

# Geniox Core Control system 42.04.02 (Pre-heat)

Dokumente sind auf den folgenden Seiten aufgelistet:

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Geräte mit internem Schaltschrank:

Der Schaltschrank befindet sich immer innenliegend im Gerät.

AHU Gerätedaten.

Värmetauscher typ:

Siehe Daten im beigefügten Anhang - Technische Daten

Erhitzer typ:

Siehe Daten im beigefügten Anhang - Technische Daten

Kühler typ:

Siehe Daten im beigefügten Anhang - Technische Daten

Wärmepumpe typ:

Siehe Daten im beigefügten Anhang - Technische Daten

Elektro data:

Gesamtleistungsaufnahme:

Siehe

Ventilator Sicherung gr.:

schriftliche Bestellung

Zuluftventilator Leitungswiderstand:

Siehe schriftliche Bestellung

Abluftventilator Leitungswiderstand:

Siehe schriftliche Bestellung

Max. Vorsicherung:

Siehe schriftliche Bestellung

Ik max. an der Sicherung im Gerät:

Siehe schriftliche Bestellung

6 kA

Hersteller:

Systemair A/S, Dänemark  
Ved Milepælen 7  
8362 Hasselager



Geniox  
Access CU27 Regler

Vorderseite

Projekt:

Geniox-Core CS 42.04.02 Pre-heat DE

Rev.:

42.04.02

Blatt:

1

Datum:

07-08-2020

Initialien:

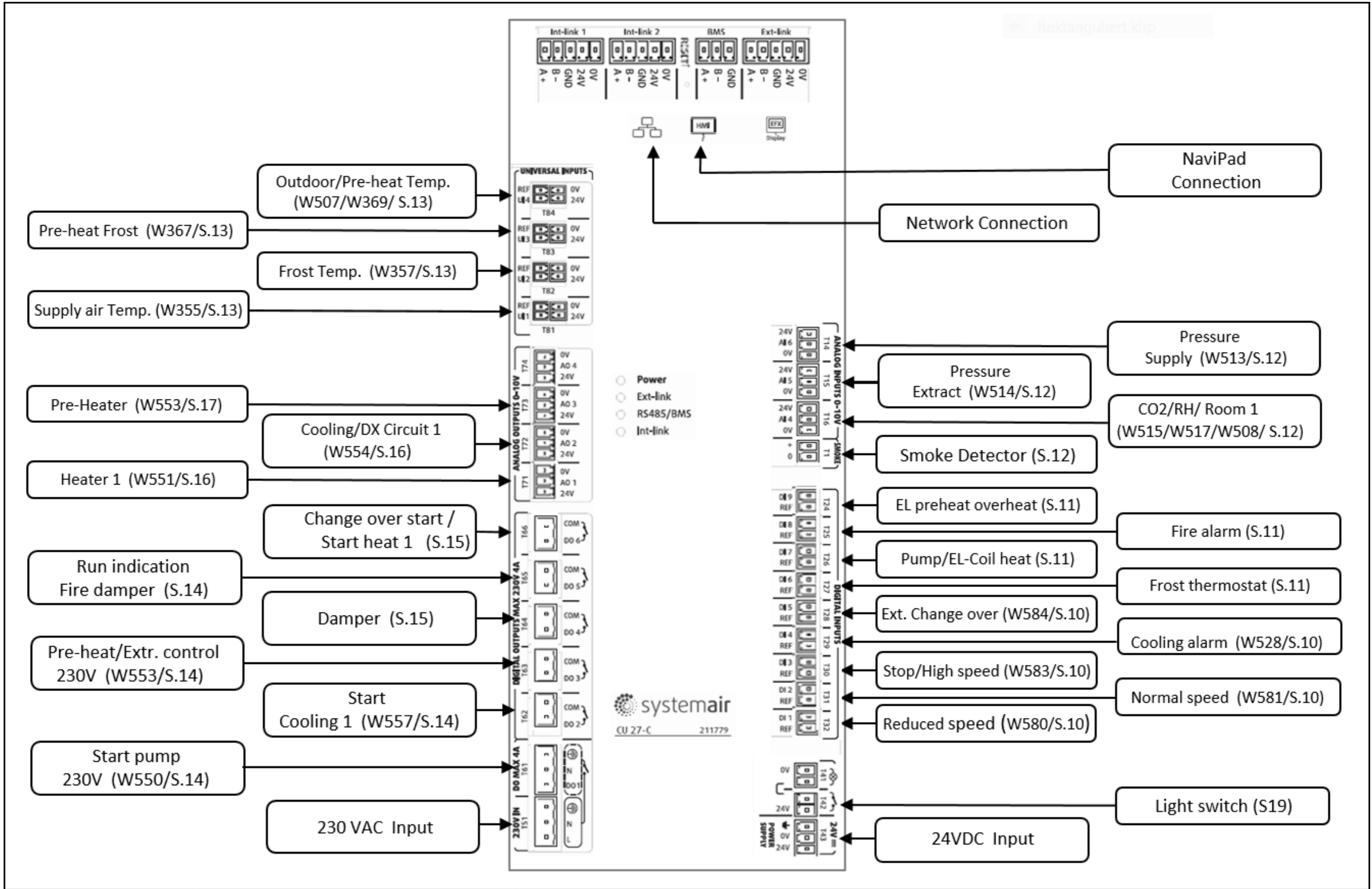
MIKE

Gesamt Unterlagen

4

Nächstes Blatt

2



# Symbole gemäß IEC 60617


Auf den folgenden beiden Seiten finden Sie Beschreibungen zu den verwendeten Symbolen zu diesem Projekt


## Farbkennzeichnung der Kabel

- Schwarz - sw
- Braun - br
- Rot - rt
- Orange - OG
- Gelb - ge
- Grün - gn
- Blau - bl
- Violett - vi
- Grau - gr
- Weiß - we
- Rosa - rs
- Transparent - tp
- Grün/Gelb - PE

L1:1 > Referenzen

-X2:1  Klemme

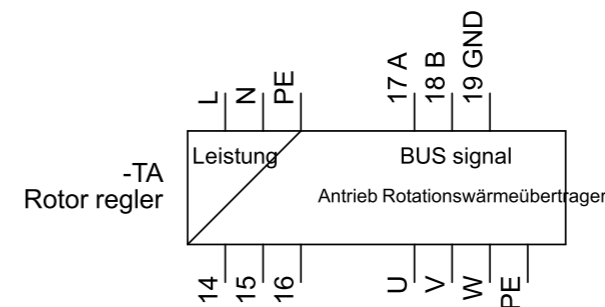
-EA  Leuchte

-SF  Stufenschalter

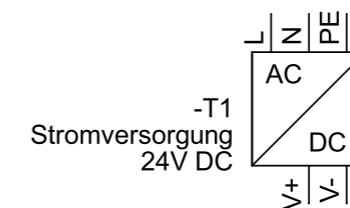
-BP  Drucktransmitter

-BP  Pressostat

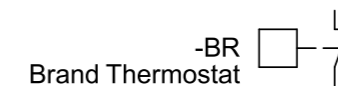
-F  Sicherungsautomat



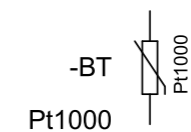
Rotationswärmetauscher



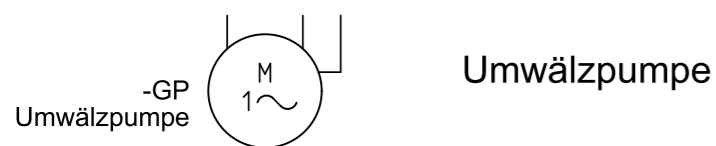
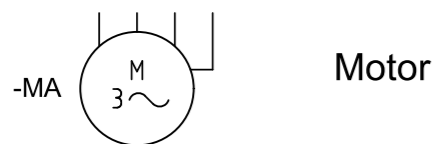
Stromversorgung



Feuermelder

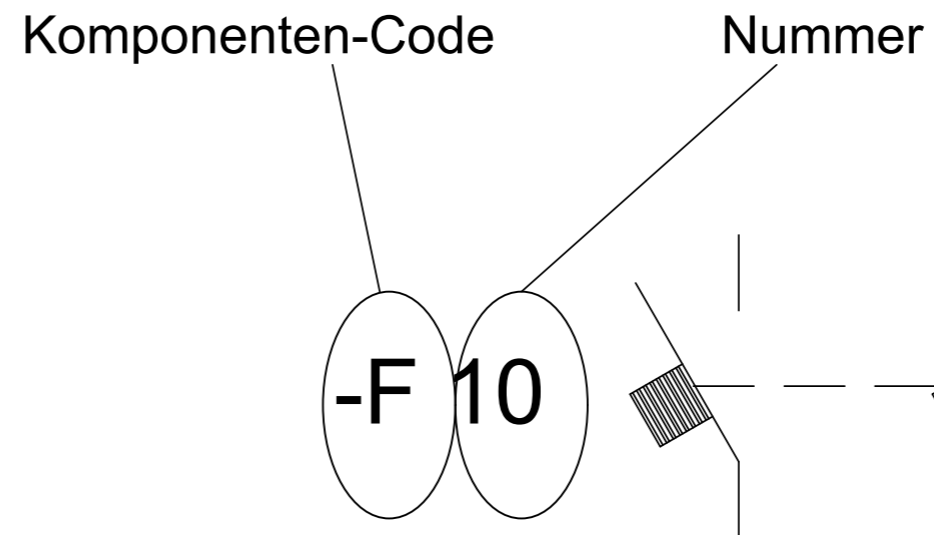
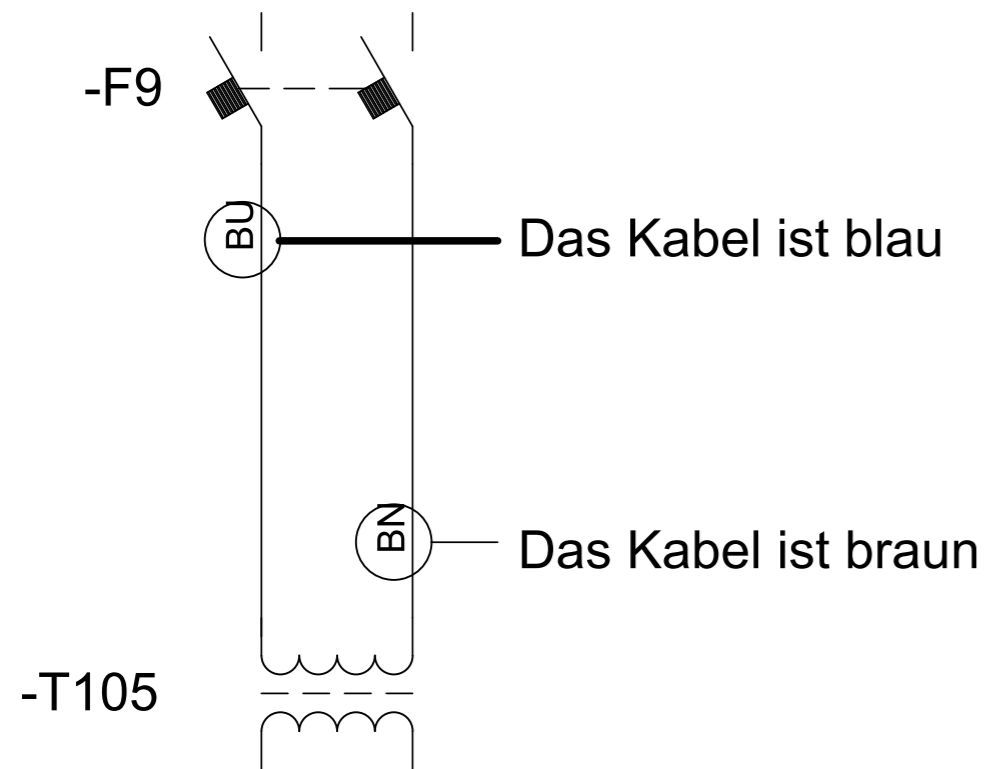


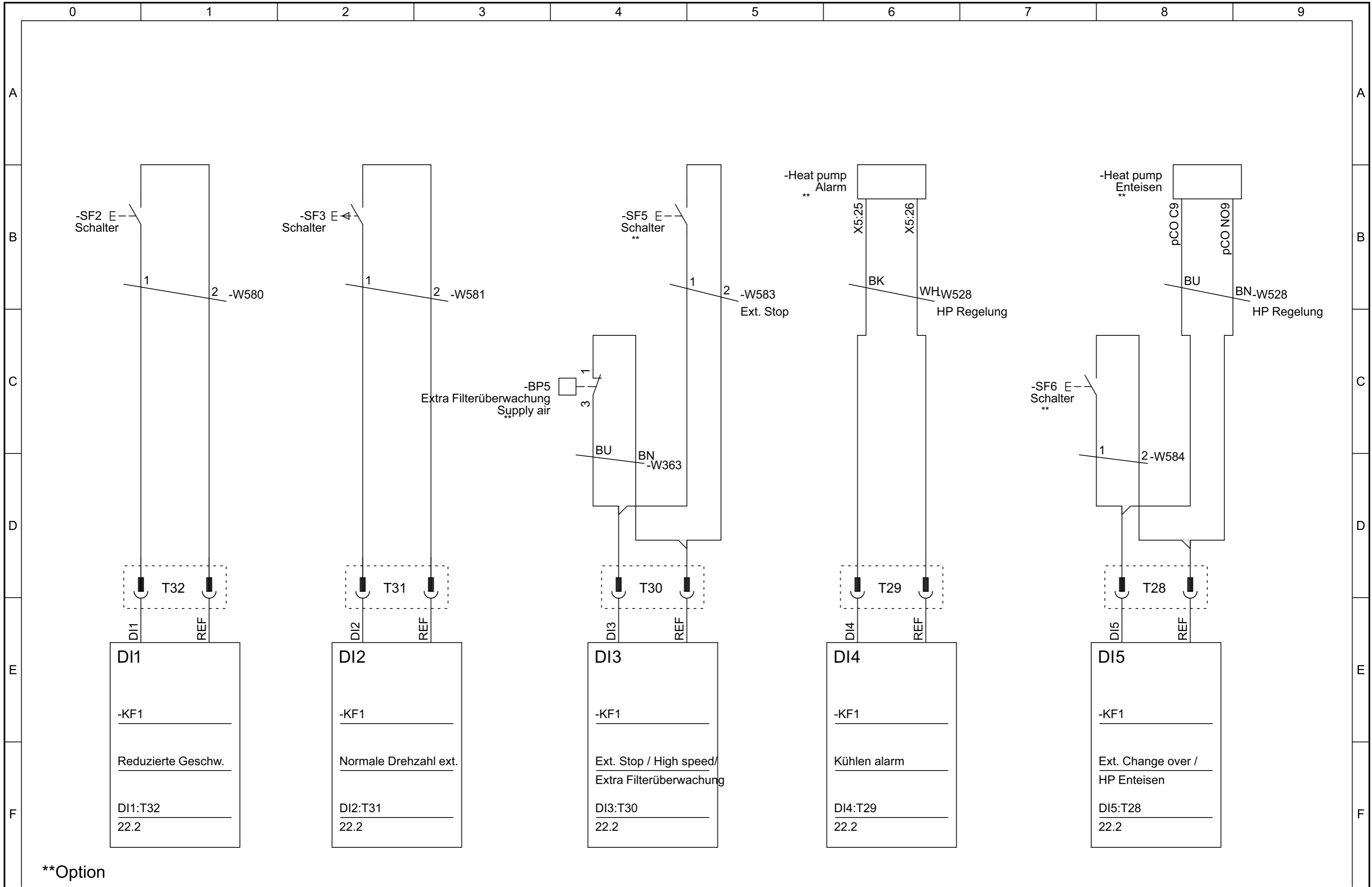
Temperatur (gemessen)



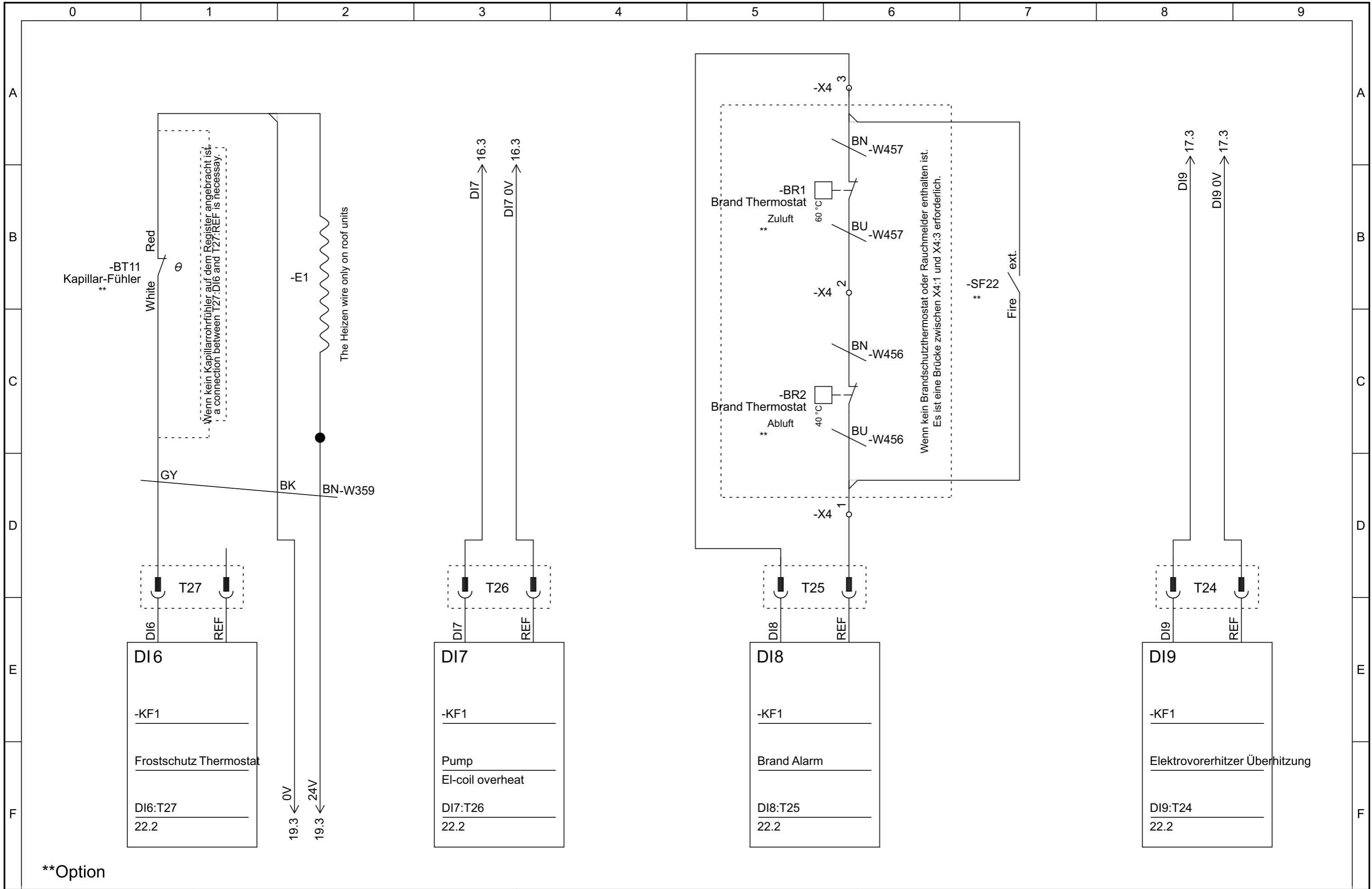
Labeling of wires are marked with Klemme name

Die Komponenten sind mit Komponenten-Coden markiert gefolgt von einer Nummer nach IEC 61346-1 Tabelle 1

