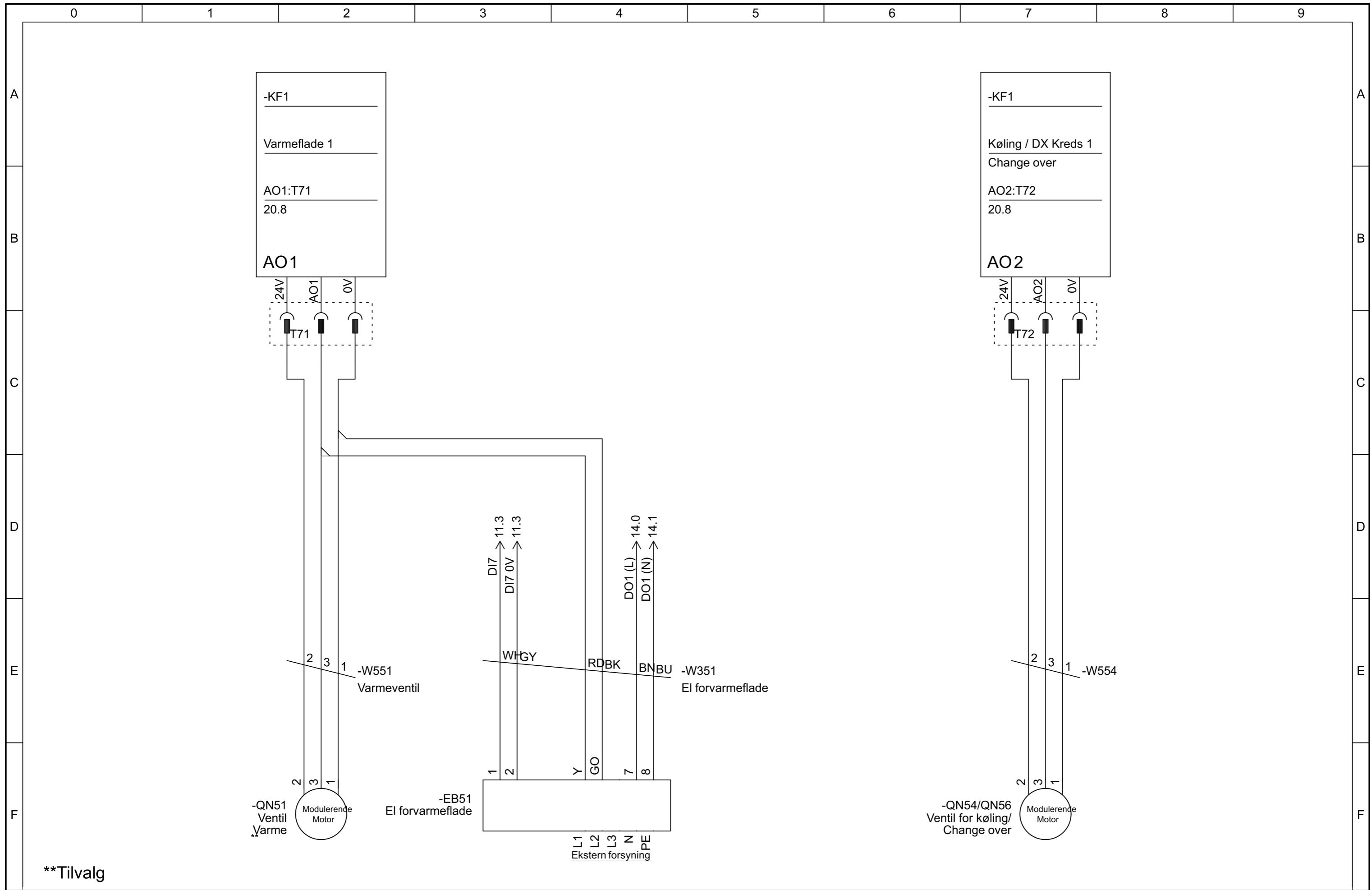
External connections UI

Projekt: Geniox-Core CS 44.04.02 230V Pre-heat DK	Rev.: 44.04.02	Blad: 13
Dato: 06-11-2019	Initialer: MIKE	Antal sider: 17
		Næste side 14

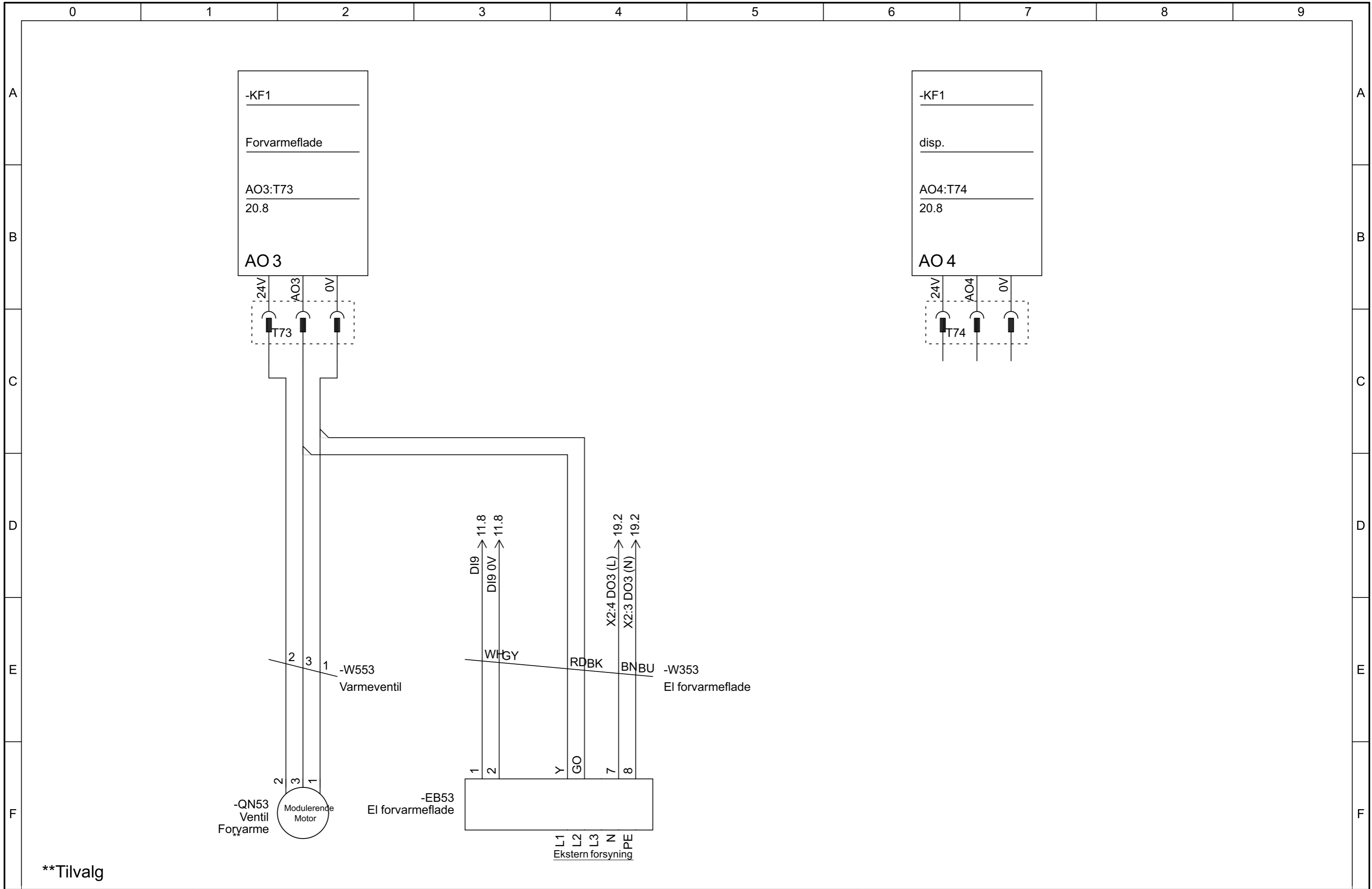




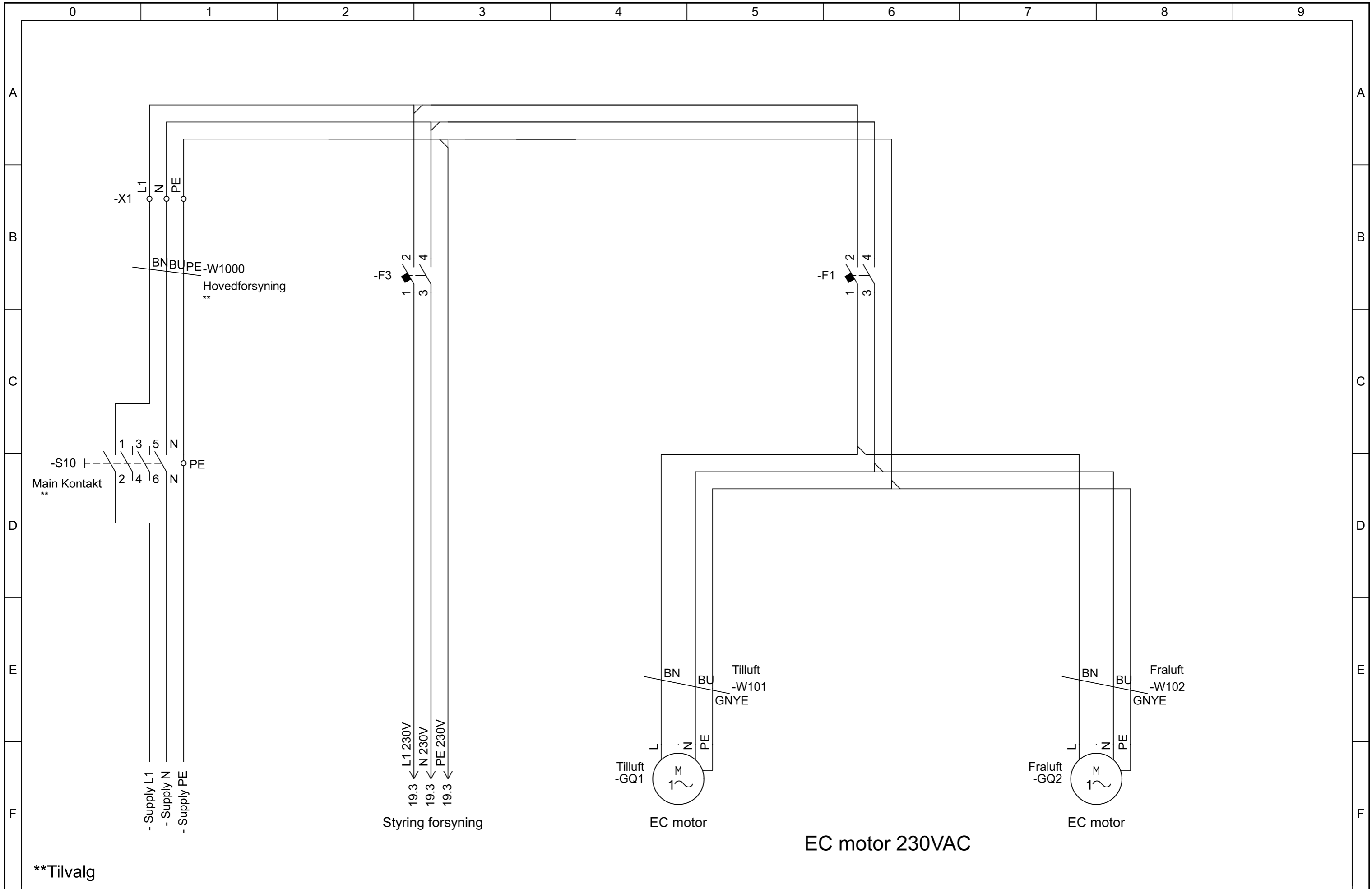
**Tilvalg




**Tilvalg

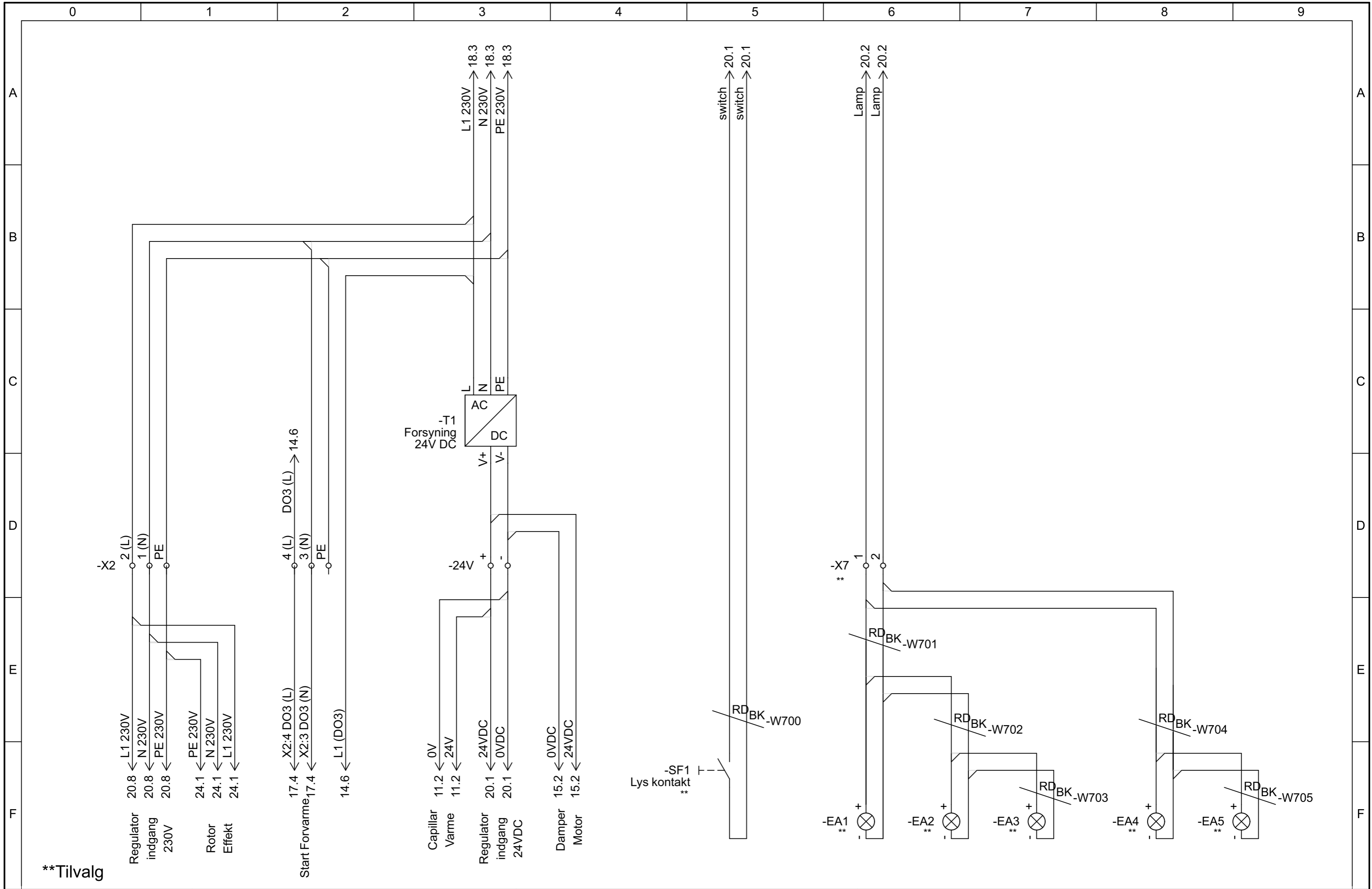


**Tilvalg



**Tilvalg

	Geniox Access CU27 Regulator	Main Effekt EC ventilator	Projekt: Geniox-Core CS 44.04.02 230V Pre-heat DK	Rev.: 44.04.02	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



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



UI1:T81 13.1 24V
Tilluft



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



DI6:T27 11.1 DI6
frost termostat



UI2:T82 13.3 24V
Frost



DO6:T66 15.8 DO6
Start varme1/varmpumpe
Change over



DI7:T26 11.3 DI7
Pump
EI-coil overheat



UI3:T83 13.5 24V
Pre-heat Frost.



