

Geniox Core Control system 41.04.02

Dokumenter vist på de nedenstående sider

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Hurtig vejledning: side 2

Generel beskrivelse: side 3-4

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Circuit Diagram: page 19-27

Modbus Guide: page 23

Modbus address list: page 30

Cable plan: page 100-118

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

Varmepumpe 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 41.04.02 DK

Rev.:

41.04.02

Blad:

1

Dato:

07-08-2020

Initialer:

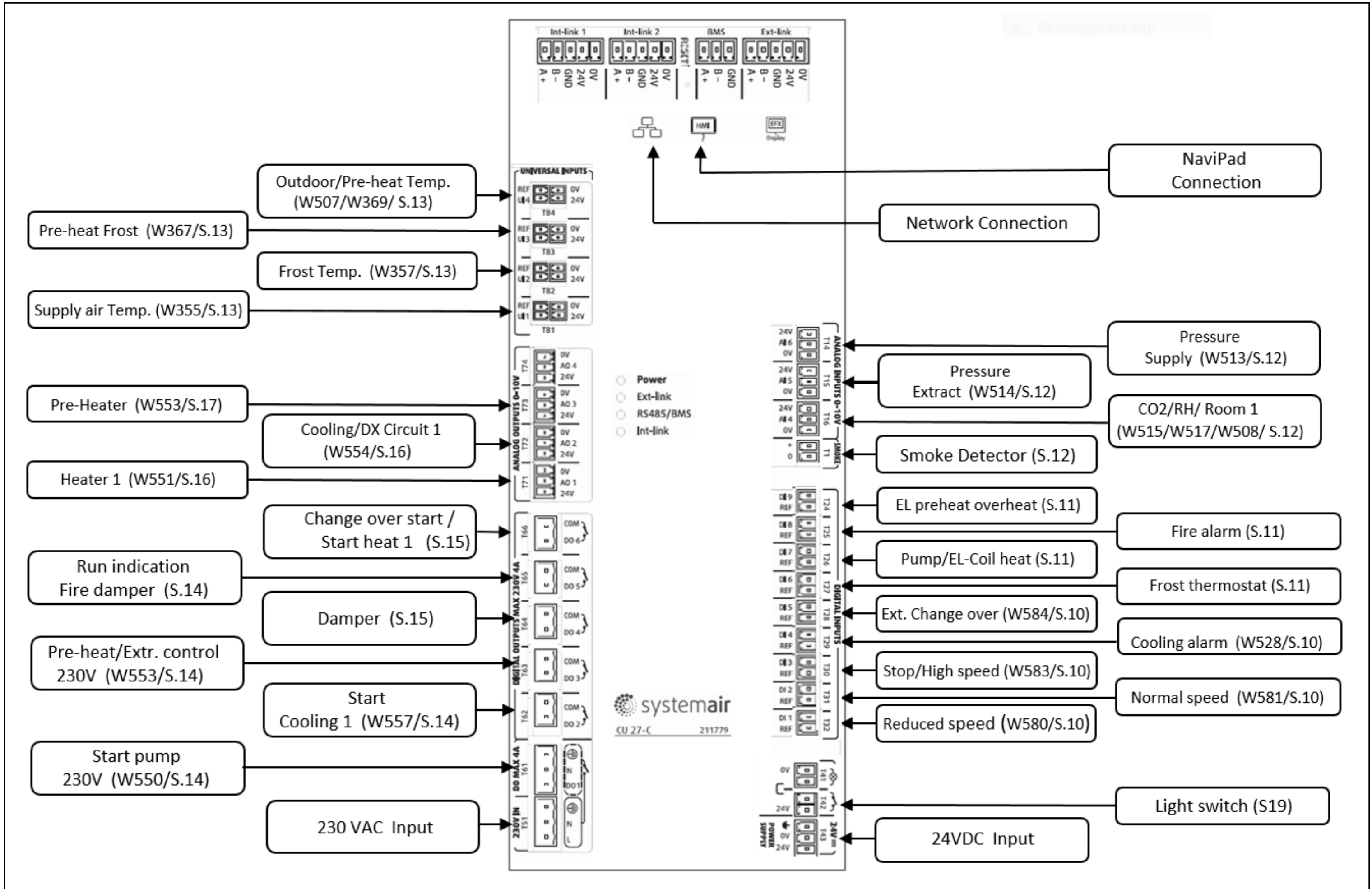
MIKE

Antal sider:

4

Næste side

2



Symboler er iht. IEC 60617.

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

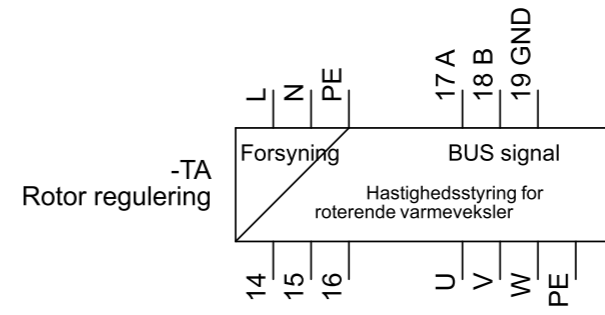
Lednings farvekode

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

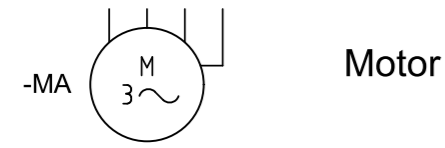
L1:1 > Referencer

-X2:1  Klemme

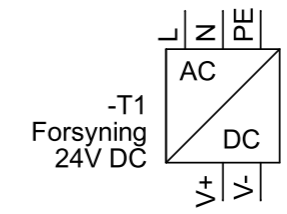
-EA  Lampe



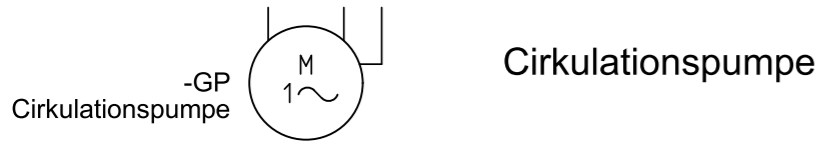
Roterende varmeveksler



-SF  Koblingsudstyr



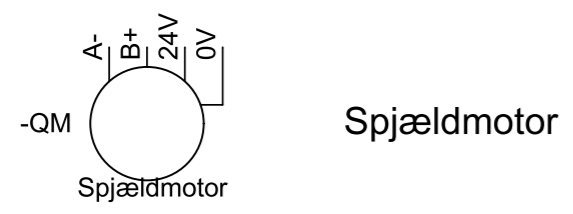
Forsyning




-BP  Tryktransmitter

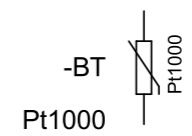


Brandvagt



-BP  Pressostat

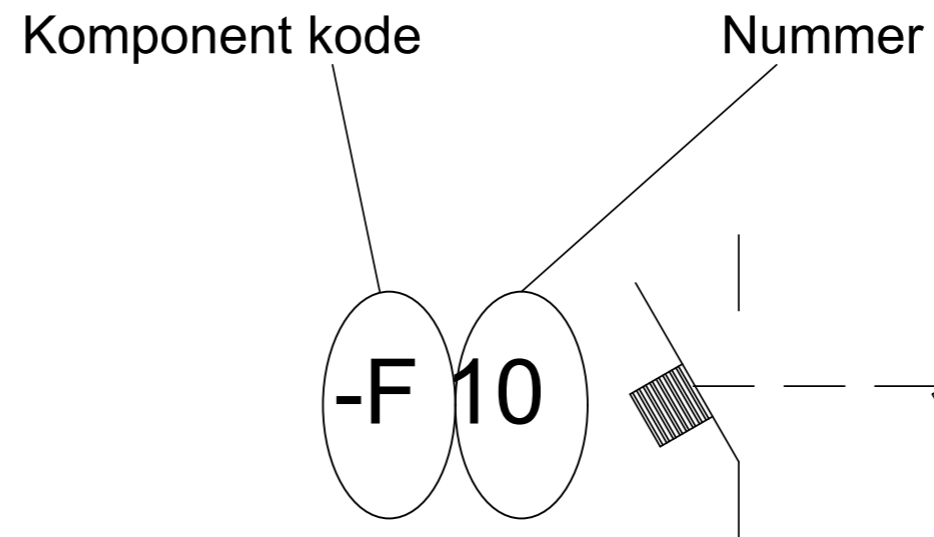
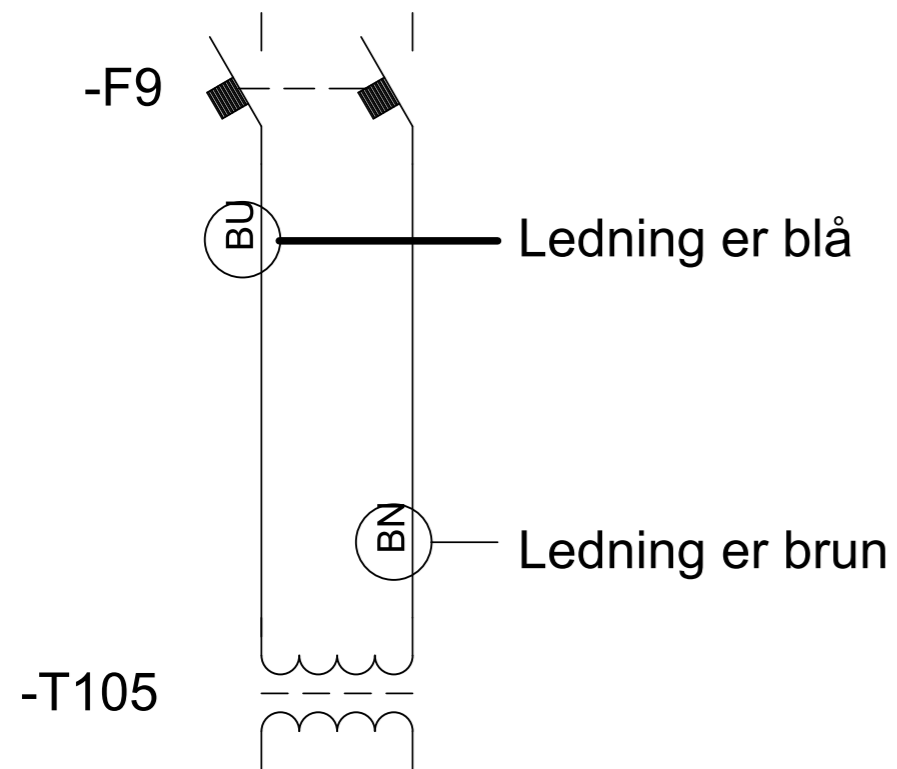
-F  Automatsikring,

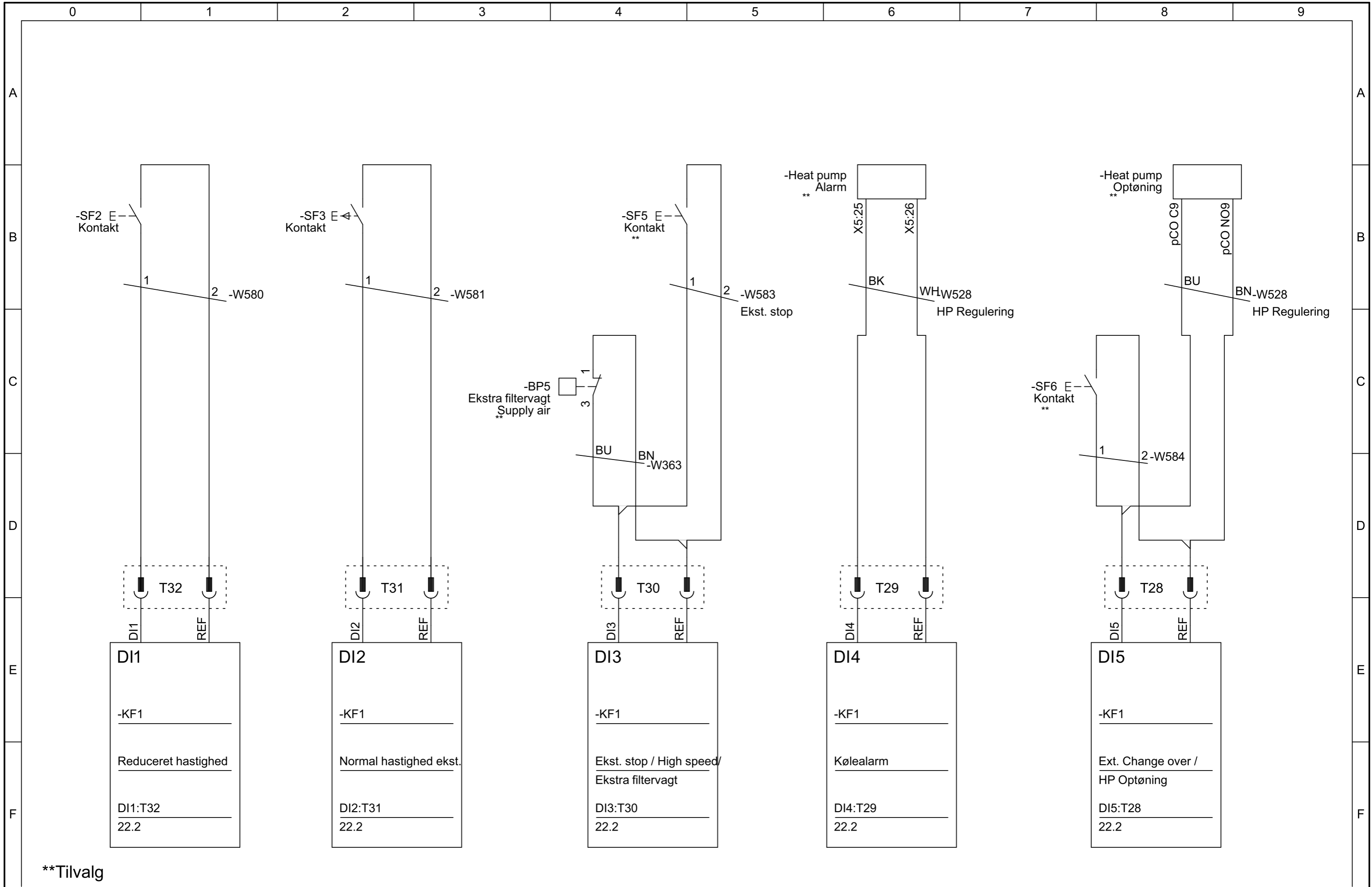


Temperatur (måling)

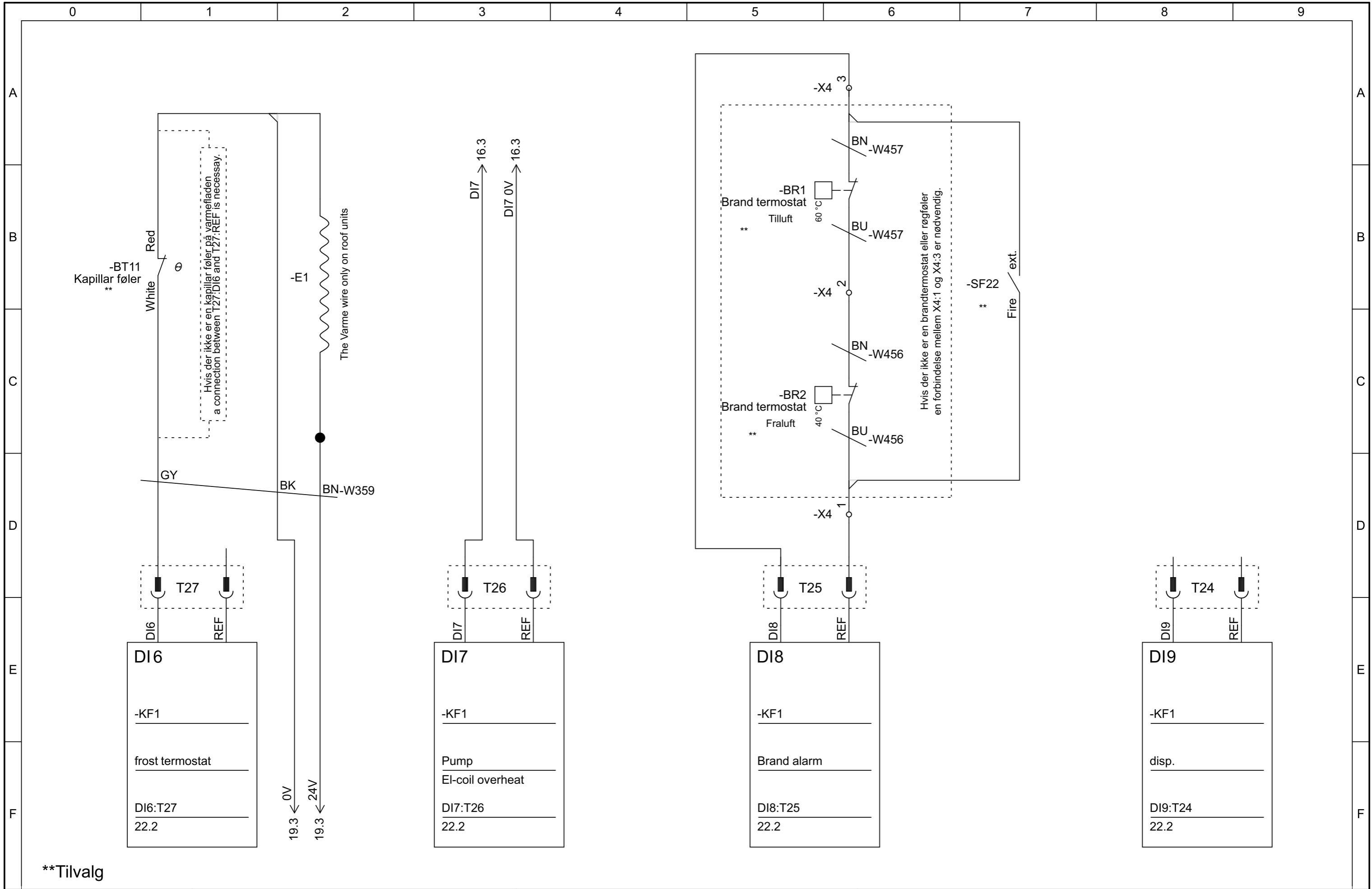
Labeling of wires
are marked with
Klemme name

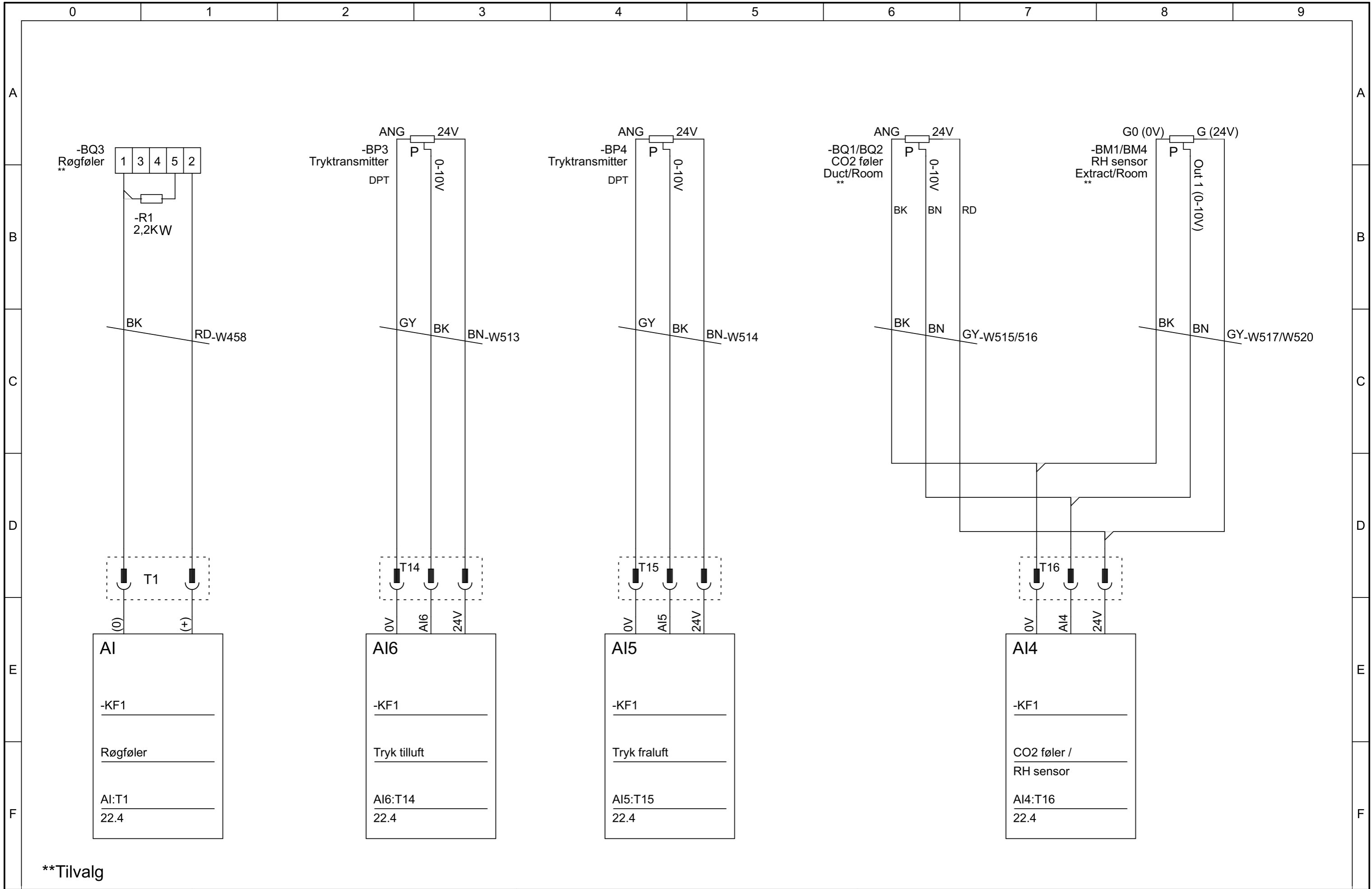
Komponenter er mærket med komponent koder
efterfulgt af et nummer iht. IEC 61346-1 Tabel 1