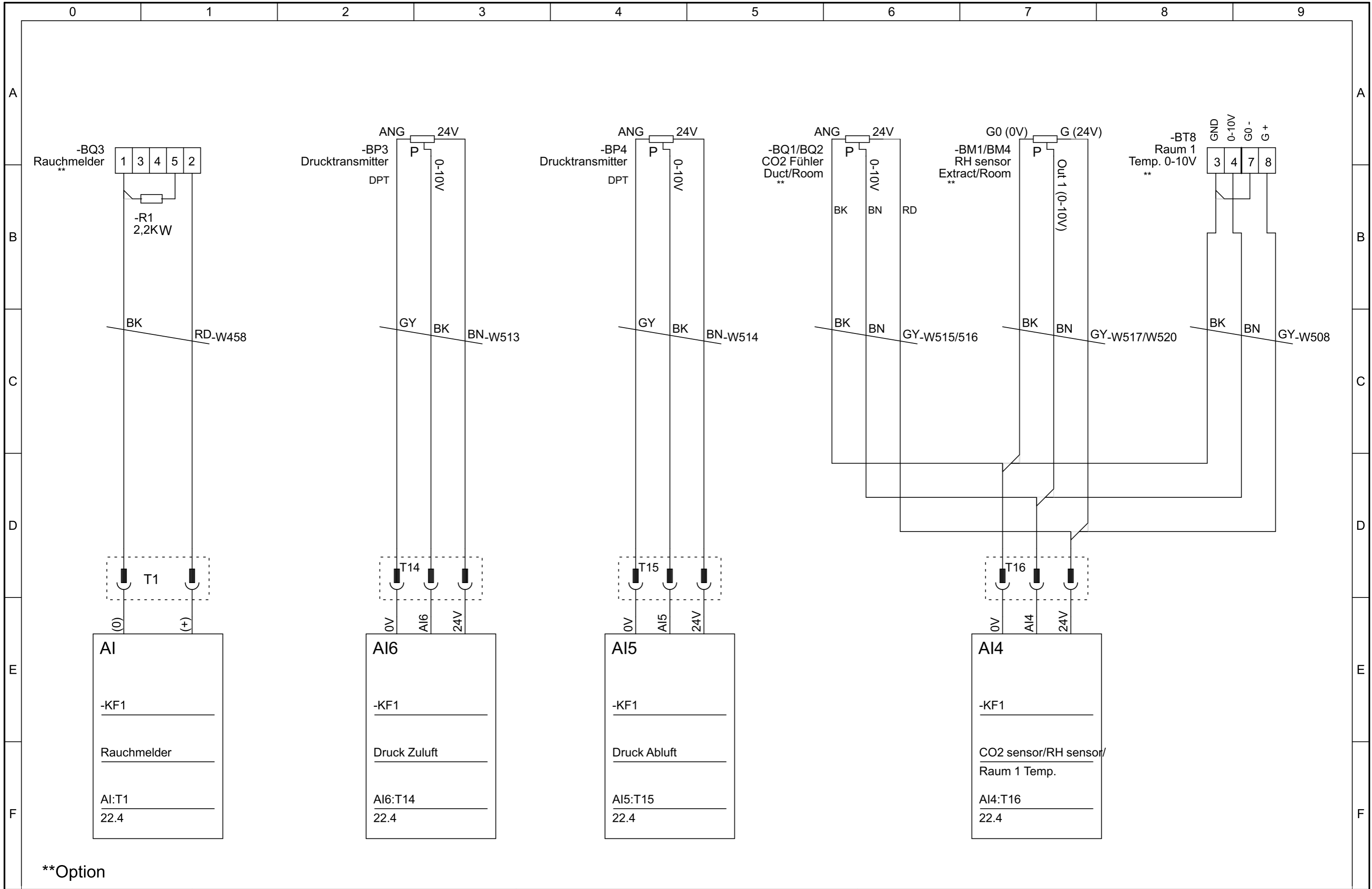




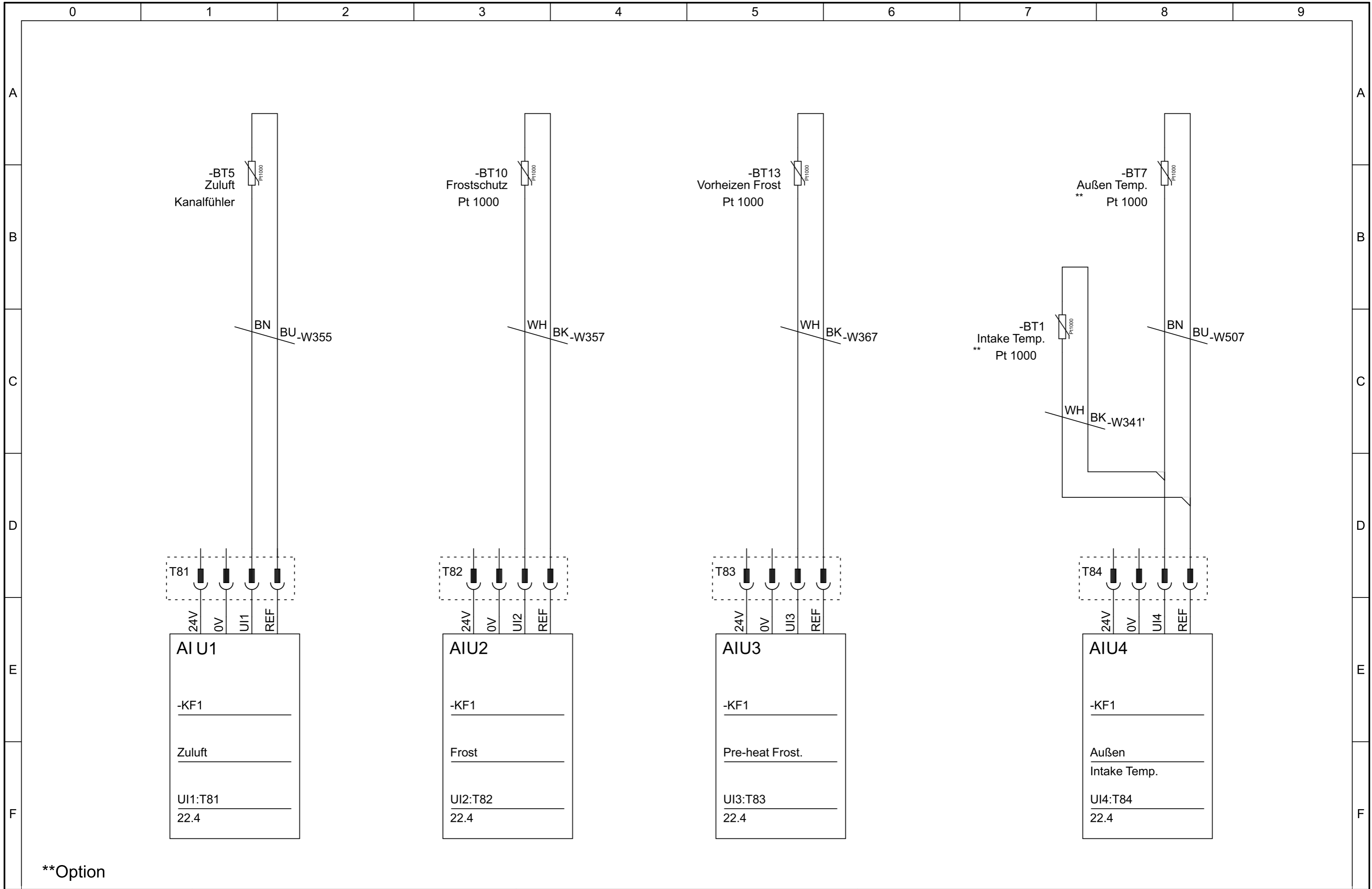
\*\*Option



\*\*Option

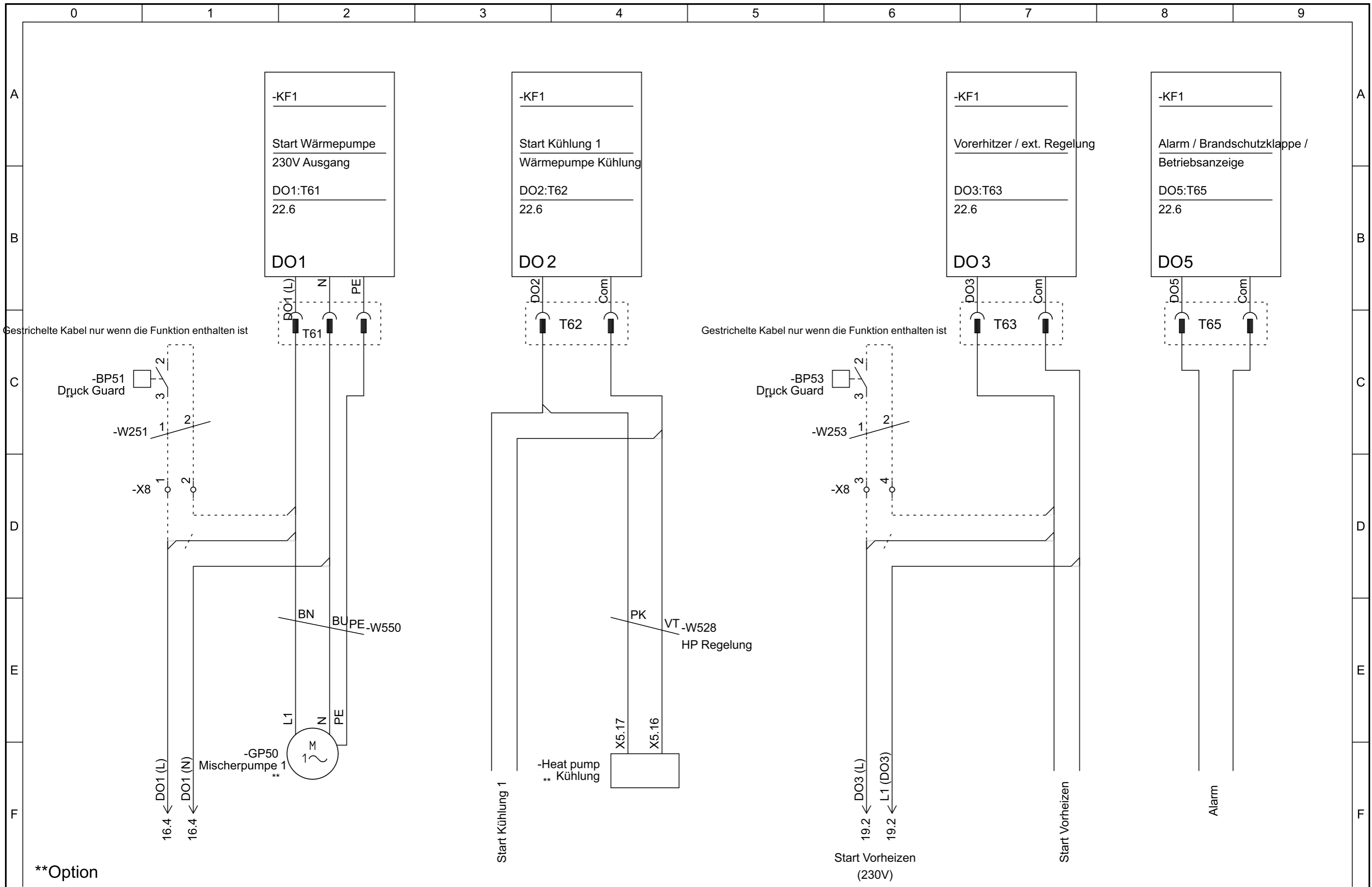


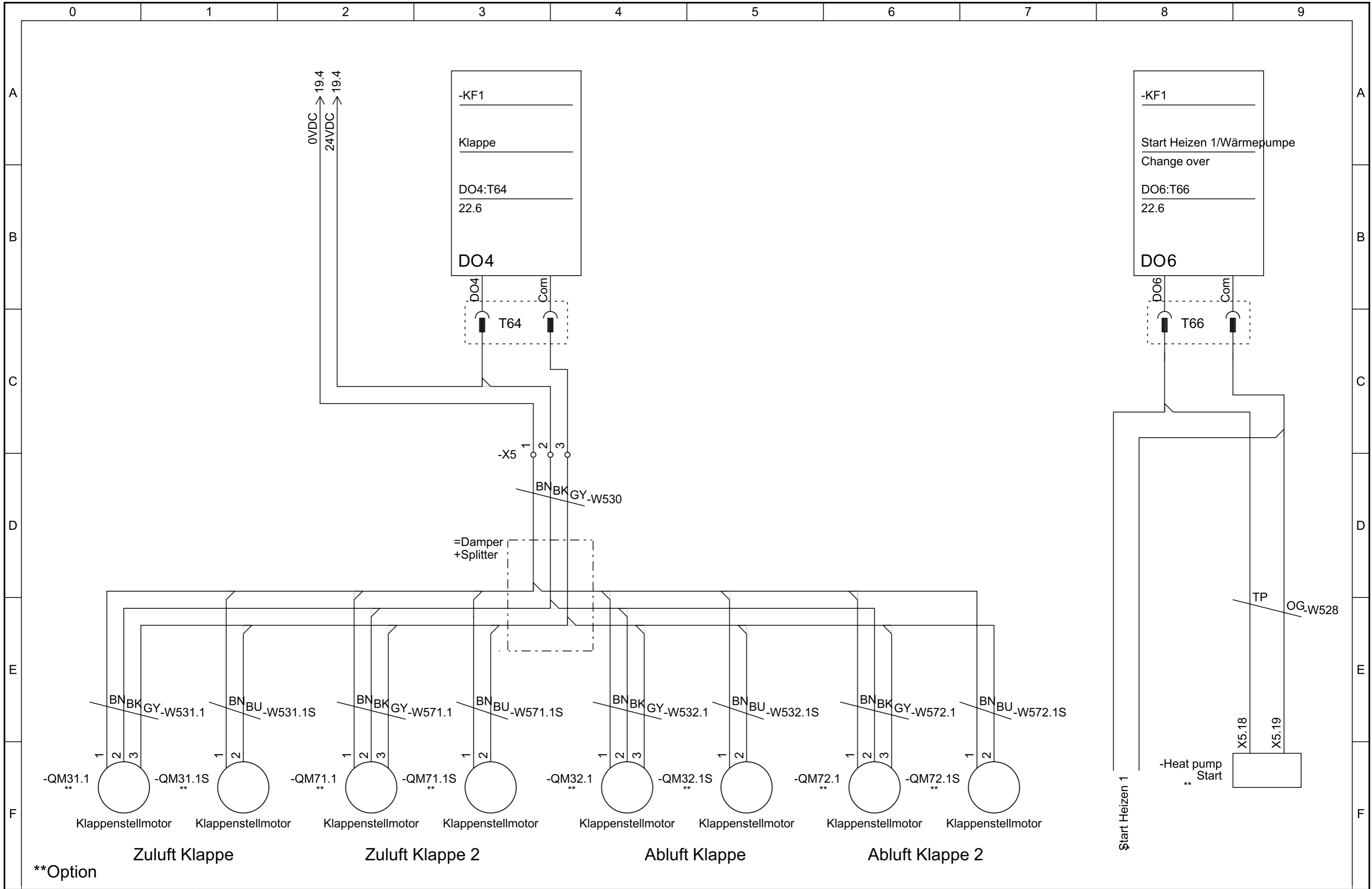
\*\*Option

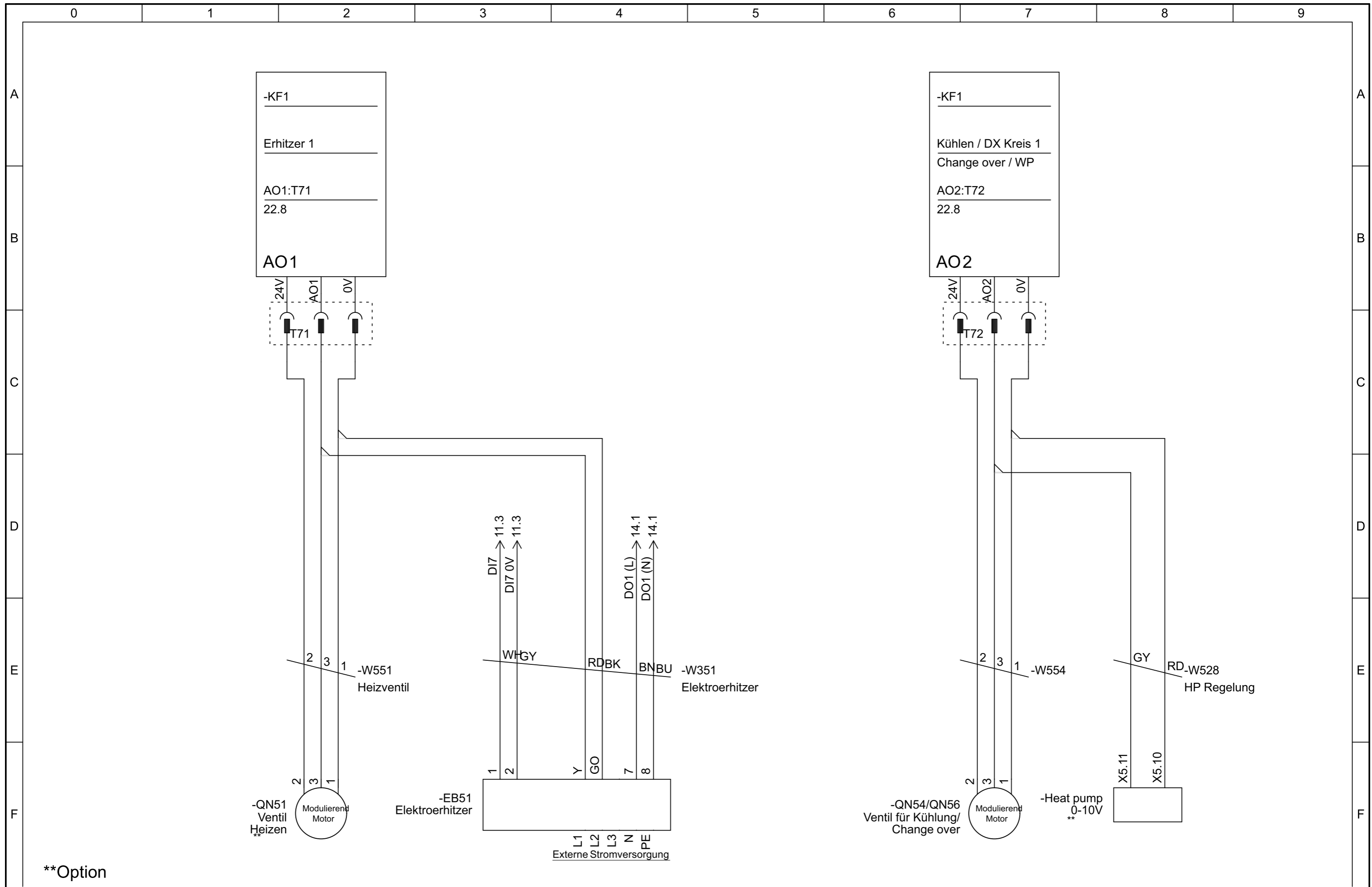


\*\*Option

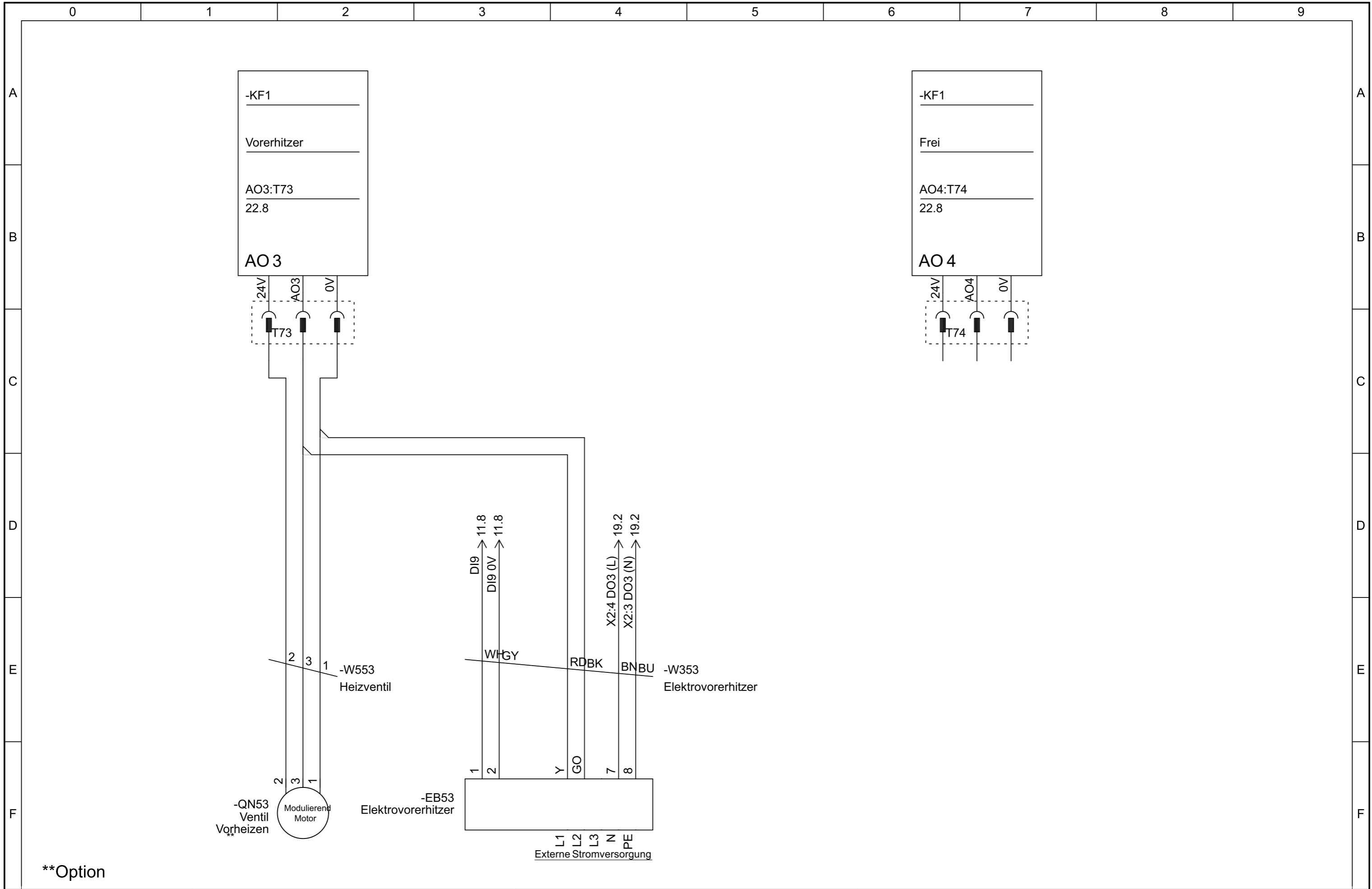




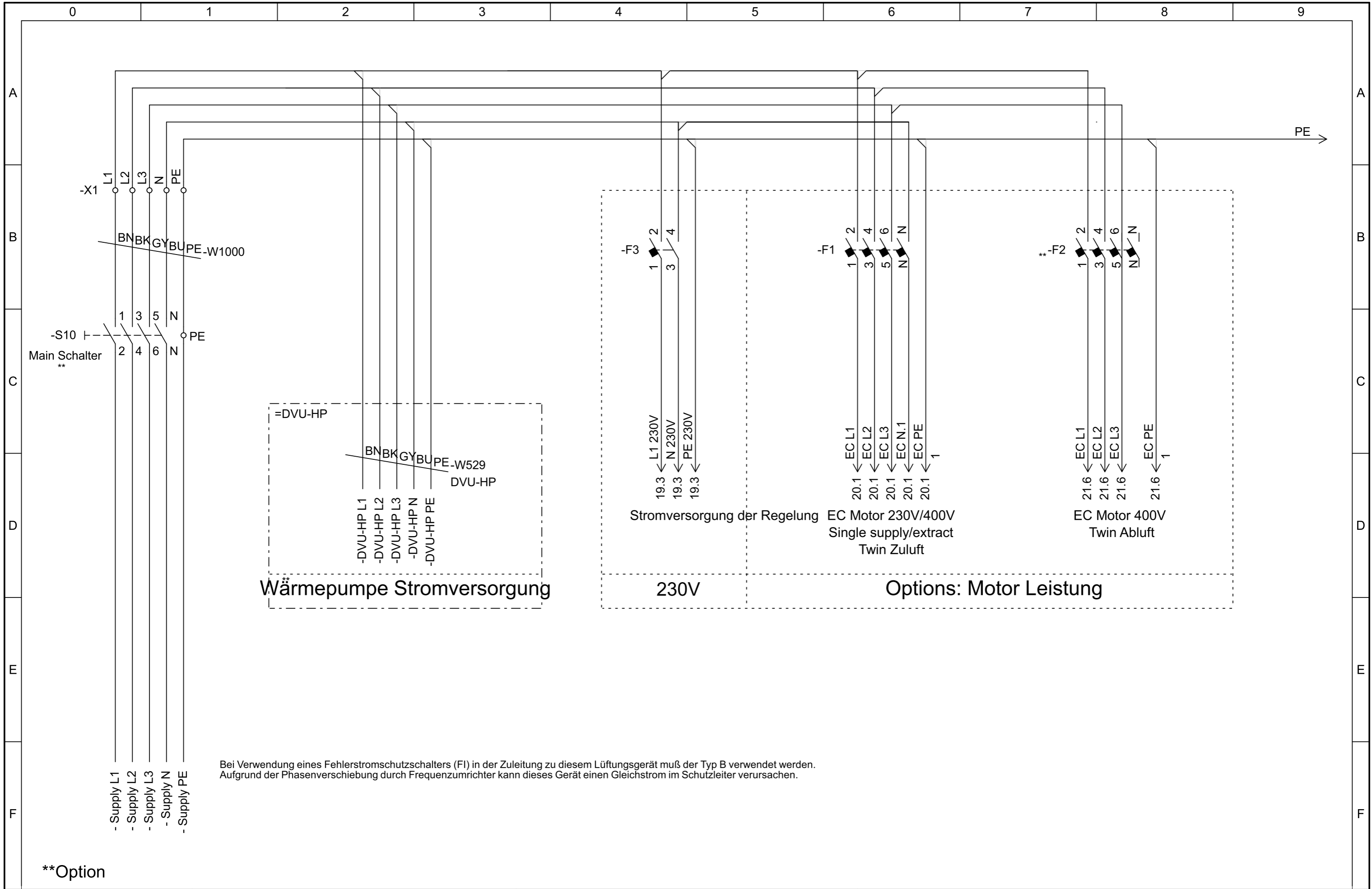