DI8:T25 11.5 DI8
Brand alarm



UI4:T84 13.8 24V
Udendørs
Intake Temp.



DI9:T24 11.8 DI9
EI forvarme overhedning



24VDC Ind

Light

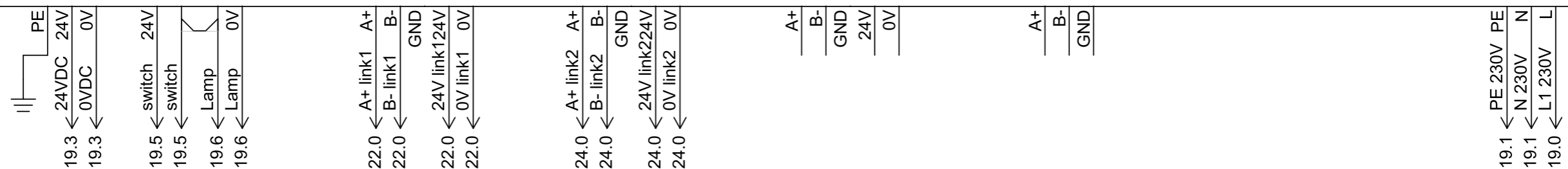
Int-link 1

Int-link 2

Ext-link

BMS

230V Ind



Geniox
Access CU27 Regulator

Access CU27 Regulator

Projekt: Geniox-Core CS 44.04.02 230V Pre-heat DK

Rev.: 44.04.02

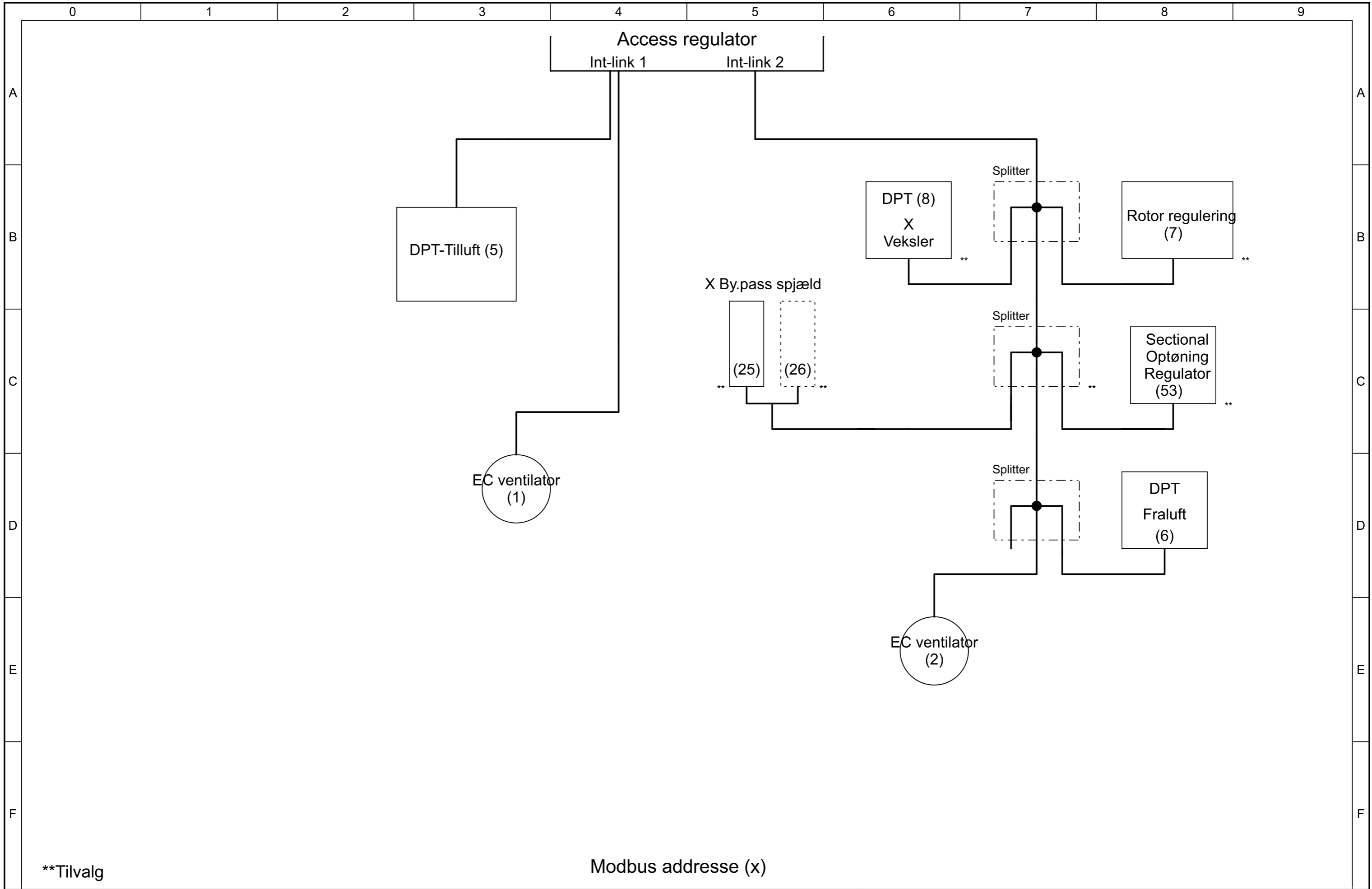
Blad: 20

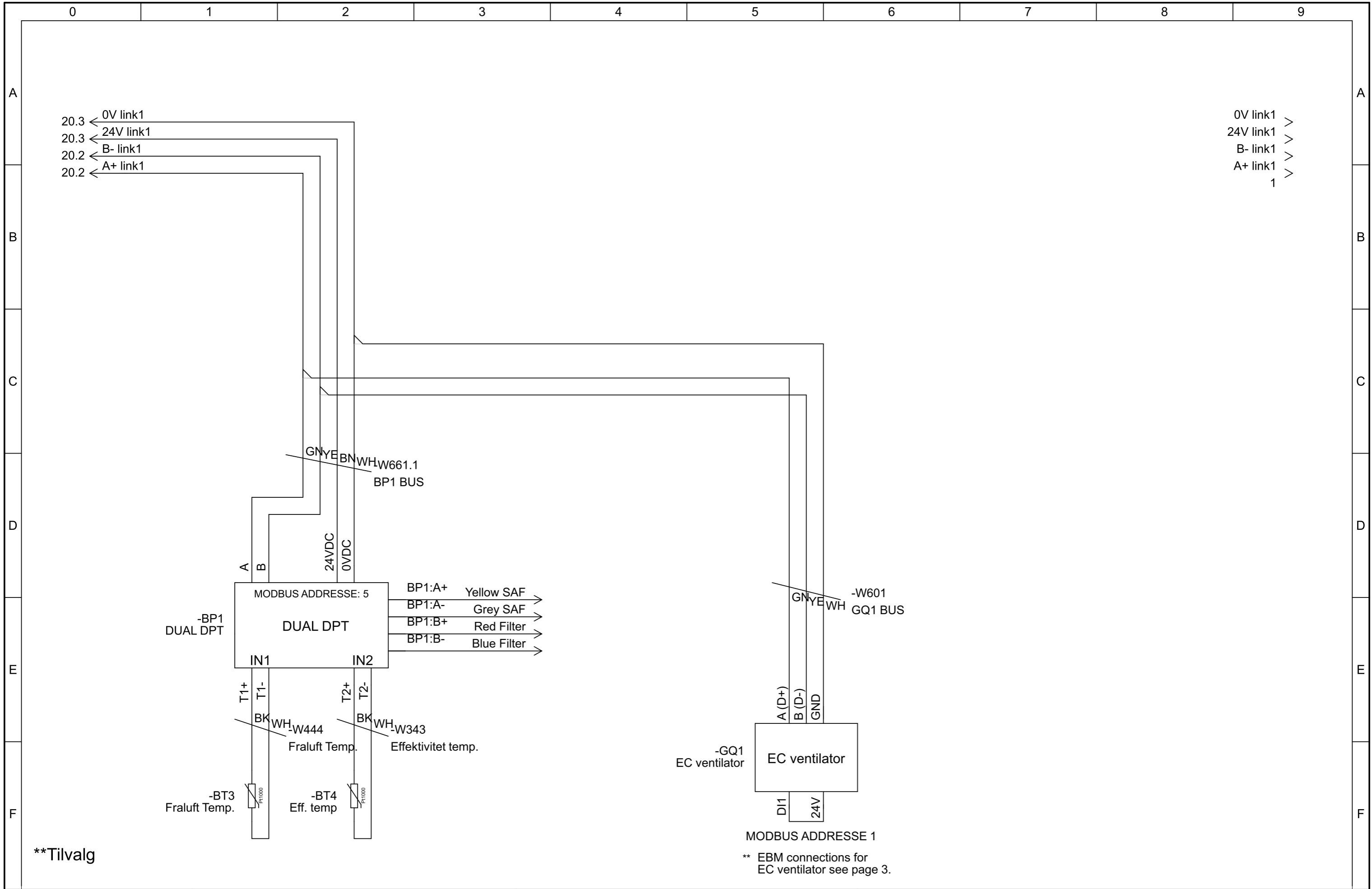
Dato: 06-11-2019

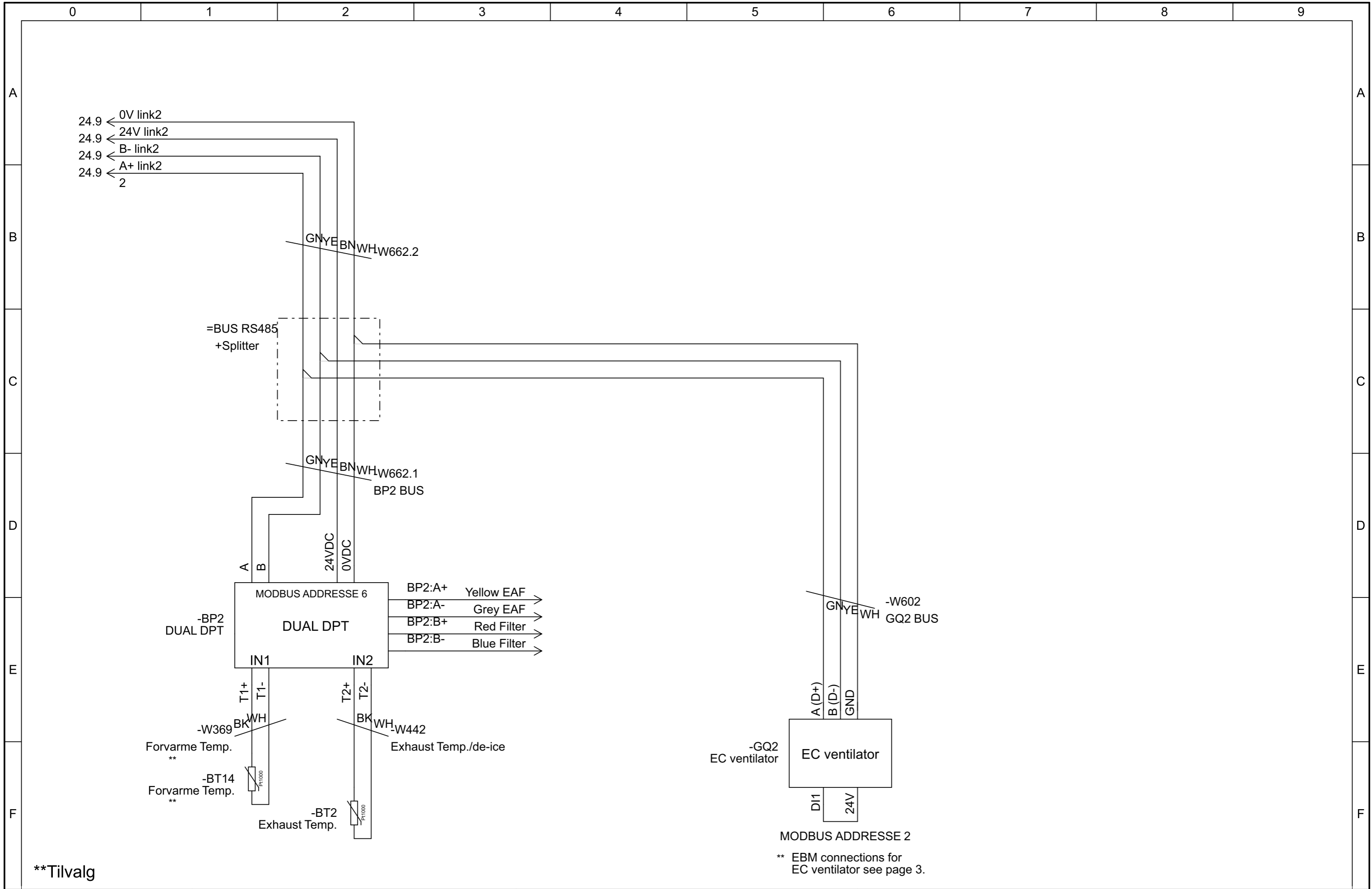
Initialer: MIKE

Antal sider: 17

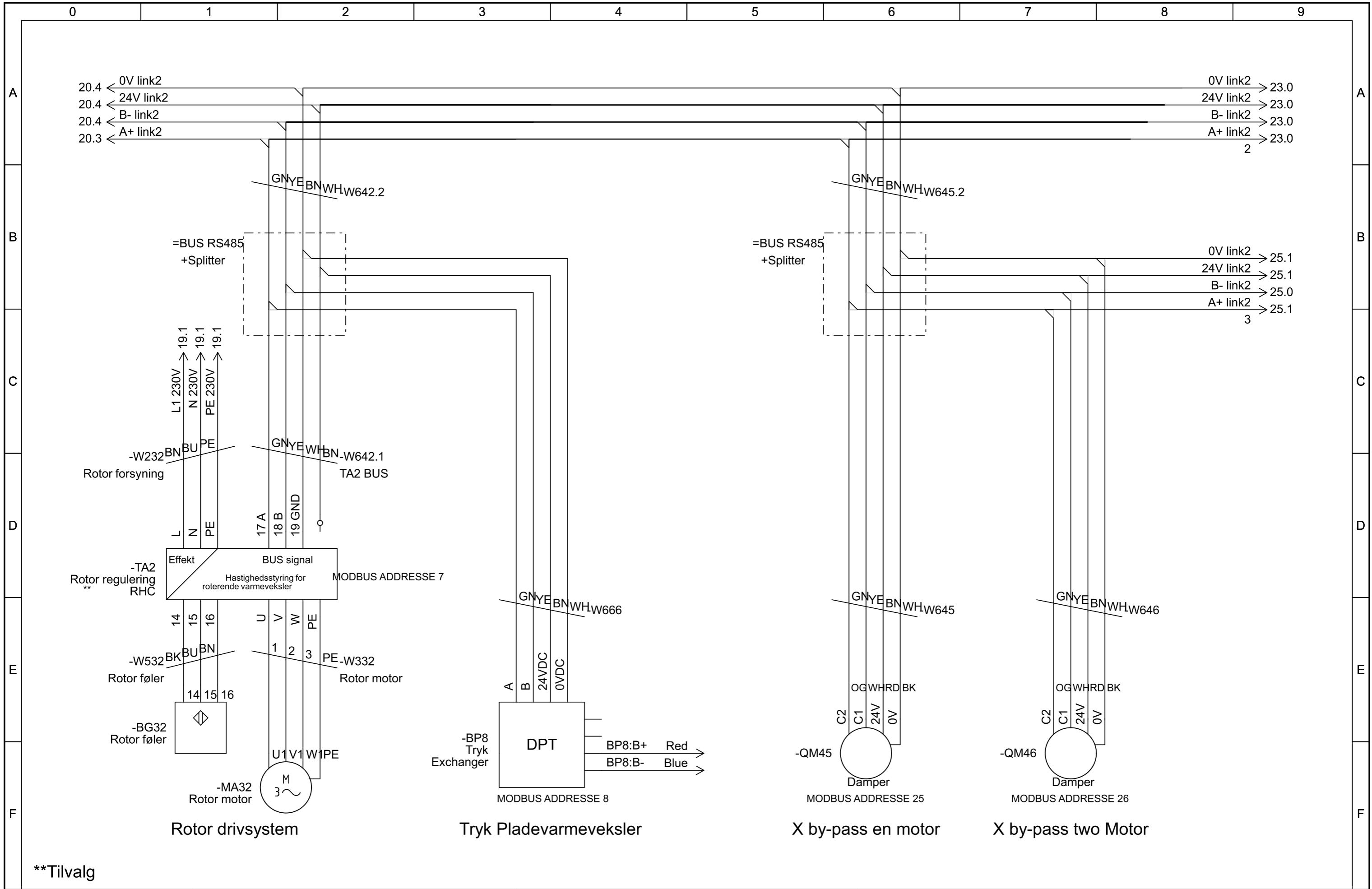
Næste side 21



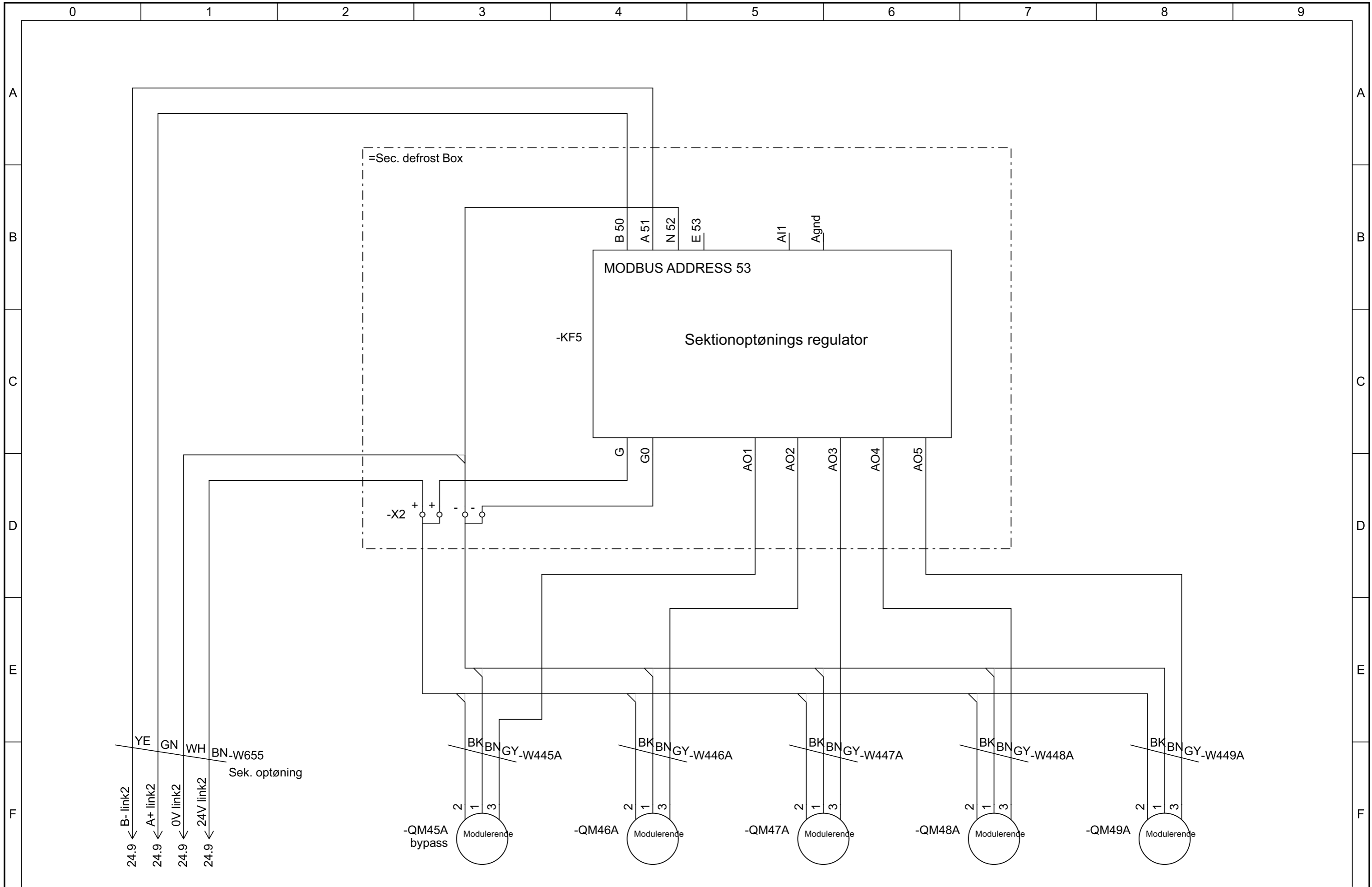