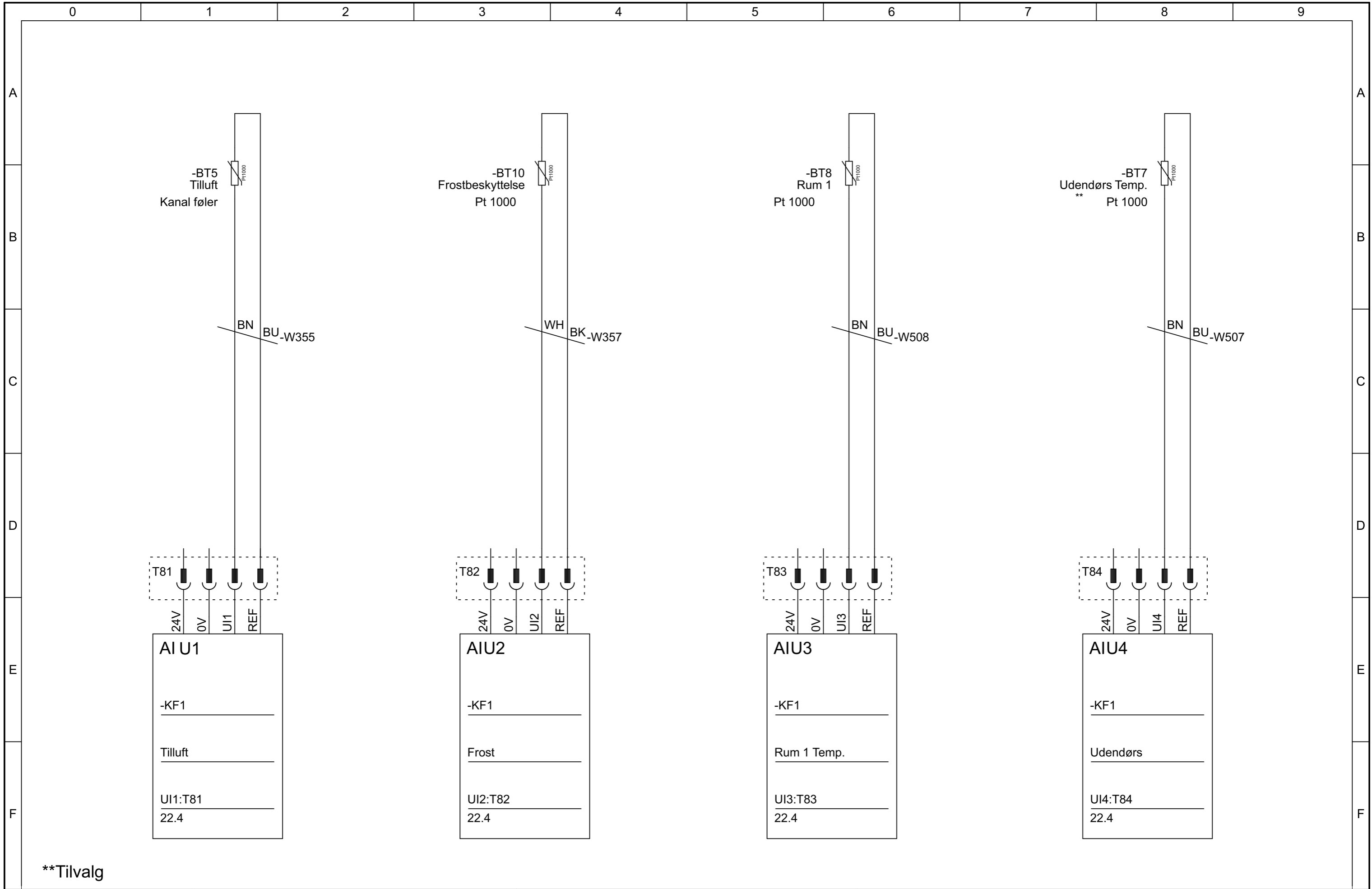




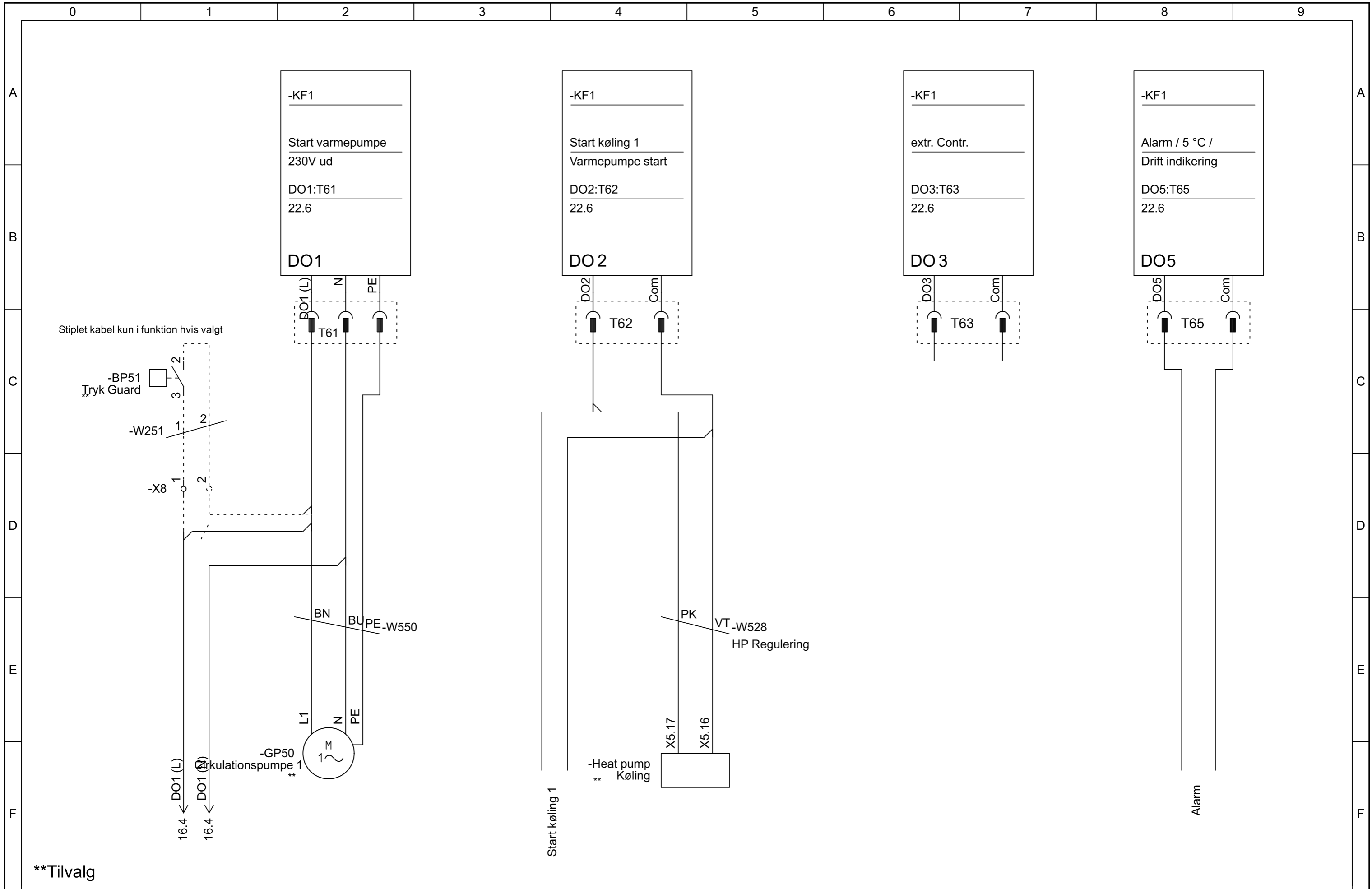
**Tilvalg



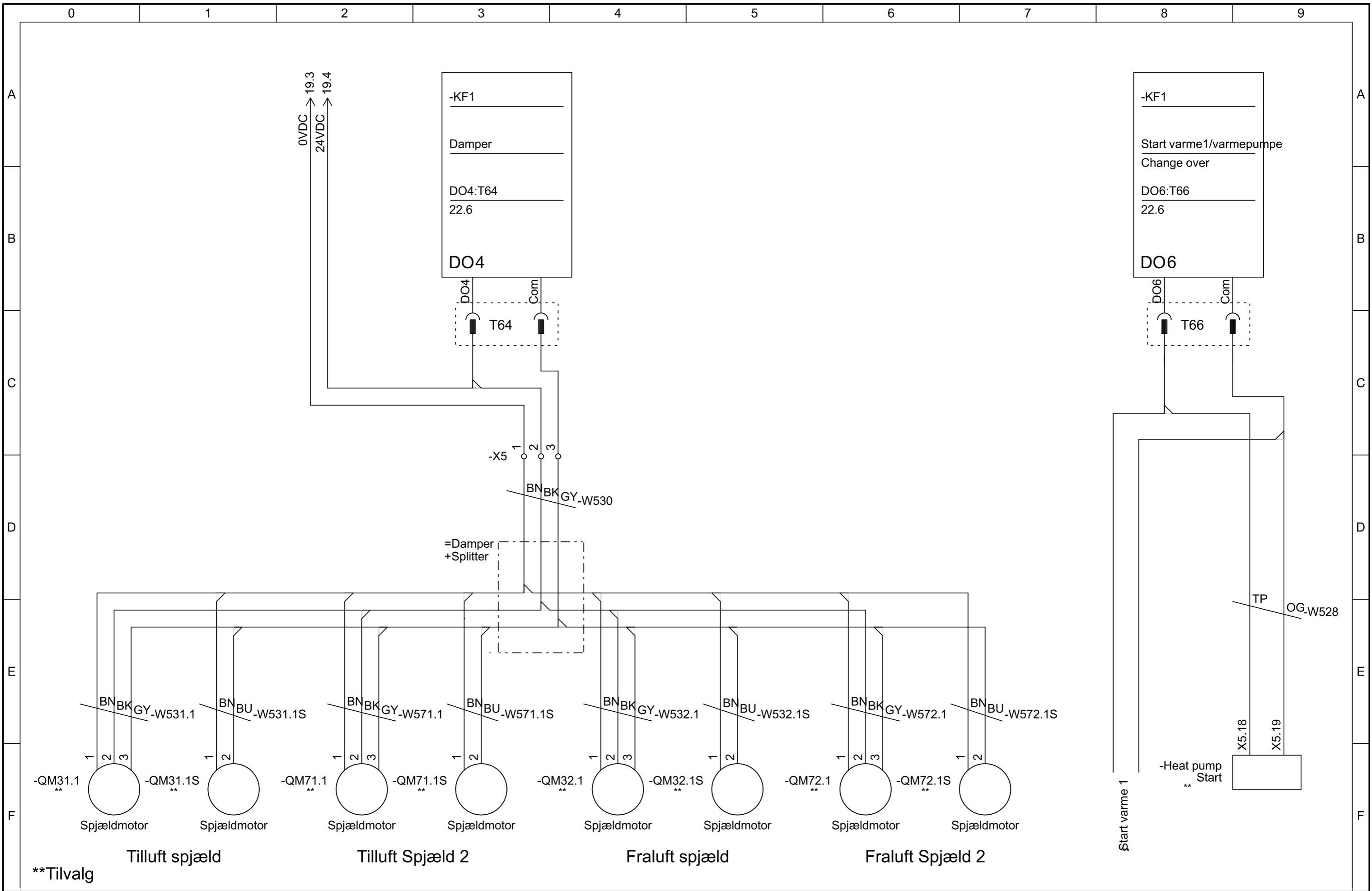


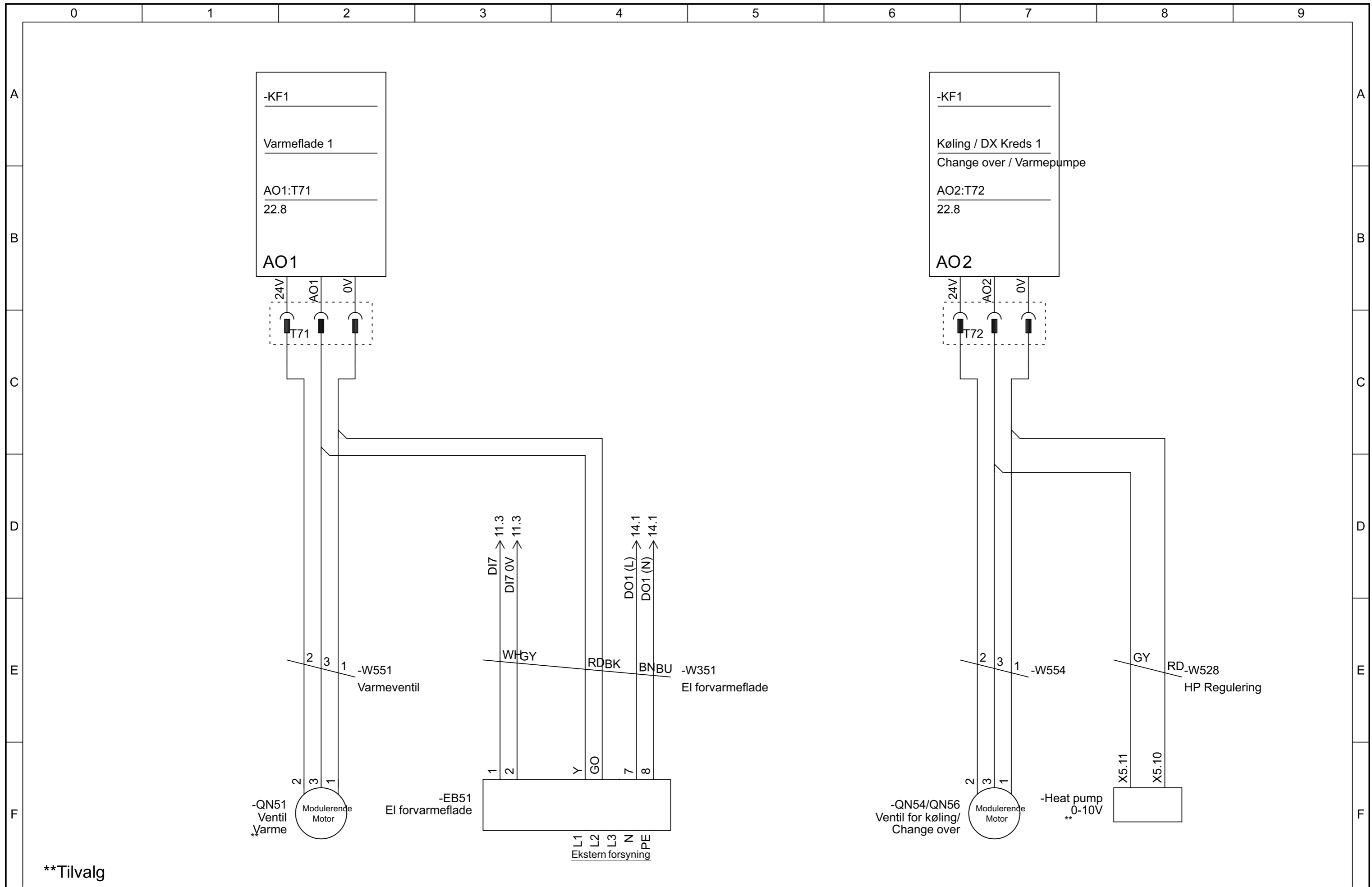


**Tilvalg

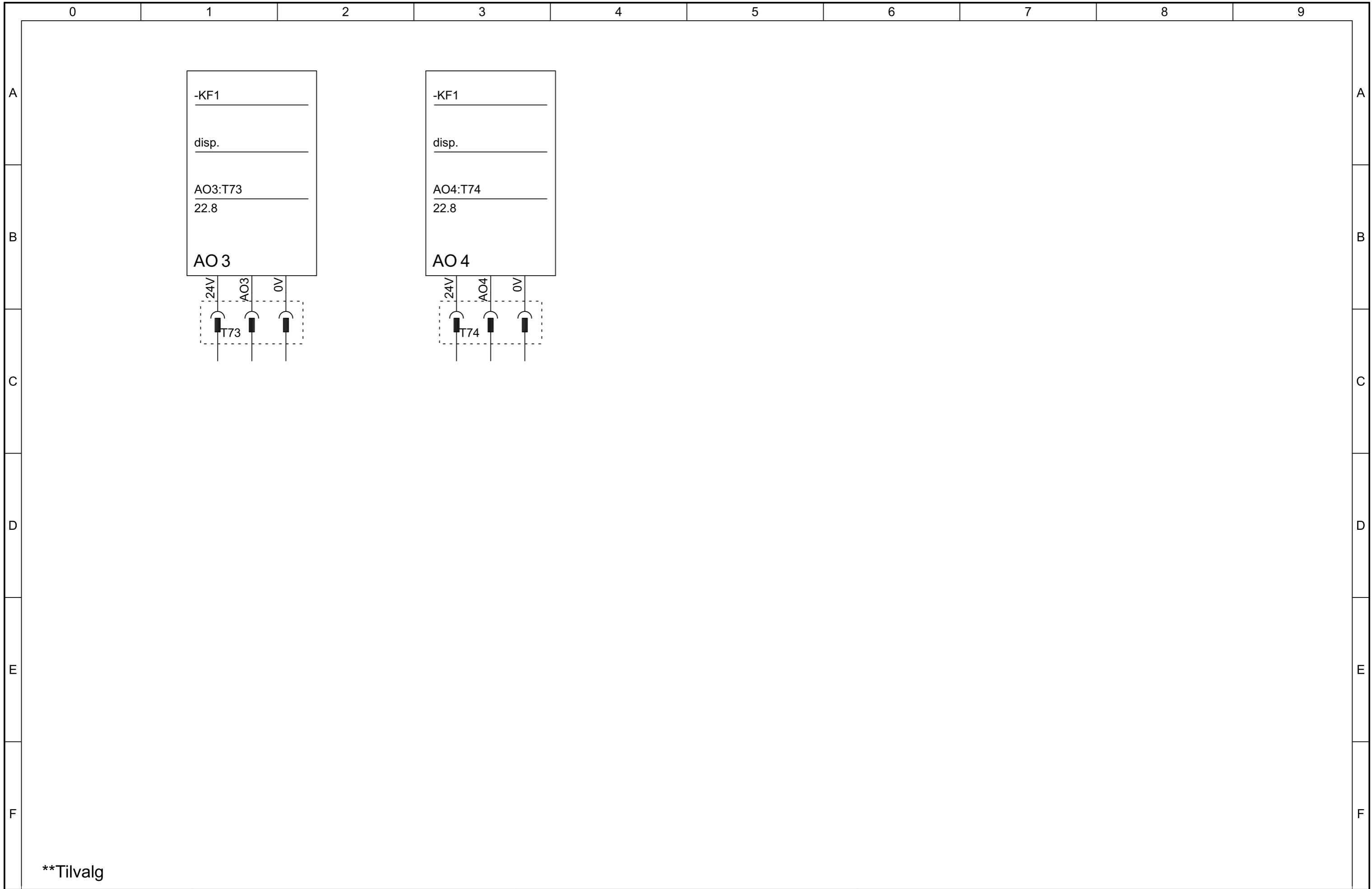


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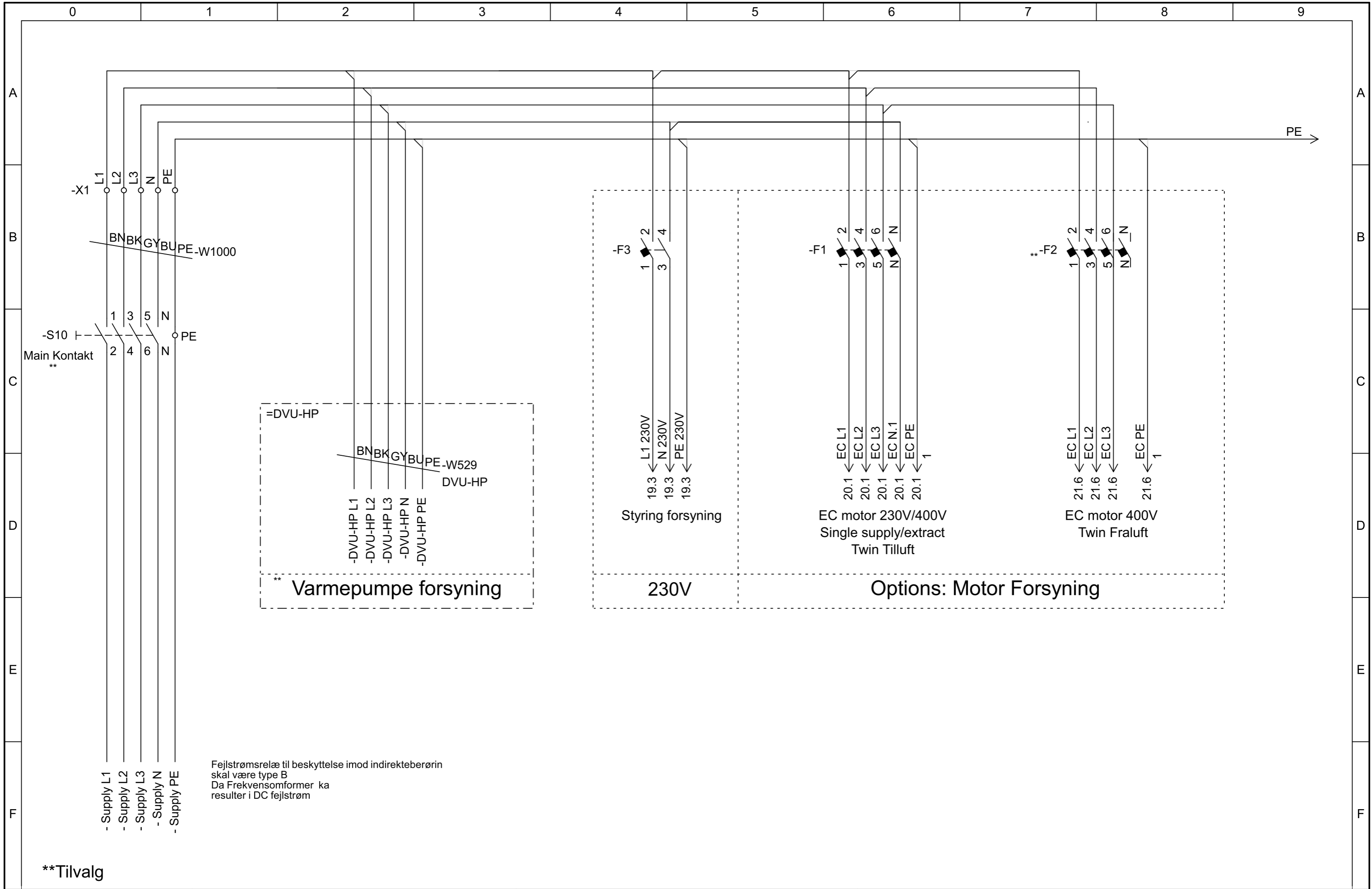