\*\*Option

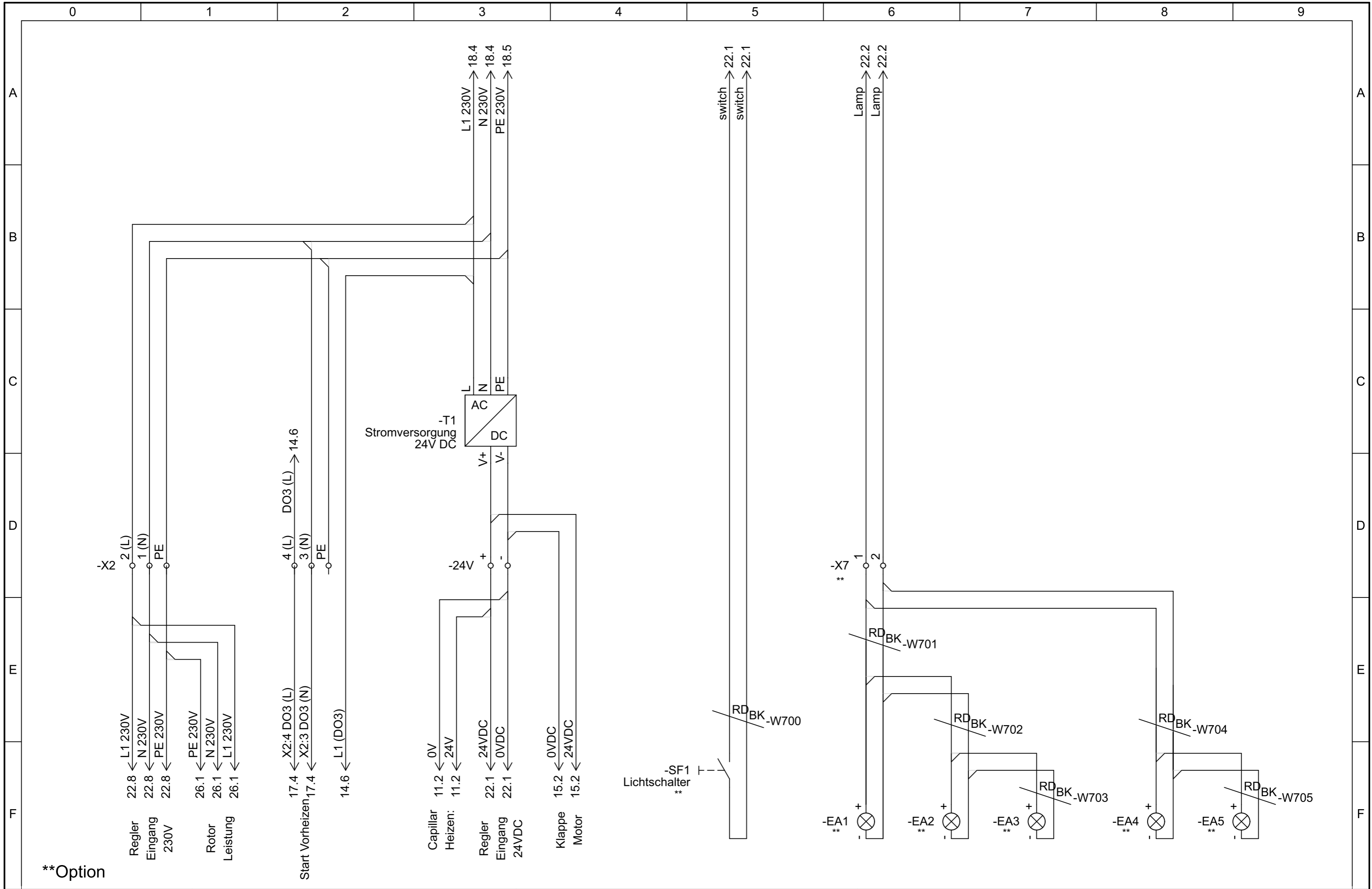


\*\*Option

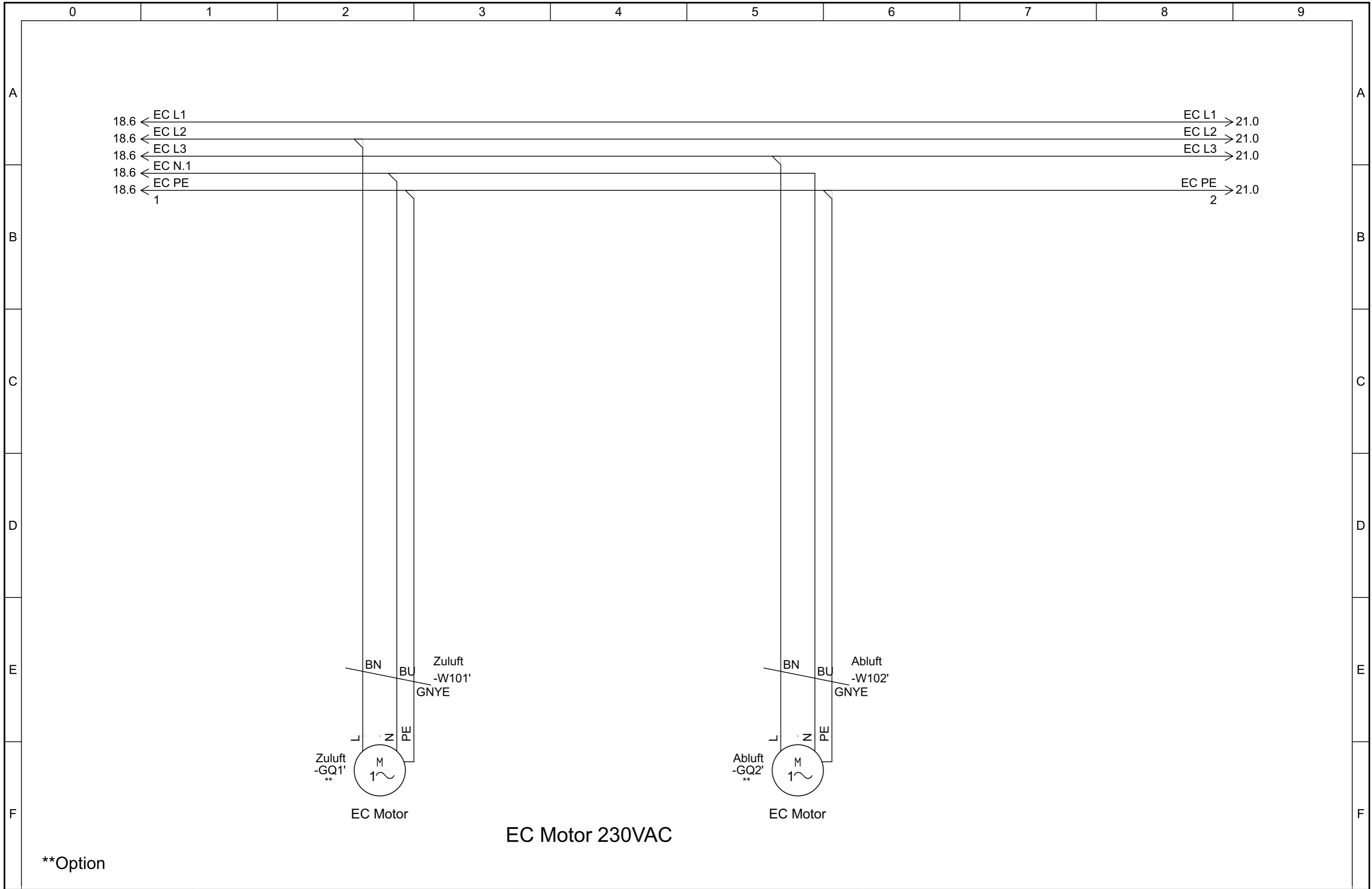


Bei Verwendung eines Fehlerstromschutzschalters (FI) in der Zuleitung zu diesem Lüftungsgerät muß der Typ B verwendet werden. Aufgrund der Phasenverschiebung durch Frequenzumrichter kann dieses Gerät einen Gleichstrom im Schutzleiter verursachen.