**Tilvalg



**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.



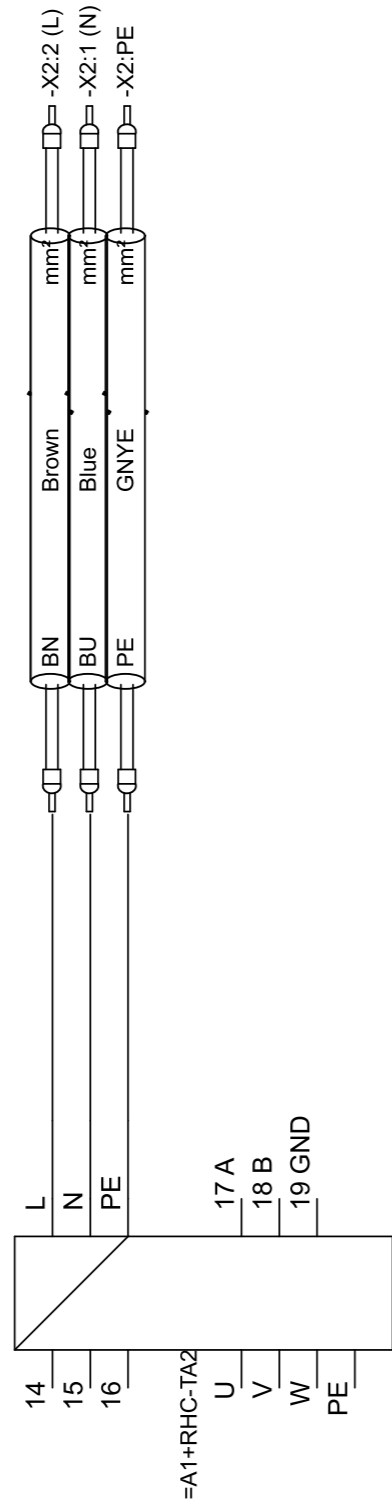
Kabel plan

Strømvej
Blad

Bemærk: Rotor forsyning
Cable-type:

-W232

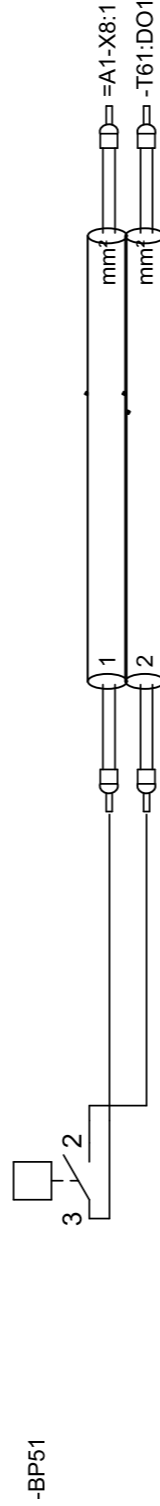
Rotor regulering
RHC



Bemærk:
Cable-type:

-W251

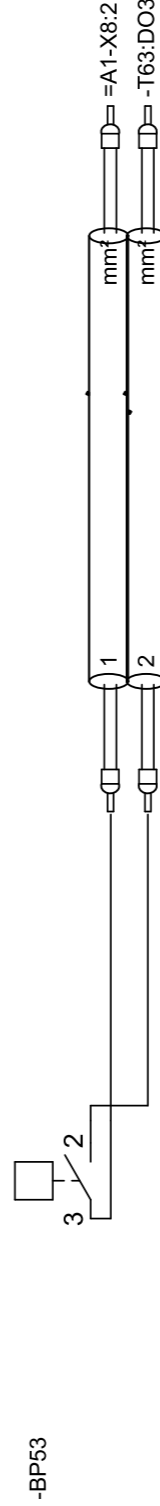
Tryk Guard



Bemærk:
Cable-type:

-W253

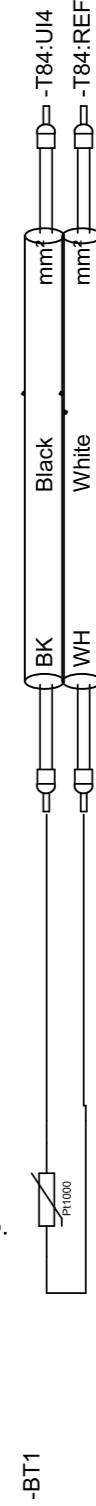
Tryk Guard



Bemærk: Intake Temp.
Cable-type:

-W341

Intake Temp.
Pt 1000



1
1
1

24
24
24

1
1

14
14

6
6

14
14

7
7

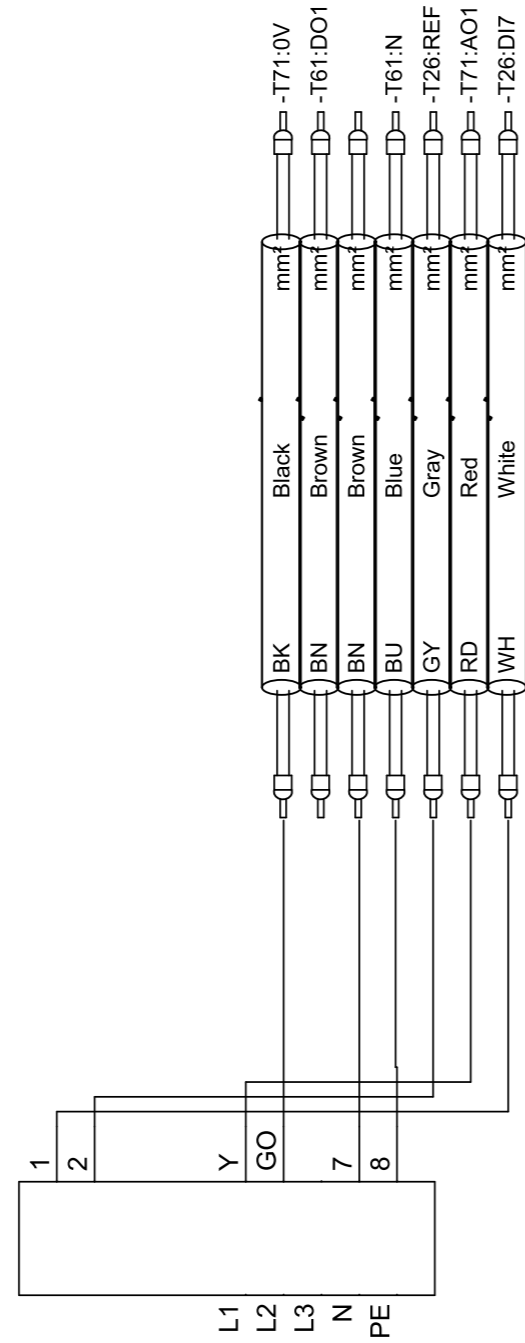
13
13

Kabel plan

Strømvej
Blad

Bemærk: El varmeplade
Cable-type:

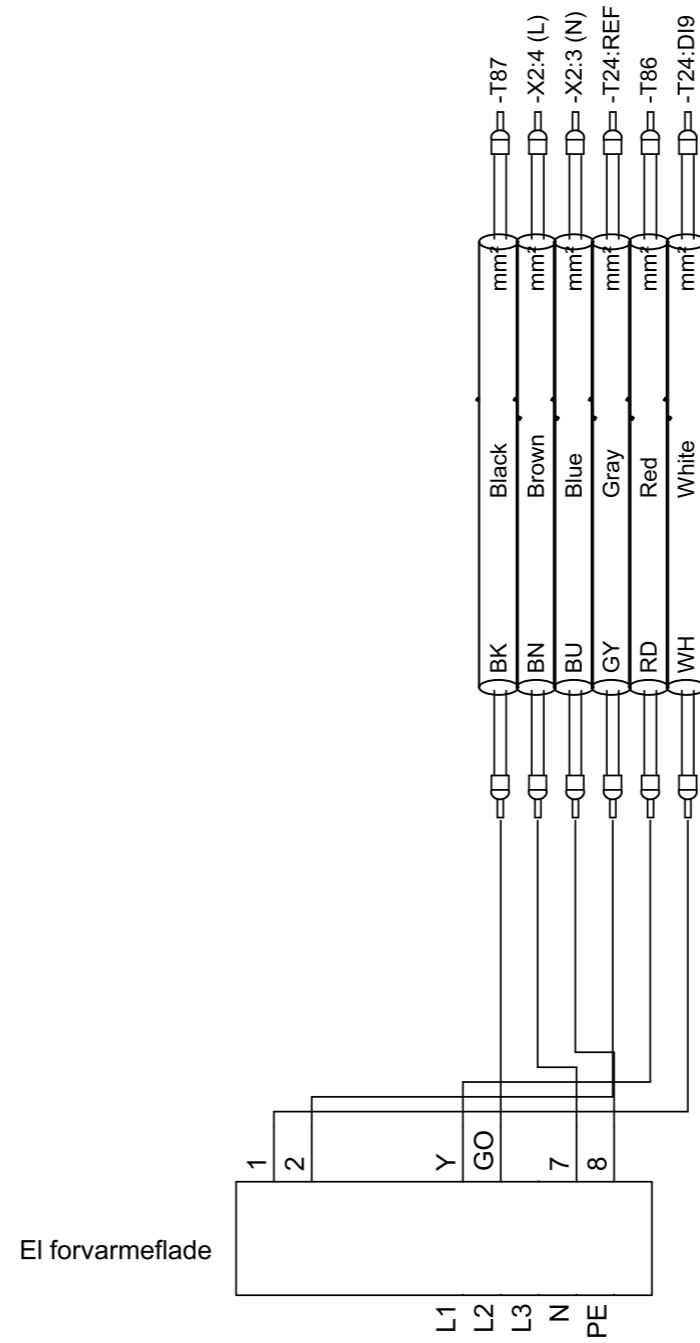
-W351
El forvarmeplade



-EB51

Bemærk: El forvarmeplade
Cable-type:

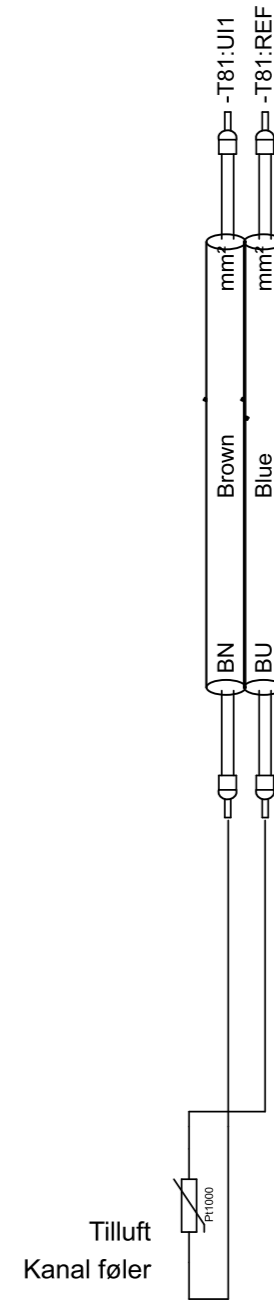
-W353
El forvarmeplade



-EB53

Bemærk: Temperatur føler tilluft
Cable-type:

-W355
Tilluft
Kanal føler



-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

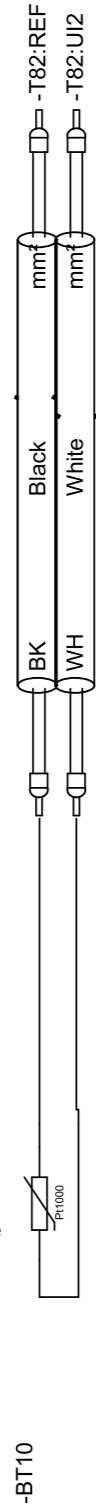
Kabel plan

Strømvej
Blad

Bemærk: Frostbeskyttelse varmeklode
Cable-type:

-W357

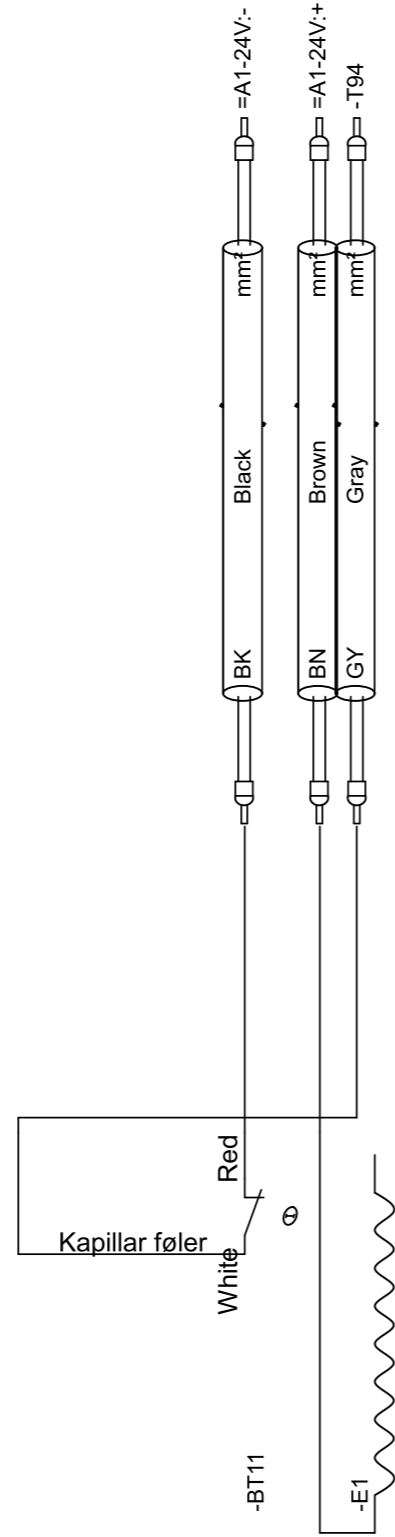
Frostbeskyttelse
Pt 1000



-W359

Kapillar føler

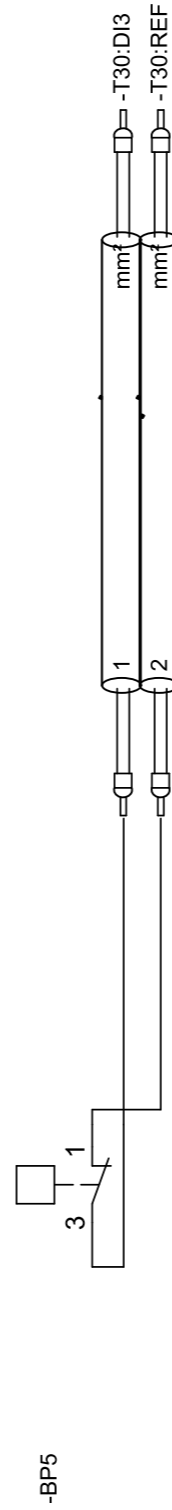
Bemærk: frost termostat
Cable-type:



-W363

Bemærk: Ekstra filtervagt
Cable-type:

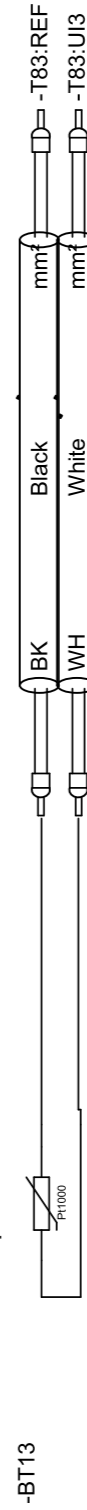
Ekstra filtervagt
Supply air



-W367

Forvarme temp.
Pt 1000

Bemærk: Forvarme temp.
Cable-type:



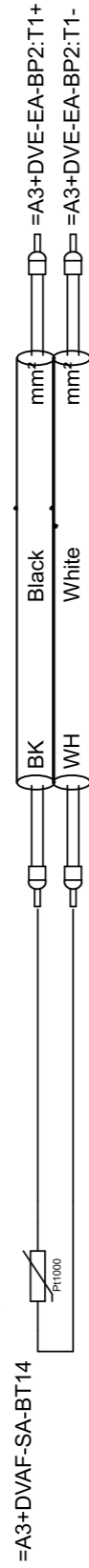
Kabel plan

Strømvej
Blad

-W369

Bemærk: Forvarme temp.
Cable-type:

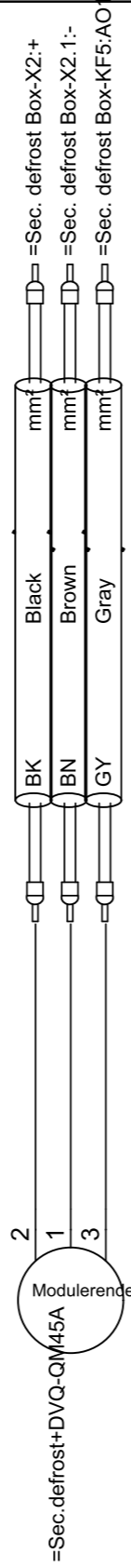
Forvarme Temp.



-W445A

Bemærk:
Cable-type:

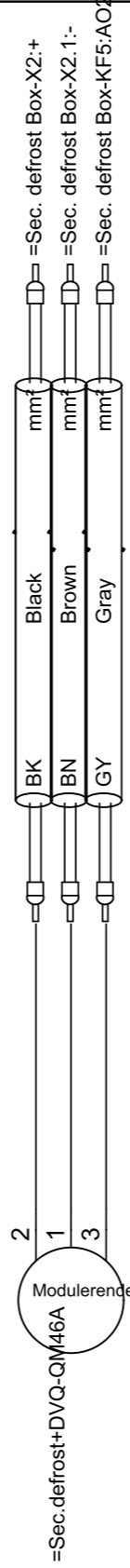
bypass



-W446A

Bemærk:
Cable-type:

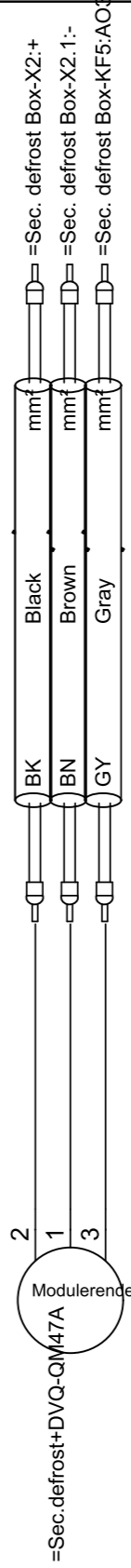
Modulerende



-W447A

Bemærk:
Cable-type:

Modulerende

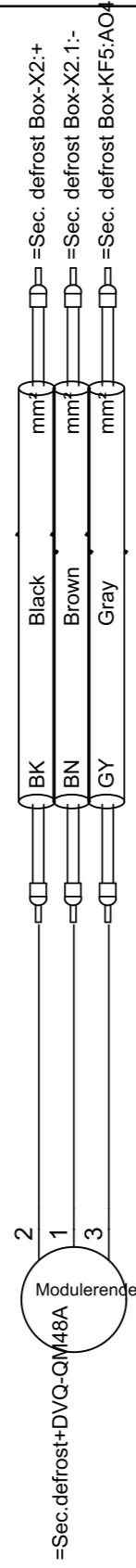


Kabel plan

Strømvej
Blad

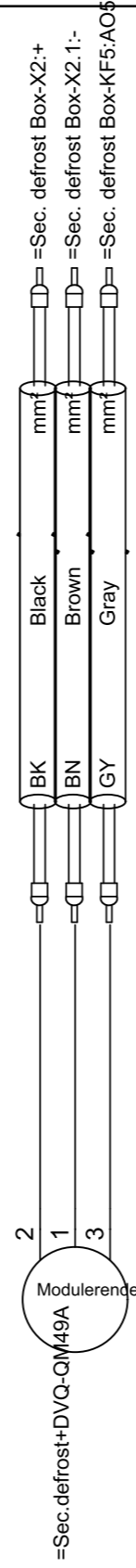
-W448A

Bemærk:
Cable-type:



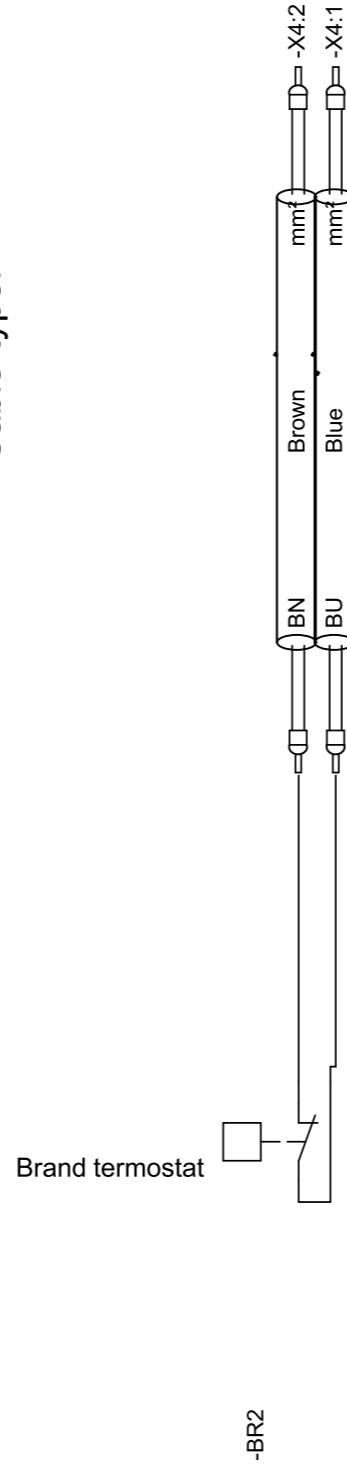
-W449A

Bemærk:
Cable-type:



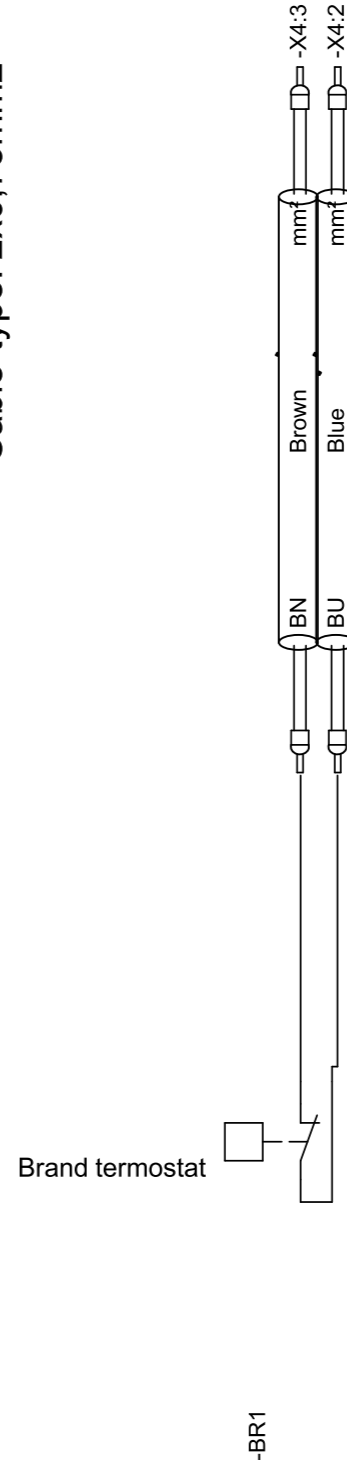
-W456

Bemærk: Brandtermostat fraluft
Cable-type:



-W457

Bemærk: Brandtermostat
Cable-type: 2x0,75mm2



7
25

8
25

6
11

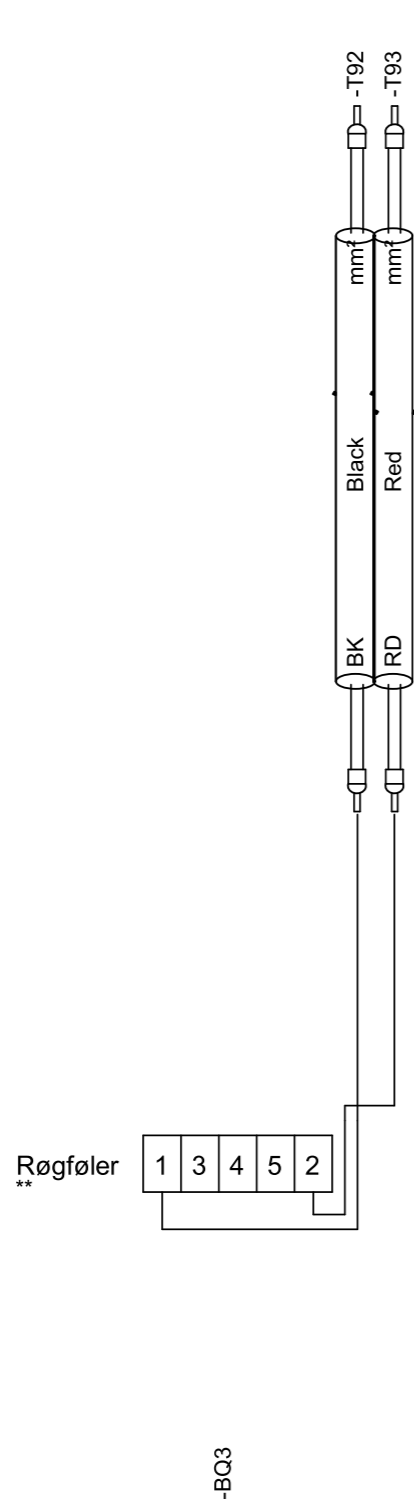
6
11

Kabel plan

Strømvej
Blad

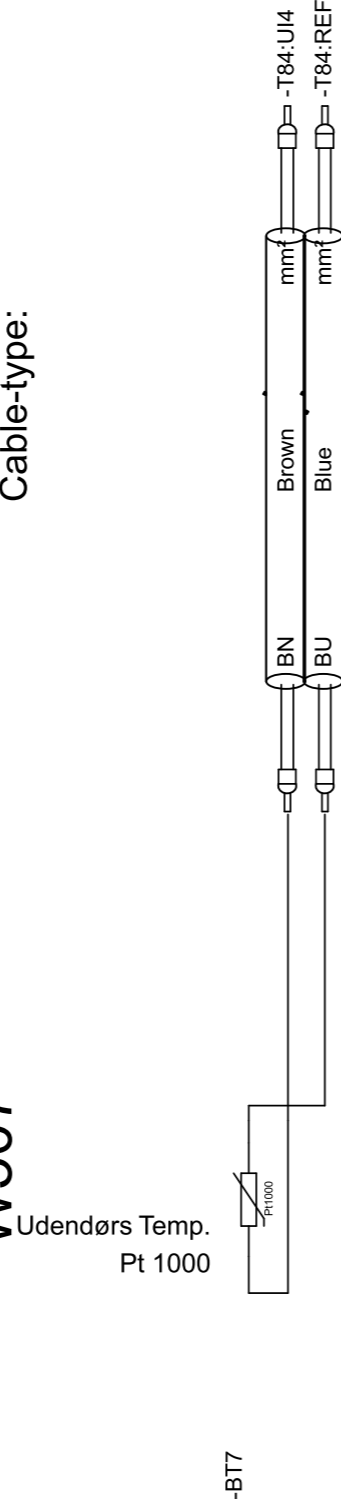
Bemærk: Røg føler
Cable-type:

-W458



Bemærk: Ude føler
Cable-type:

-W507



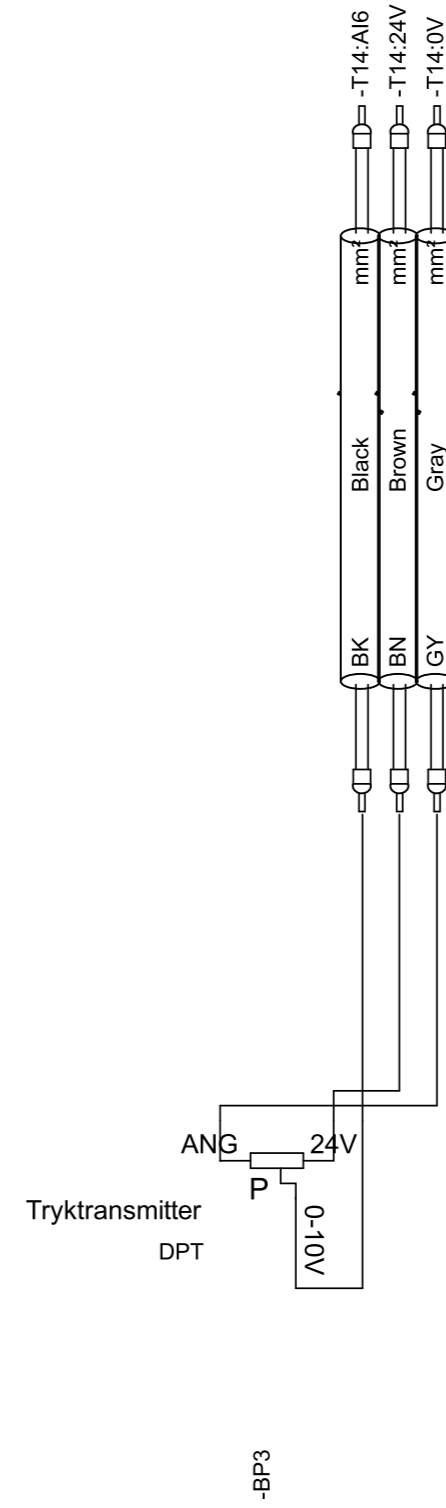
Bemærk: Rum føler 1
Cable-type:

-W508



Bemærk: Tryk Tilluft ekstern
Cable-type:

-W513



0
12

8
13

8
12

3
12

1
12

8
13

9
12

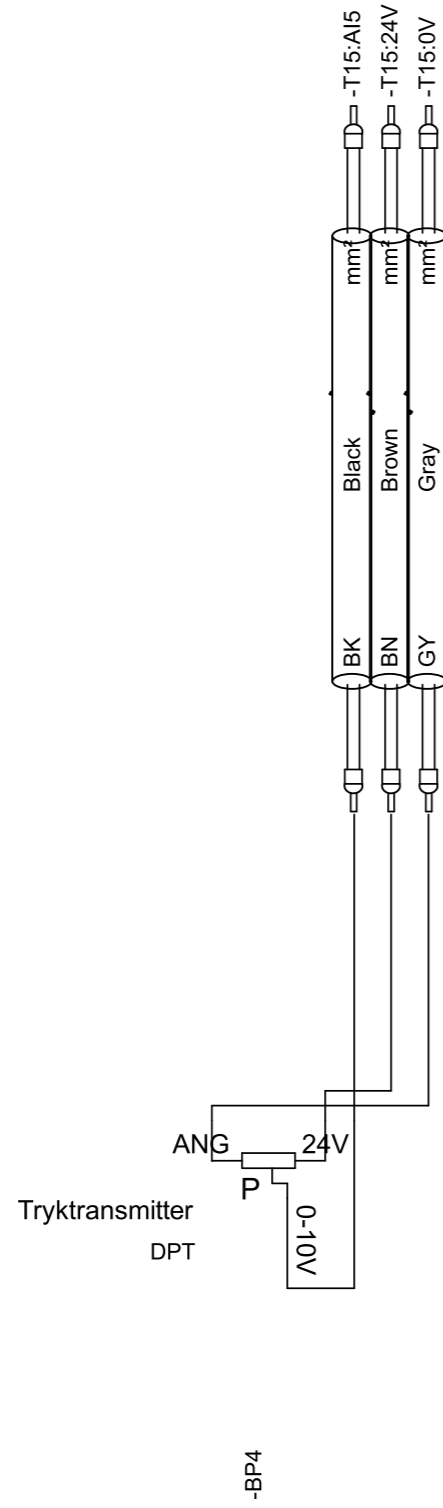
3
12

Kabel plan

Strømvej
Blad

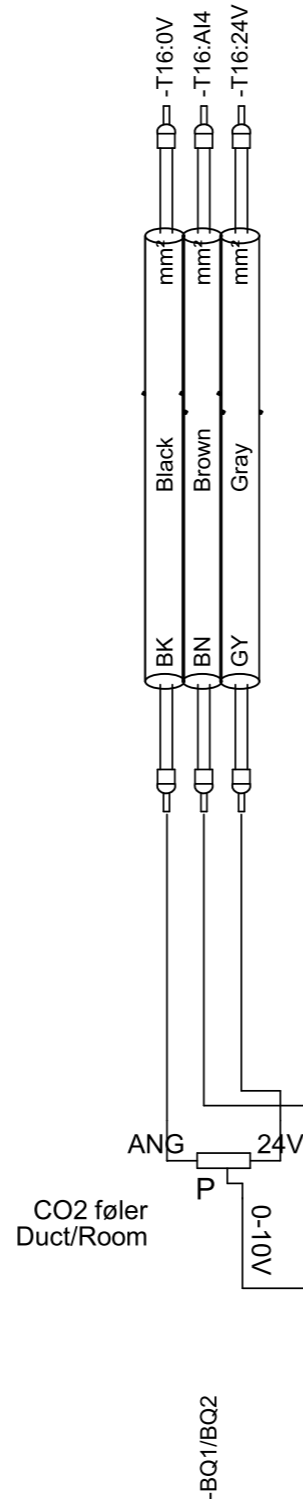
Bemærk: Tryk Fraluft ekstern
Cable-type:

-W514



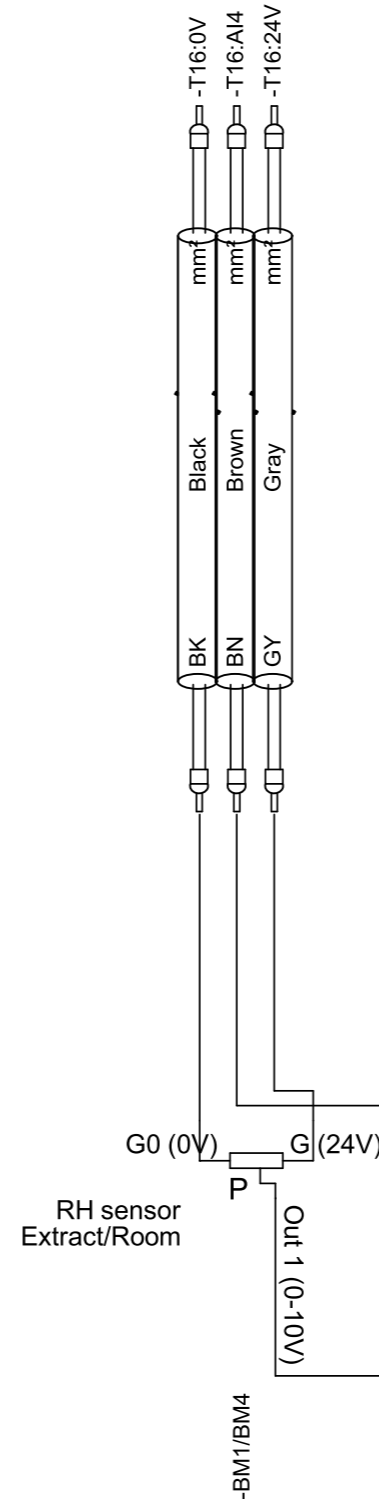
Bemærk: CO2 føler
Cable-type:

-W515/516



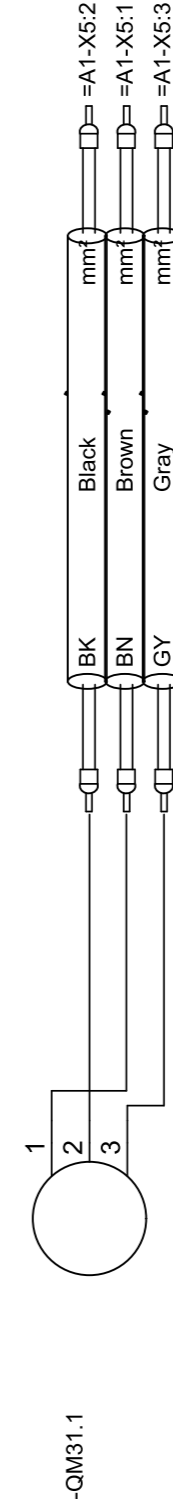
Bemærk: RH sensor
Cable-type:

-W517/W520



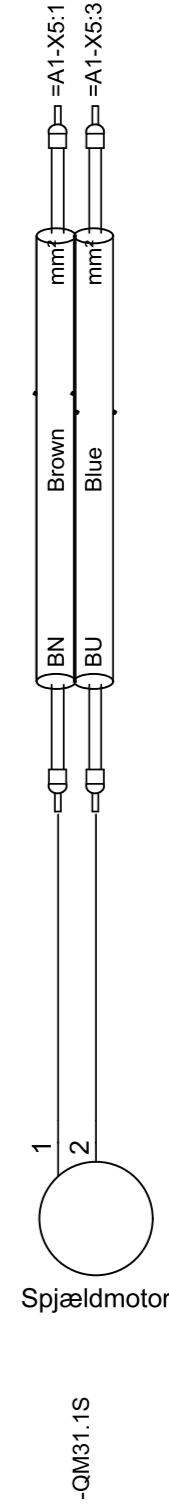
Bemærk: Spjæld Tilluft
Cable-type:

-W531.1



Bemærk: Spjæld Tilluft
Cable-type:

-W531.1S



4
5
4

6
6
6

7
7
7

1
0
1

1
1

12
12
12

12
12
12

12
12
12

15
15
15

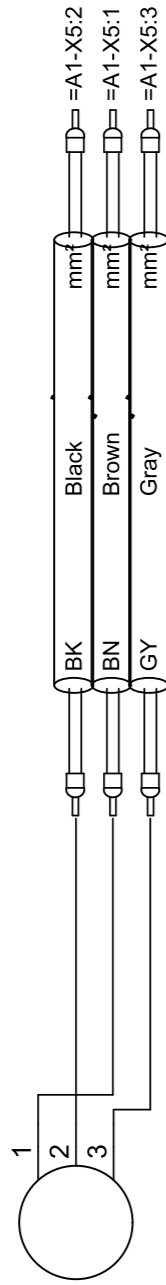
15
15

Kabel plan

Strømvej
Blad

-W532.1

Bemærk: Spjæld Fraluft
Cable-type:



-QM32.1

-W532.1S

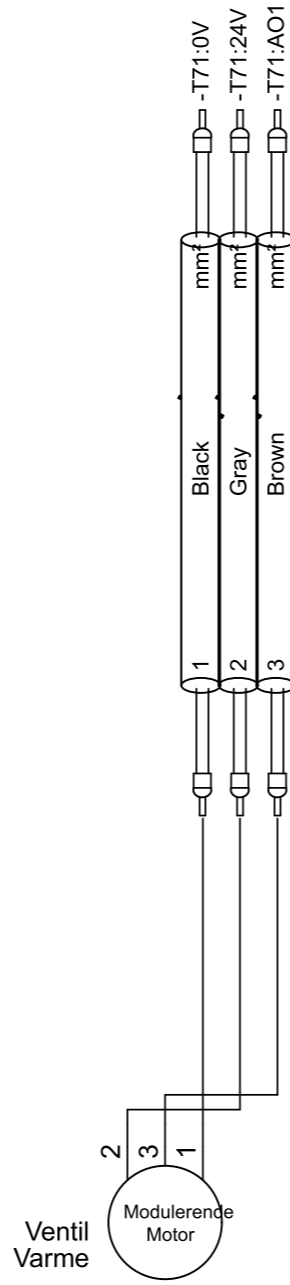
Bemærk: Spjæld Fraluft
Cable-type:



-QM32.1S

-W551

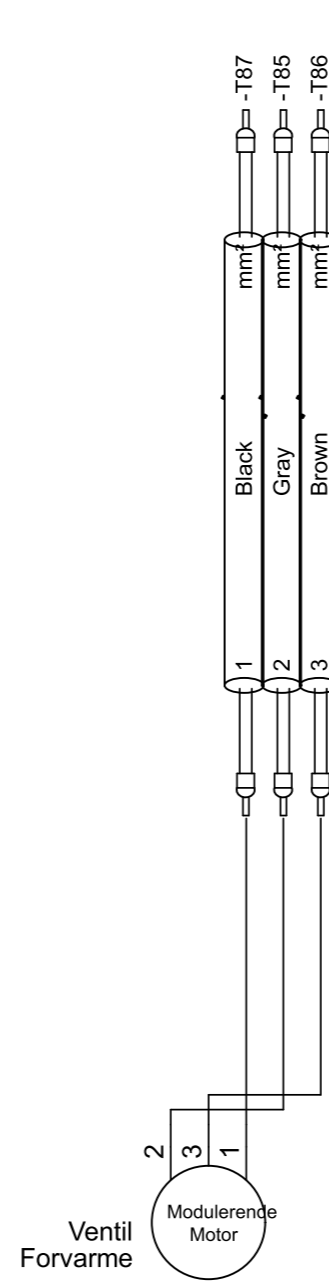
Bemærk: Varme ventil
Cable-type:



-QN51

-W553

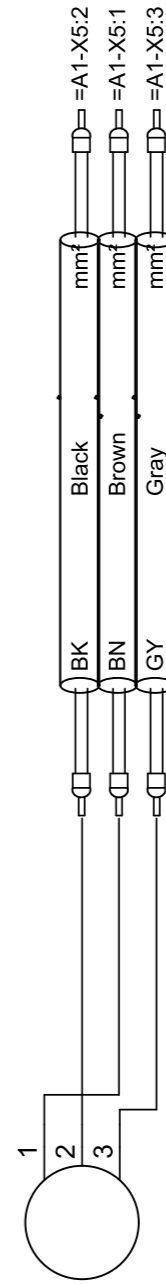
Bemærk: Varme ventil
Cable-type:



-QN53

-W571.1

Bemærk: Spjæld Tilluft 2
Cable-type:



-QM71.1

-W571.1S

Bemærk: Spjæld Tilluft 2
Cable-type:



-QM71.1S

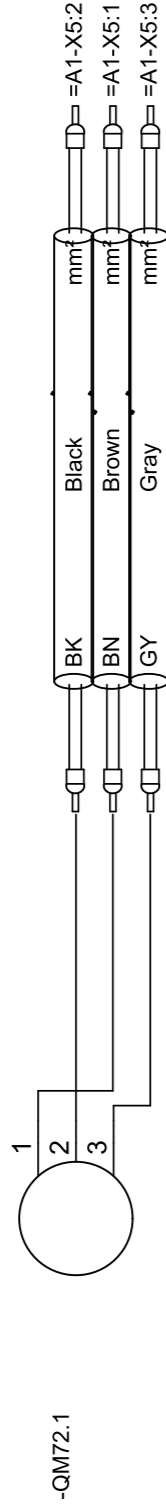
15	4
15	4
15	4
15	5
15	5
16	2
16	2
16	2
17	2
17	2
17	2
15	2
15	2
15	2
15	3
15	3

Kabel plan

Strømvej
Blad

-W572.1

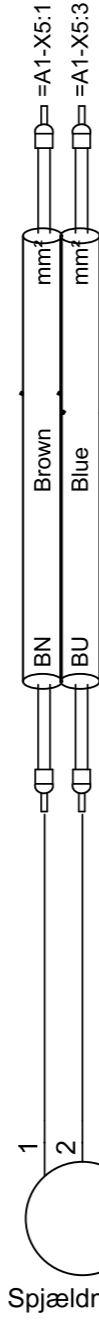
Bemærk: Spjæld Fraluft 2
Cable-type:



-QM72.1

-W572.1S

Bemærk: Spjæld Fraluft 2
Cable-type:

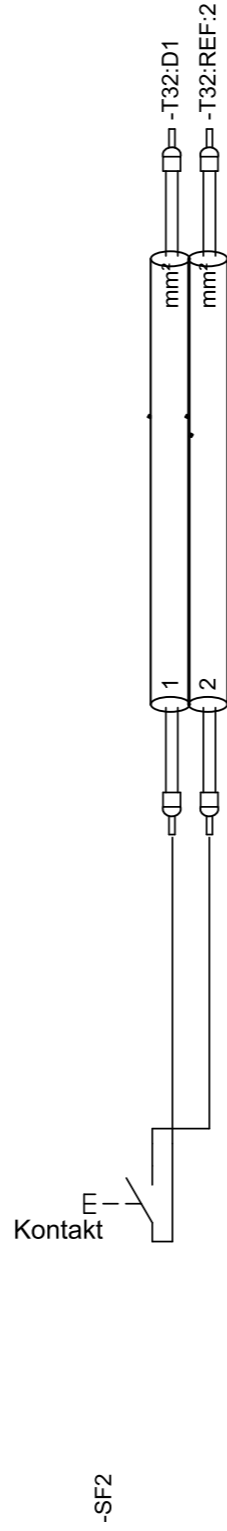


-QM72.1S

Spjældmotor

-W580

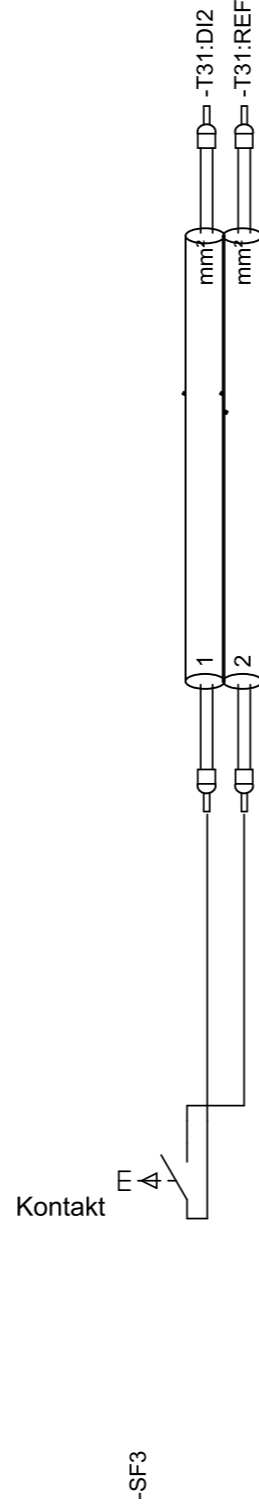
Bemærk: Reduceret hastighed
Cable-type: 2x0,75mm²



-SF2

-W581

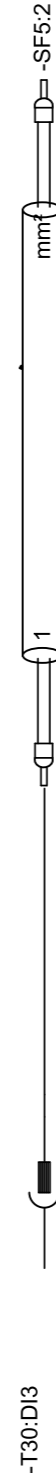
Bemærk: Normal hastighed-ekst.
Cable-type:



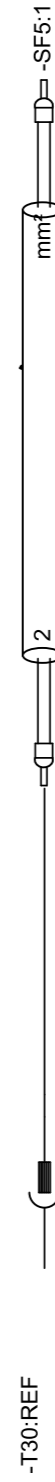
-SF3

-W583

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



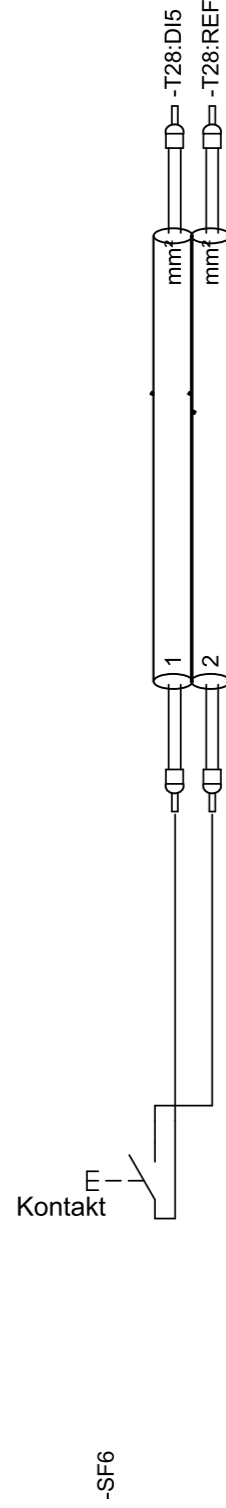
-T30:D13



-T30:REF

-W584

Bemærk: Change over
Cable-type:



-SF6

15	6
15	6
15	6
15	7
15	7
10	1
10	1
10	2
10	3
10	5
10	5
10	8
10	8

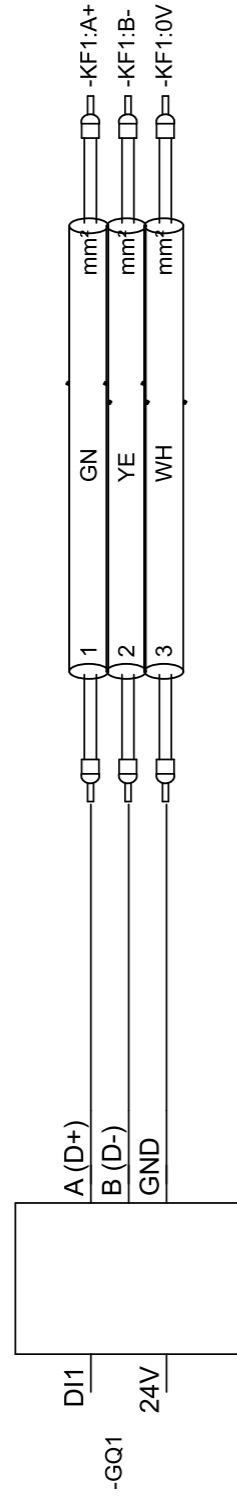
Kabel plan

Strømvej
Blad

Bemærk: GQ1 BUS
Cable-type: 4x0,6mm²

-W601

EC ventilator

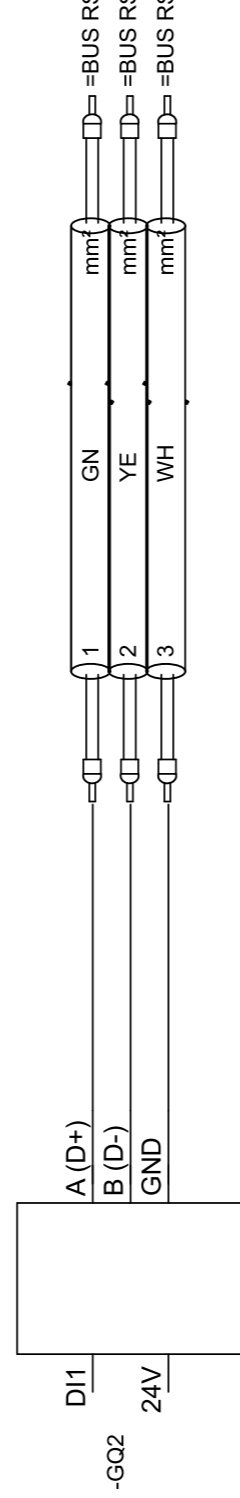


22 22 22
5 5 6

-W602

EC ventilator

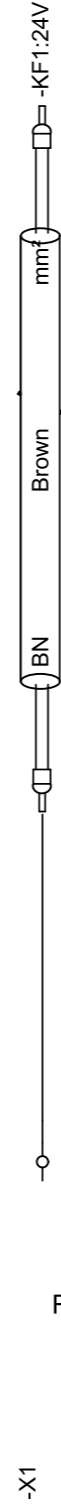
Bemærk: GQ2 BUS
Cable-type: 4x0,6mm²



6 6 6
=BUS RS485+Extract air-QM463C2
=BUS RS485+Extract air-QM463C1
=BUS RS485+Extract air-QM4630V

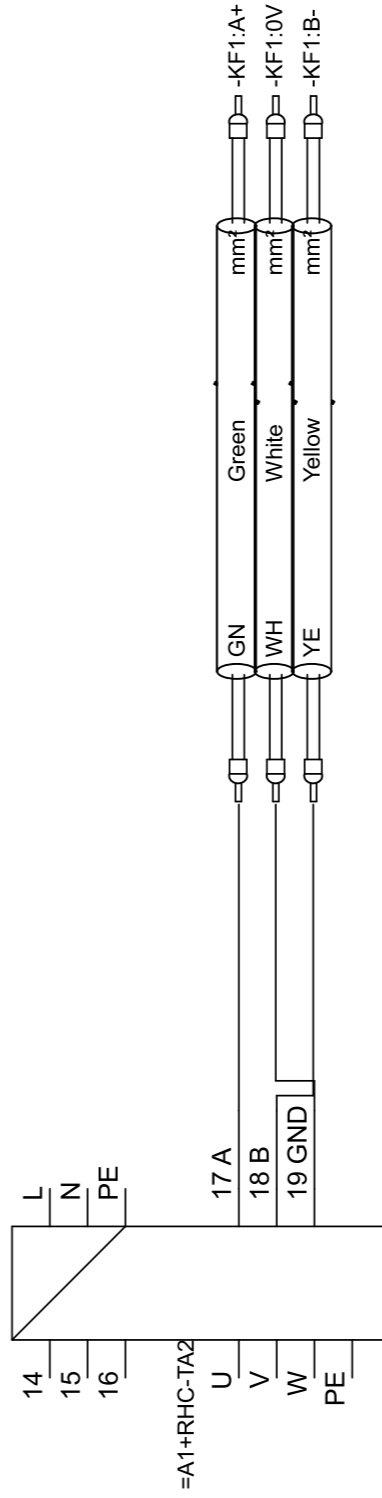
-W642.1

Bemærk: TA2 BUS
Cable-type:



24

Rotor regulering
RHC



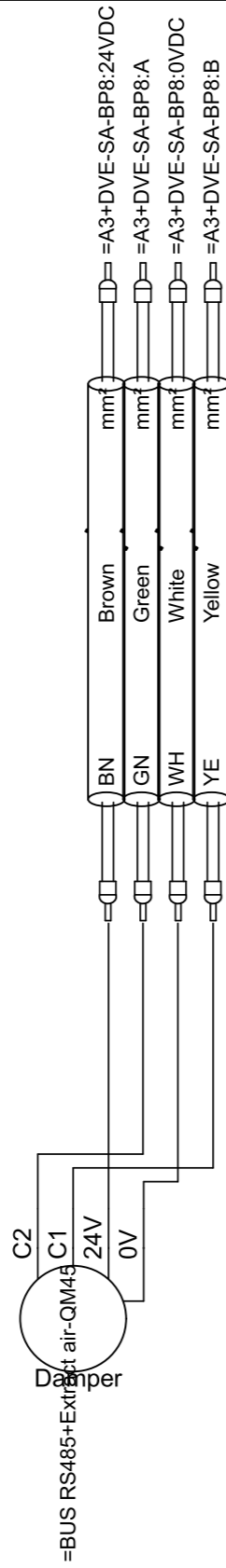
24 24 24
1 2 2

Kabel plan

Strømvej
Blad

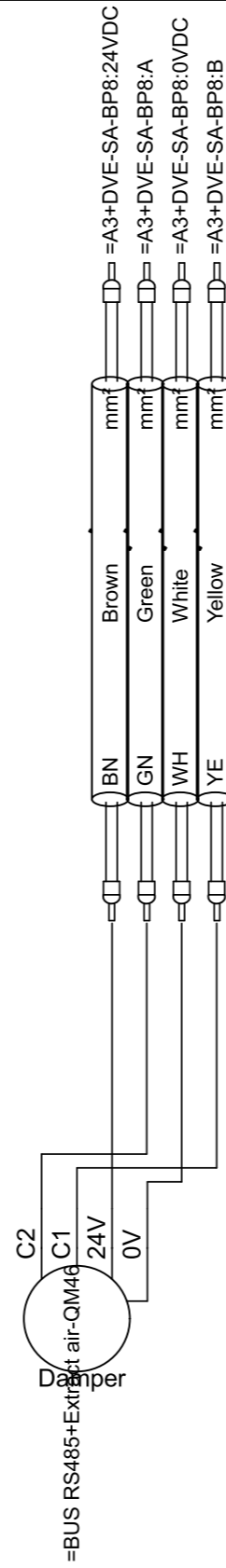
Bemærk: Fraluft
Cable-type:

-W645



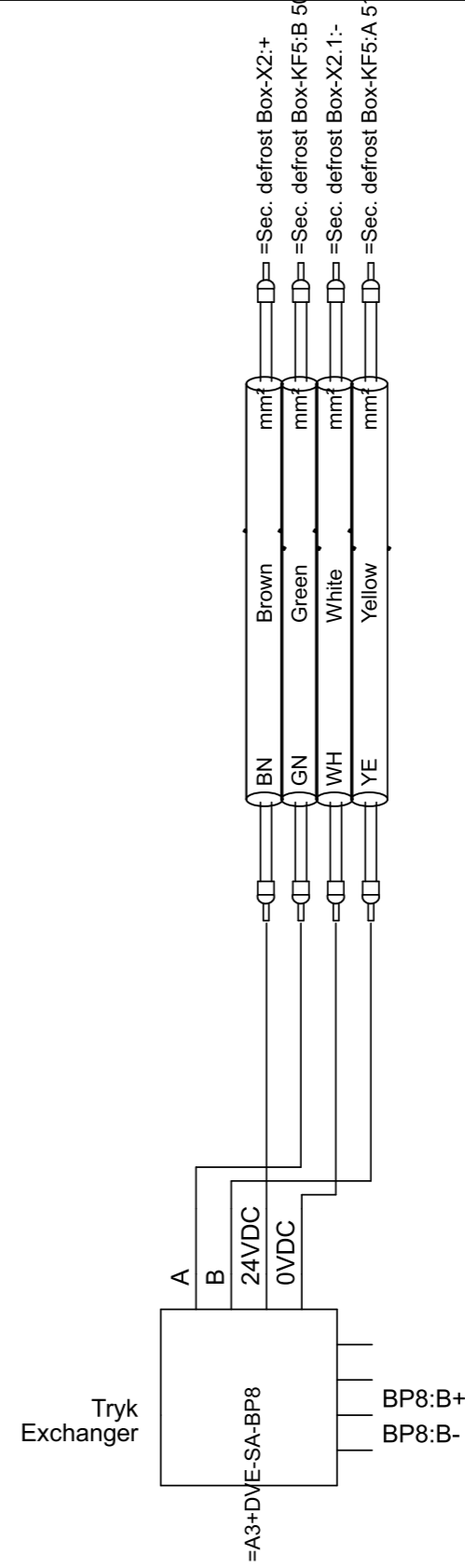
-W646

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

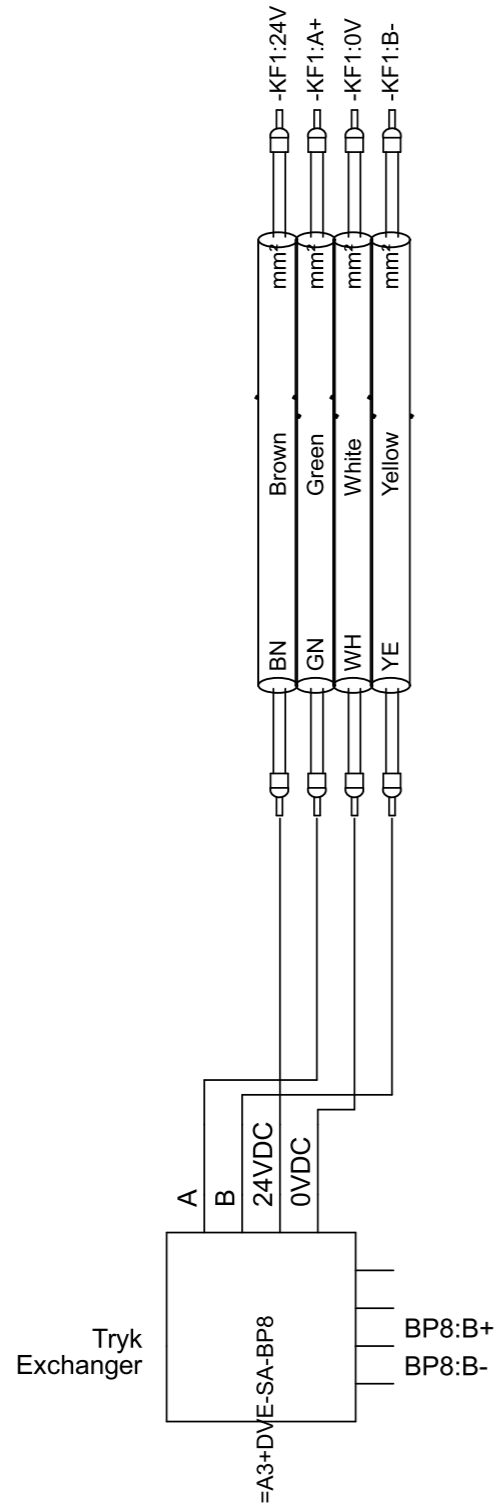
25
25
25
25

Kabel plan

Strømvej
Blad

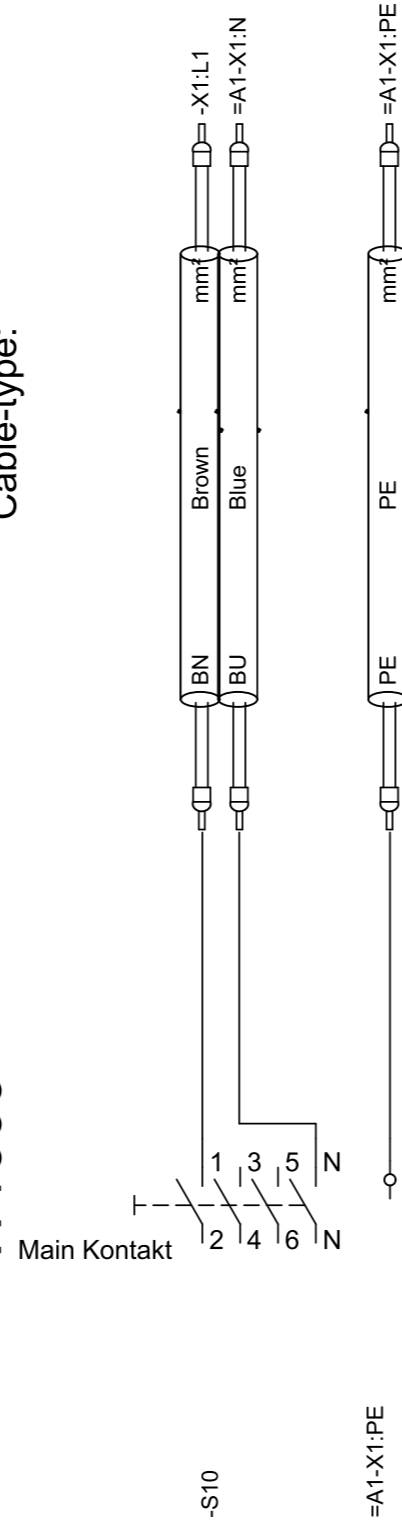
Bemærk: Tryk Pladeveksler
Cable-type:

-W666



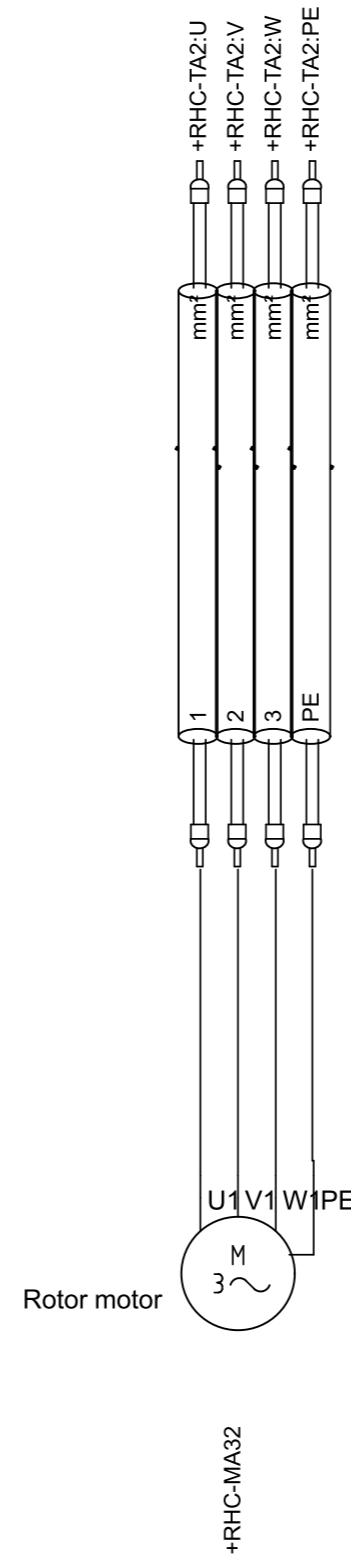
Bemærk: Hovedforsyning
Cable-type:

-W1000



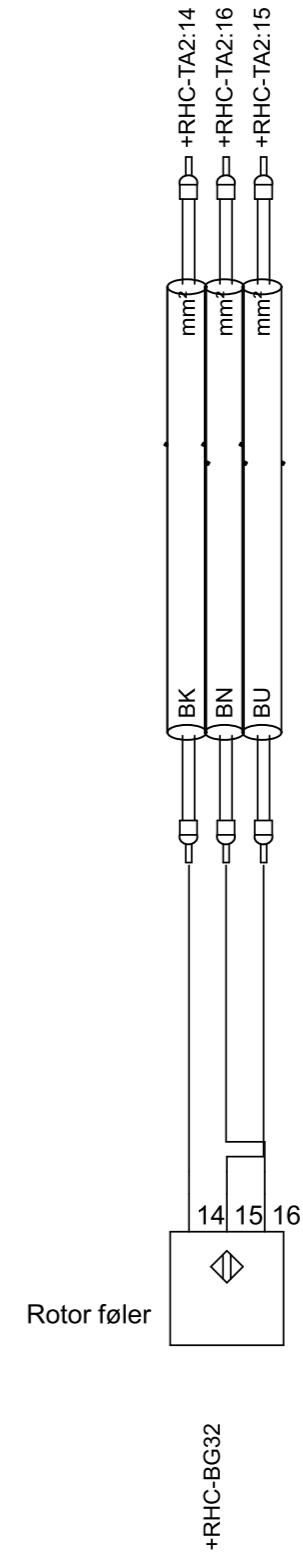
Bemærk: Rotor Motor
Cable-type:

=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

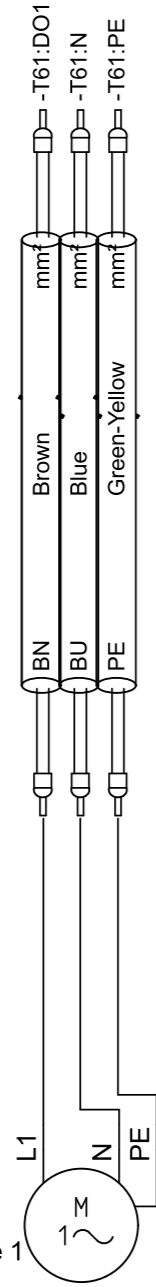
24 1
24 1
24 1

Kabel plan

Strømvej
Blad

=A1-W550

Bemærk: Cirkulationspumpe
Cable-type:

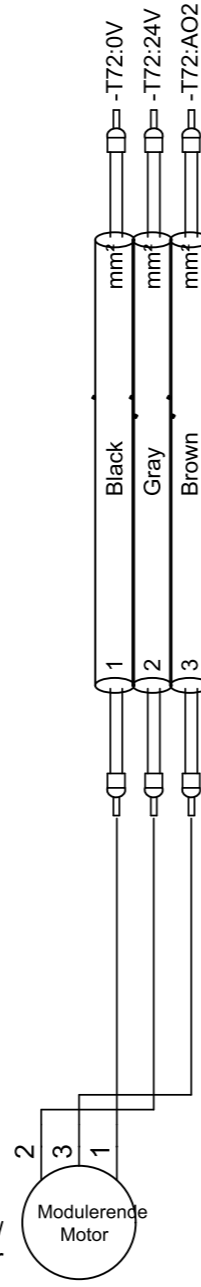


-GP50

=A1-W554

Bemærk: Køleventil
Cable-type:

Ventil for køling/
Change over

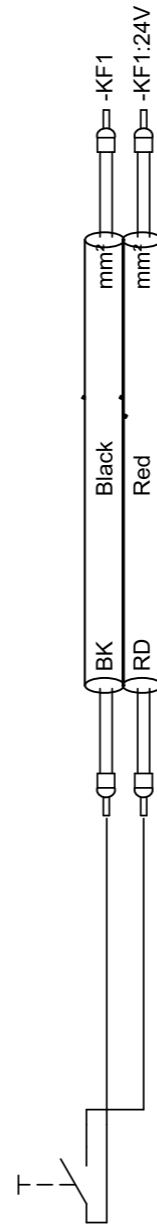


-QN54/QN56

=A1-W700

Bemærk: Lys kontakt
Cable-type:

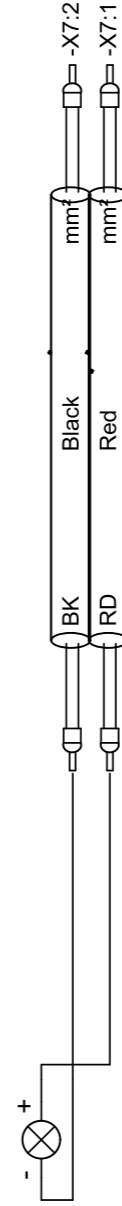
Lys kontakt



-SF1

=A1-W701

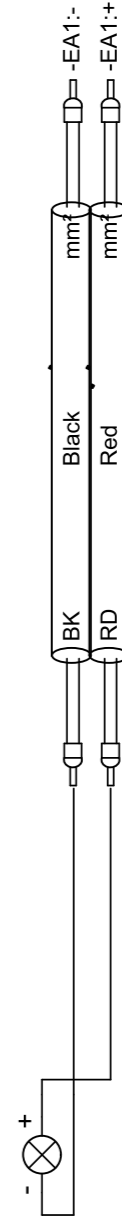
Bemærk: Lys P20
Cable-type:



-EA1

=A1-W702

Bemærk: Lys P20
Cable-type:



-EA2

14
14
14

16
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19
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19
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19
19

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2
2

7
7
7

5
5

6
6

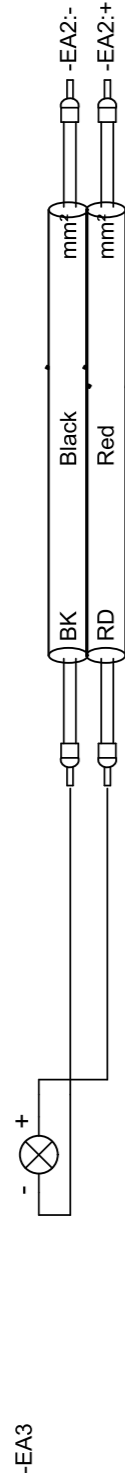
7
6

Kabel plan

Strømvej
Blad

=A1-W703

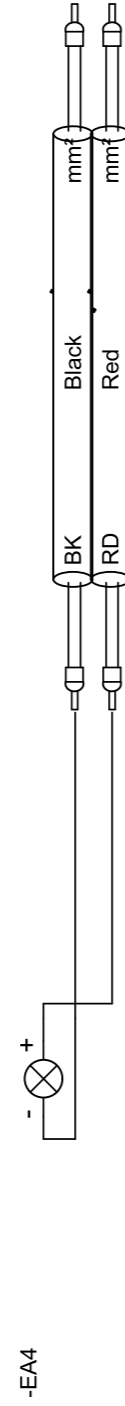
Bemærk: Lys P20
Cable-type:



19
19

=A1-W704

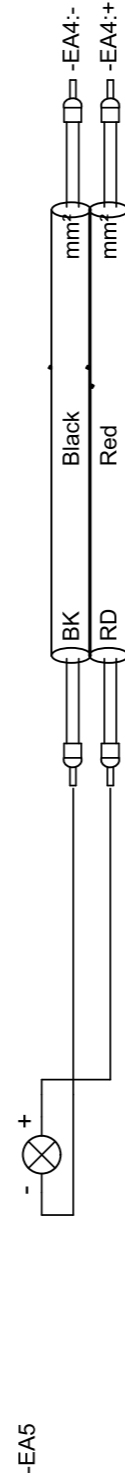
Bemærk: Lys P21
Cable-type:



19
19

=A1-W705

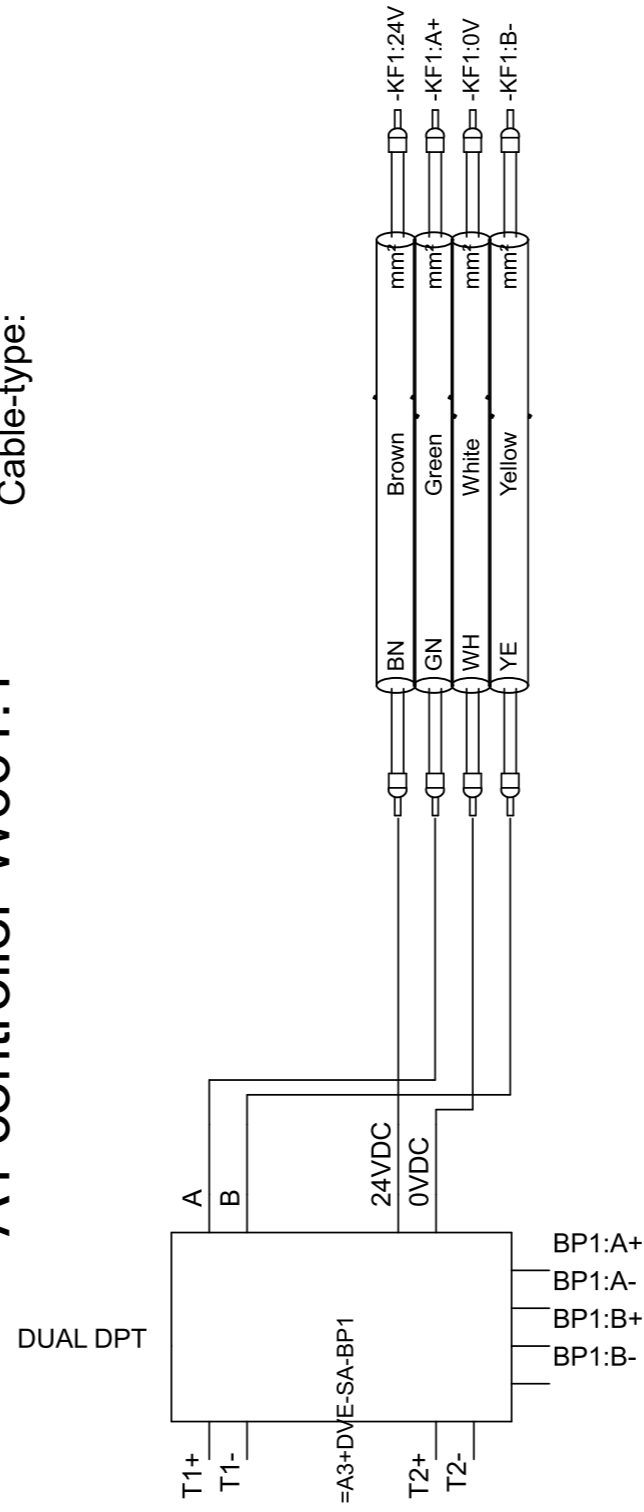
Bemærk:
Cable-type:



19
19

=A1 controller-W661.1

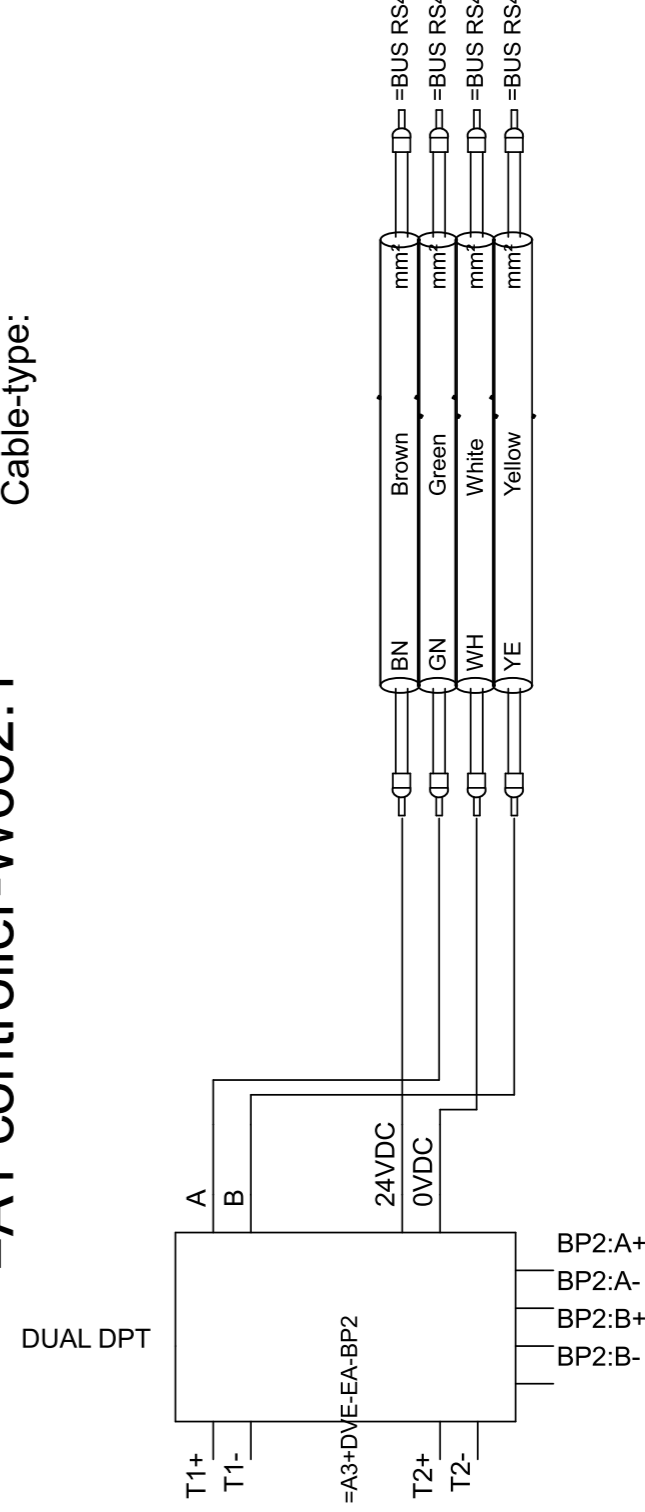
Bemærk: BP1 BUS
Cable-type:



22
22
22
22

=A1 controller-W662.1

Bemærk: BP2 BUS
Cable-type:



2
2
2
2

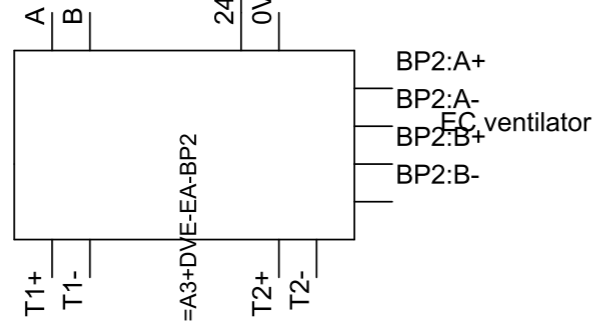
Kabel plan

Strømvej
Blad

Bemærk: BP2 BUS
Cable-type:

=A1 controller-W662.2

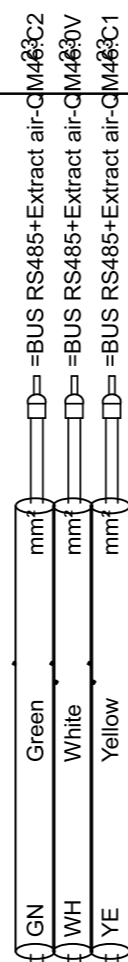
DUAL DPT



2



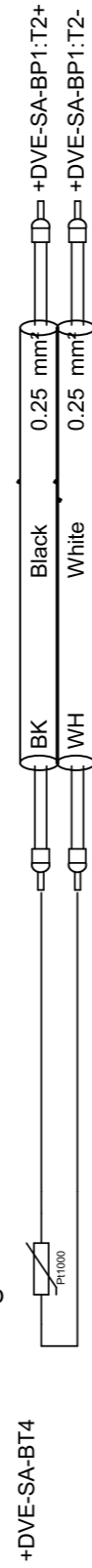
2
2
2



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

=A3-W343

Eff. temp

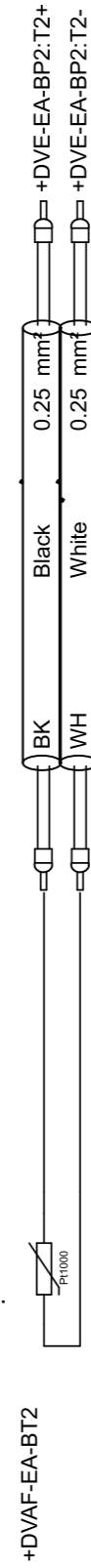


2
2

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

=A3-W442

Exhaust Temp.

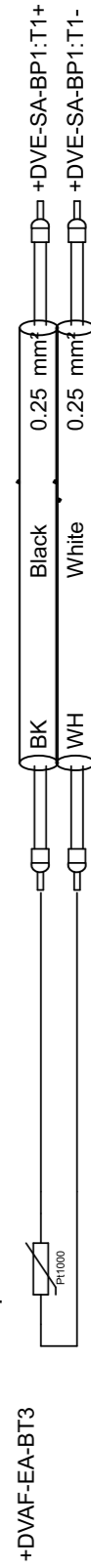


2
2

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

=A3-W444

Fraluft Temp.

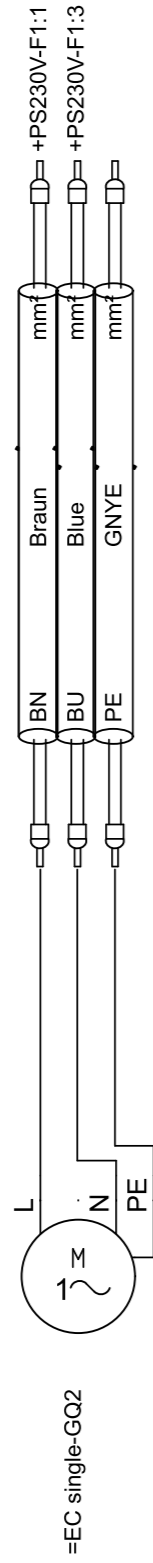


1
1

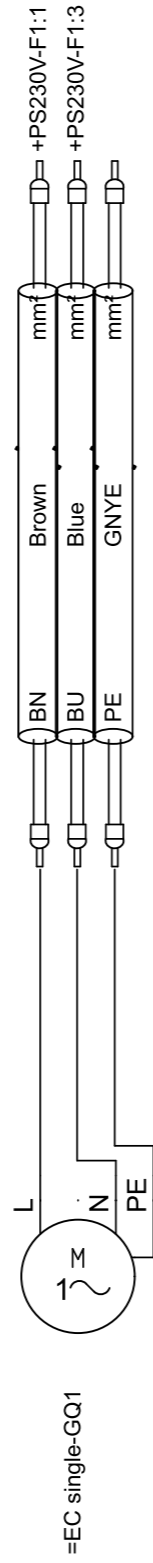
Kabel plan

Strømvej
Blad

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



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



7 8 8
18 18 18

4 5 5
18 18 18