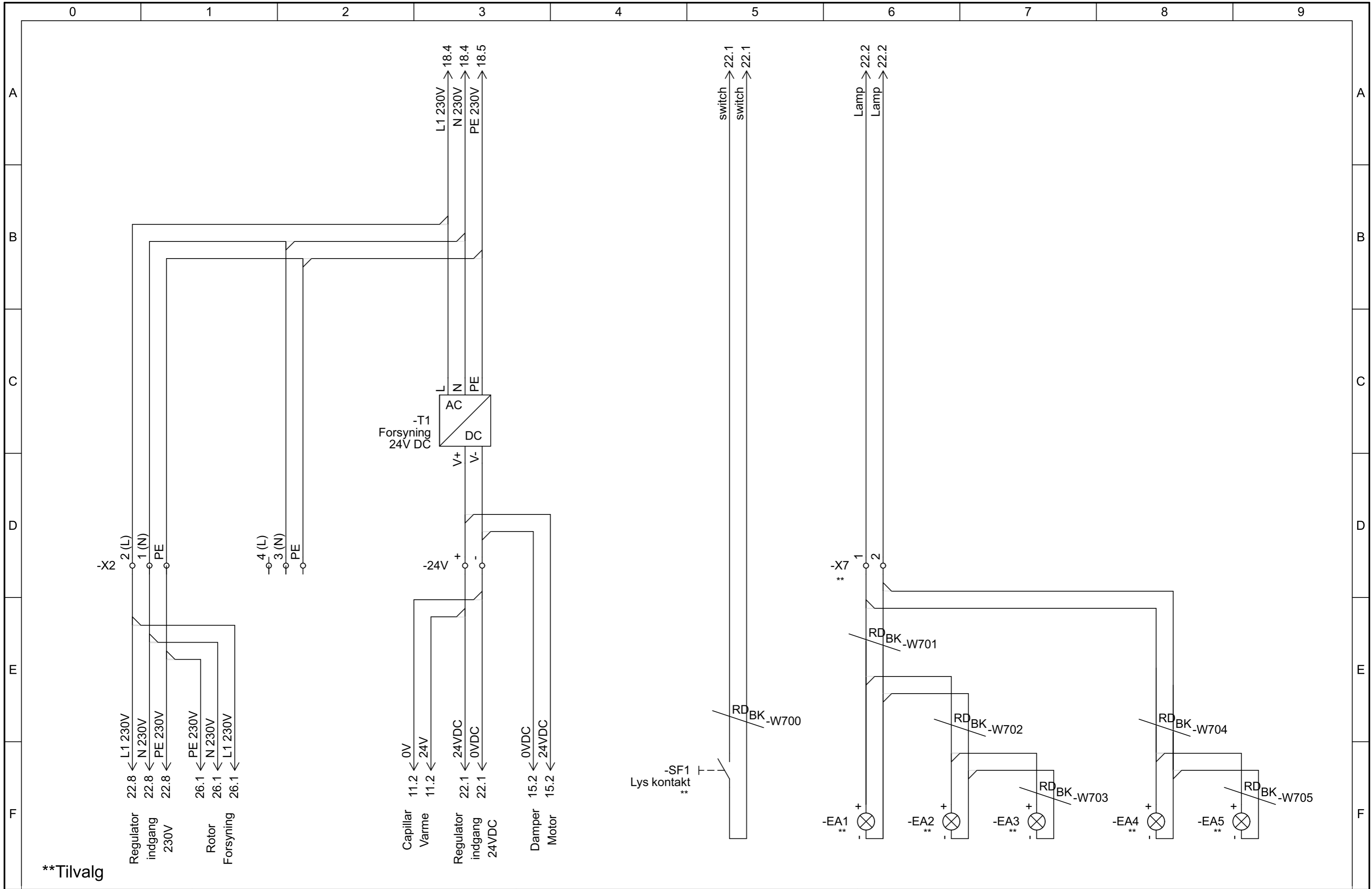


**Tilvalg

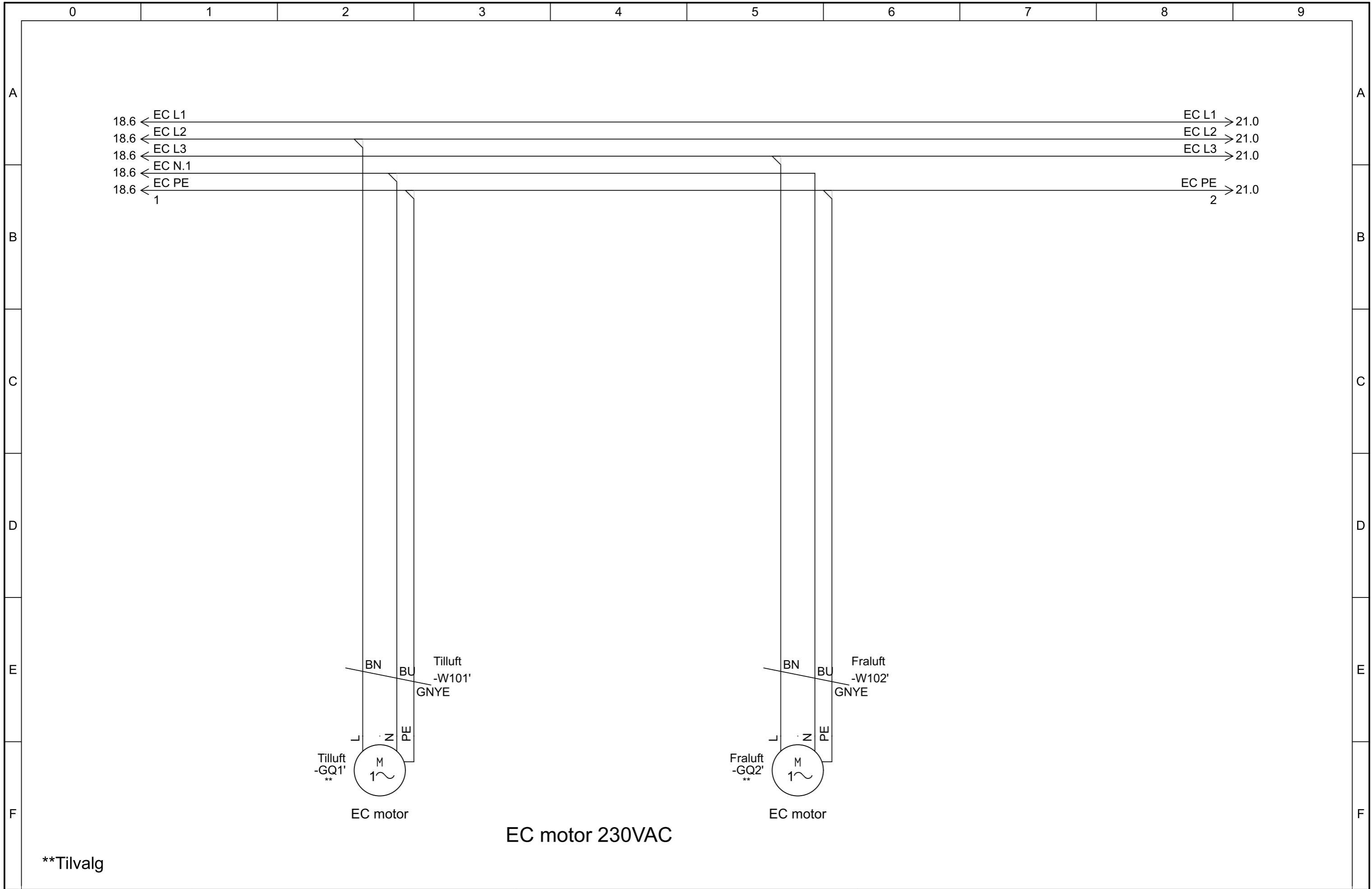


**Tilvalg

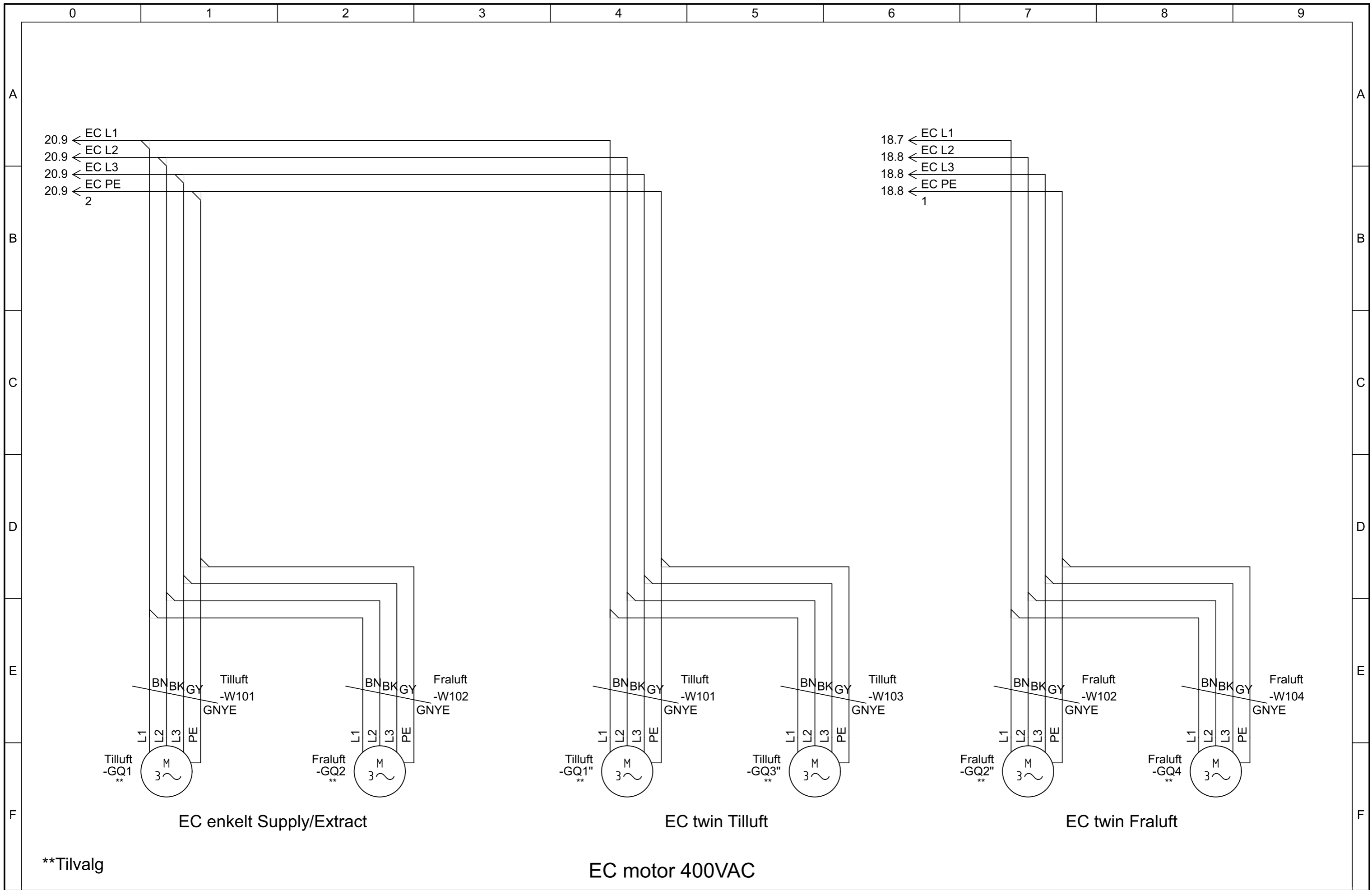




**Tilvalg



**Tilvalg



**Tilvalg

EC motor 400VAC

-KF1

Access CU27 Regulator

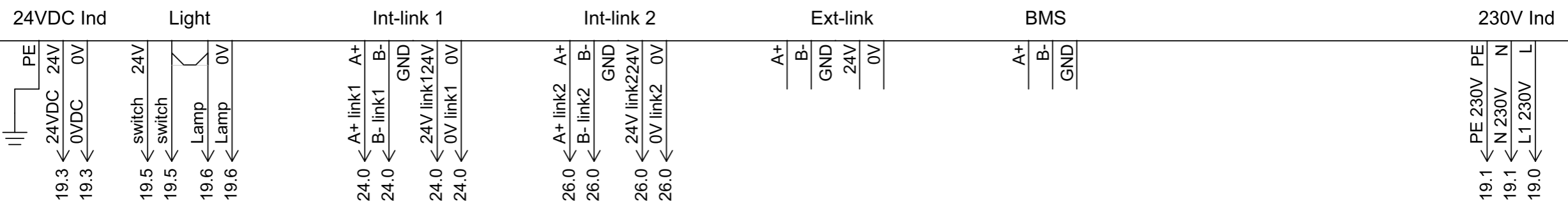
Systemair A/S

DI1:T32	10.1	DI1	
Reduceret hastighed			
DI2:T31	10.2	DI2	
Normal hastighed ekst.			
DI3:T30	10.4	DI3	
Ekst. stop / High speed/ Ekstra filtervagt			
DI4:T29	10.6	DI4	
Kølealarm			
DI5:T28	10.8	DI5	
Ext. Change over / HP Optøning			
DI6:T27	11.1	DI6	
frost termostat			
DI7:T26	11.3	DI7	
Pump EI-coil overheat			
DI8:T25	11.5	DI8	
Brand alarm			
DI9:T24	11.8	DI9	
disp.			

AI:T1	12.0 (0)	AI	
Røgføler			
AI6:T14	12.2 0V	AI	
Tryk tilluft			
AI5:T15	12.4 0V	AI	
Tryk fraluft			
AI4:T16	12.7 0V	AI	
CO2 føler /			
UI1:T81	13.1 24V	UI	
Tilluft			
UI2:T82	13.3 24V	UI	
Frost			
UI3:T83	13.5 24V	UI	
Rum 1 Temp.			
UI4:T84	13.8 24V	UI	
Udendørs			

DO1:T61	14.2	DO1 (L)	
Start varmpumpe 230V ud			
DO2:T62	14.4	DO2	
Start køling 1 Varmepumpe start			
DO3:T63	14.6	DO3	
extr. Contr.			
DO4:T64	15.3	DO4	
Damper			
DO5:T65	14.8	DO5	
Alarm / 5 °C / Drift indikering			
DO6:T66	15.8	DO6	
Start varme1/varmpumpe Change over			

AO1:T71	16.2	24V	
Varmeflade 1			
AO2:T72	16.7	24V	
Køling / DX Kreds 1 Change over / Varmepumpe			
AO3:T73	17.1	24V	
disp.			
AO4:T74	17.3	24V	
disp.			



Geniox
Access CU27 Regulator

Access CU27 Regulator

Projekt: Geniox-Core CS 41.04.02 DK

Rev.: 41.04.02

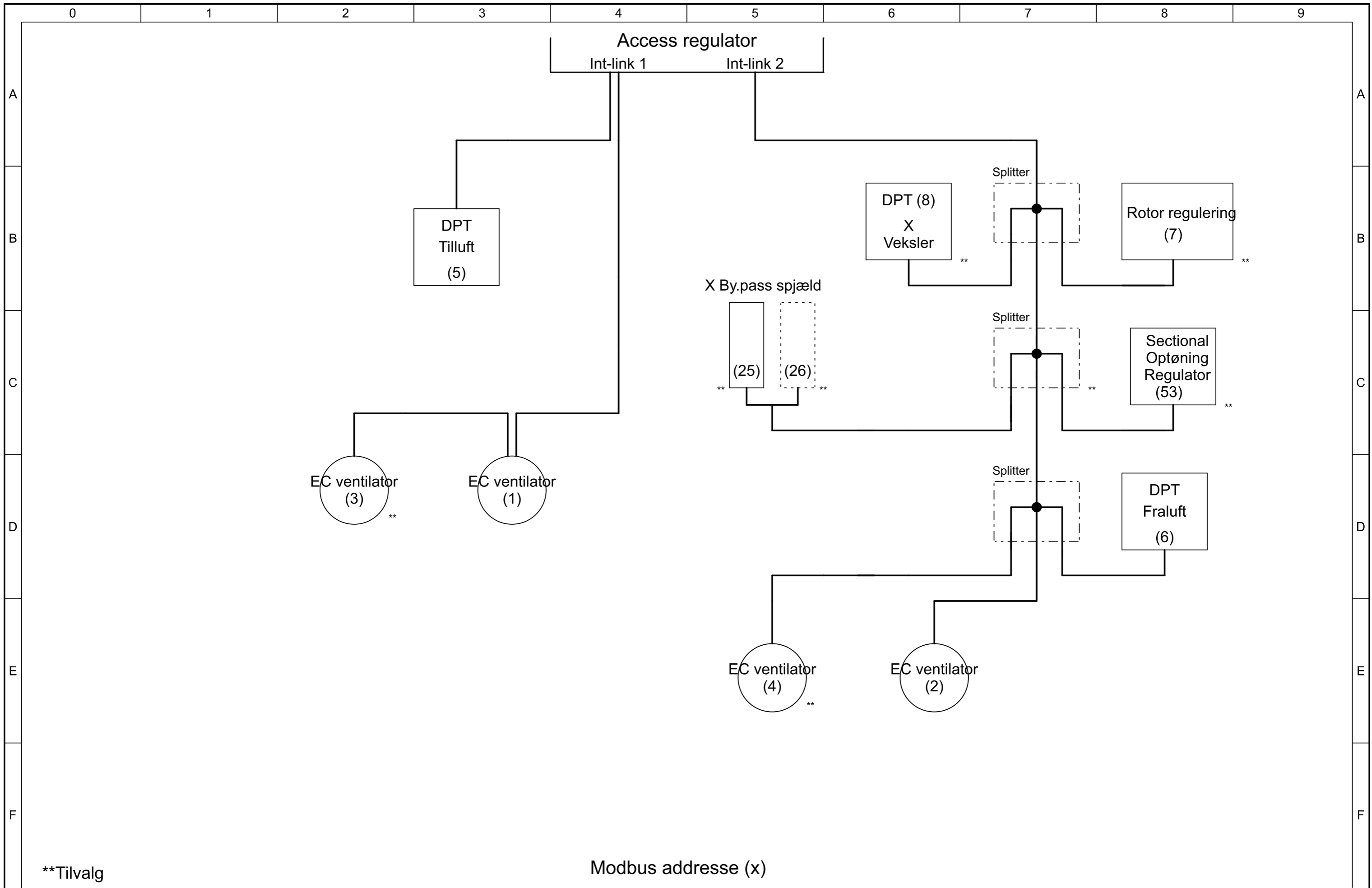
Blad: 22

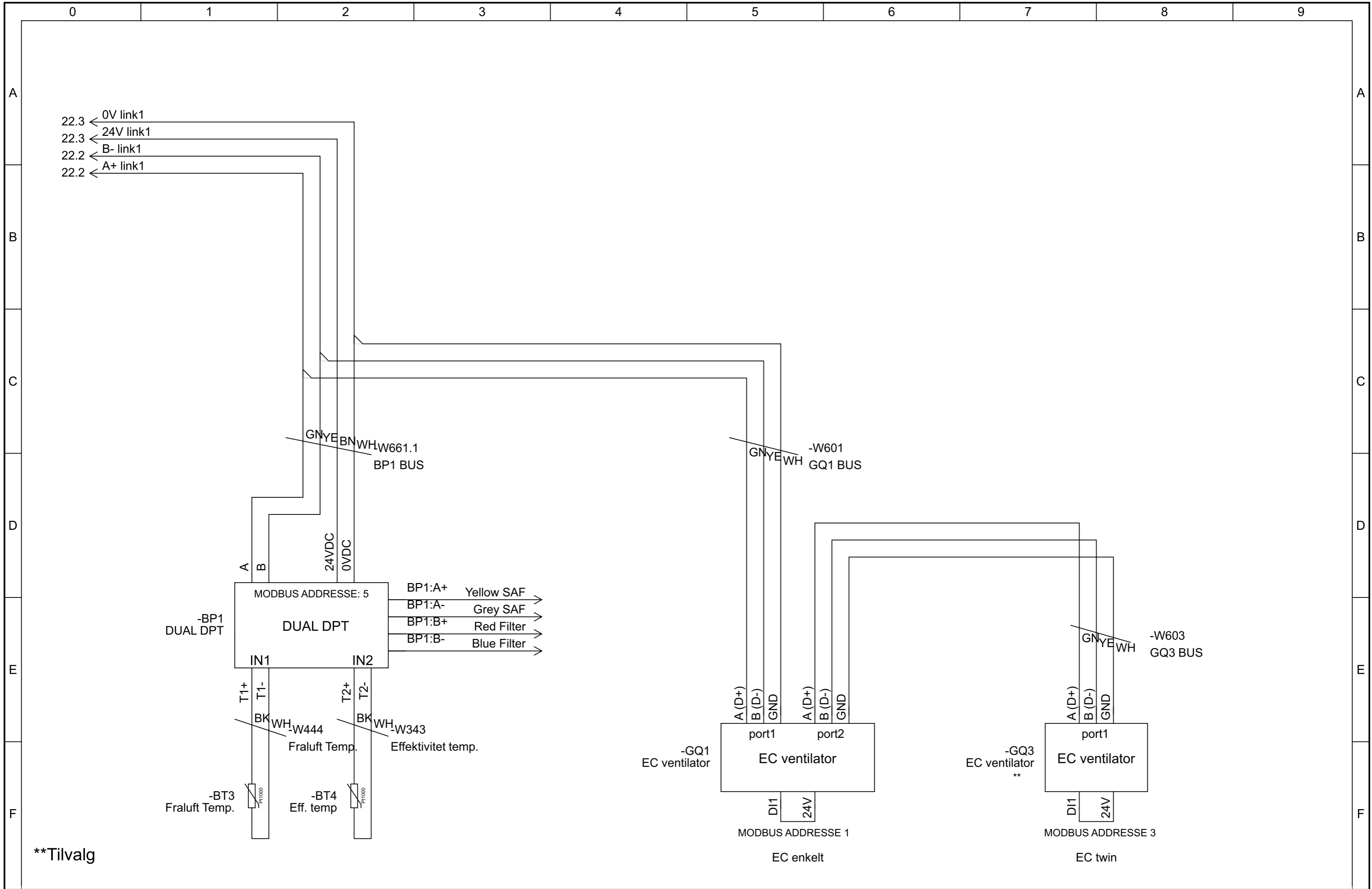
Dato: 15-01-2020

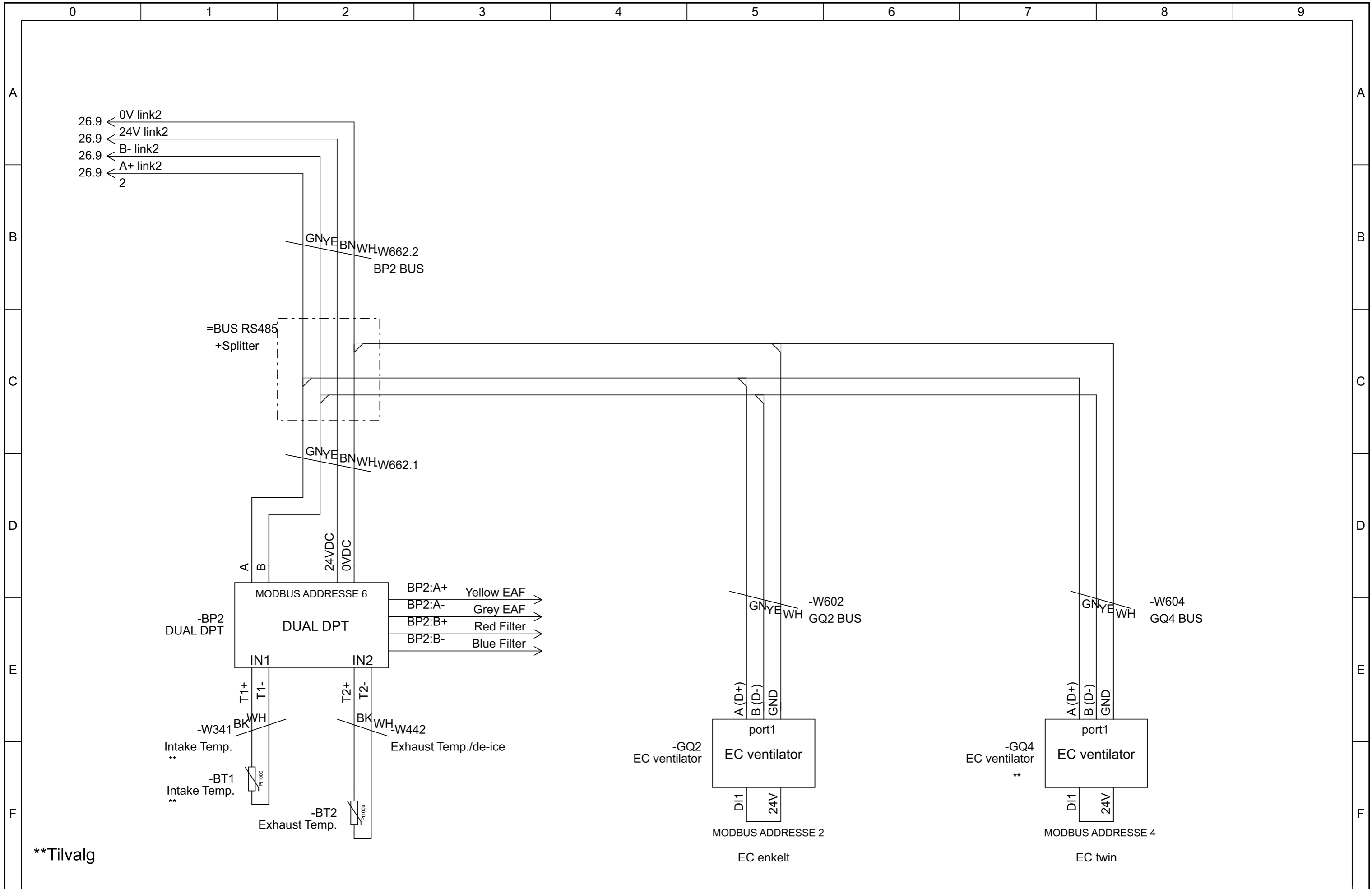
Initialer: MIKE

Antal sider: 19

Næste side: 23

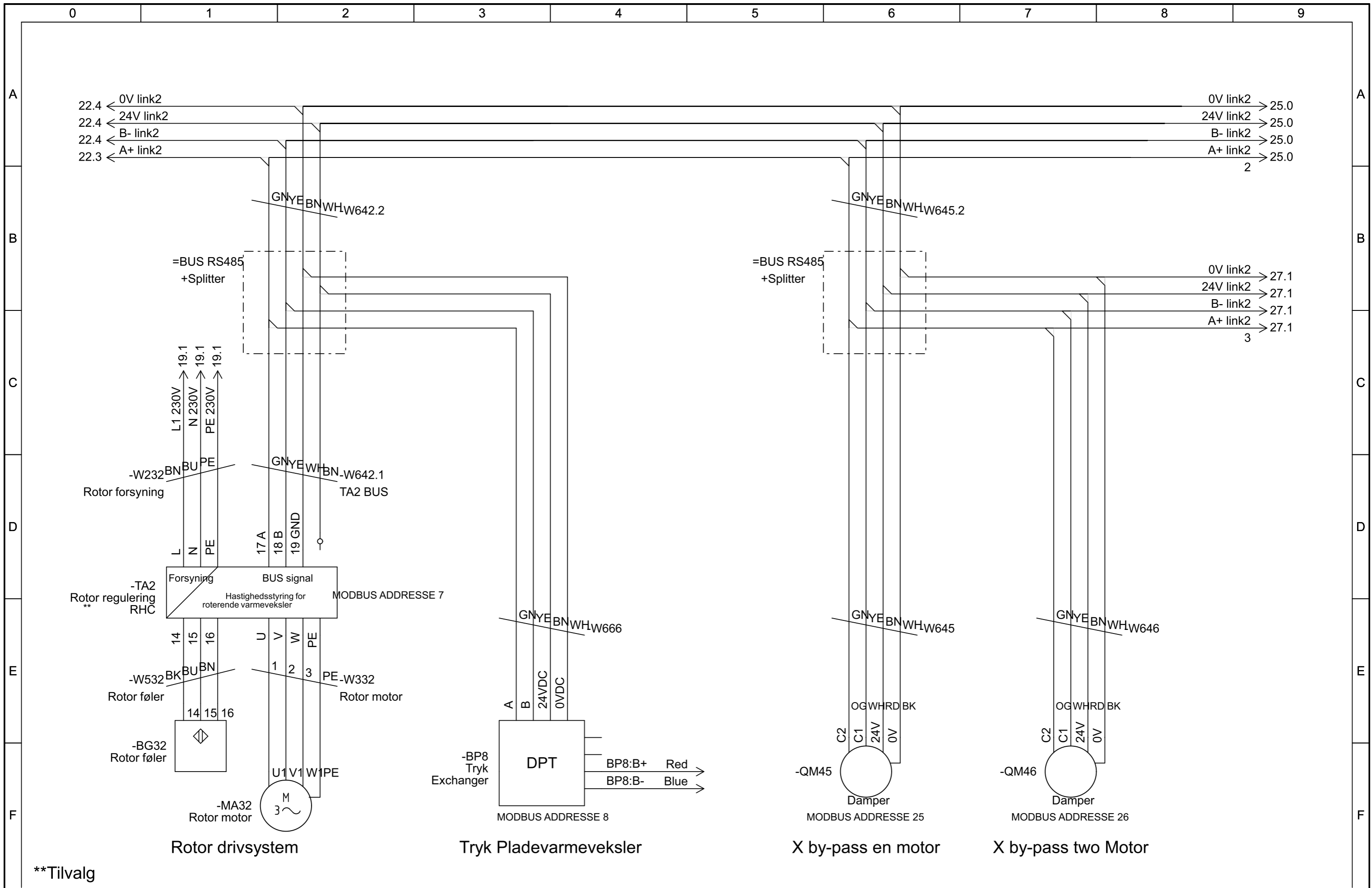




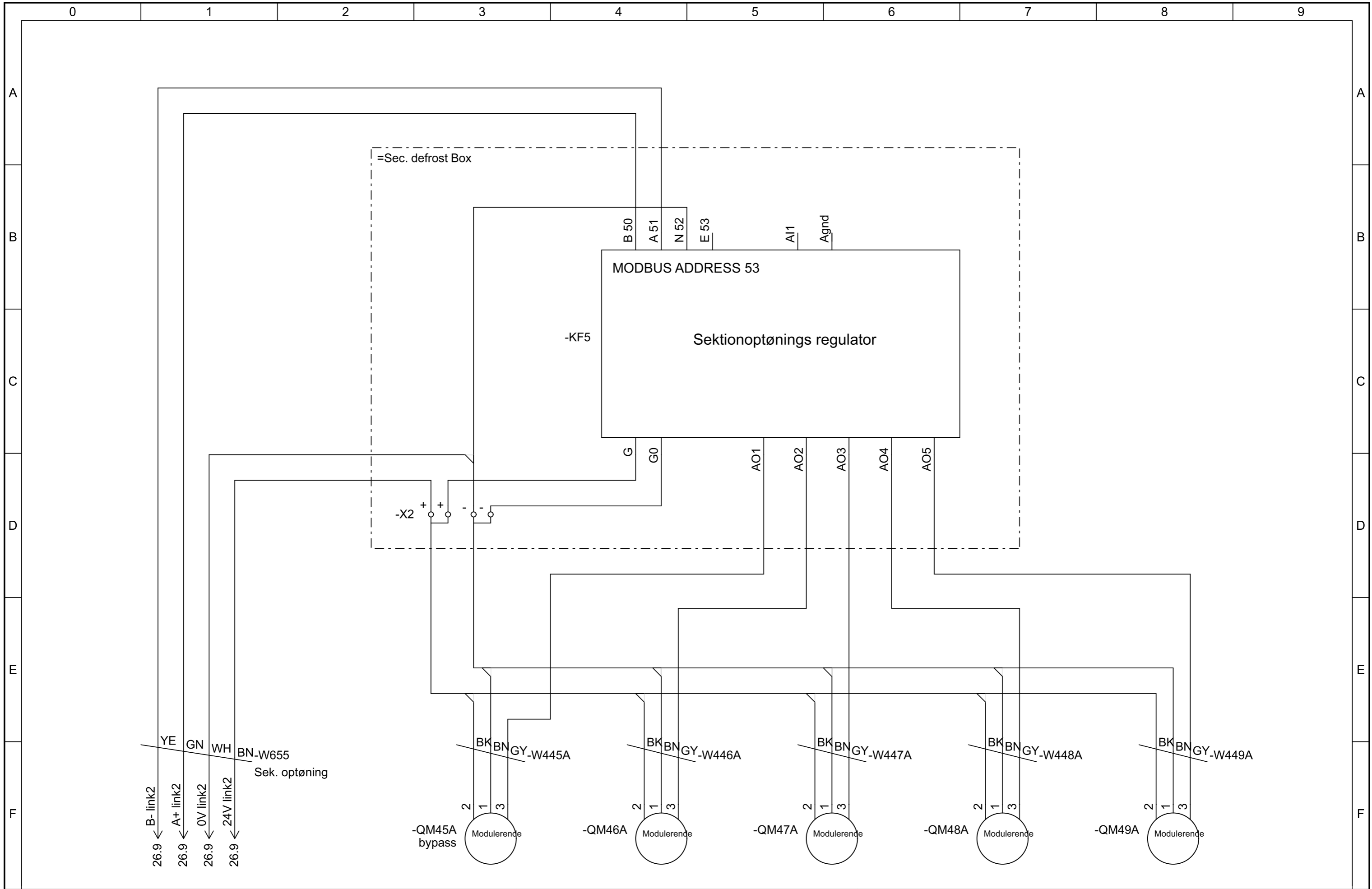


**Tilvalg

	Geniox Access CU27 Regulator	RS485 EC Fraluft	Projekt: Geniox-Core CS 41.04.02 DK	Rev.: 41.04.02	Blad: 25
			Dato: 15-01-2020	Initialer: MIKE	Antal sider: 19



**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.



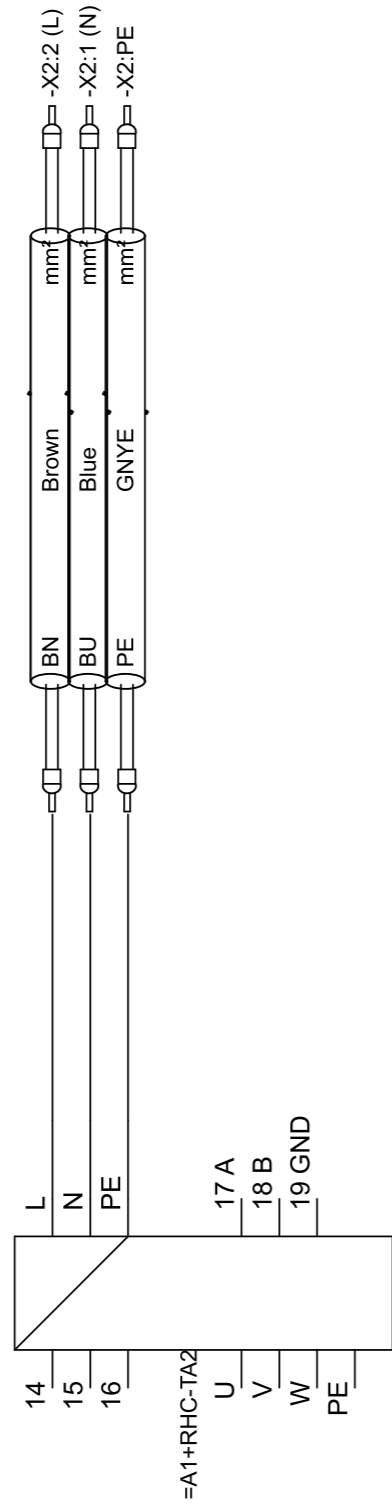
Kabel plan

Strømvej
Blad

Bemærk: Rotor forsyning
Cable-type:

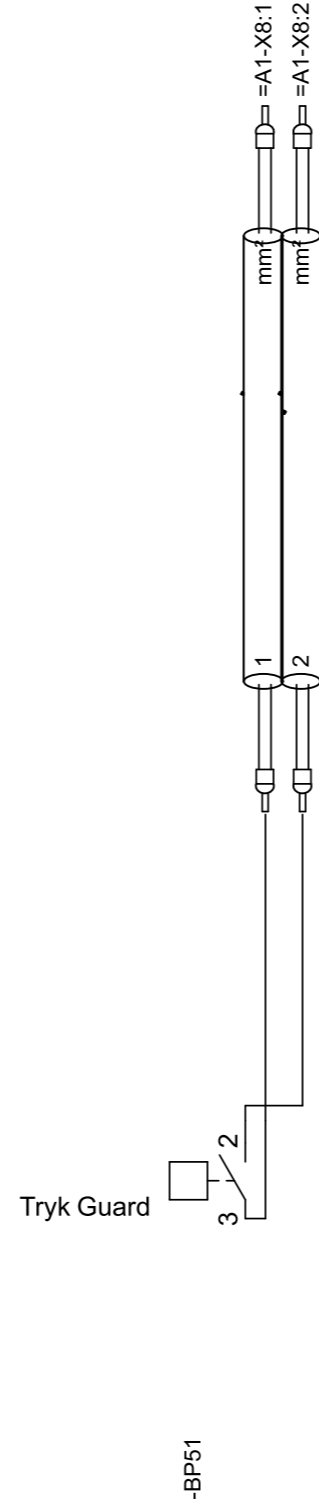
-W232

Rotor regulering
RHC



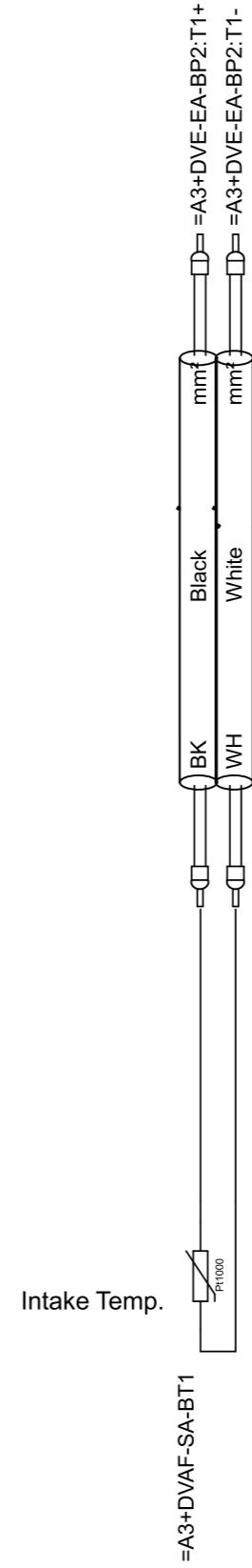
Bemærk:
Cable-type:

-W251



Bemærk: Intake Temp.
Cable-type:

-W341



1
1
1

14
14

1
1

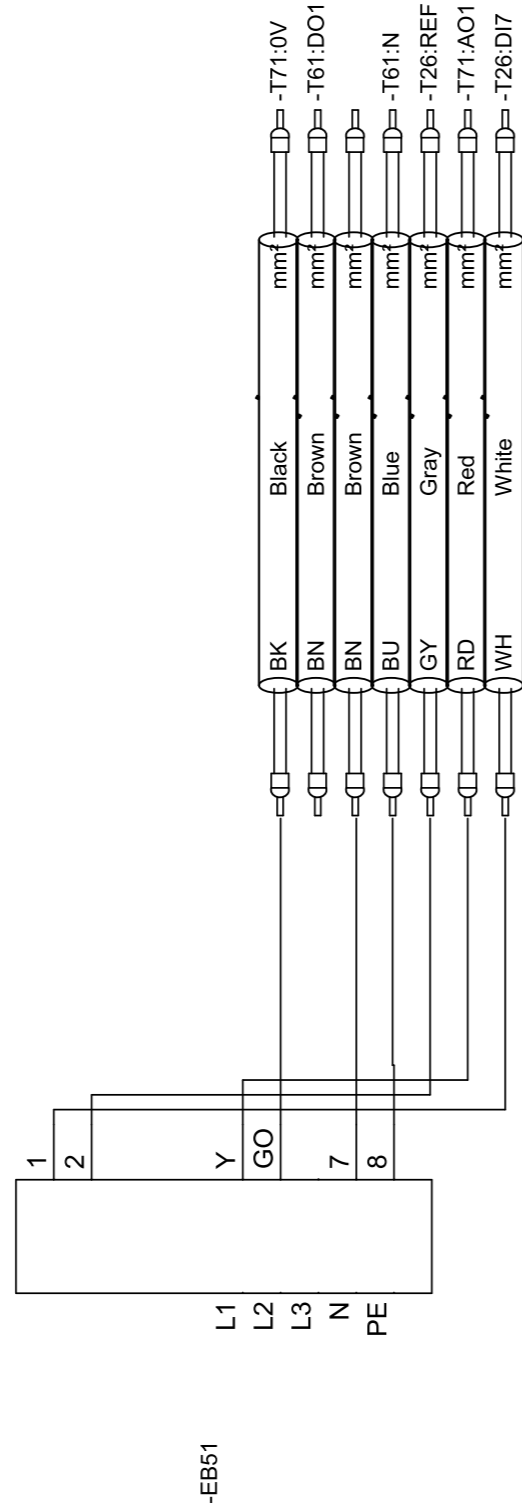
Kabel plan

Strømvej
Blad

Bemærk: El varmeblade
Cable-type:

-W351

El forvarmeblade



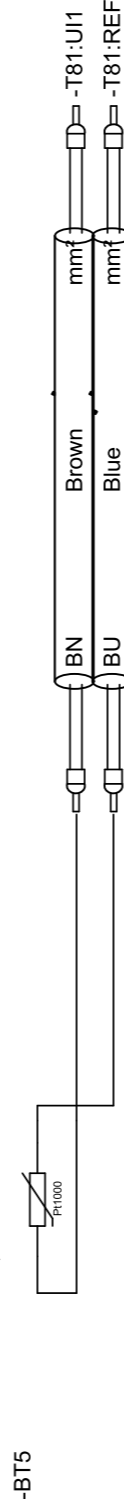
-EB51

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

-W355

Bemærk: Temperatur føler tilluft
Cable-type:

Tilluft
Kanal føler



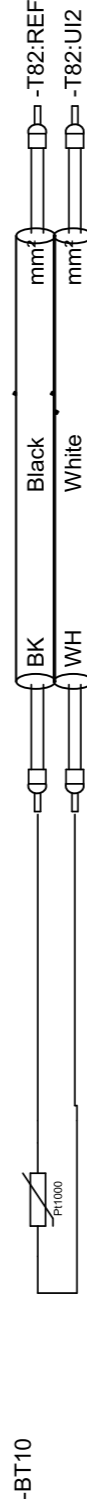
-BT5

13	1
13	1

-W357

Bemærk: Frostbeskyttelse varmeblade
Cable-type:

Frostbeskyttelse
Pt 1000



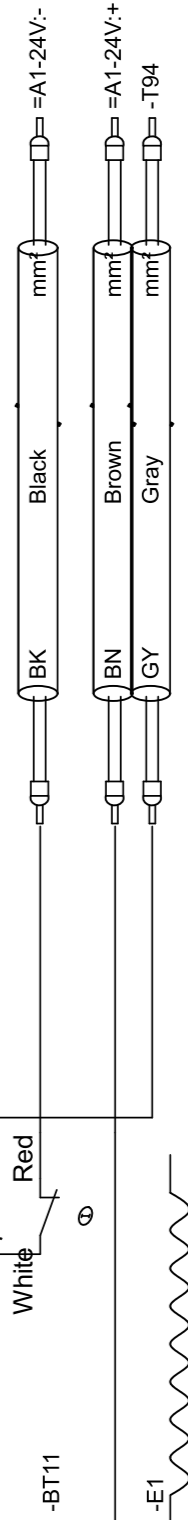
-BT10

13	4
13	3

-W359

Bemærk: frost termostat
Cable-type:

Kapillar føler



-BT11

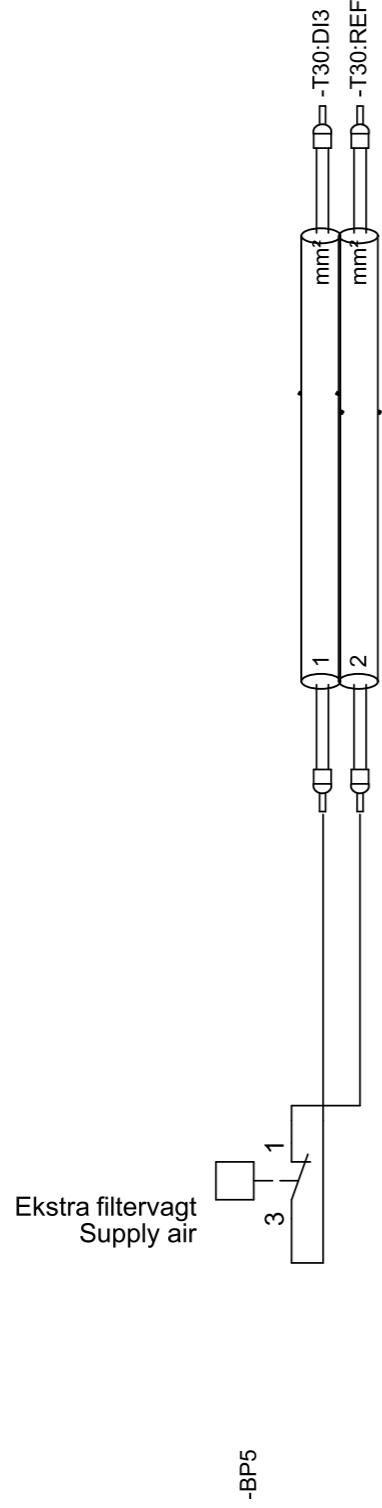
11	2
11	2
11	1

Kabel plan

Strømvej
Blad

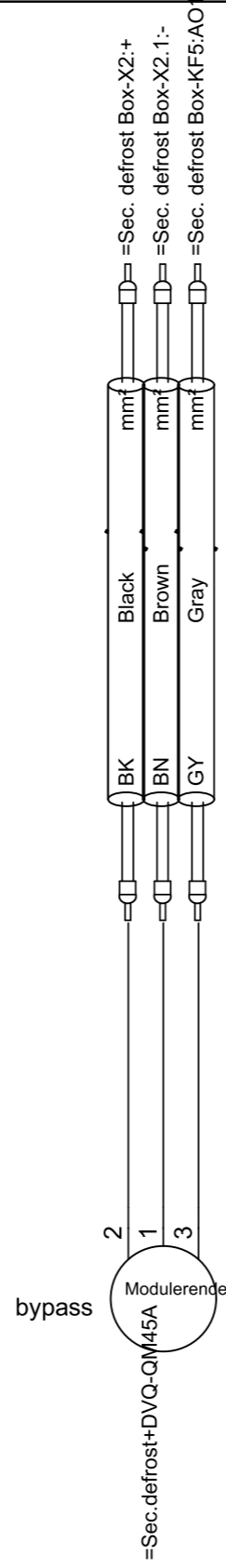
Bemærk: Ekstra filtervagt
Cable-type:

-W363



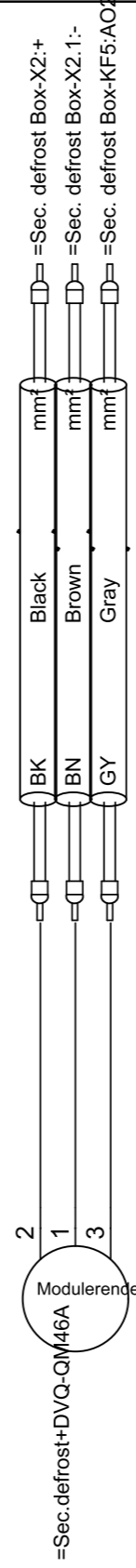
Bemærk:
Cable-type:

-W445A



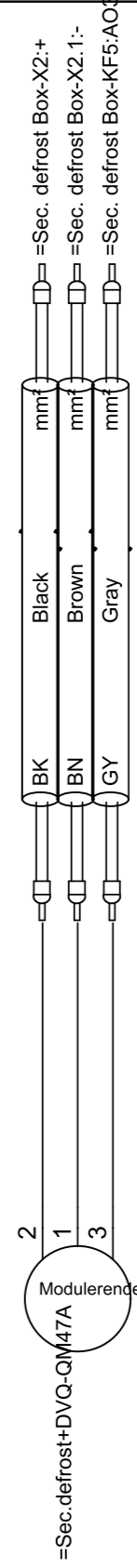
Bemærk:
Cable-type:

-W446A



Bemærk:
Cable-type:

-W447A



10
10

27
27
27

27
27
27

27
27
27

4
4

3
3
3

4
4
4

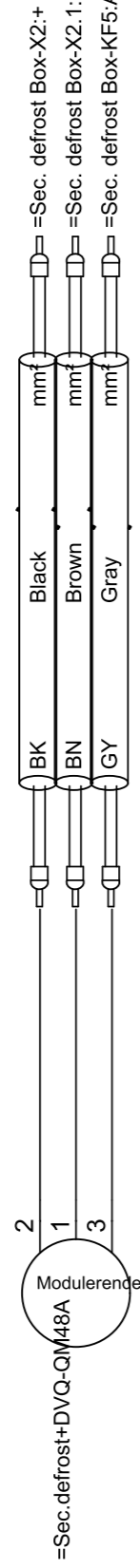
5
6
6

Kabel plan

Strømvej
Blad

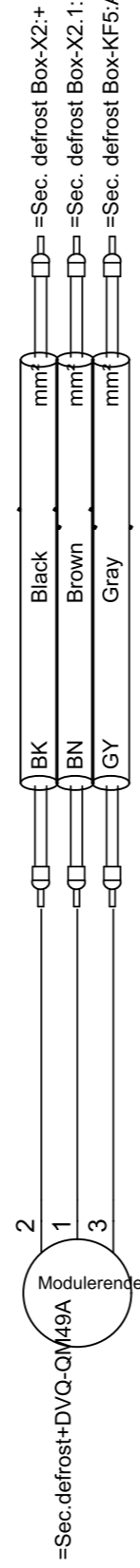
-W448A

Bemærk:
Cable-type:



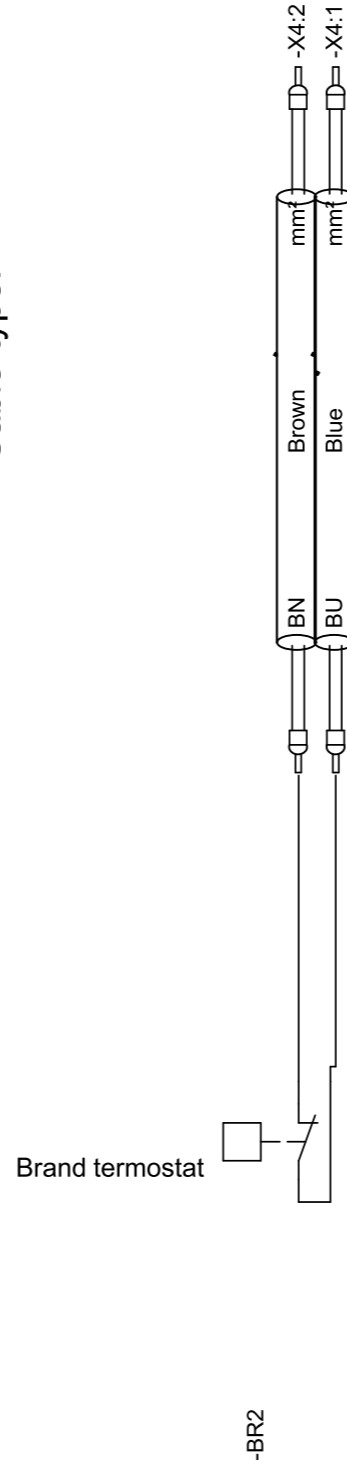
-W449A

Bemærk:
Cable-type:



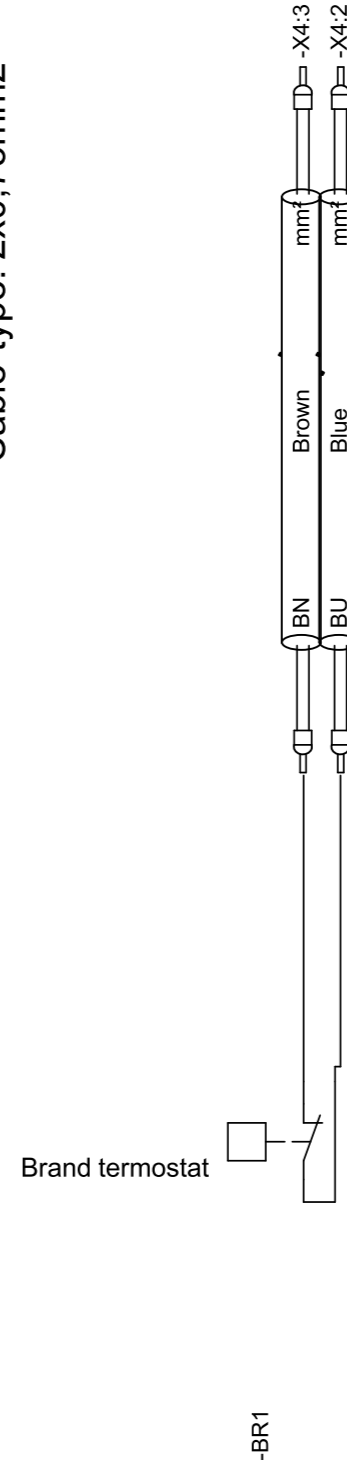
-W456

Bemærk: Brandtermostat fraluft
Cable-type:



-W457

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



7
27

8
27

6
11

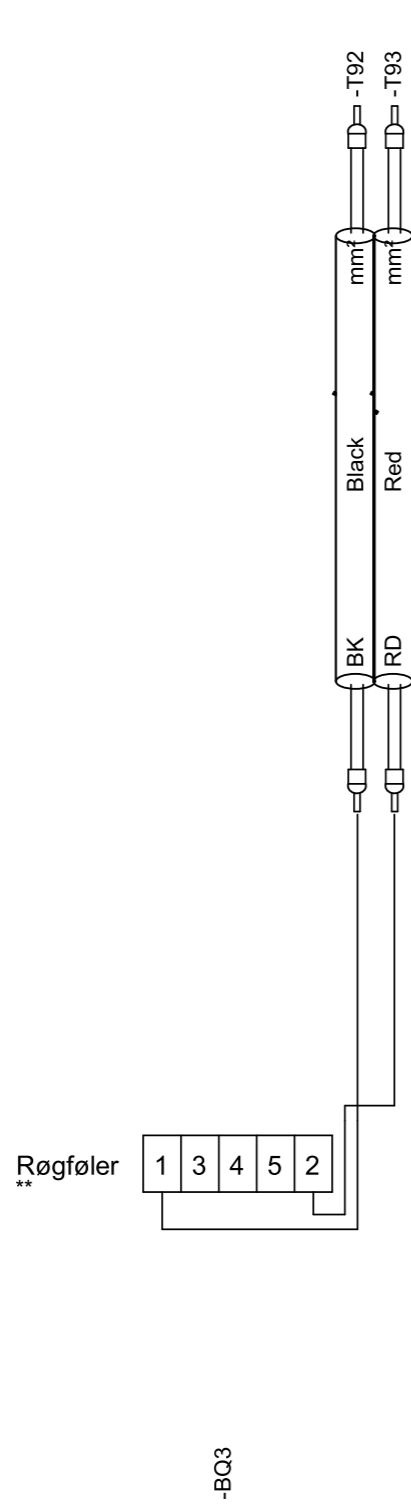
6
11

Kabel plan

Strømvej
Blad

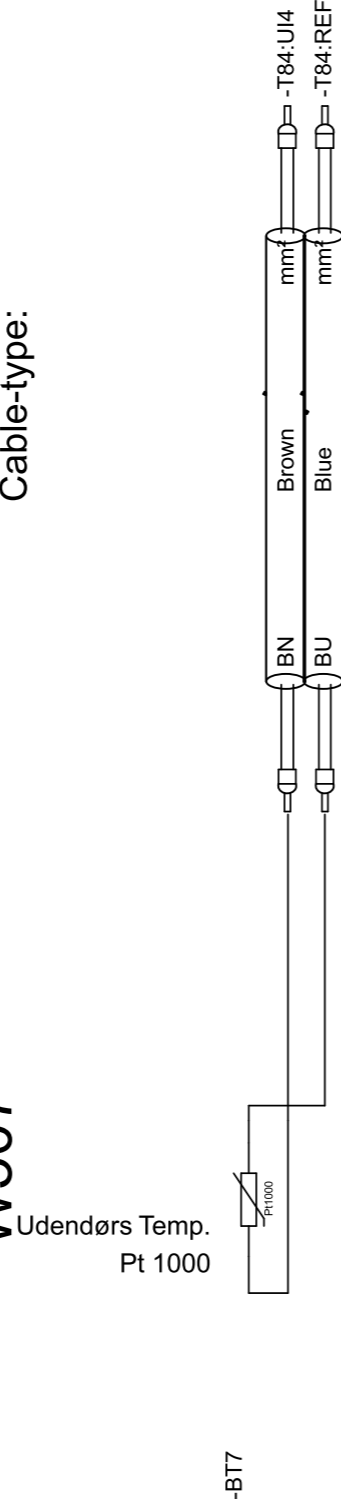
Bemærk: Røg føler
Cable-type:

-W458



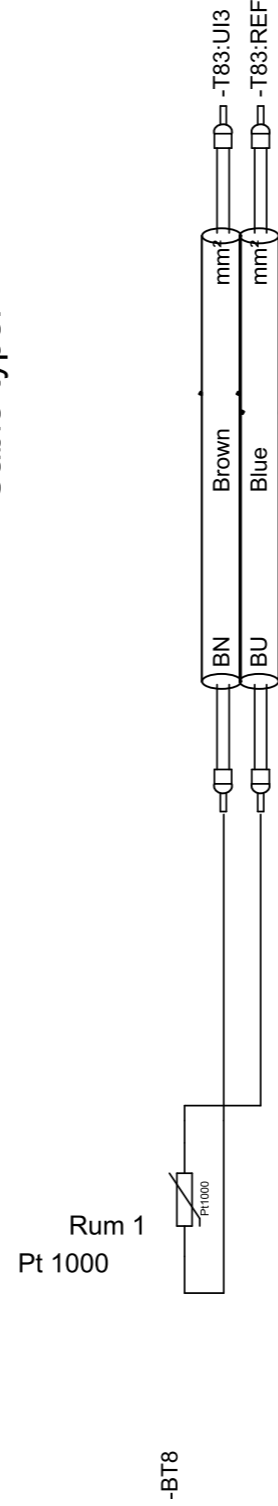
Bemærk: Ude føler
Cable-type:

-W507



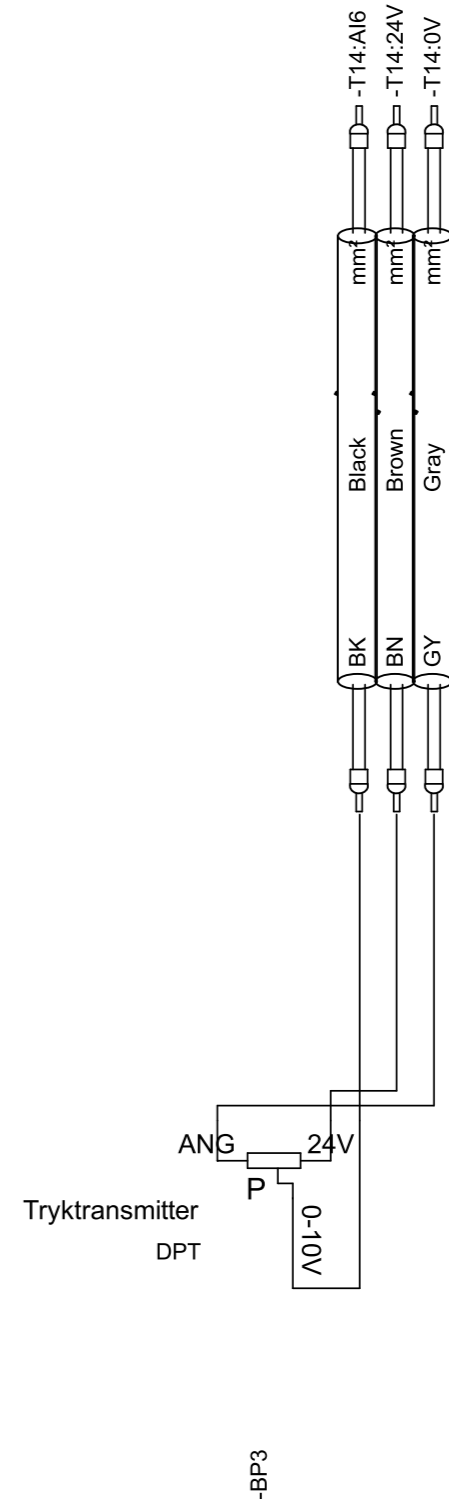
Bemærk: Rum 1 Temp.
Cable-type:

-W508



Bemærk: Tryk Tilluft ekstern
Cable-type:

-W513



0
1

8
8

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6

3
3
2

12
12

13
13

13
13

12
12
12

Kabel plan

Strømvej
Blad

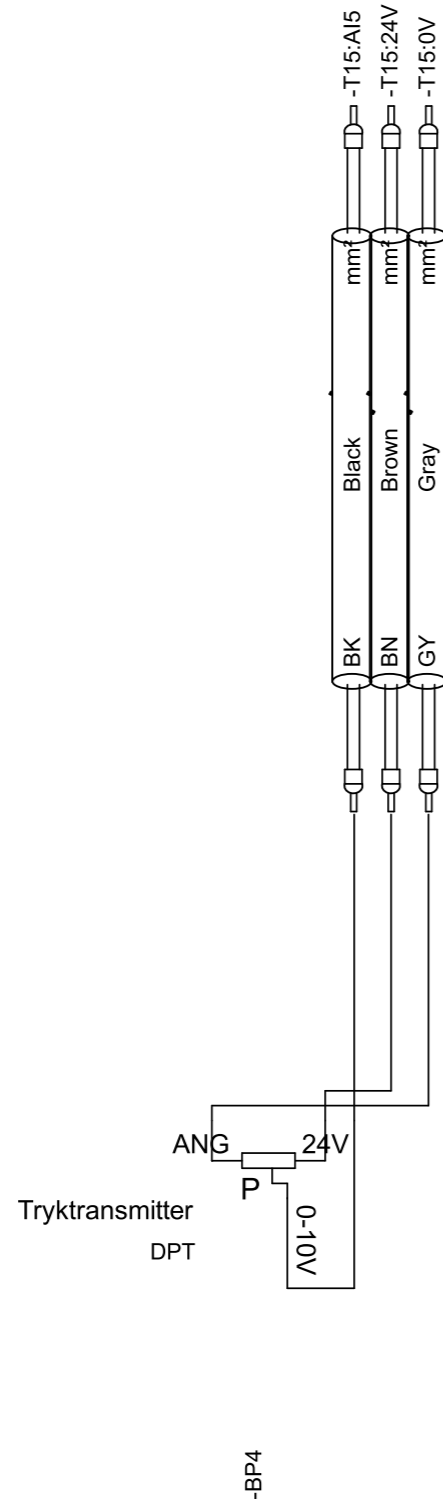
4 5 4
12 12 12

6 6 7
12 12 12

8 8 8
12 12 12

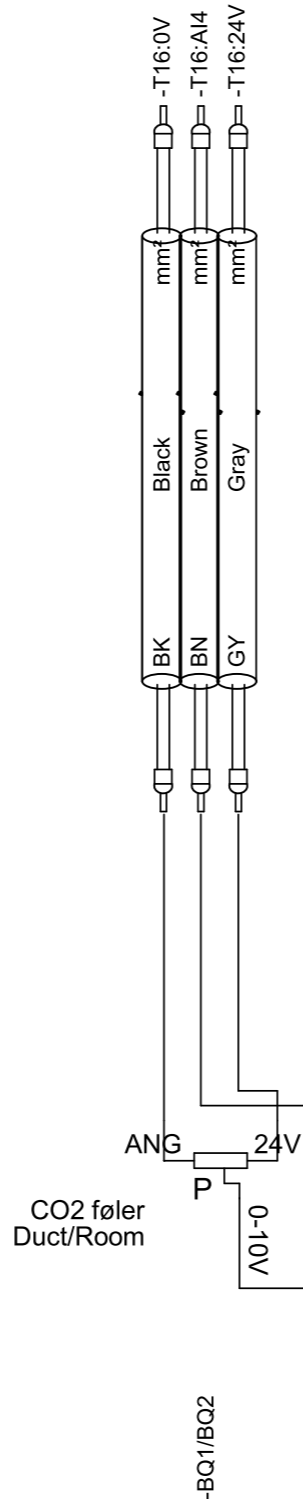
Bemærk: Tryk Fraluft ekstern
Cable-type:

-W514



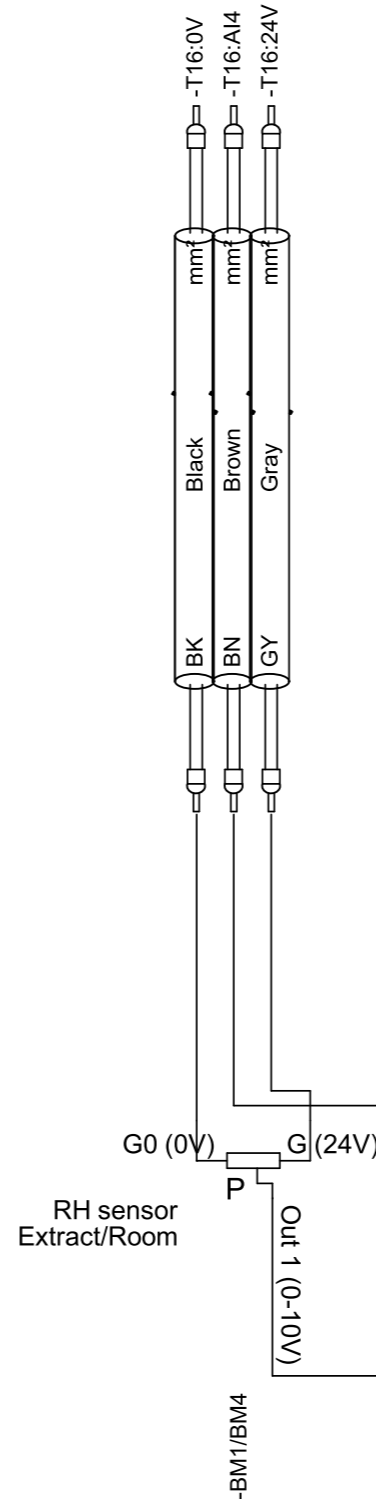
Bemærk: CO2 føler
Cable-type:

-W515/516



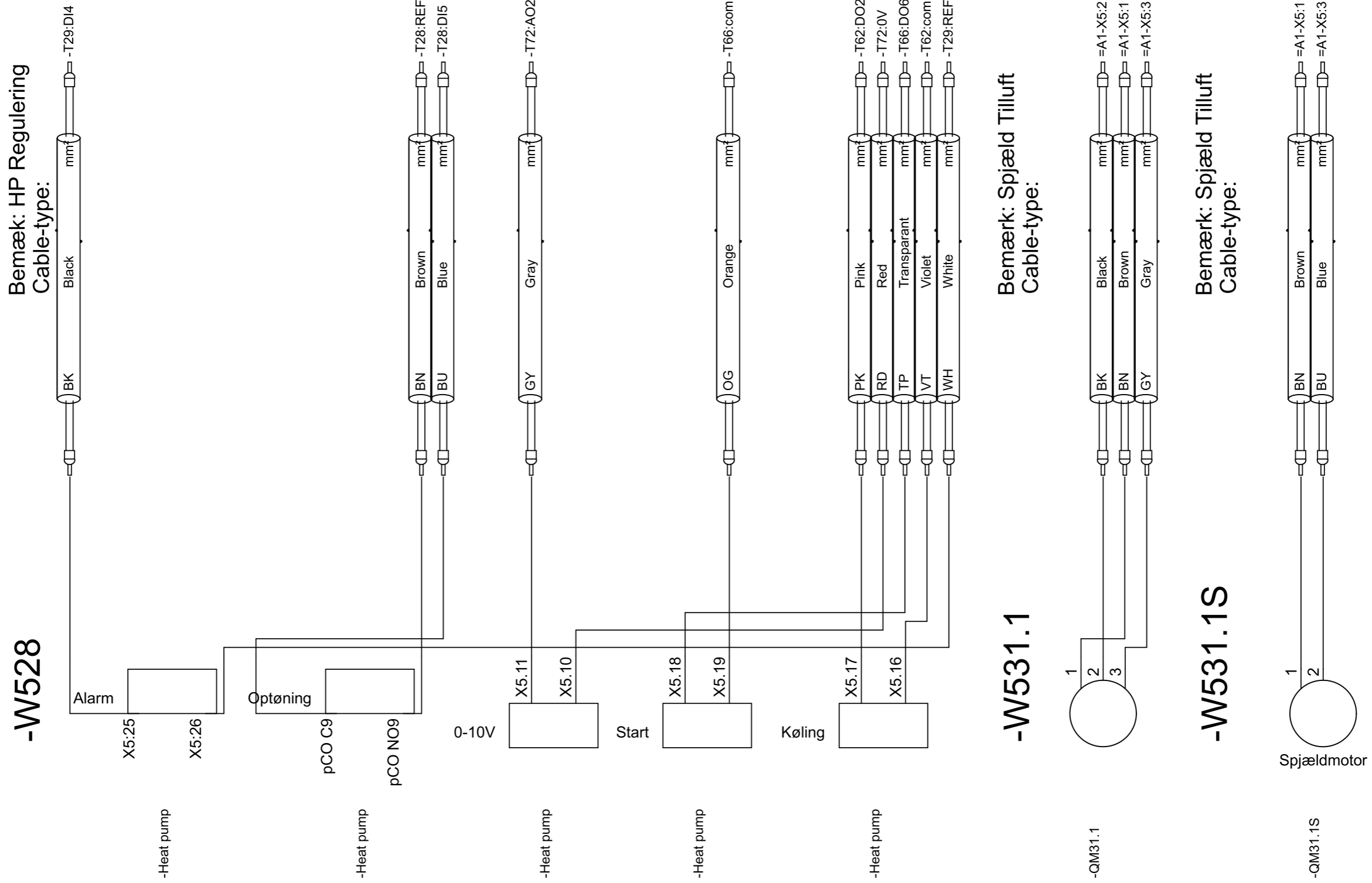
Bemærk: RH sensor
Cable-type:

-W517/W520



Kabel plan

Strømvej
Blad



6

10

9

10

8

10

8

16

9

15

4

14

8

16

9

15

5

14

6

10

0

15

0

15

0

15

1

15

1

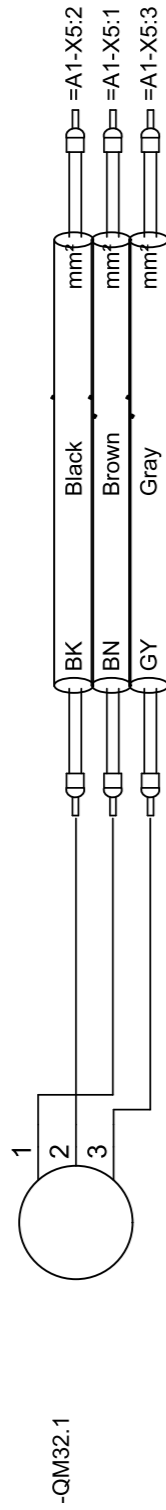
15

Kabel plan

Strømvej
Blad

Bemærk: Spjæld Fraluft
Cable-type:

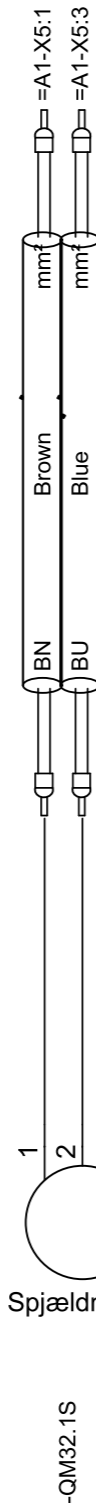
-W532.1



-QM32.1

Bemærk: Spjæld Fraluft
Cable-type:

-W532.1S

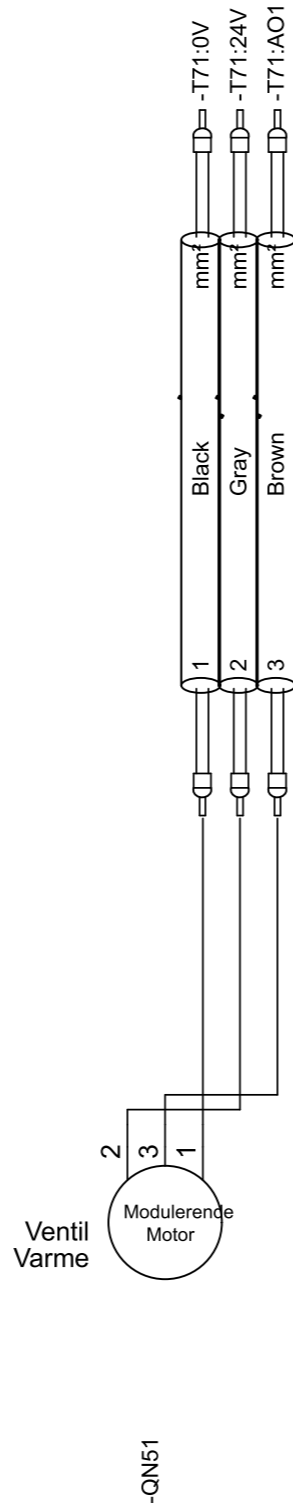


-QM32.1S

Spjældmotor

Bemærk: Varme ventil
Cable-type:

-W551



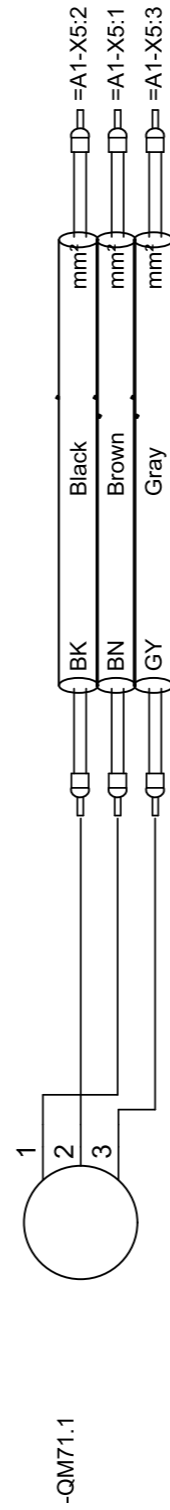
-QN51

Ventil
Varme

Modulerende
Motor

Bemærk: Spjæld Tilluft 2
Cable-type:

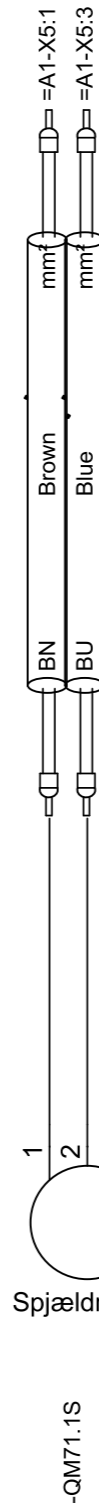
-W571.1



-QM71.1

Bemærk: Spjæld Tilluft 2
Cable-type:

-W571.1S

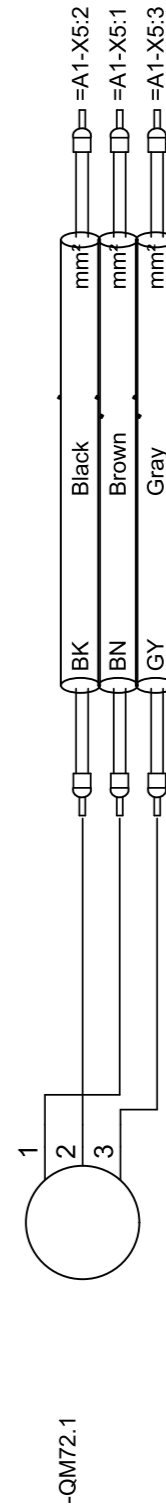


-QM71.1S

Spjældmotor

Bemærk: Spjæld Fraluft 2
Cable-type:

-W572.1



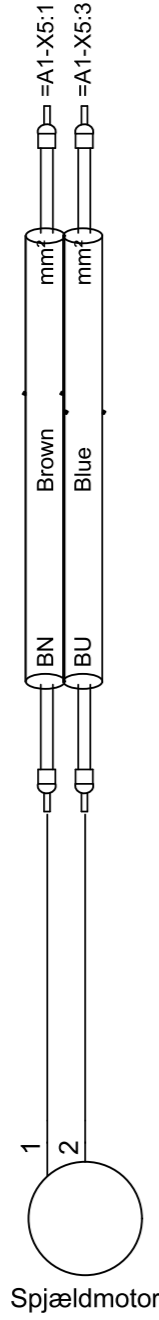
-QM72.1

Kabel plan

Strømvej
Blad

-W572.1S

Bemærk: Spjæld Fraluft 2
Cable-type:



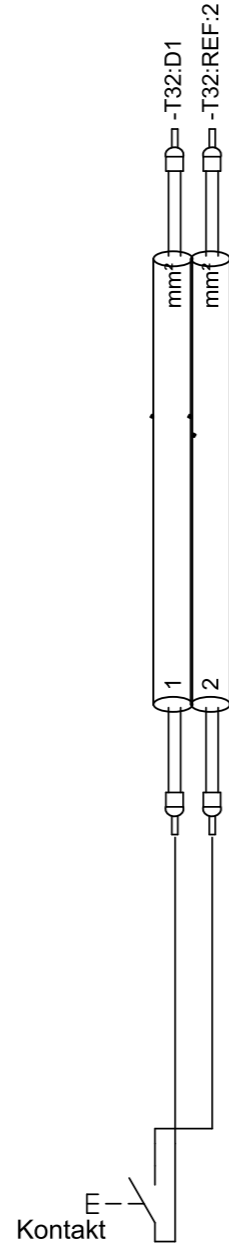
-QM72.1S

7

15

-W580

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



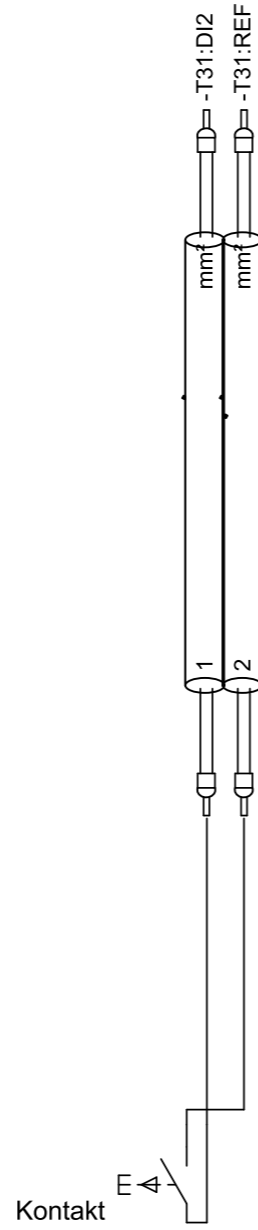
-SF2

1

10

-W581

Bemærk: Normal hastighed-ekst.
Cable-type:



-SF3

2

10

-W583

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

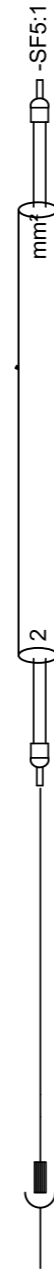


-T30:D13

5

10

-T30:REF

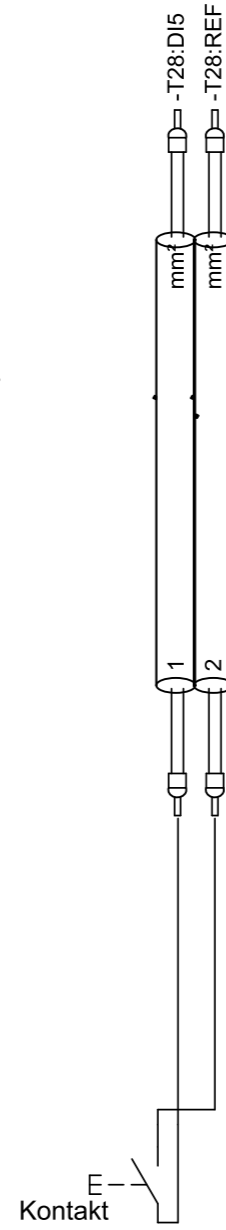


5

10

-W584

Bemærk: Change over
Cable-type:



-SF6

8

10

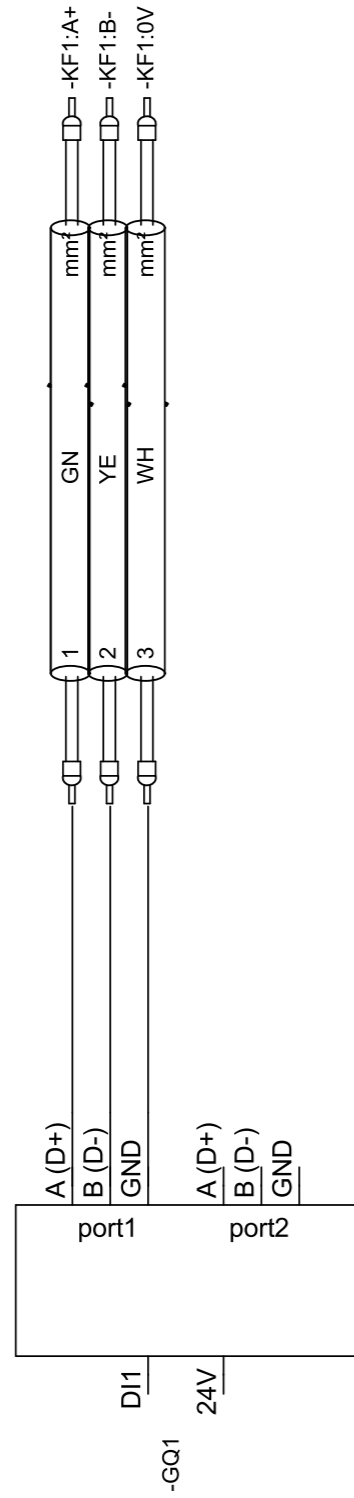
Kabel plan

Strømvej
Blad

Bemærk: GQ1 BUS
Cable-type: 4x0,6mm2

-W601

EC ventilator



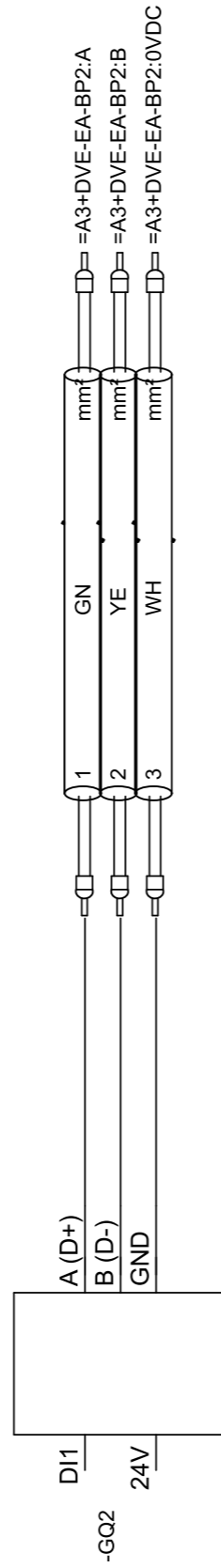
24
24
24

5
5
5

Bemærk: GQ2 BUS
Cable-type: 4x0,6mm2

-W602

EC ventilator



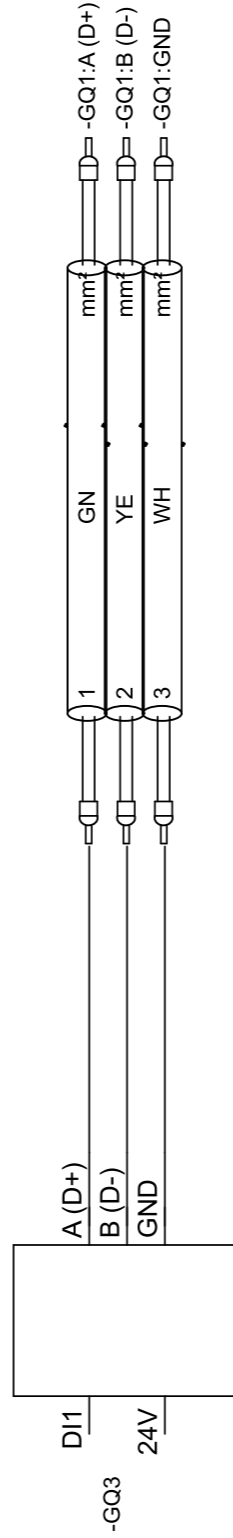
25
25
25

5
5
5

Bemærk: GQ3 BUS
Cable-type: 4x0,6mm2

-W603

EC ventilator



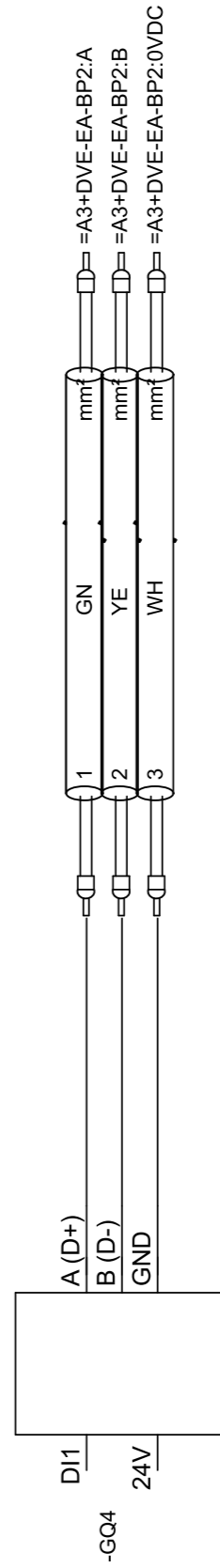
24
24
24

7
8
8

Bemærk: GQ4 BUS
Cable-type: 4x0,6mm2

-W604

EC ventilator



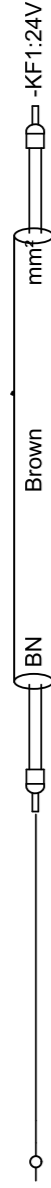
25
25
25

7
8
8

Kabel plan

Strømvej
Blad

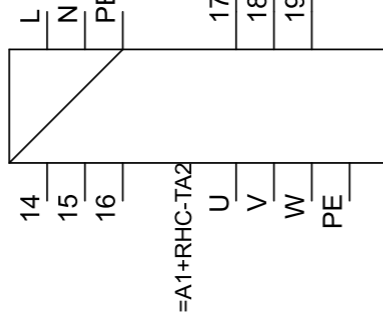
Bemærk: TA2 BUS
Cable-type:



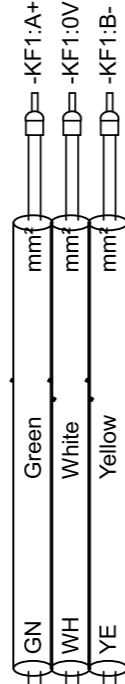
-W642.1

-X

Rotor regulering
RHC

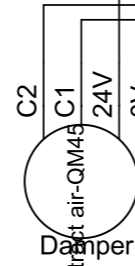


=A1+RHC-TA2

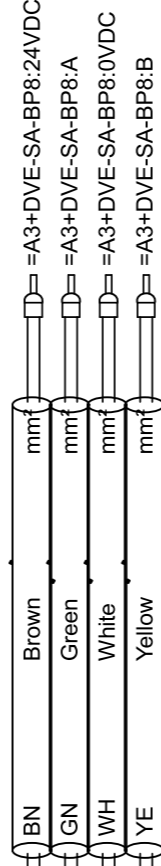


Bemærk: Fraluft
Cable-type:

-W645

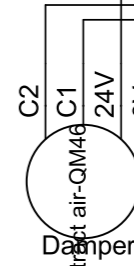


=BUS RS485+Ext
Damper

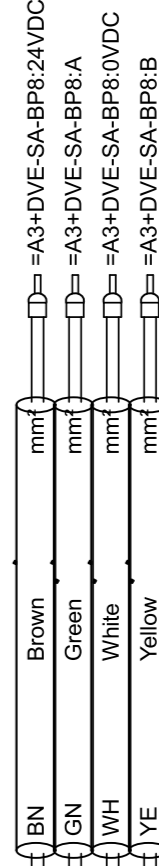


Bemærk: Fraluft
Cable-type:

-W646



=BUS RS485+Ext
Damper



26	1	2	2
26	2	2	2
26	2	2	2

26	6	6	6	6
26	6	6	6	6
26	6	6	6	6
26	6	6	6	6

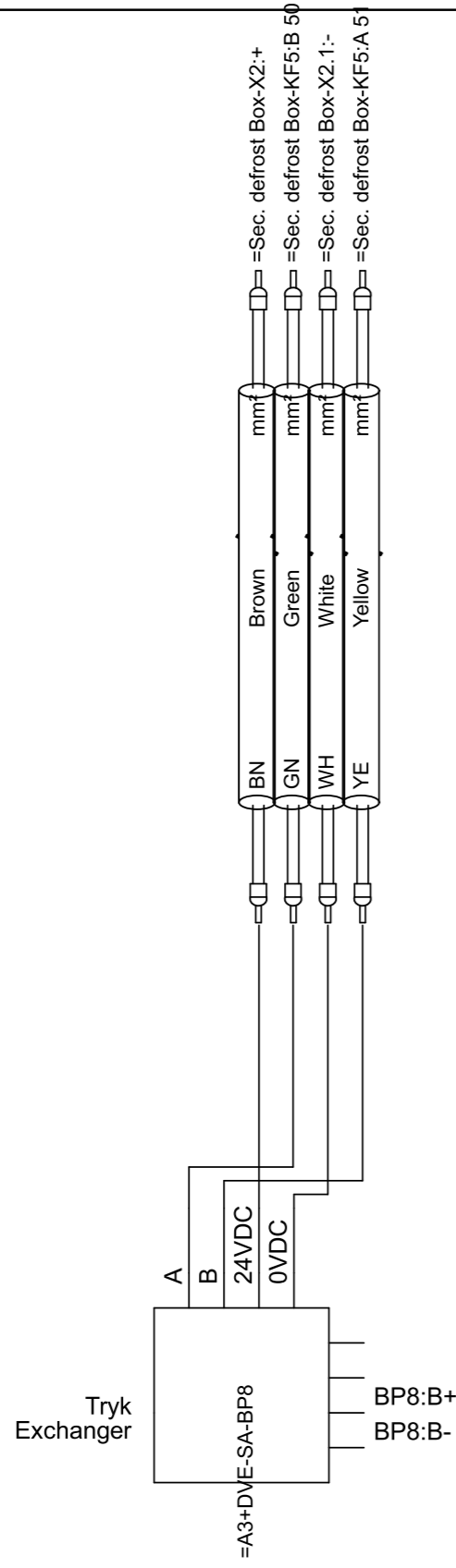
26	7	7	8	7
26	7	7	8	7
26	7	7	8	7
26	7	7	8	7

Kabel plan

Strømvej
Blad

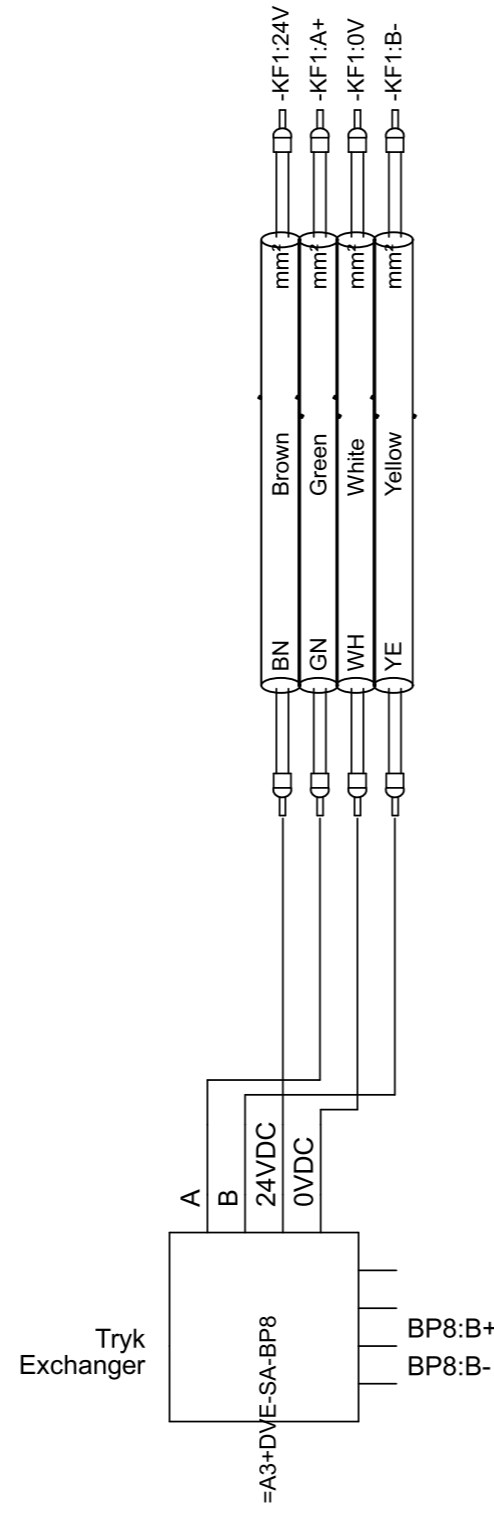
Bemærk: Sek. optøning
Cable-type:

-W655



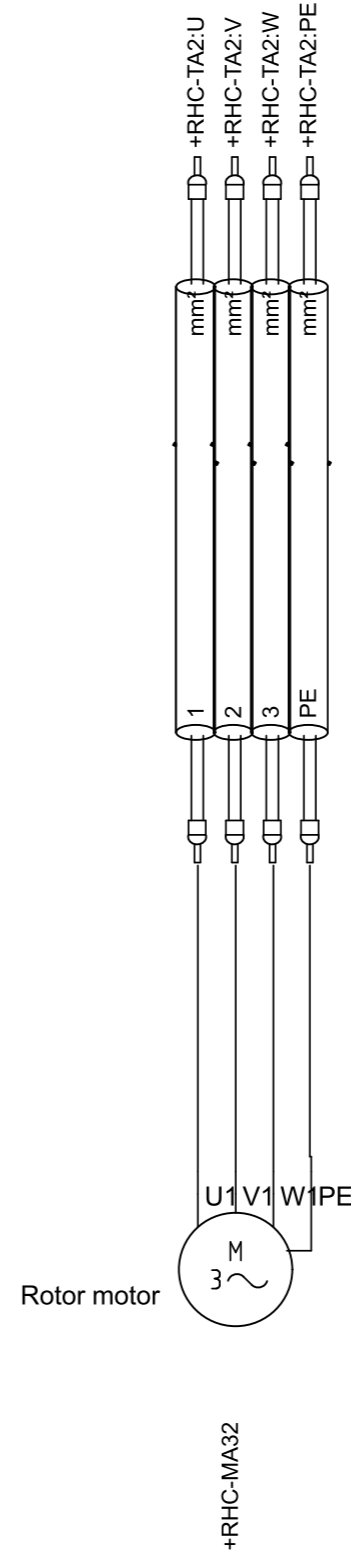
Bemærk: Tryk Pladeveksler
Cable-type:

-W666



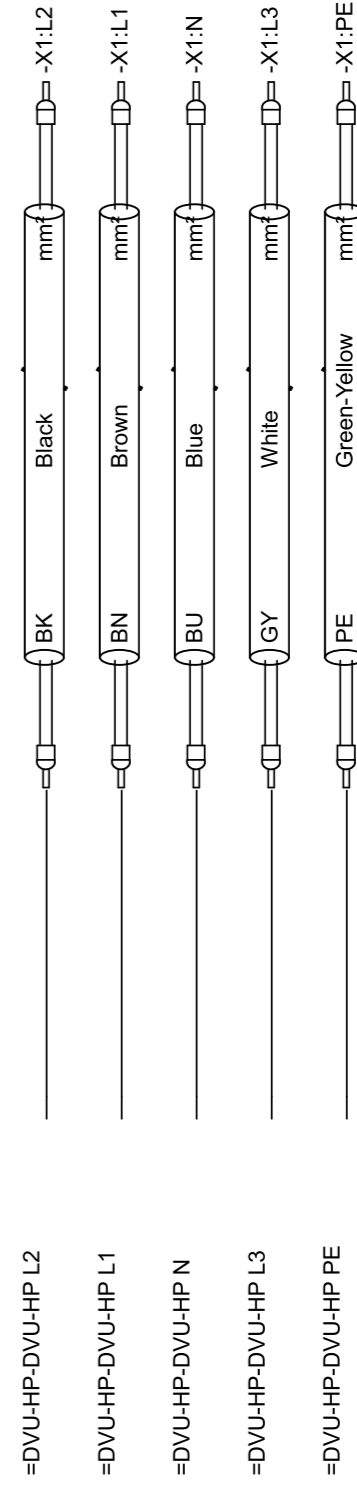
Bemærk: Rotor Motor
Cable-type:

=A1-W332



Bemærk: DVU-HP
Cable-type:

=A1-W529



Strømvej	1	1	1	1
Blad	27	27	27	27

Strømvej	4	3	4	3
Blad	26	26	26	26

Strømvej	1	2	2	2
Blad	26	26	26	26

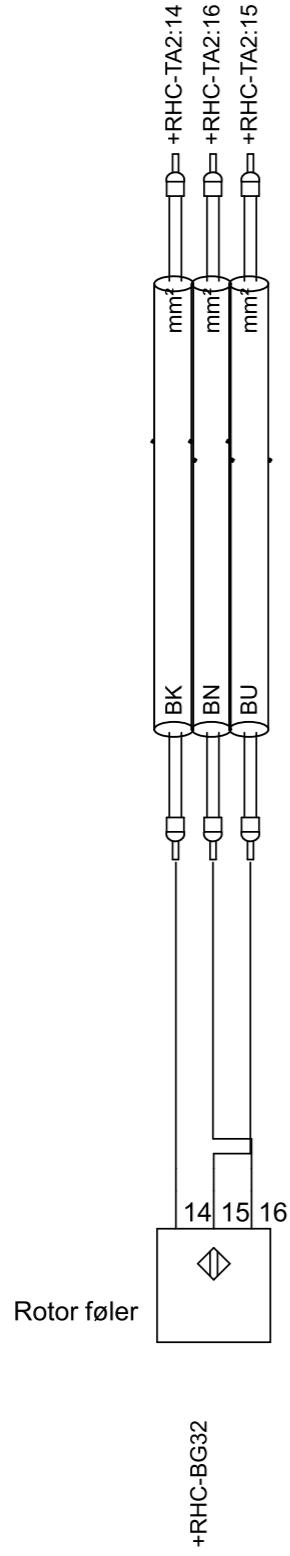
Strømvej	2	2	2	2	3
Blad	18	18	18	18	18

Kabel plan

Strømvej
Blad

=A1-W532

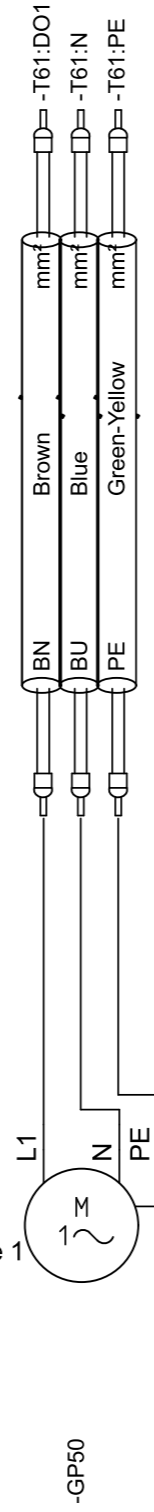
Bemærk: Rotor føler
Cable-type:



1
1
1
26
26
26

=A1-W550

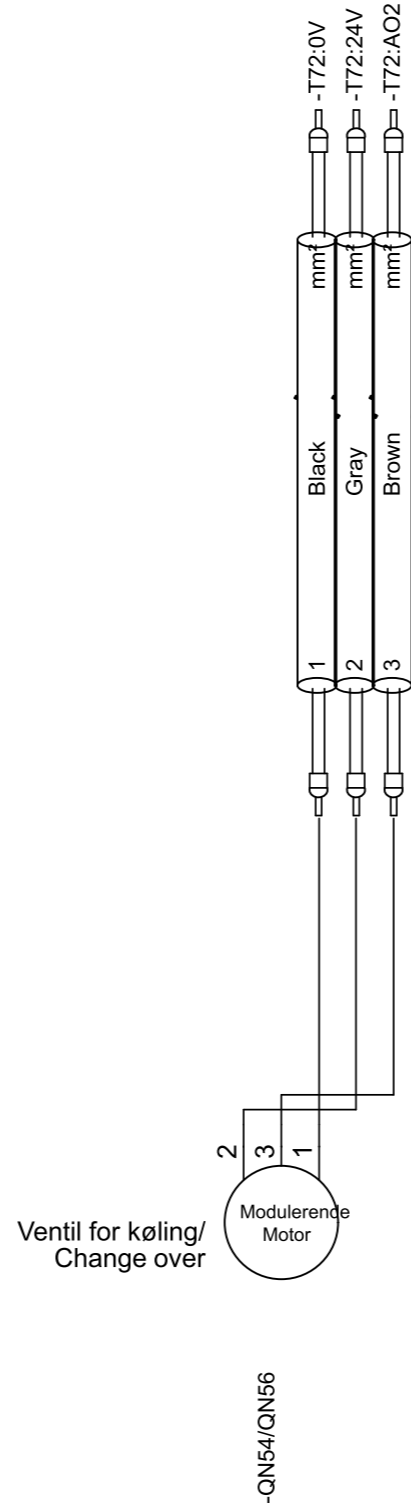
Bemærk: Cirkulationspumpe
Cable-type:



2
2
2
14
14
14

=A1-W554

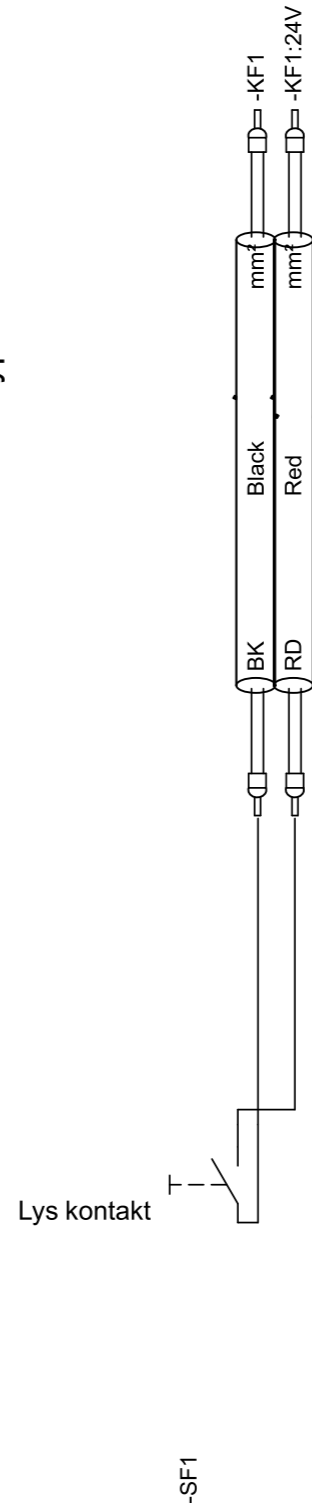
Bemærk: Køleventil
Cable-type:



7
7
7
16
16
16

=A1-W700

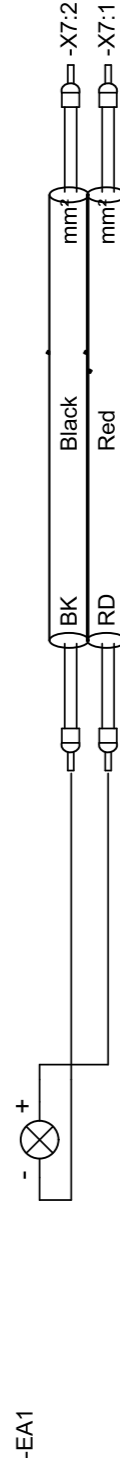
Bemærk: Lys kontakt
Cable-type:



5
5

=A1-W701

Bemærk: Lys P20
Cable-type:



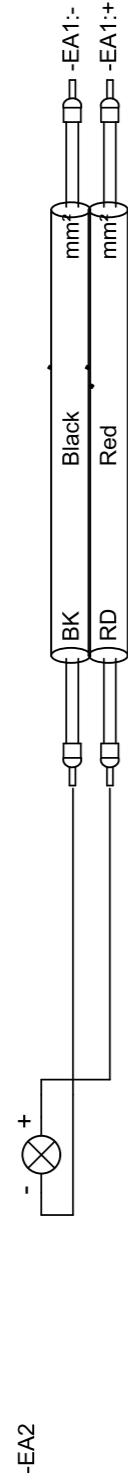
6
6
19
19

Kabel plan

Strømvej
Blad

=A1-W702

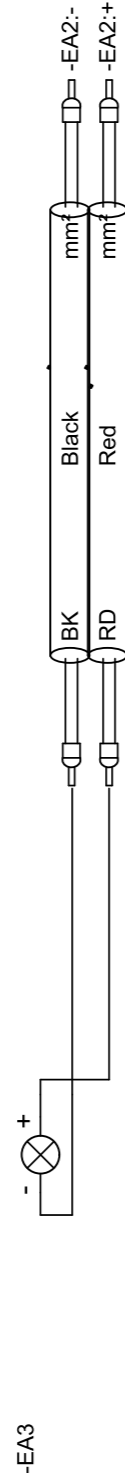
Bemærk: Lys P20
Cable-type:



-EA2

=A1-W703

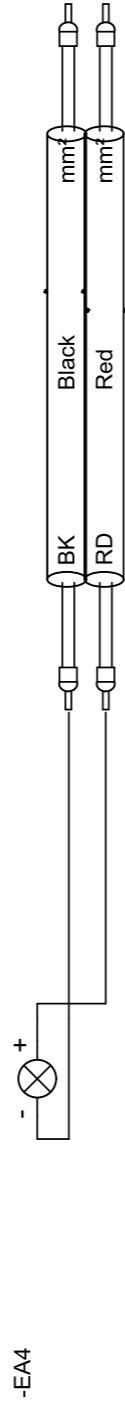
Bemærk: Lys P20
Cable-type:



-EA3

=A1-W704

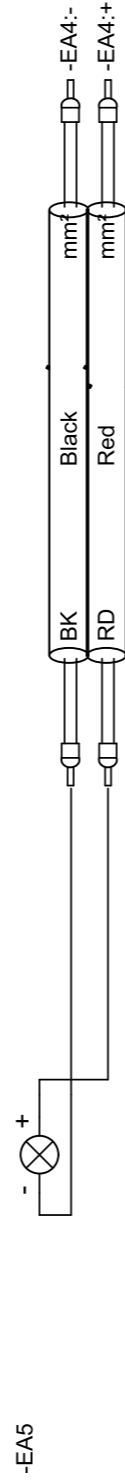
Bemærk: Lys P21
Cable-type:



-EA4

=A1-W705

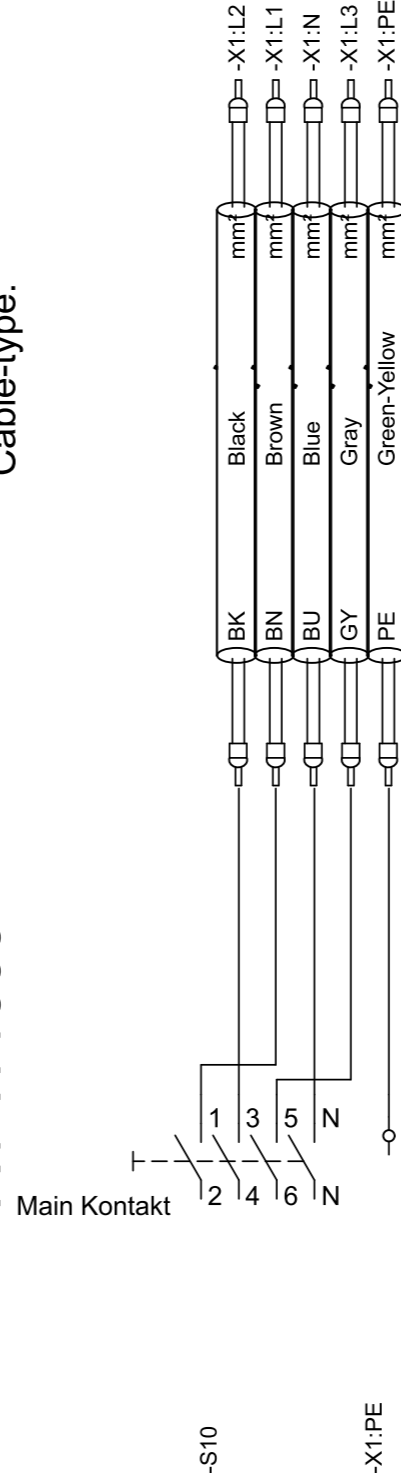
Bemærk:
Cable-type:



-EA5

=A1-W1000

Bemærk: Hovedforsyning
Cable-type:



-S10

-X1:PE

19 7
19 6

19 7
19 7

19 8
19 8

19 9
19 9

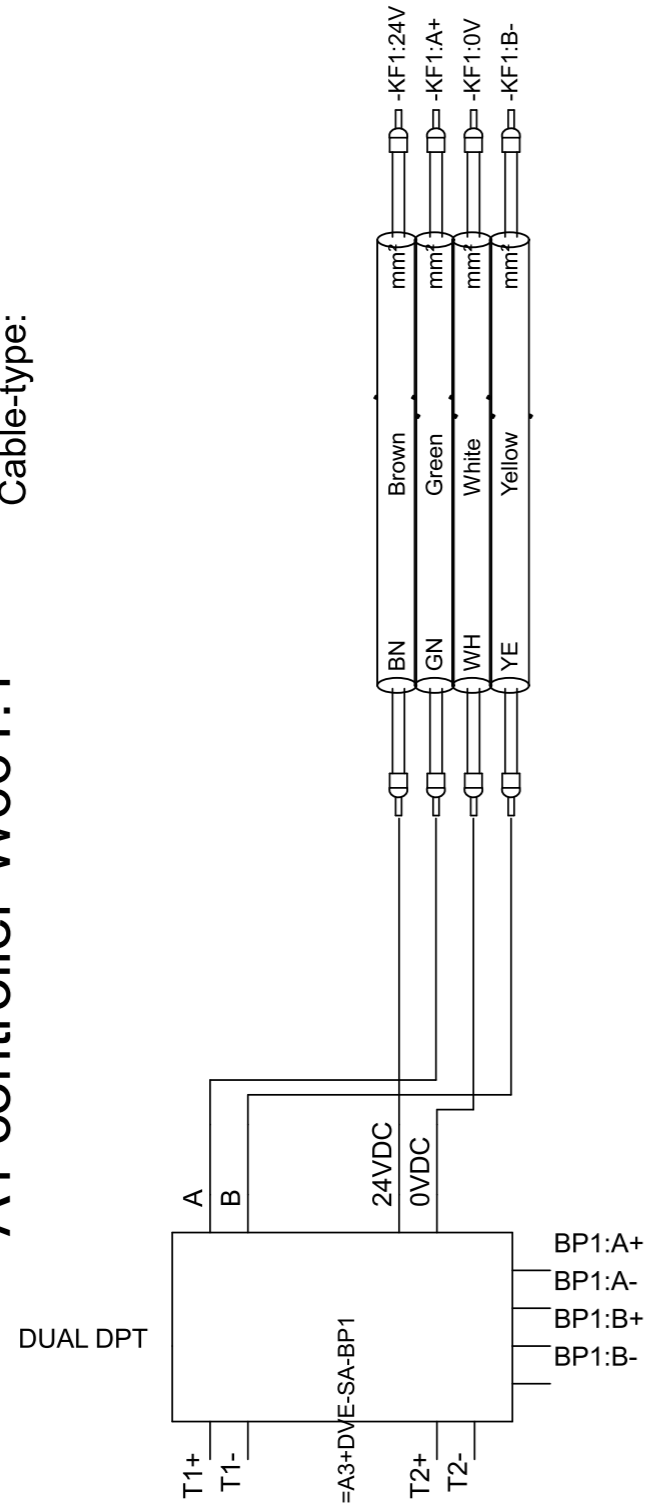
18 0
18 0
18 1
18 1
18 1

Kabel plan

Strømvej
Blad

Bemærk: BP1 BUS
Cable-type:

=A1 controller-W661.1



24
24
24
24

Bemærk: BP2 BUS
Cable-type:

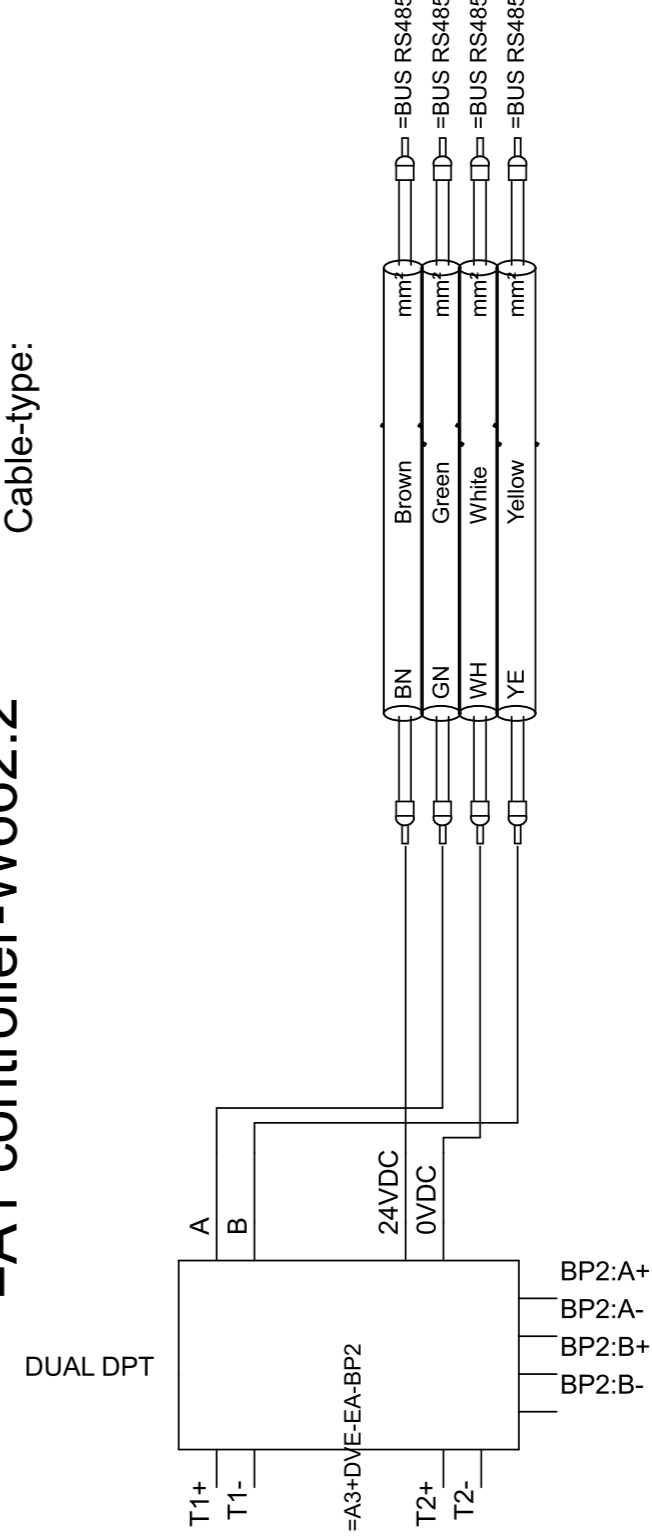
=A1 controller-W662.1



25
25
25
25

Bemærk: BP2 BUS
Cable-type:

=A1 controller-W662.2



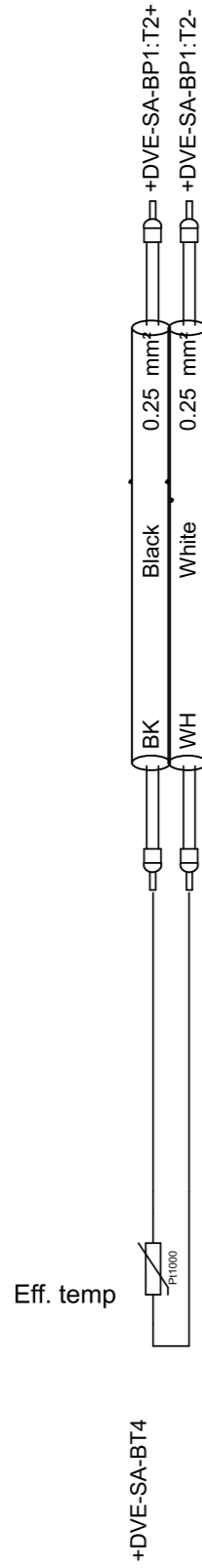
2
2
2
2

Kabel plan

Strømvej
Blad

=A3-W343

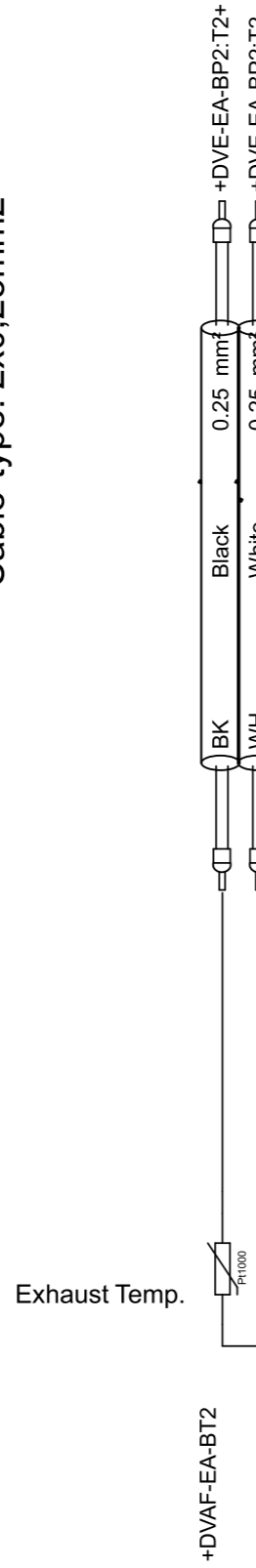
Bemærk: Effektivitet temp.
Cable-type: 2x0,25mm²



+DVE-SA-BT4

=A3-W442

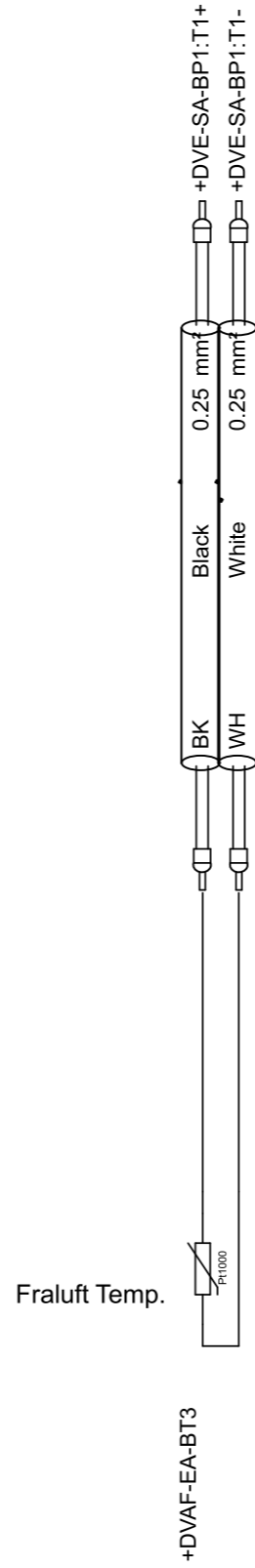
Bemærk: Exhaust Temp./de-ice
Cable-type: 2x0,25mm²



+DVAF-EA-BT2

=A3-W444

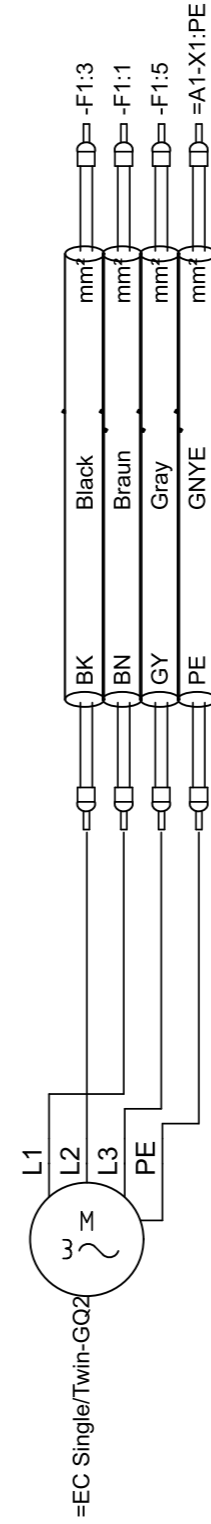
Bemærk: Fraluft Temp.
Cable-type: 2x0,25mm²



+DVAF-EA-BT3

=EC single+Extract air-W102

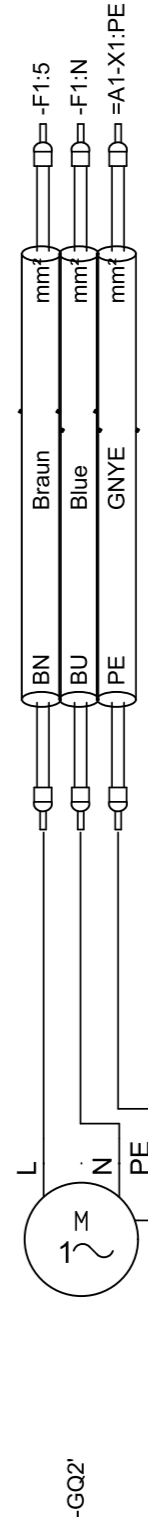
Bemærk: Motor Fraluft
Cable-type:



=EC Single/Twin-GQ2

=EC single+Extract air-W102

Bemærk: Motor Fraluft
Cable-type:



-GQ2'

24	2
24	2

25	2
25	2

24	1
24	1

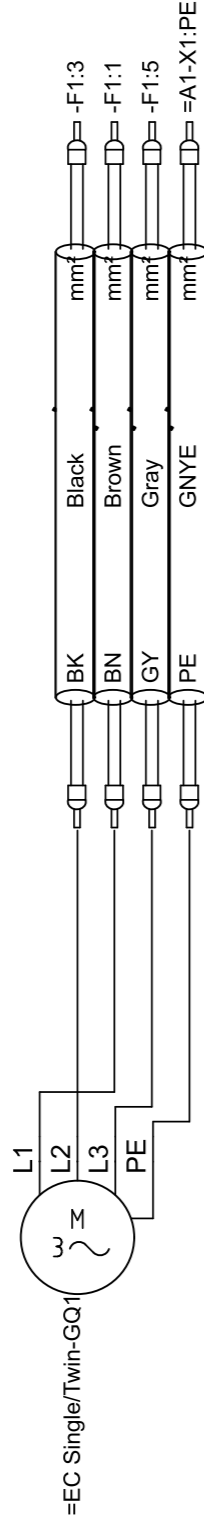
21	2
21	2
21	2
21	3

20	5
20	5
20	6

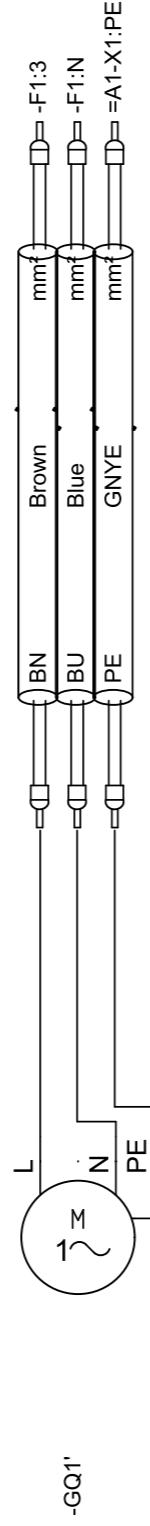
Kabel plan

Strømvej
Blad

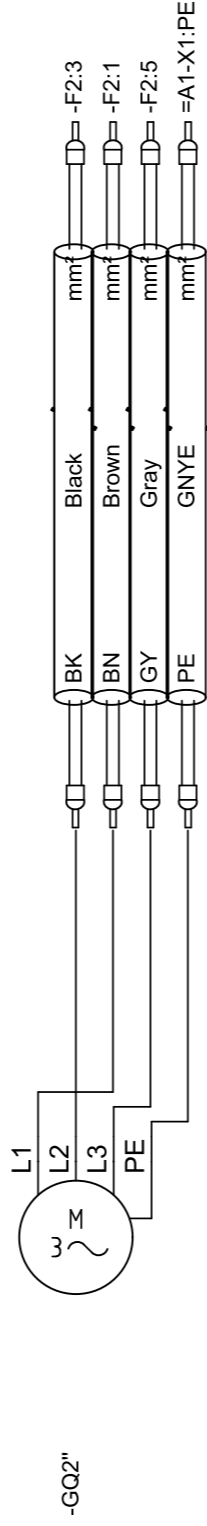
=EC single+Supply air-W101 Bemærk: Motor Tilluft
Cable-type:



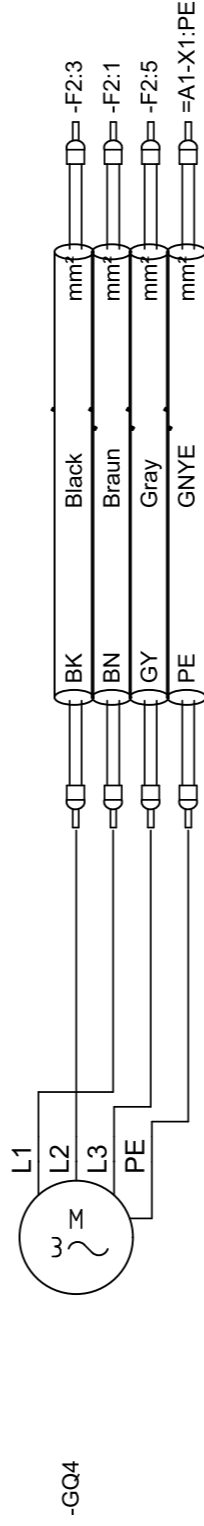
=EC single+Supply air-W101 Bemærk: Motor Tilluft
Cable-type:



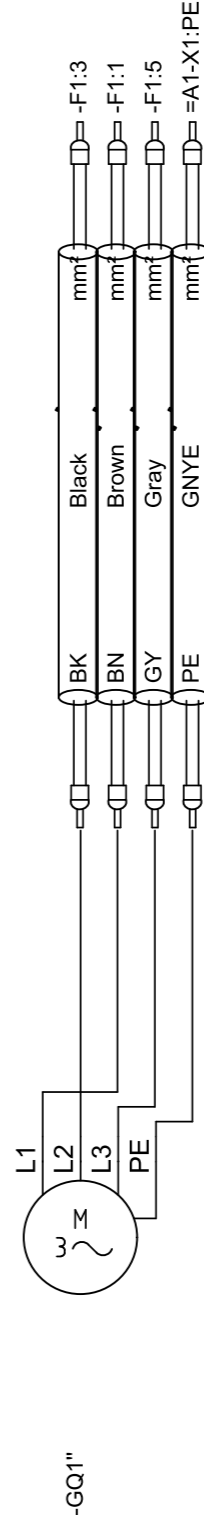
=EC Twin+Extract air-W102 Bemærk: Motor Tilluft
Cable-type:



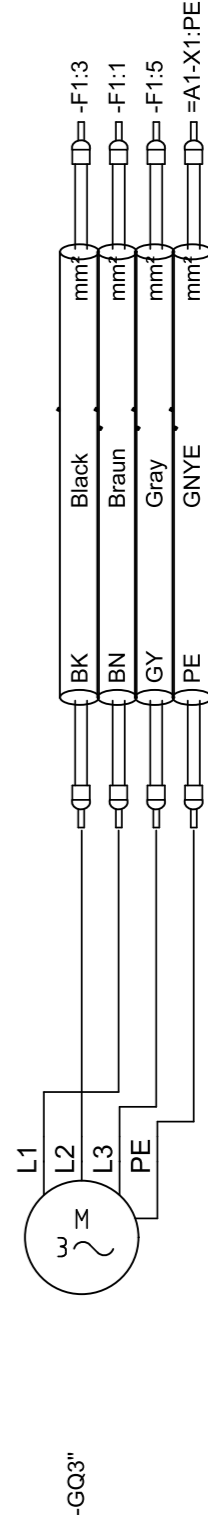
=EC Twin+Extract air-W104 Bemærk: Motor Fraluft
Cable-type:



=EC Twin+Supply air-W101 Bemærk: Motor Tilluft
Cable-type:



=EC Twin+Supply air-W103 Bemærk: Motor Tilluft
Cable-type:



1
1
1
1

21
21
21
21

2
2
3

20
20
20

7
7
7
7

21
21
21
21

8
8
9
9

21
21
21
21

4
4
4
4

21
21
21
21

5
5
6
6

21
21
21
21