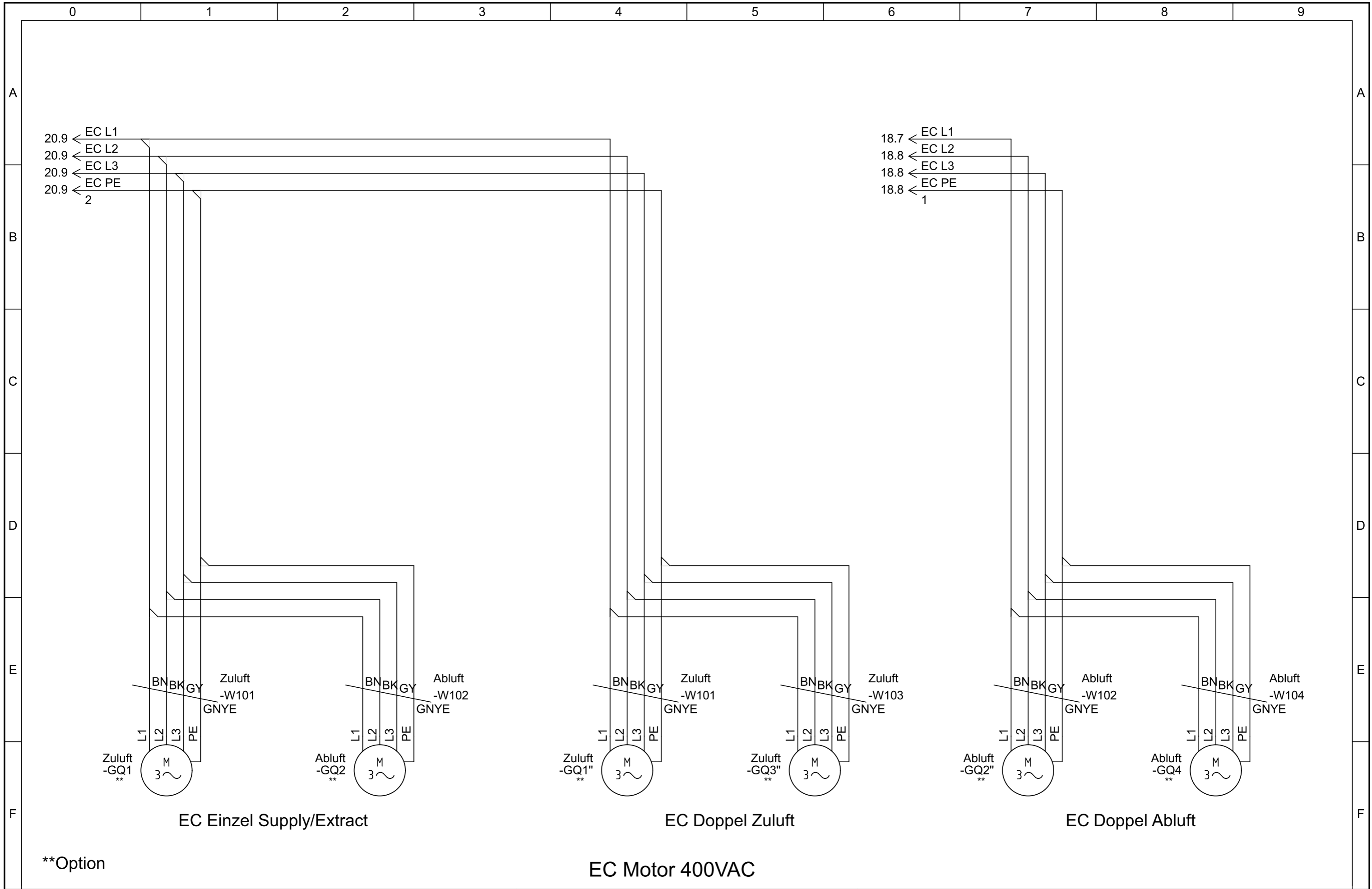
\*\*Option



\*\*Option



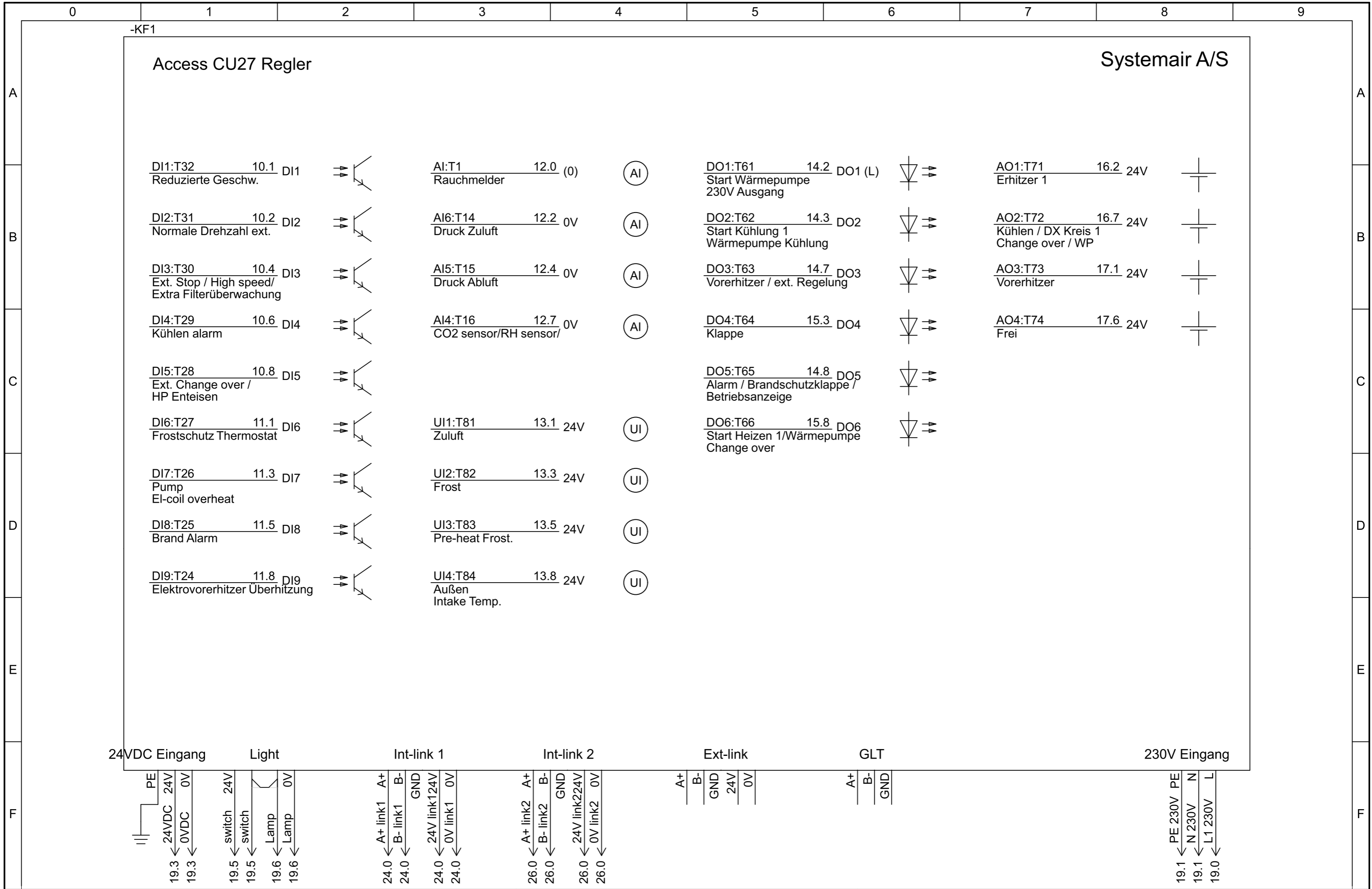
\*\*Option



\*\*Option

EC Motor 400VAC





Geniox  
Access CU27 Regler

Access CU27 Regler

Projekt: Geniox-Core CS 42.04.02 Pre-heat DE

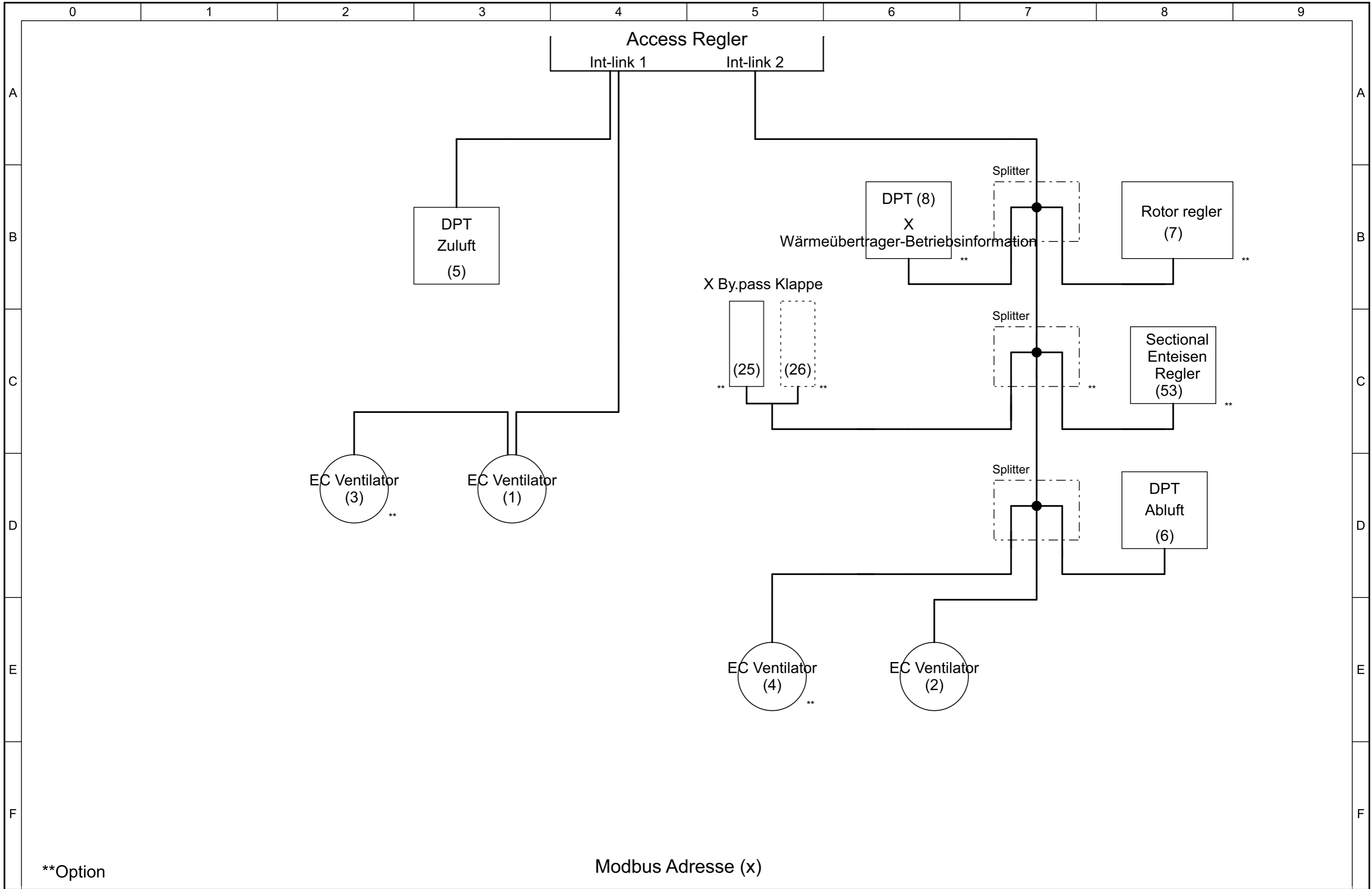
Rev.: 42.04.02

Blatt: 22

Datum: 06-11-2019

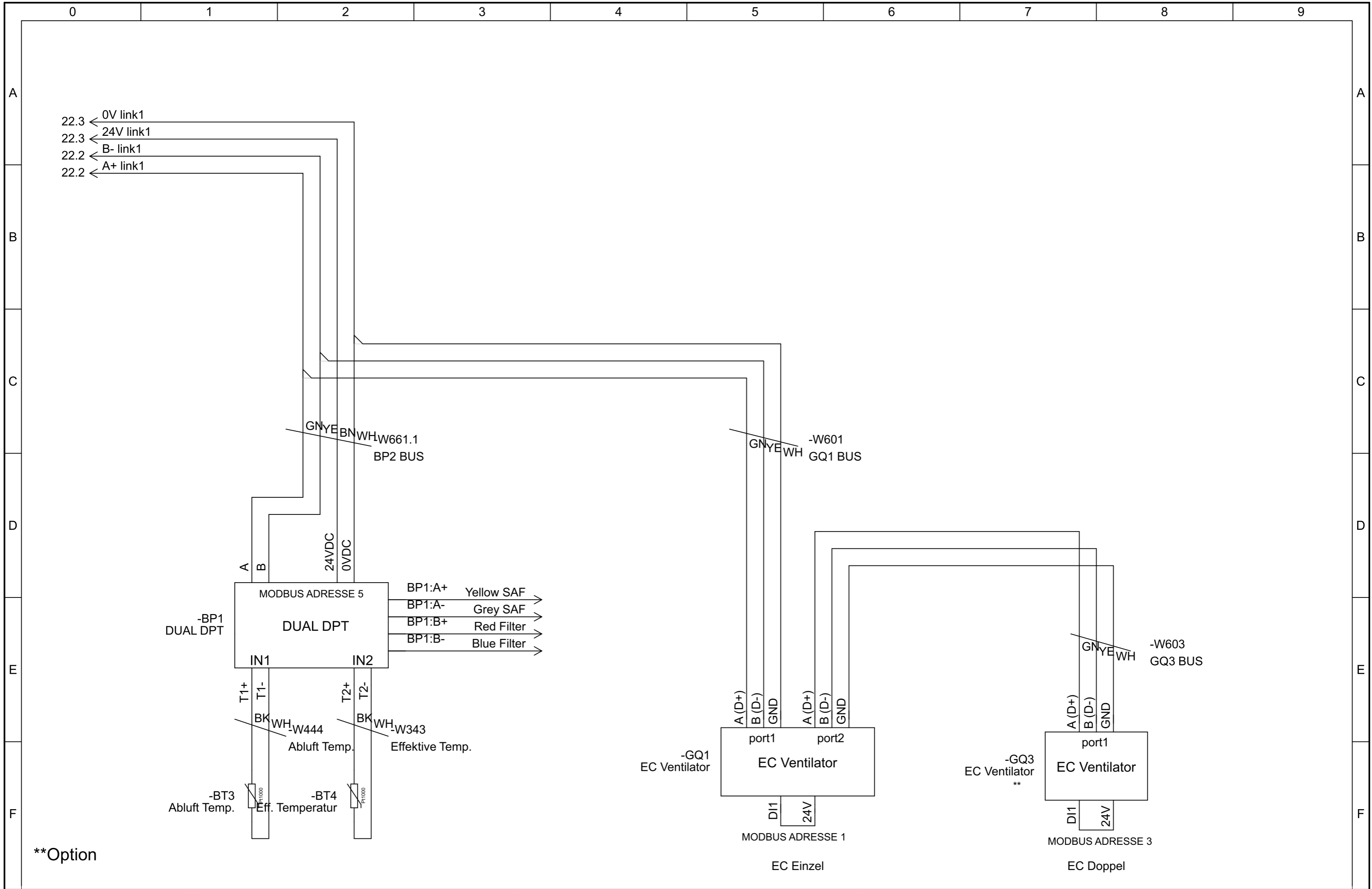
Initialien: MIKE

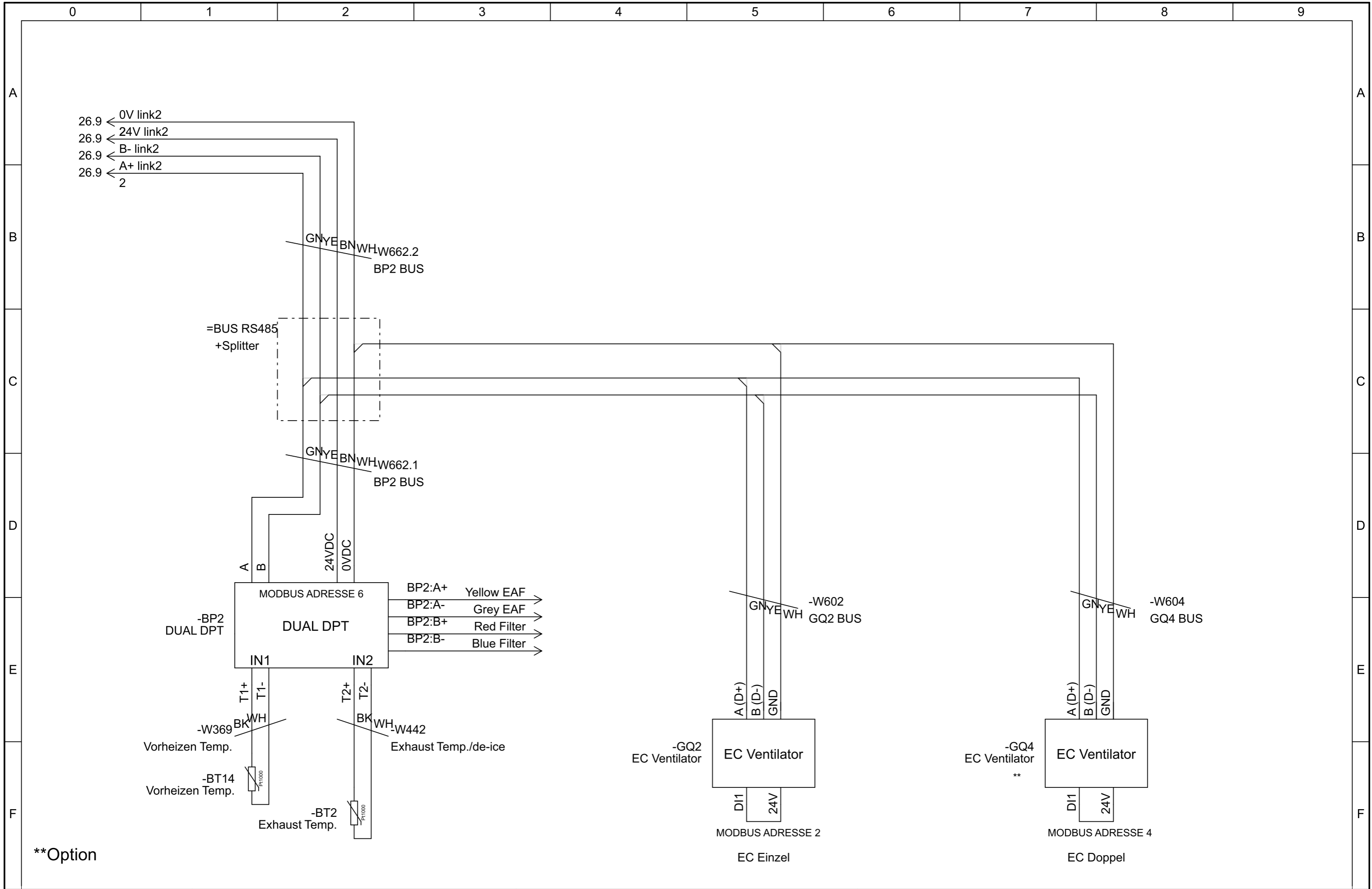
Gesamt Unterlage: 19  
Nächstes Blatt: 23



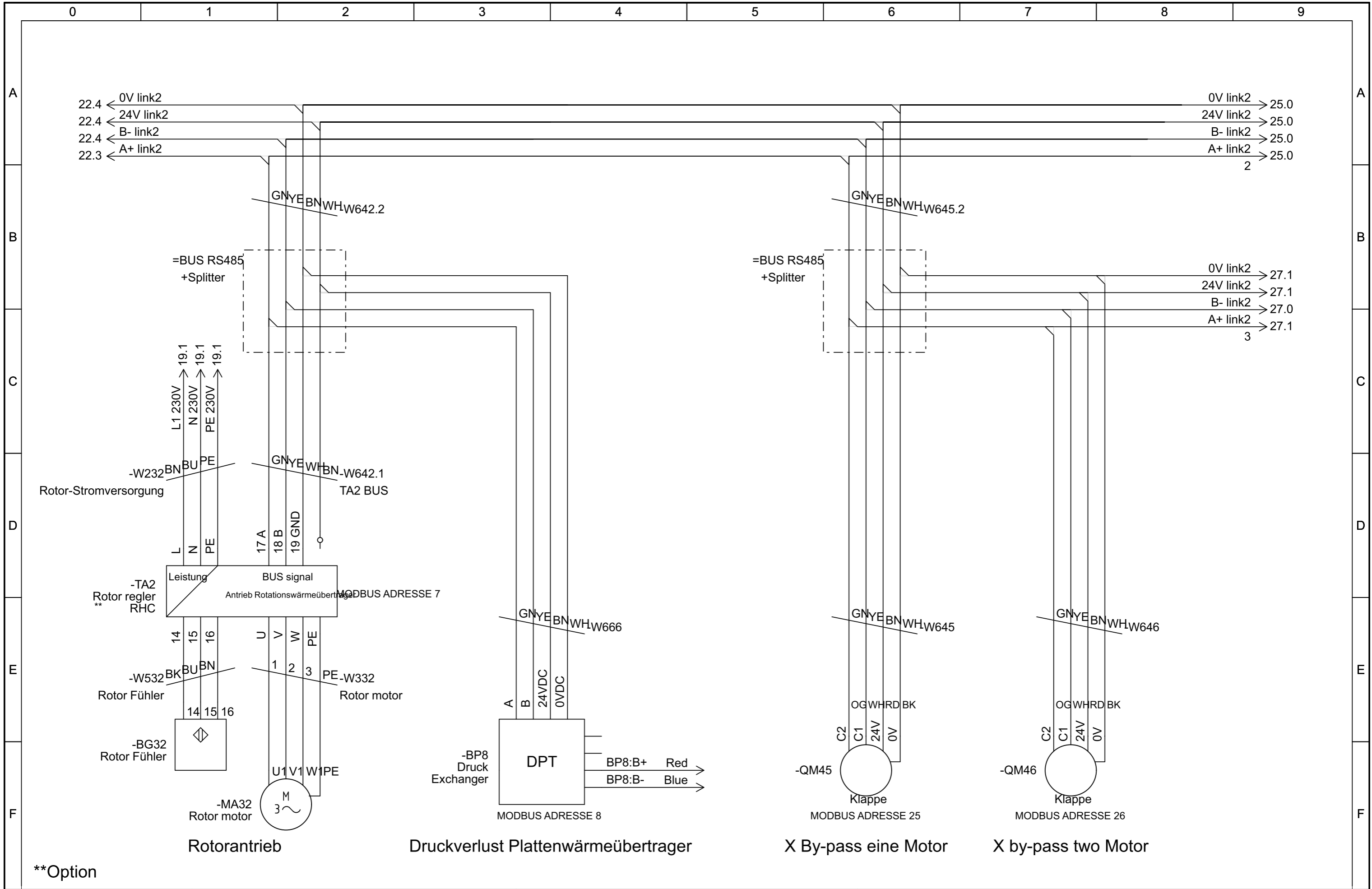
\*\*Option

Modbus Adresse (x)

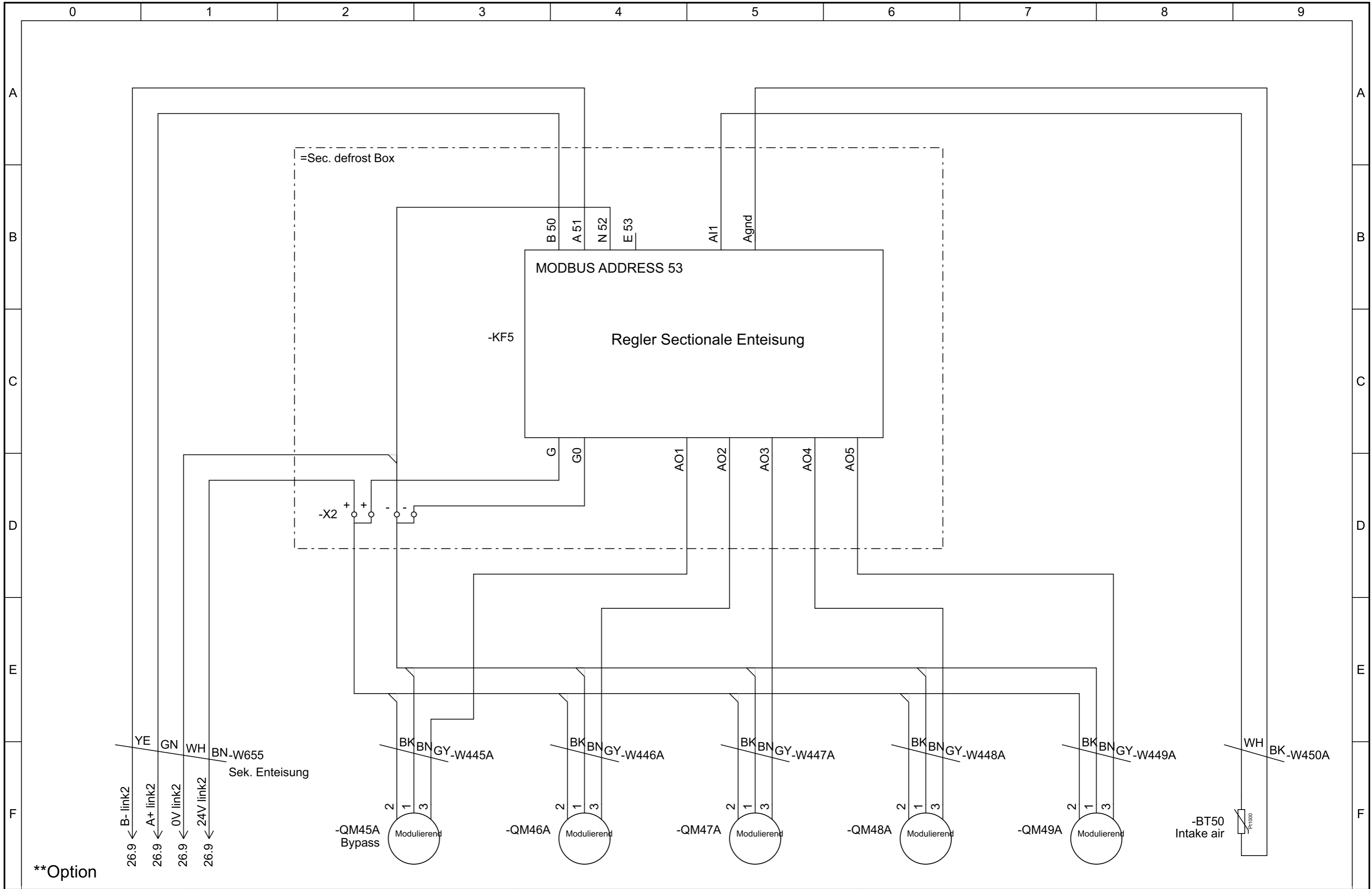




\*\*Option



\*\*Option



\*\*Option

	Geniox Access CU27 Regler	Sektionale Enteisung	Projekt: Geniox-Core CS 42.04.02 Pre-heat DE	Rev.: 42.04.02	Blatt: 27
			Datum: 06-11-2019	Initialien: MIKE	Gesamt Unterlagen: 19 Nächstes Blatt: 30

### 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.

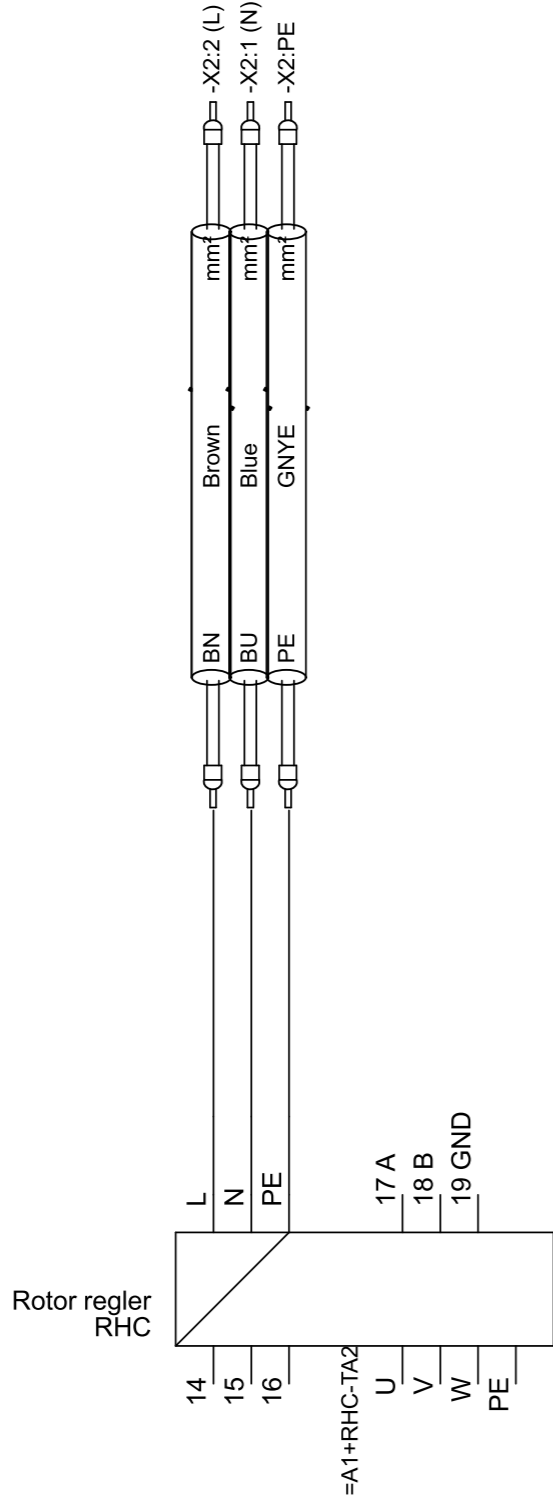


# Anschlussplan

Pfad  
Blatt

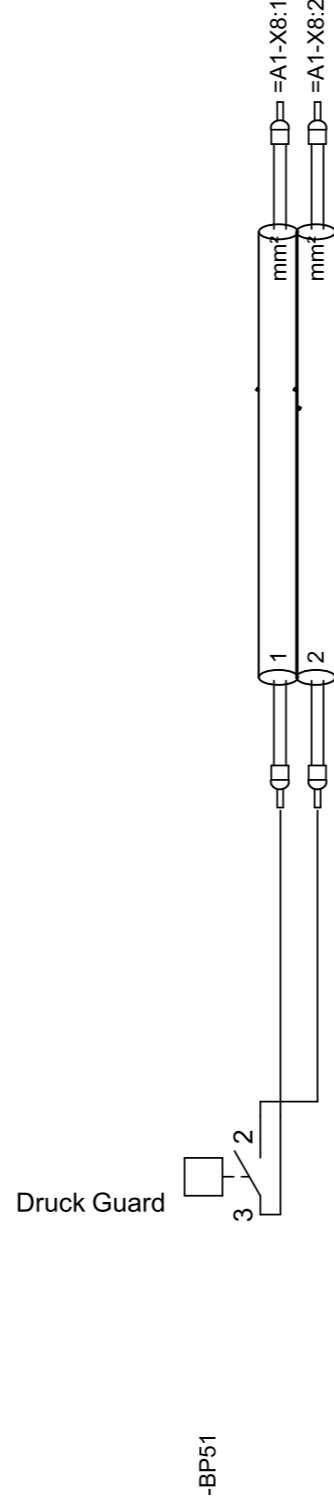
Anmerkung: Rotor-Stromversorgung  
Cable-type:

**-W232**



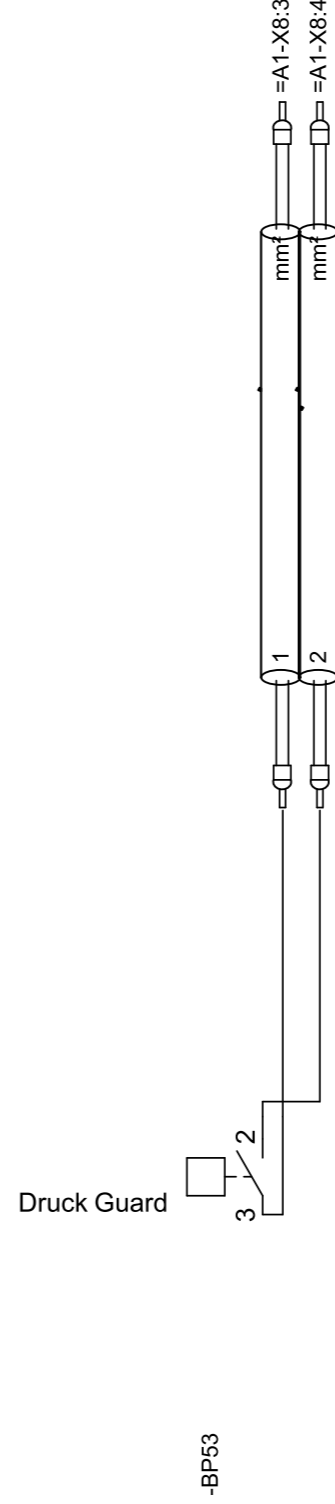
**-W251**

Anmerkung:  
Cable-type:



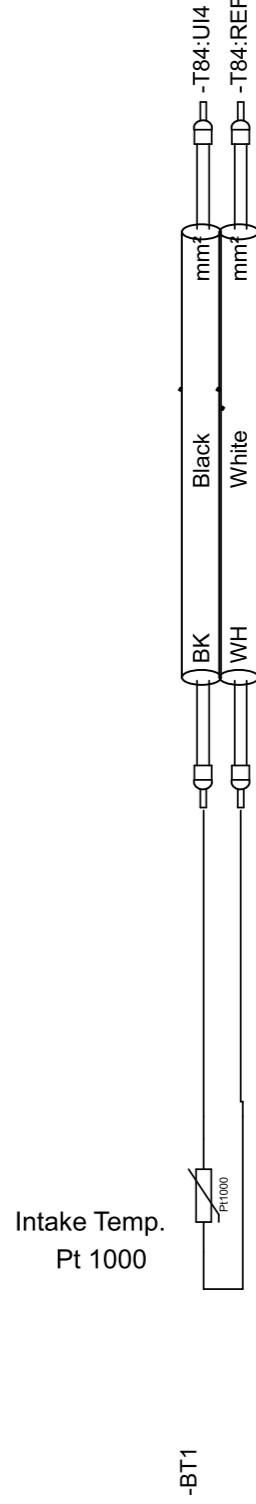
**-W253**

Anmerkung:  
Cable-type:



**-W341'**

Anmerkung: Intake Temp.  
Cable-type:



Blatt	26	26	26
Pfad	1	1	1

Blatt	14	14
Pfad	1	1

Blatt	14	14
Pfad	6	6

Blatt	13	13
Pfad	7	7



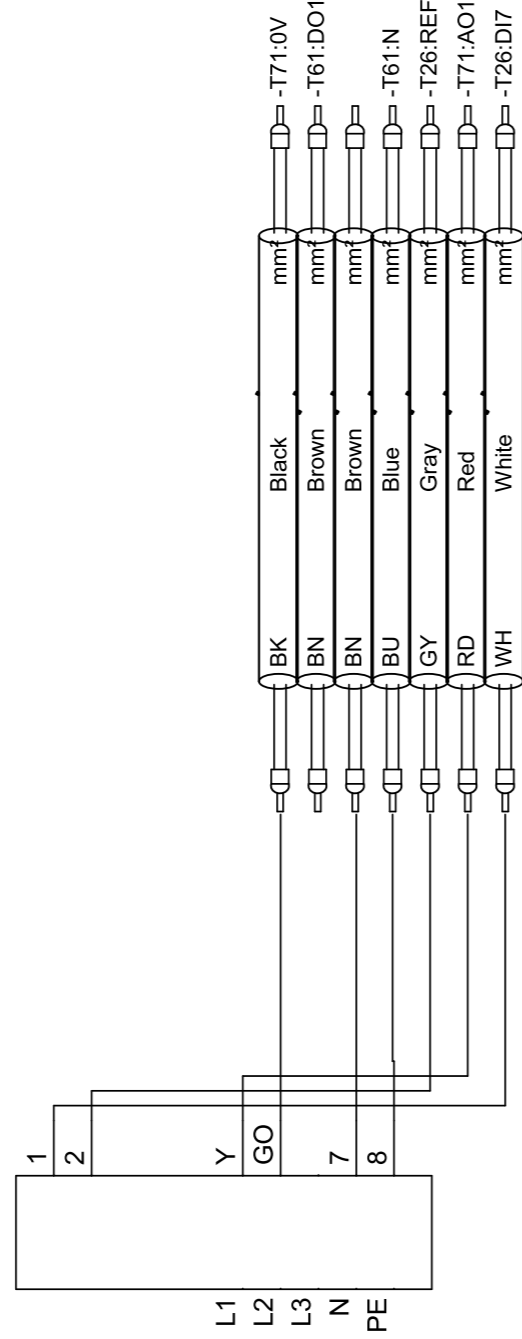
# Anschlussplan

Pfad  
Blatt

Anmerkung: Elektroerhitzer  
Cable-type:

**-W351**

Elektroerhitzer



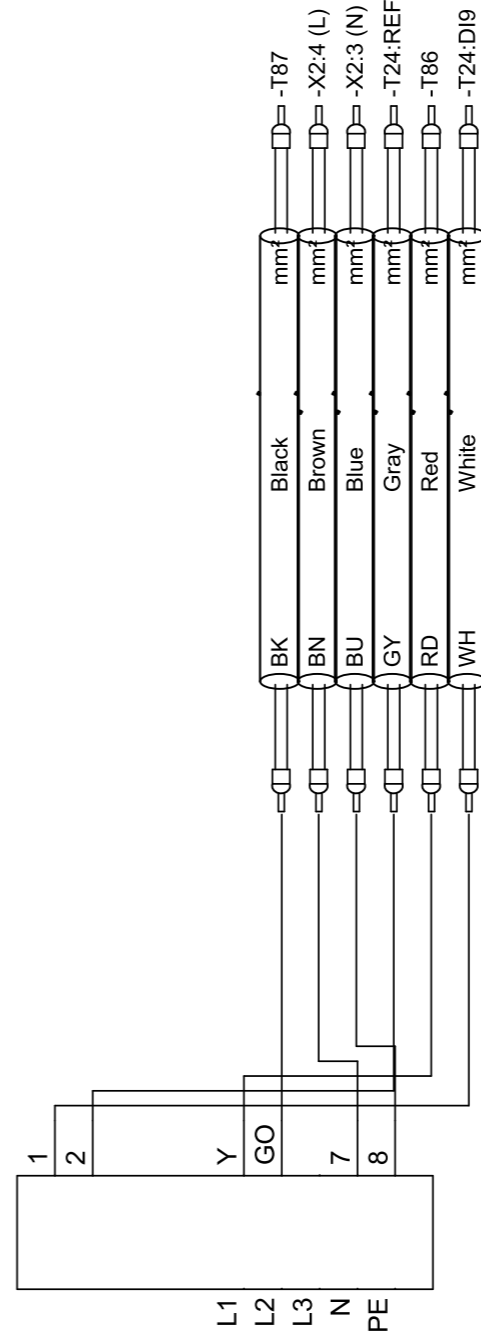
-EB51

16  
16  
16  
16  
16  
16  
16

**-W353**

Anmerkung: Elektroerhitzer  
Cable-type:

Elektroerhitzer



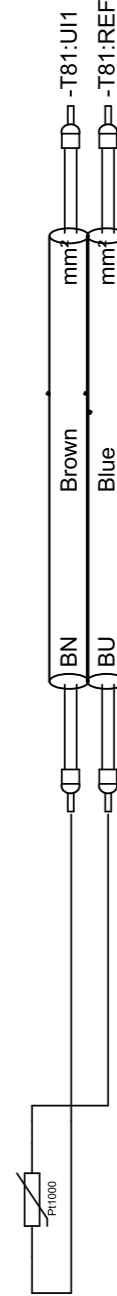
-EB53

17  
17  
17  
17  
17  
17

**-W355**

Anmerkung: Temperaturfühler Zuluft  
Cable-type:

Zuluft  
Kanalfühler



-BT5

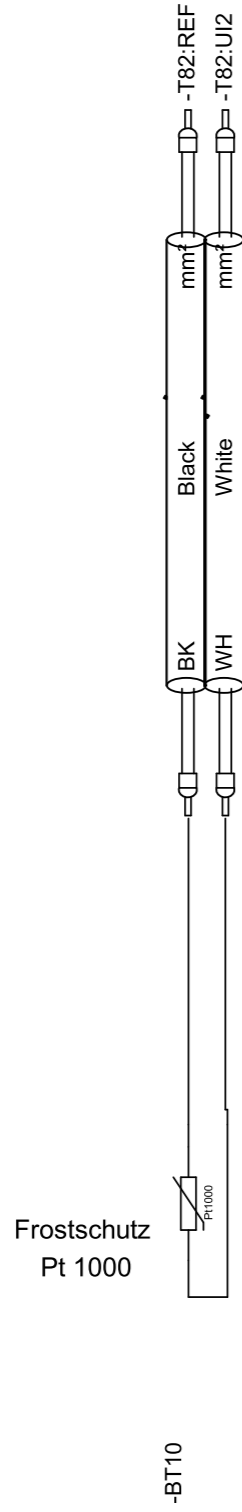
13  
13

# Anschlussplan

Pfad	Blatt
4	13
3	13
2	11
2	11
1	11
4	10
4	10
6	13
5	13
1	25
1	25

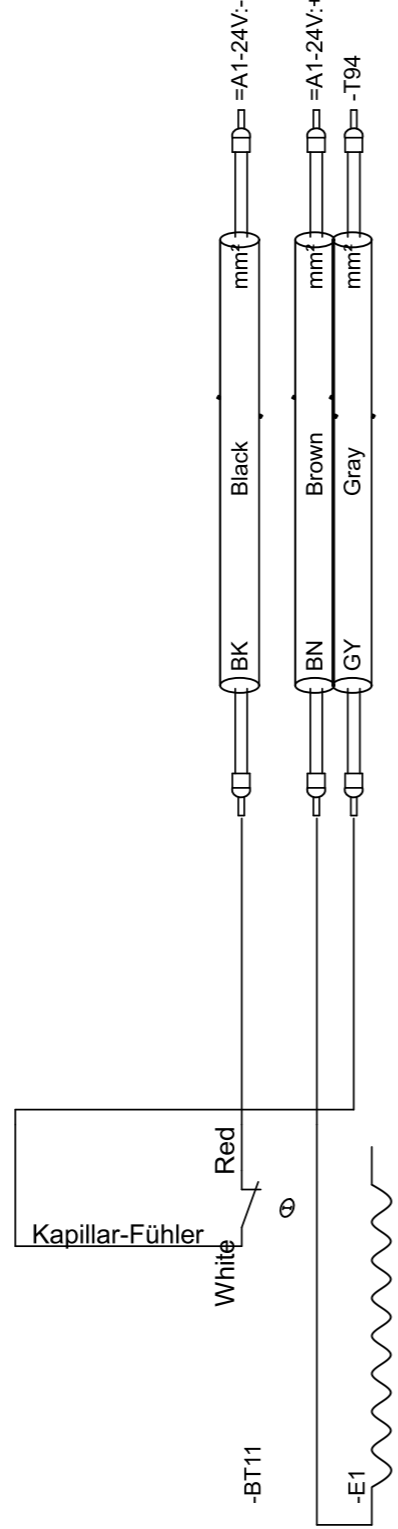
Anmerkung: Frostschutz Heizregister  
Cable-type:

**-W357**



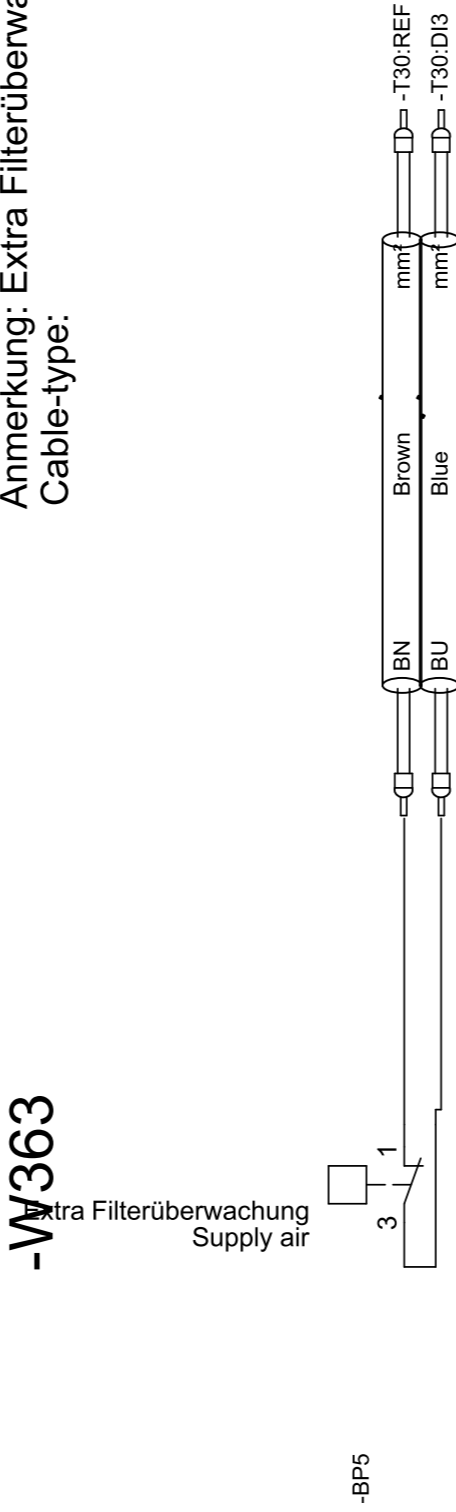
Anmerkung: Frostschutz Thermostat  
Cable-type:

**-W359**



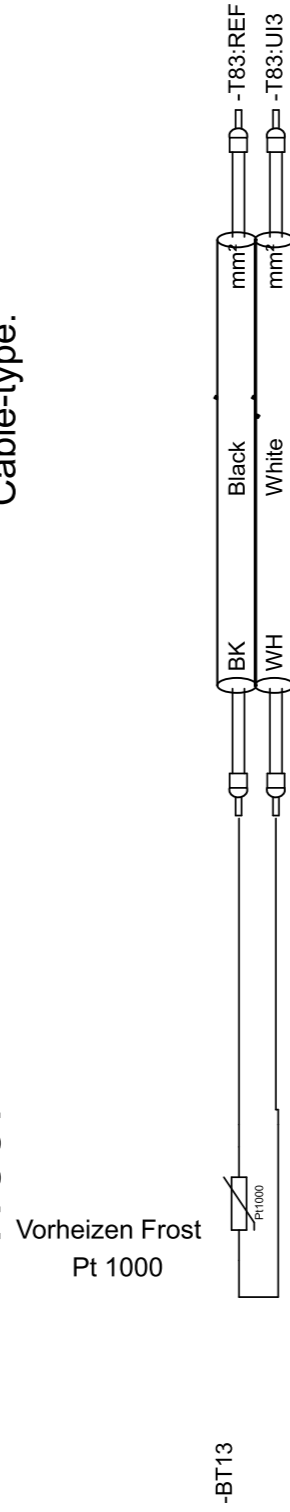
Anmerkung: Extra Filterüberwachung  
Cable-type:

**-W363**



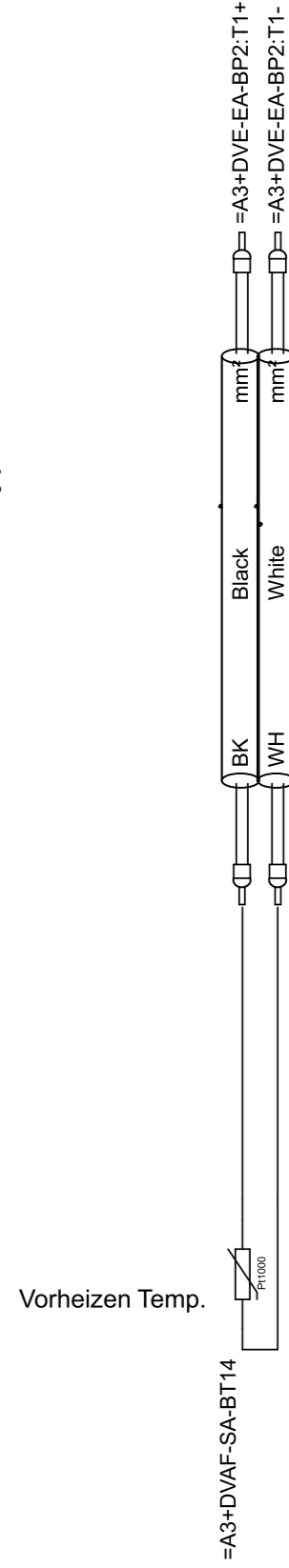
Anmerkung: Vorheizen Frost  
Cable-type:

**-W367**



Anmerkung: Vorerhitzer Temp.  
Cable-type:

**-W369**

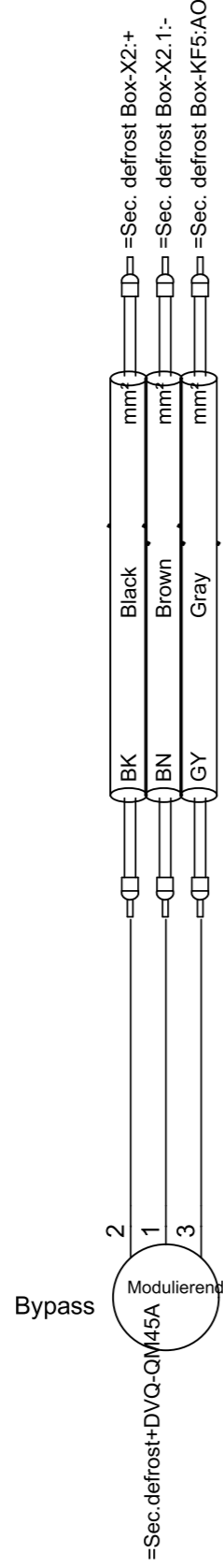


# Anschlussplan

Pfad	Blatt
2	27
3	27
3	27
4	27
4	27
4	27
5	27
5	27
5	27
6	27
6	27
6	27

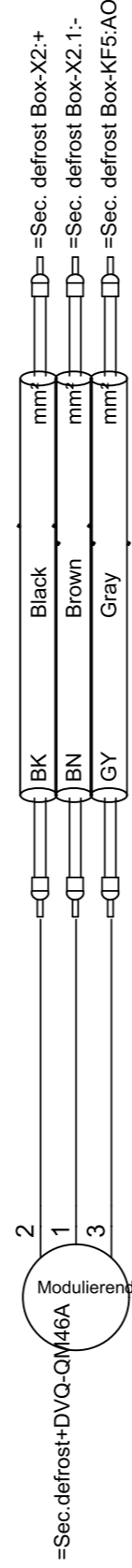
## -W445A

Anmerkung:  
Cable-type:



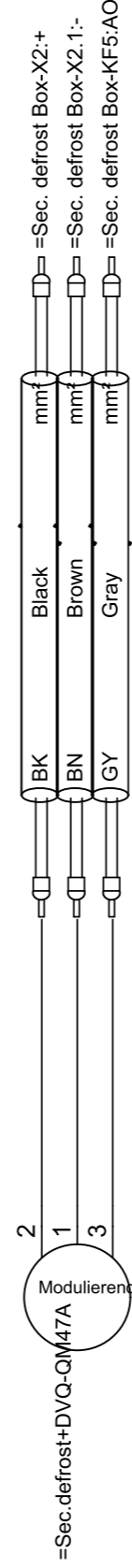
## -W446A

Anmerkung:  
Cable-type:



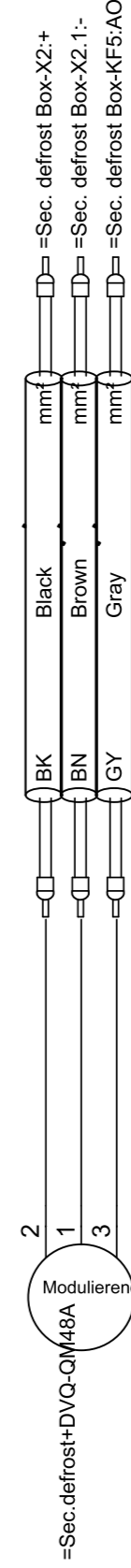
## -W447A

Anmerkung:  
Cable-type:



## -W448A

Anmerkung:  
Cable-type:

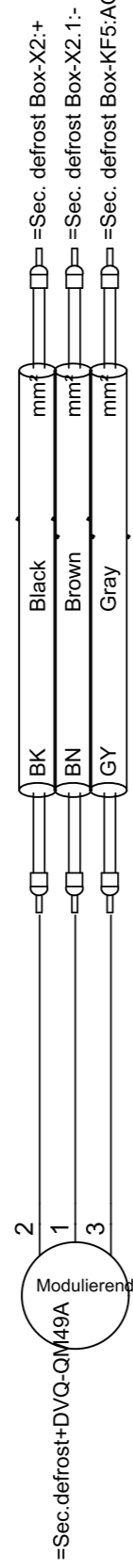


# Anschlussplan

Pfad	Blatt
7	27
8	27
8	27
9	27
9	27
6	11
6	11
6	11
6	11

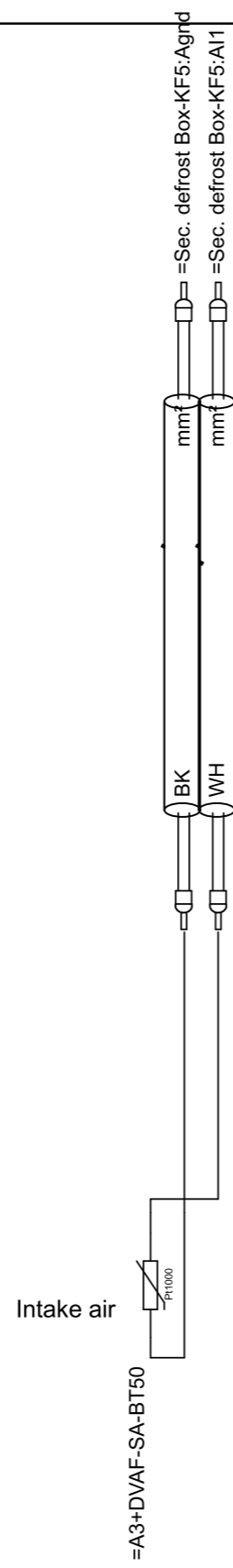
**-W449A**

Anmerkung:  
Cable-type:



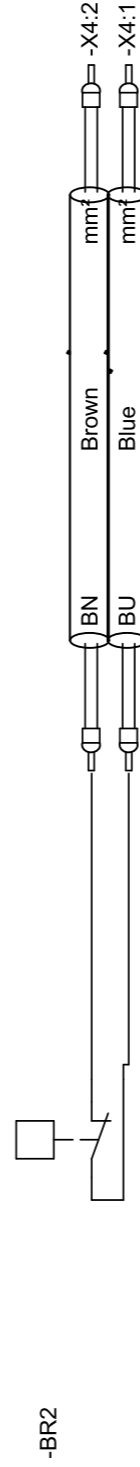
**-W450A**

Anmerkung: Intake air  
Cable-type:



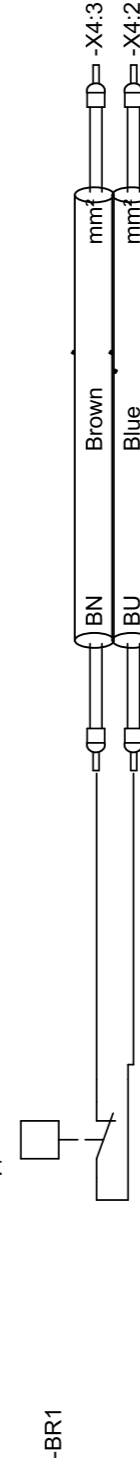
**-W456**

Anmerkung: Brandschutzthermostat Abluft  
Cable-type:



**-W457**

Anmerkung: Brandschutzthermostat  
Cable-type: 2x0,75mm2



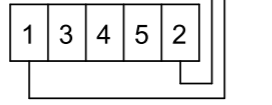
# Anschlussplan

Pfad  
Blatt

Anmerkung: Rauchmelder  
Cable-type:

**-W458**

Rauchmelder  
\*\*



-BQ3

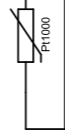


0  
12

**-W507**

Anmerkung: Außenluft-Fühler  
Cable-type:

Außen Temp.  
Pt 1000



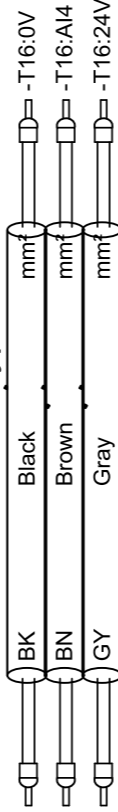
-BT7



8  
13

**-W508**

Anmerkung: Raumfühler 1  
Cable-type:

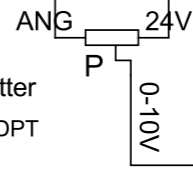


8  
12  
12

**-W513**

Anmerkung: Druckverlust Zuluft extern  
Cable-type:

Drucktransmitter  
DPT



-BP3



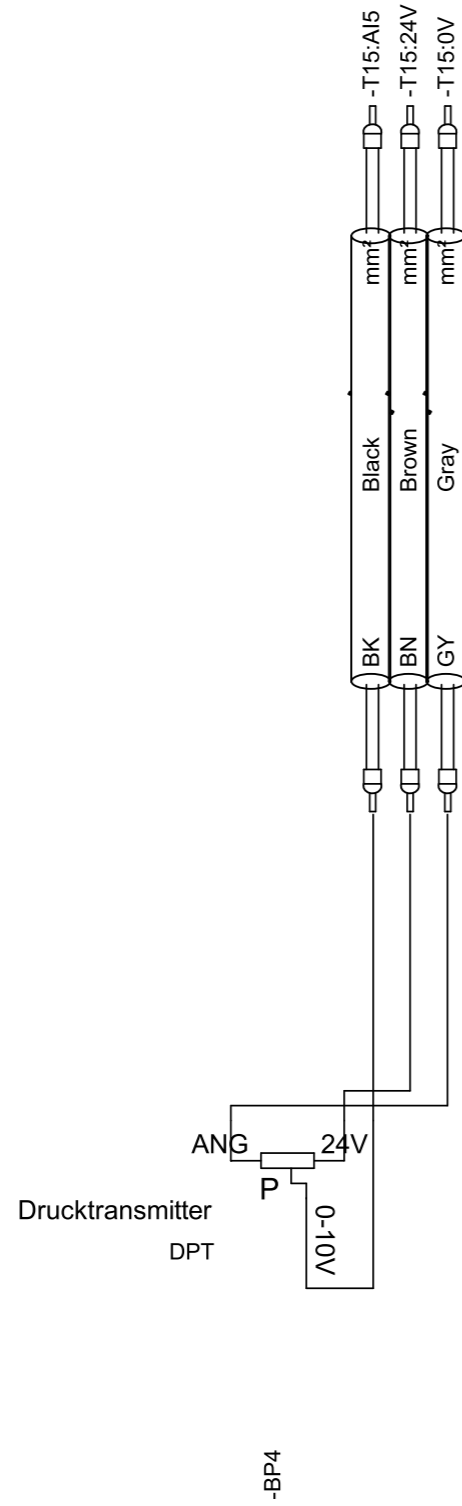
3  
12  
12

# Anschlussplan

Pfad  
Blatt

Anmerkung: Druckverlust Abluft extern  
Cable-type:

**-W514**

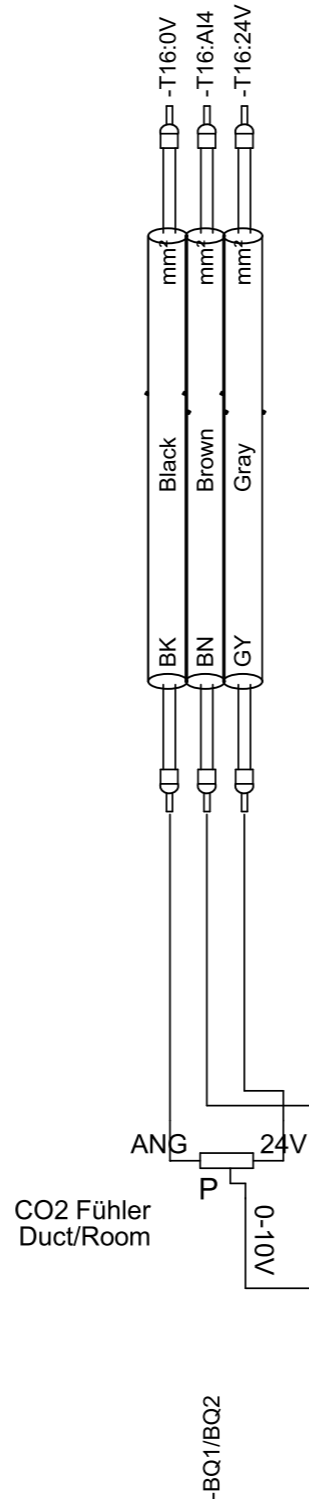


-BP4

4  
5  
4  
12  
12  
12

**-W515/516**

Anmerkung: CO2-Fühler  
Cable-type:

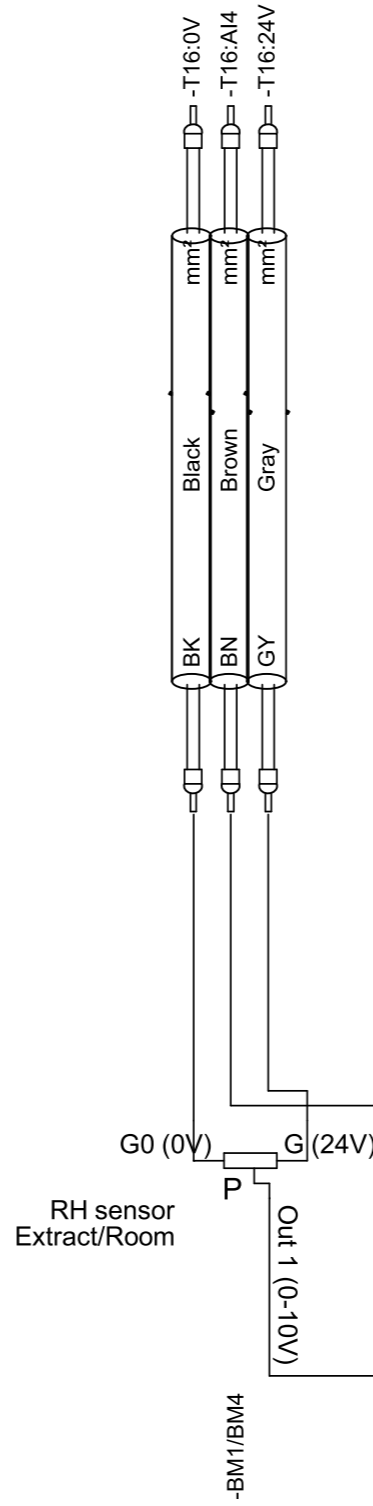


-BQ1/BQ2

6  
6  
6  
12  
12  
12

**-W517/W520**

Anmerkung: RH sensor  
Cable-type:



-BM1/BM4

7  
7  
7  
12  
12  
12

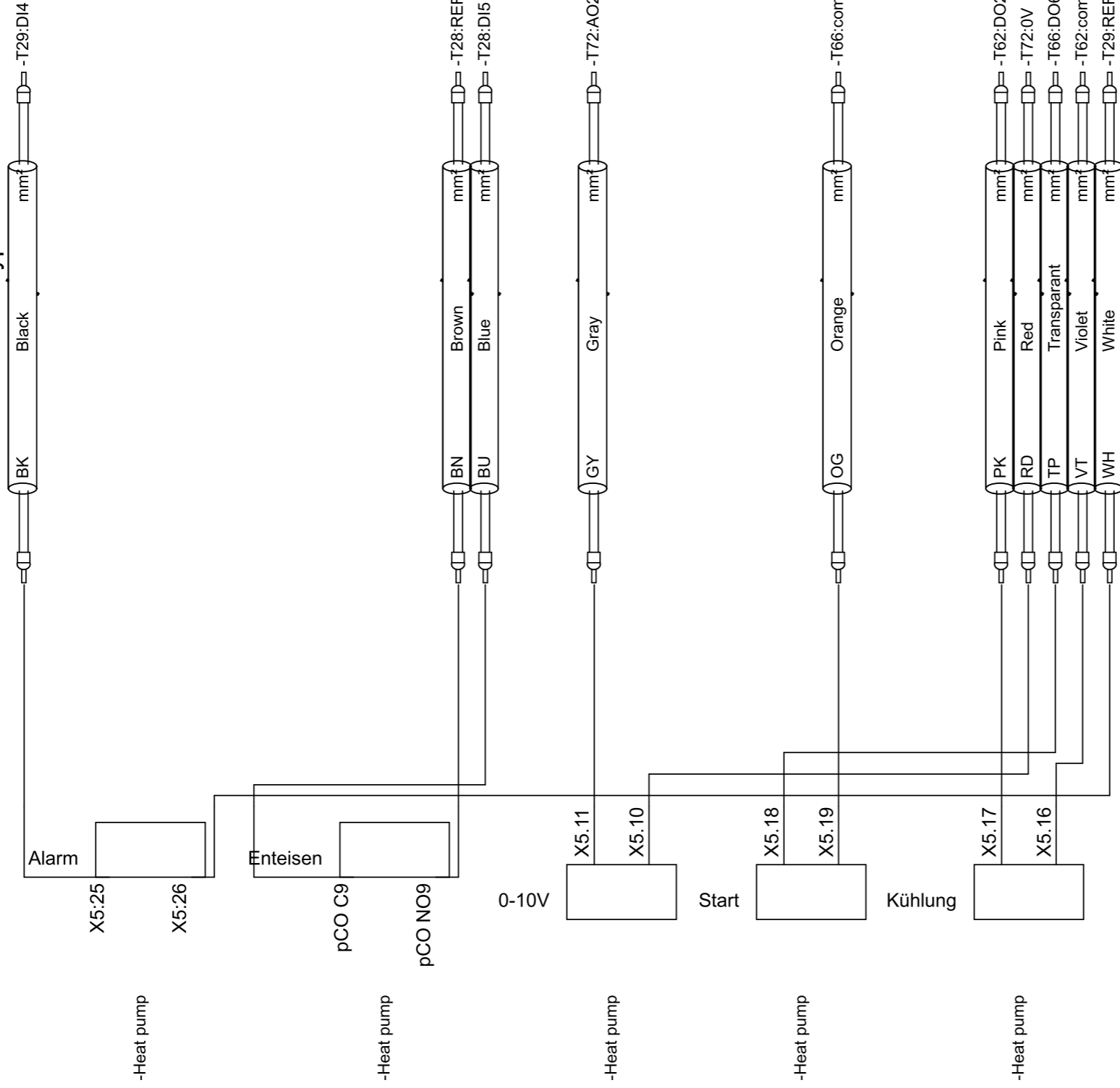
# Anschlussplan

Pfad  
Blatt

6	10	9	8	8	9	4	8	9	4	6	0	0	1	1	1
		10	10	16	15	14	16	15	14	10	15	15	15	15	15

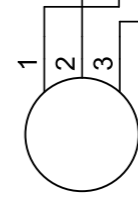
Anmerkung: WP Regelung  
Cable-type:

-W528



-W531.1

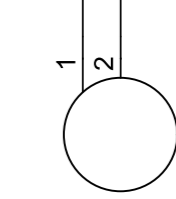
Anmerkung: Klappe Zuluft  
Cable-type:



-QM31.1

-W531.1S

Anmerkung: Klappe Zuluft  
Cable-type:



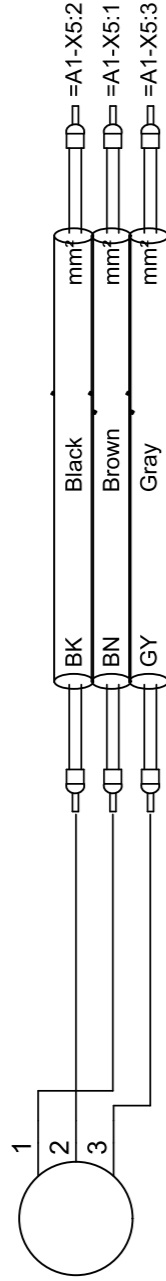
-QM31.1S

# Anschlussplan

Pfad  
Blatt

**-W532.1**

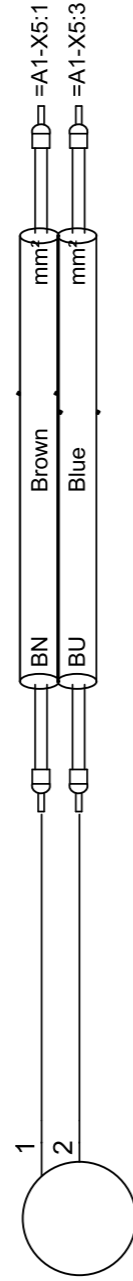
Anmerkung: Klappe Abluft  
Cable-type:



-QM32.1

**-W532.1S**

Anmerkung: Klappe Abluft  
Cable-type:

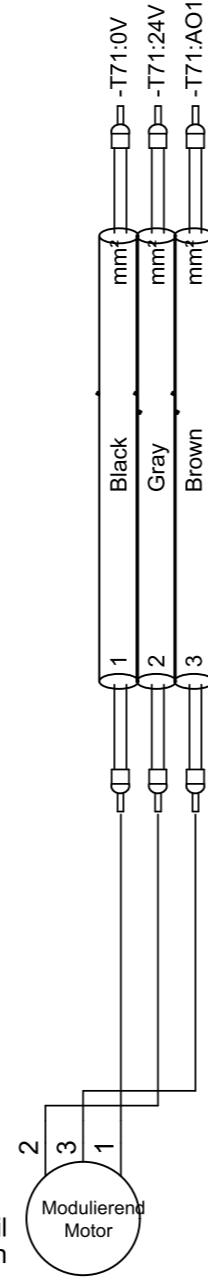


-QM32.1S

Klappenstellmotor

**-W551**

Anmerkung: Heizventil  
Cable-type:



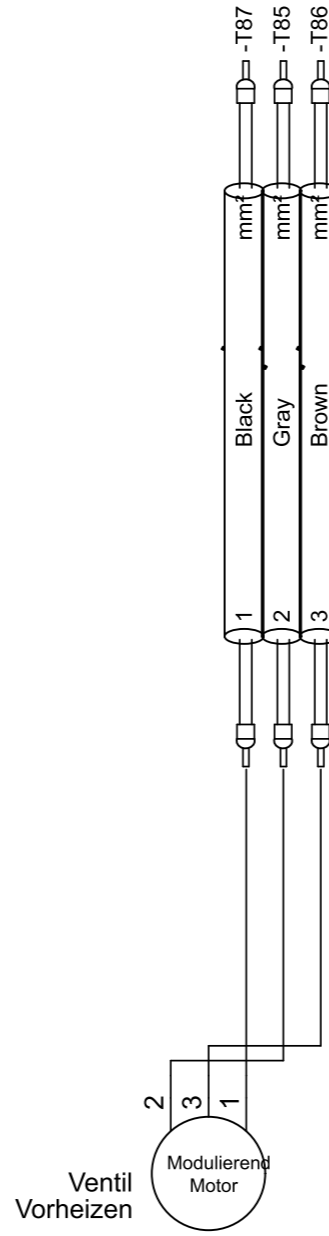
-QN51

Ventil  
Heizen

Modulierend  
Motor

**-W553**

Anmerkung: Heizventil  
Cable-type:



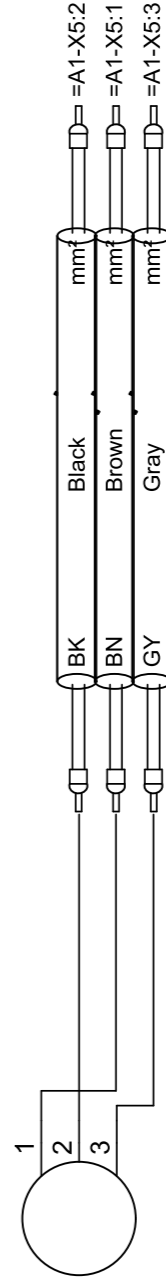
-QN53

Ventil  
Vorheizen

Modulierend  
Motor

**-W571.1**

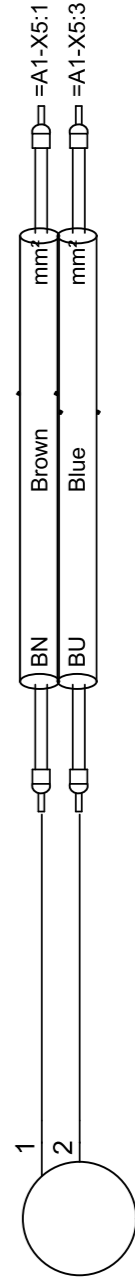
Anmerkung: Klappe Zuluft 2  
Cable-type:



-QM71.1

**-W571.1S**

Anmerkung: Klappe Zuluft 2  
Cable-type:



-QM71.1S

Klappenstellmotor

4  
4  
4

5  
5

2  
2  
2

2  
2  
2

2  
2  
2

3  
3

15  
15  
15

15  
15

16  
16  
16

17  
17  
17

15  
15  
15

15  
15

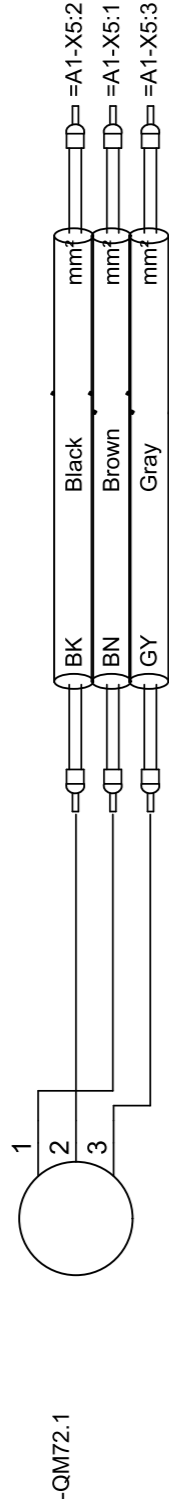


# Anschlussplan

Pfad  
Blatt

**-W572.1**

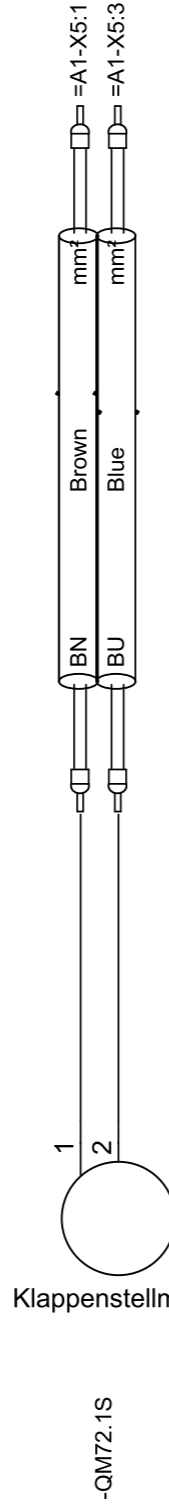
Anmerkung: Klappe Abluft 2  
Cable-type:



-QM72.1

**-W572.1S**

Anmerkung: Klappe Abluft 2  
Cable-type:

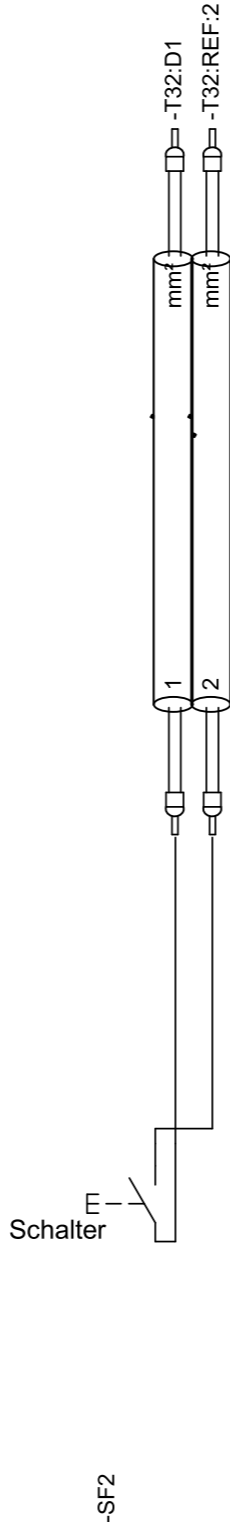


-QM72.1S

Klappenstellmotor

**-W580**

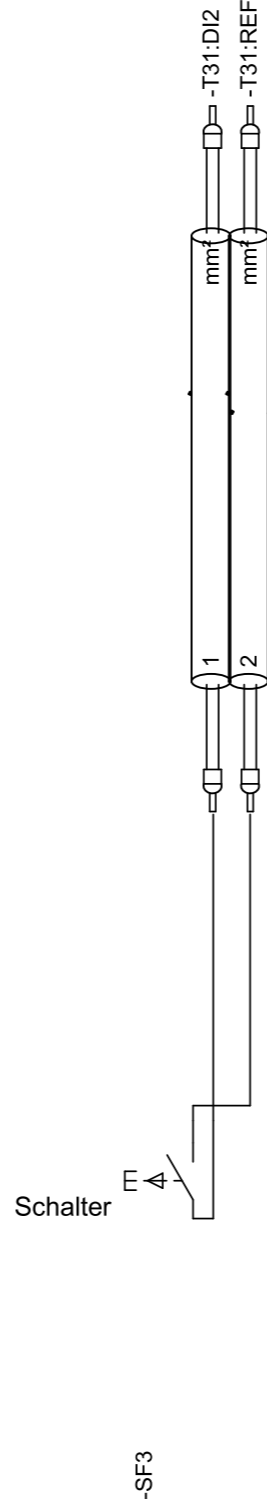
Anmerkung: Reduzierte Drehzahl  
Cable-type: 2x0,75mm<sup>2</sup>



-SF2

**-W581**

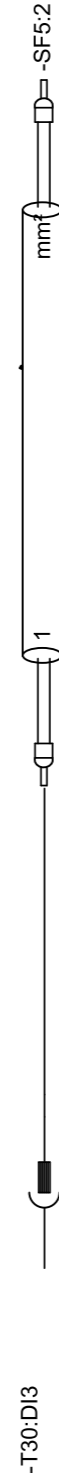
Anmerkung: Normale Drehzahl extern  
Cable-type:



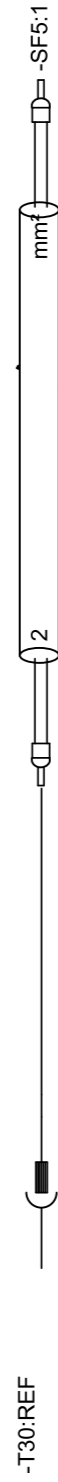
-SF3

**-W583**

Anmerkung: ext. Stop  
Cable-type: 2x0,75mm<sup>2</sup>



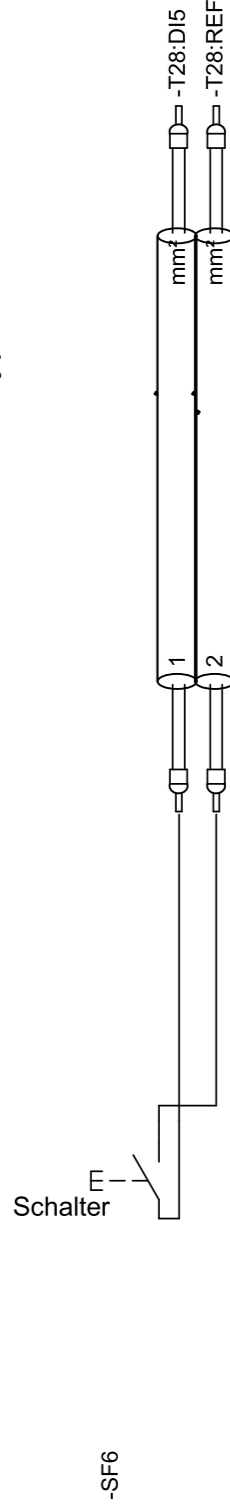
-T30:D13



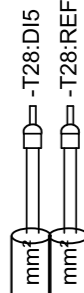
-T30:REF

**-W584**

Anmerkung: Change over  
Cable-type:



-SF6



-T28:D15

-T28:REF

8

8

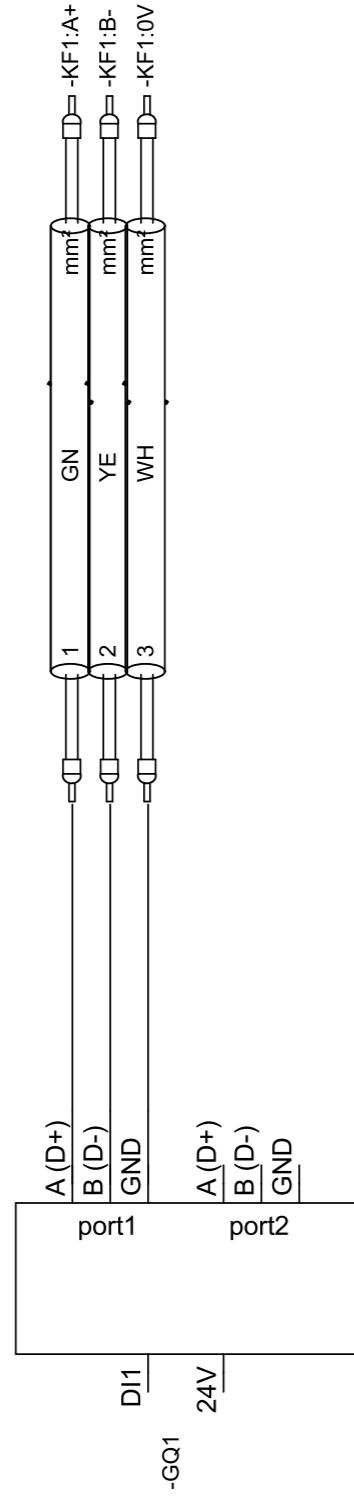
# Anschlussplan

Pfad  
Blatt

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

**-W601**

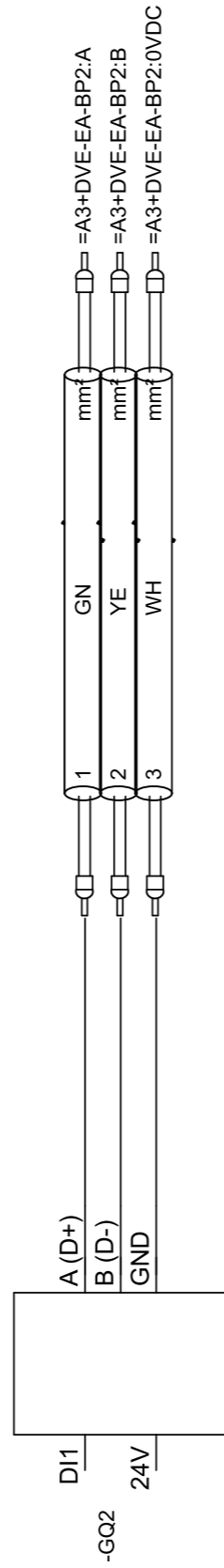
EC Ventilator



**-W602**

EC Ventilator

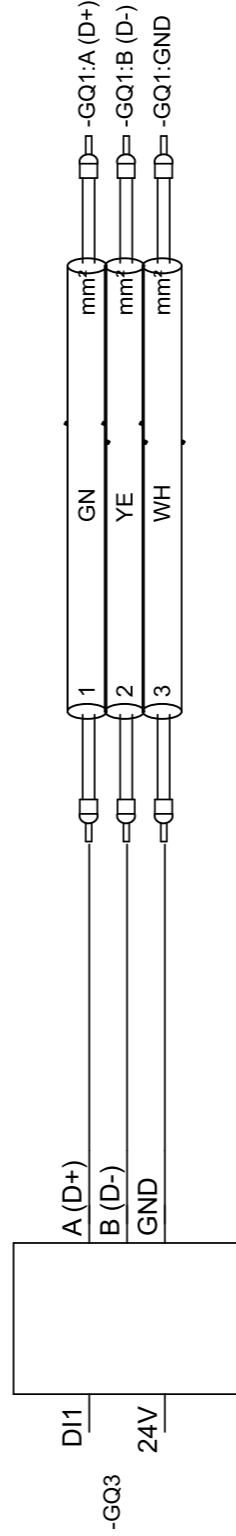
Anmerkung: GQ2 BUS  
Cable-type: 4x0,6mm2



**-W603**

EC Ventilator

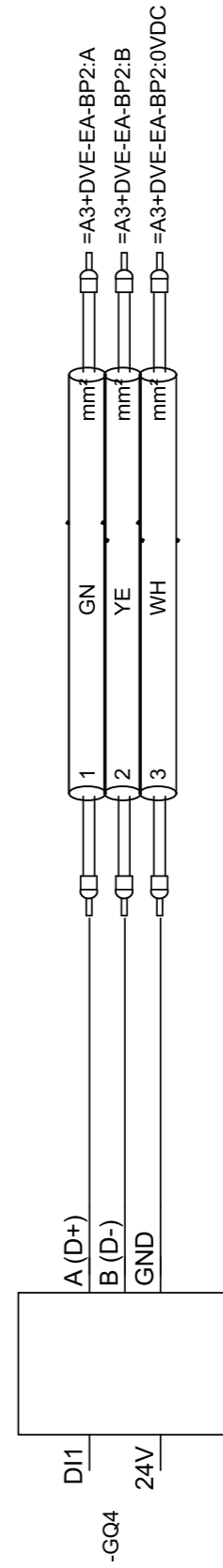
Anmerkung: GQ3 BUS  
Cable-type: 4x0,6mm2



**-W604**

EC Ventilator

Anmerkung: GQ4 BUS  
Cable-type: 4x0,6mm2



24  
24  
24

25  
25  
25

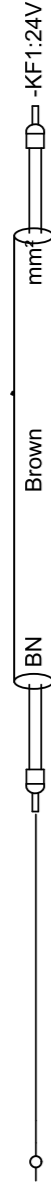
24  
24  
24

25  
25  
25

# Anschlussplan

Pfad  
Blatt

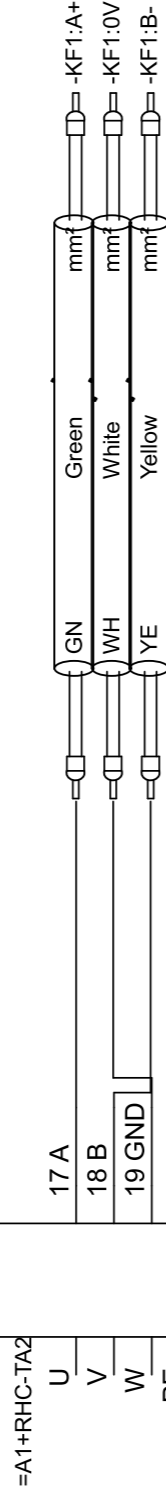
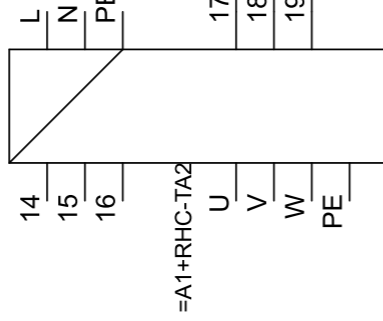
Anmerkung: TA2 BUS  
Cable-type:



-W642.1

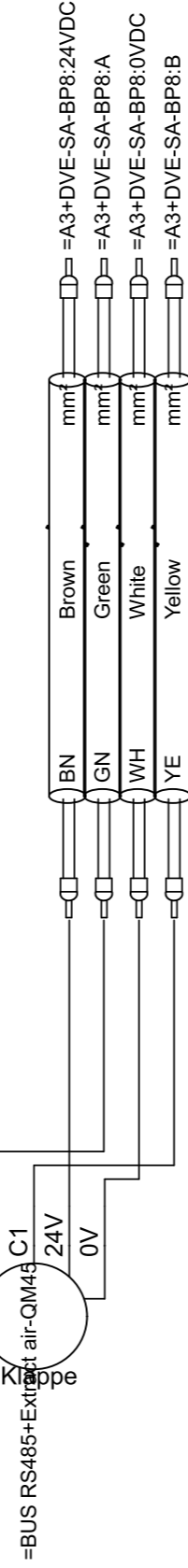
-X1

Rotor regler  
RHC



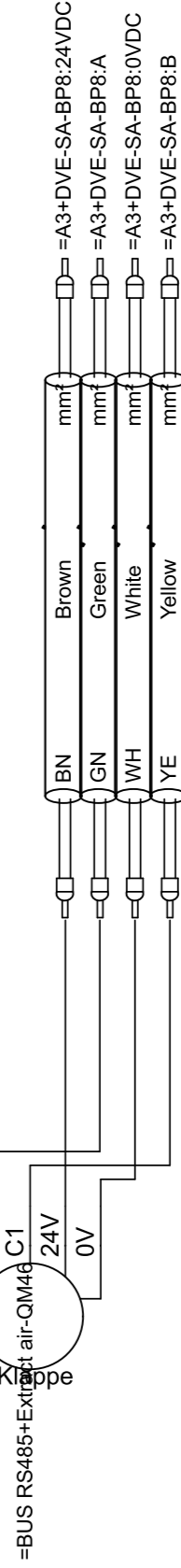
Anmerkung: Abluft  
Cable-type:

-W645



Anmerkung: Abluft  
Cable-type:

-W646



2  
26

1  
26  
2  
26  
2  
26

6  
26  
6  
26  
6  
26  
6  
26

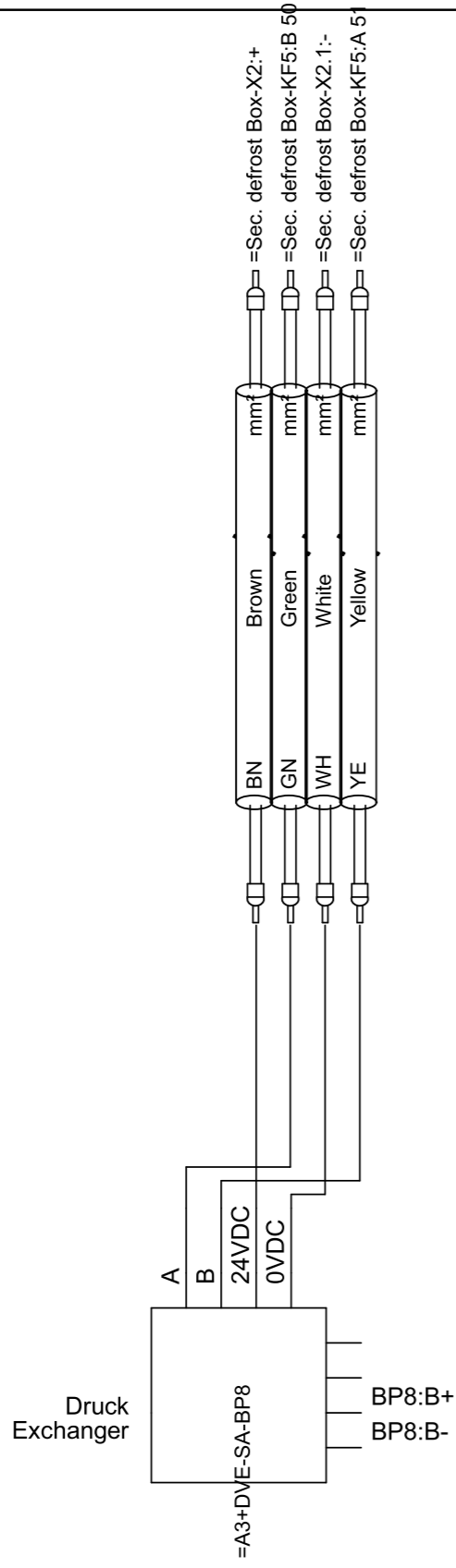
7  
26  
7  
26  
8  
26  
7  
26

# Anschlussplan

Pfad  
Blatt

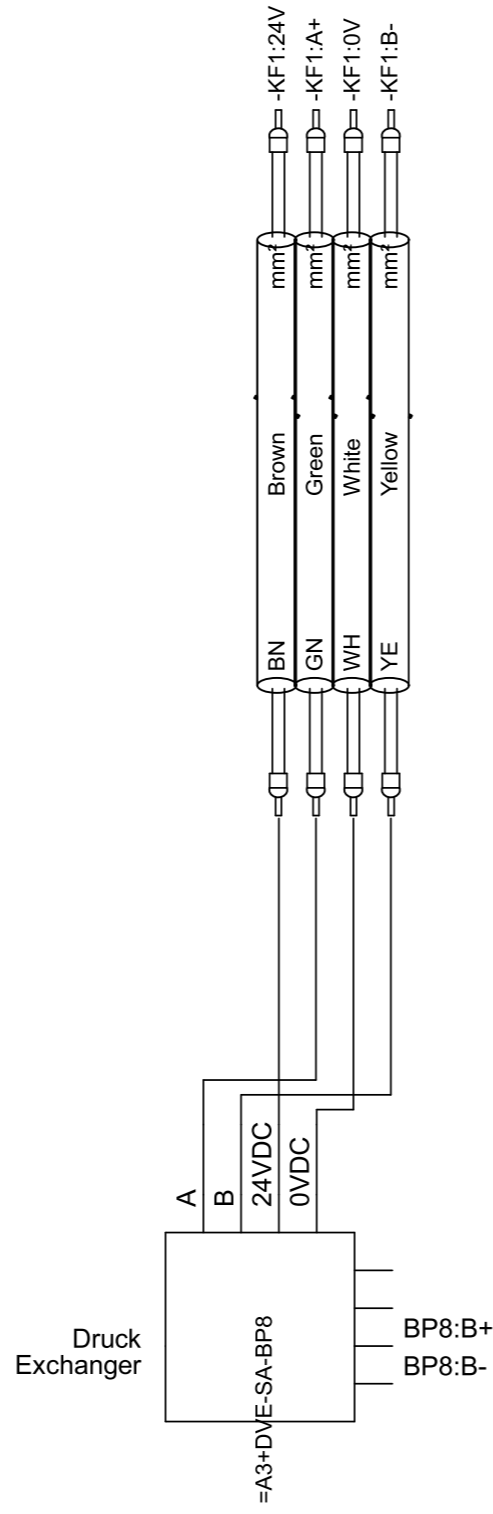
Anmerkung: Sek. Enteisung  
Cable-type:

-W655



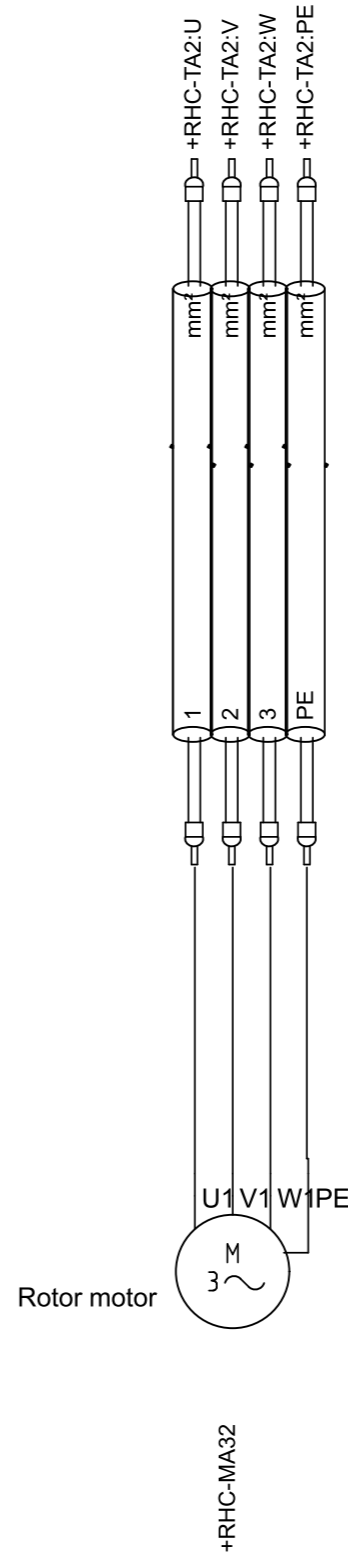
-W666

Anmerkung: Druckverlust Plattenwärme  
Cable-type:



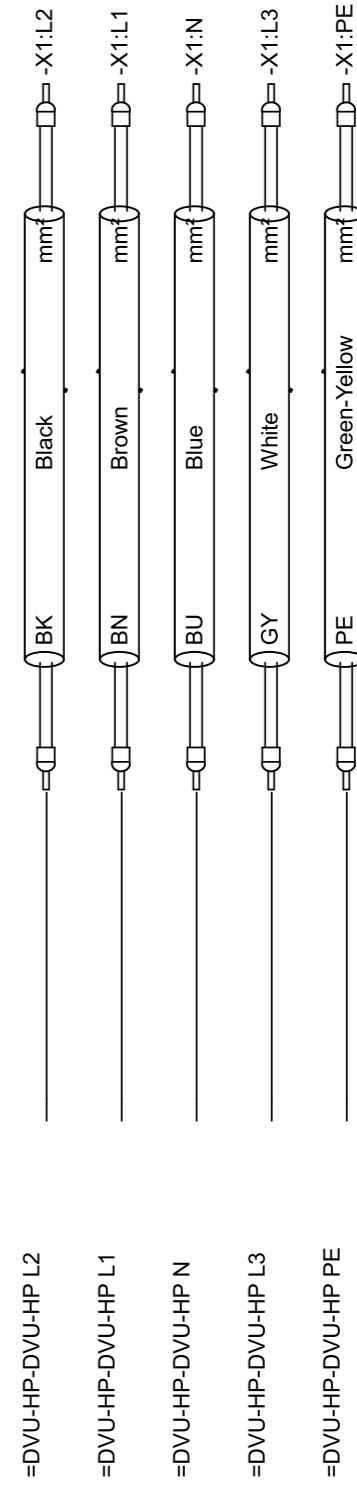
=A1-W332

Anmerkung: Rotor-Motor  
Cable-type:



=A1-W529

Anmerkung: DVU-HP  
Cable-type:



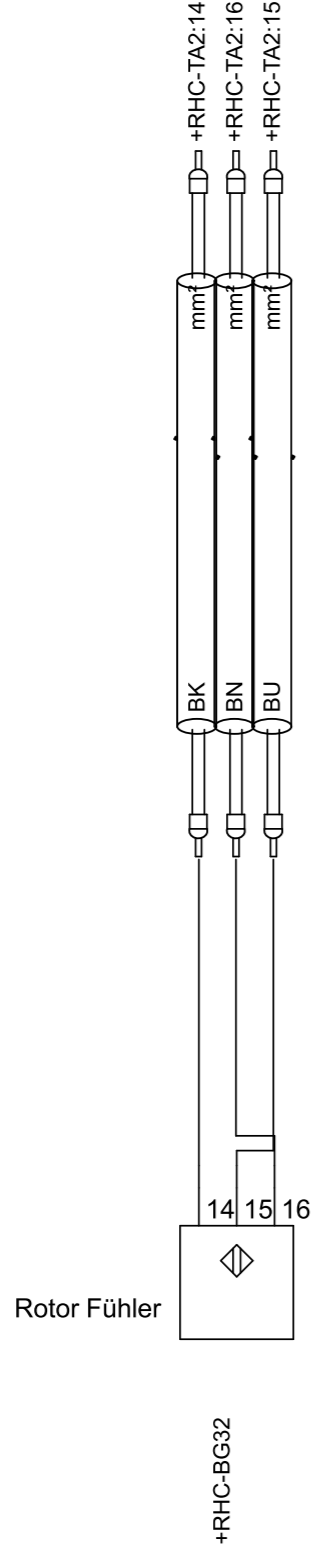
27	1
27	1
27	1
27	0
26	4
26	3
26	4
26	3
26	1
26	2
26	2
26	2
18	2
18	2
18	3
18	2
18	3

# Anschlussplan

Pfad	Blatt
1	26
1	26
1	26
2	14
2	14
2	14
7	16
7	16
7	16
5	19
5	19
6	19
6	19

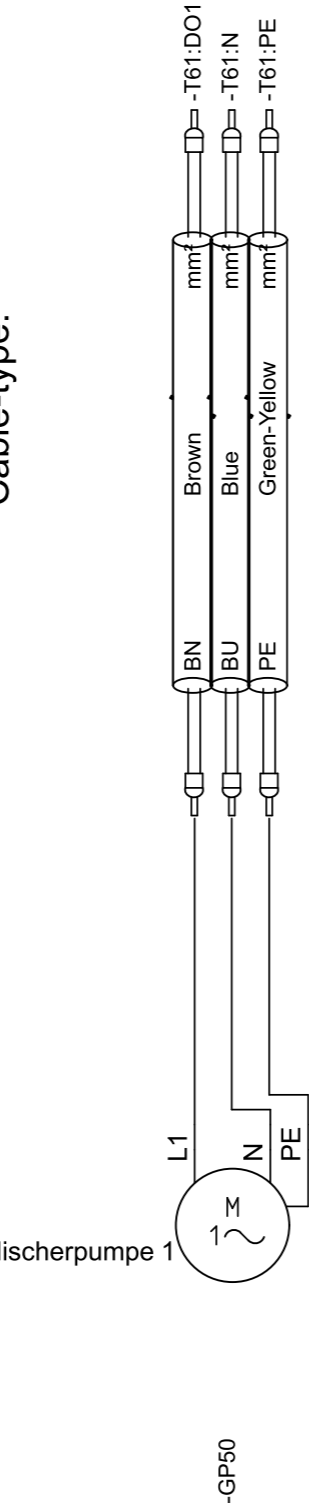
Anmerkung: Rotor-Sensor  
Cable-type:

=A1-W532



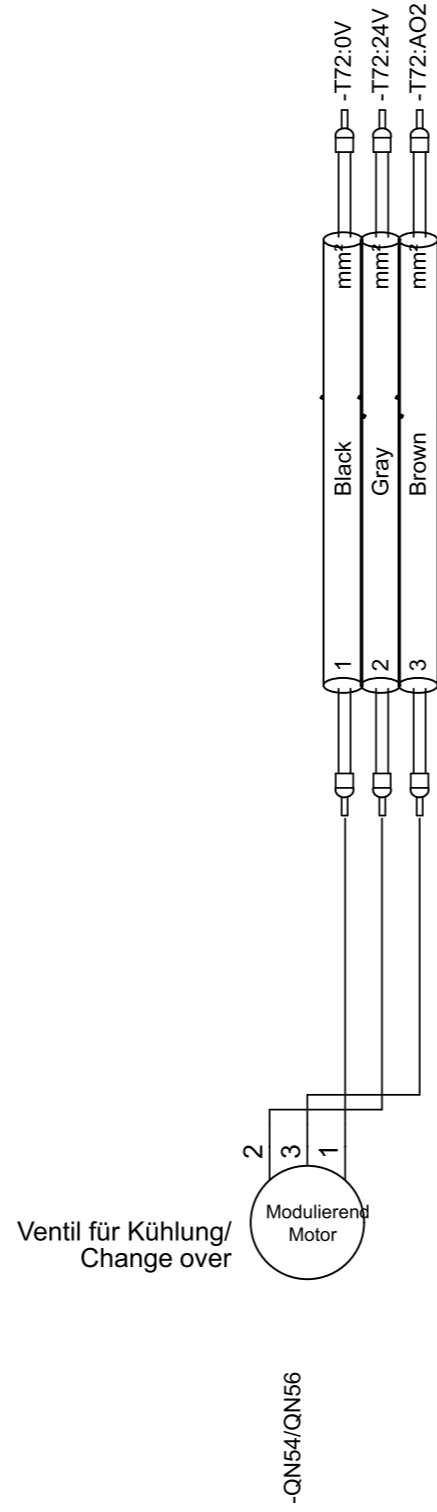
Anmerkung: Umwälzpumpe  
Cable-type:

=A1-W550



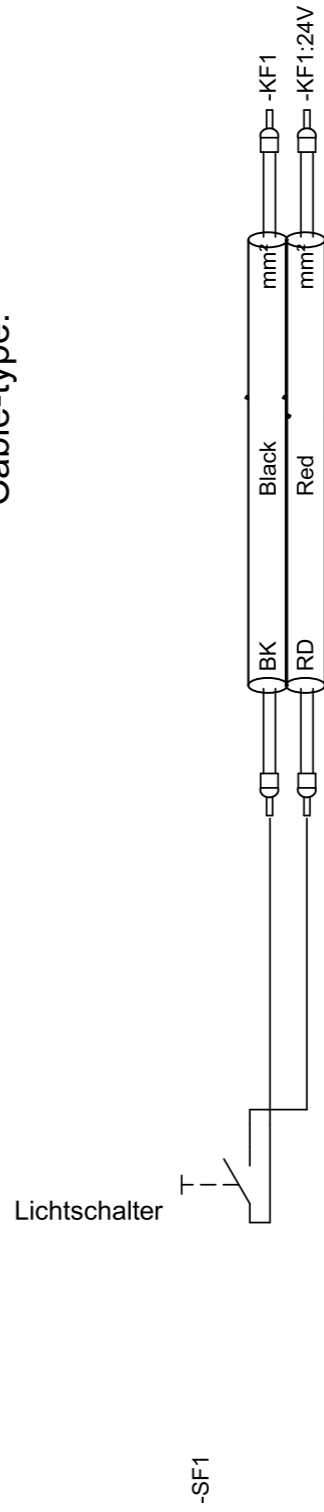
Anmerkung: Kühlventil  
Cable-type:

=A1-W554



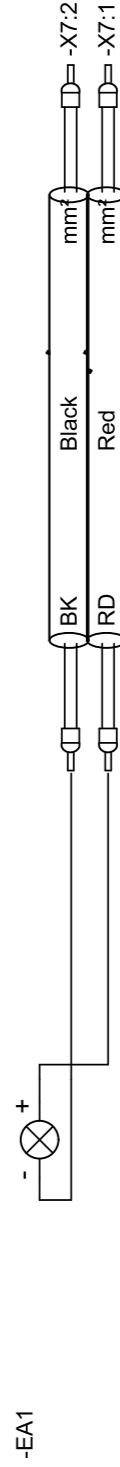
Anmerkung: Lichtschalter  
Cable-type:

=A1-W700



Anmerkung: Licht P20  
Cable-type:

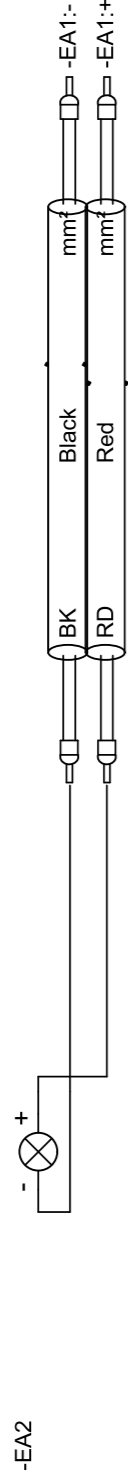
=A1-W701



# Anschlussplan

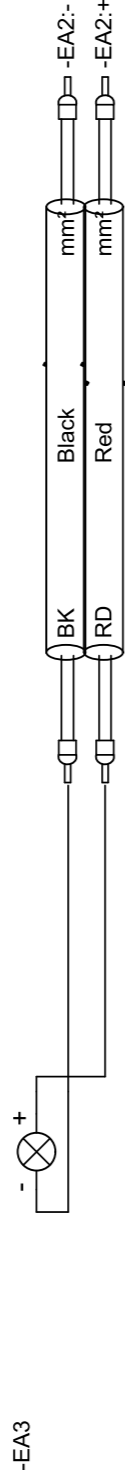
**=A1-W702**

Anmerkung: Licht P20  
Cable-type:



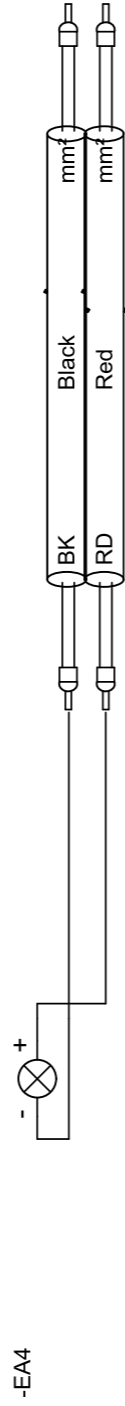
**=A1-W703**

Anmerkung: Licht P20  
Cable-type:



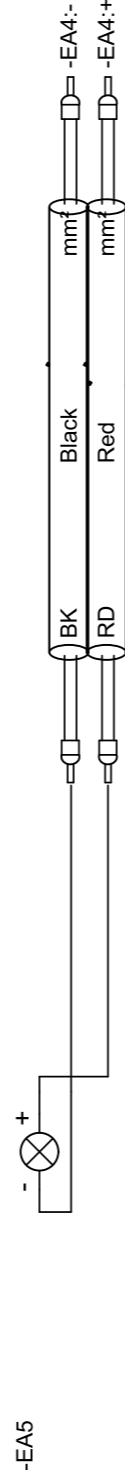
**=A1-W704**

Anmerkung: Licht P21  
Cable-type:



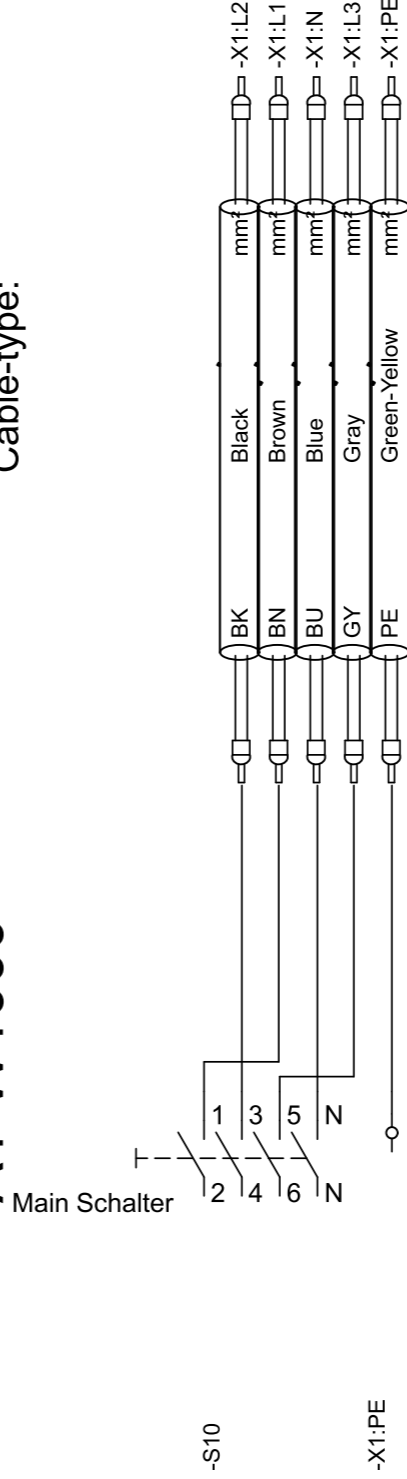
**=A1-W705**

Anmerkung:  
Cable-type:



**=A1-W1000**

Anmerkung: Hauptstromversorgung  
Cable-type:



Blatt  
Pfad

19  
19

19  
19

19  
19

19  
19

18  
18  
18  
18  
18

7  
6

7  
7

8  
8

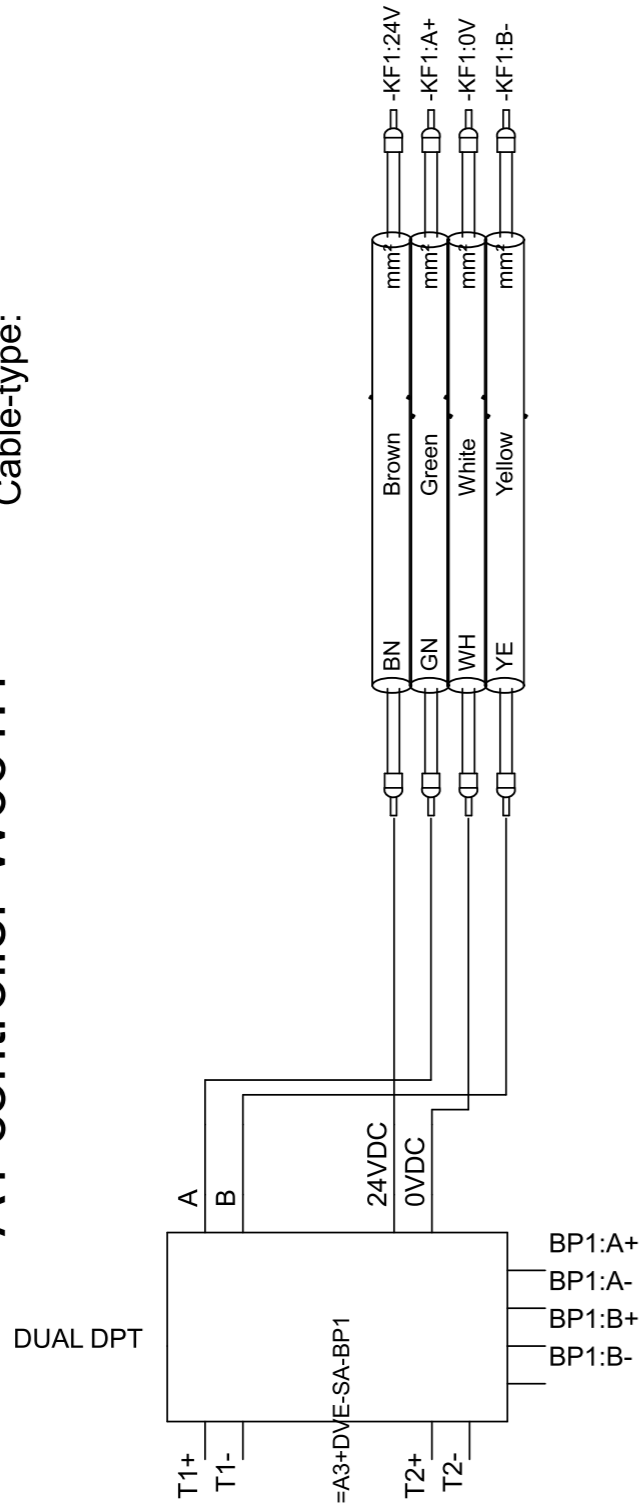
9  
9

0  
0  
1  
1  
1

# Anschlussplan

## =A1 controller-W661.1

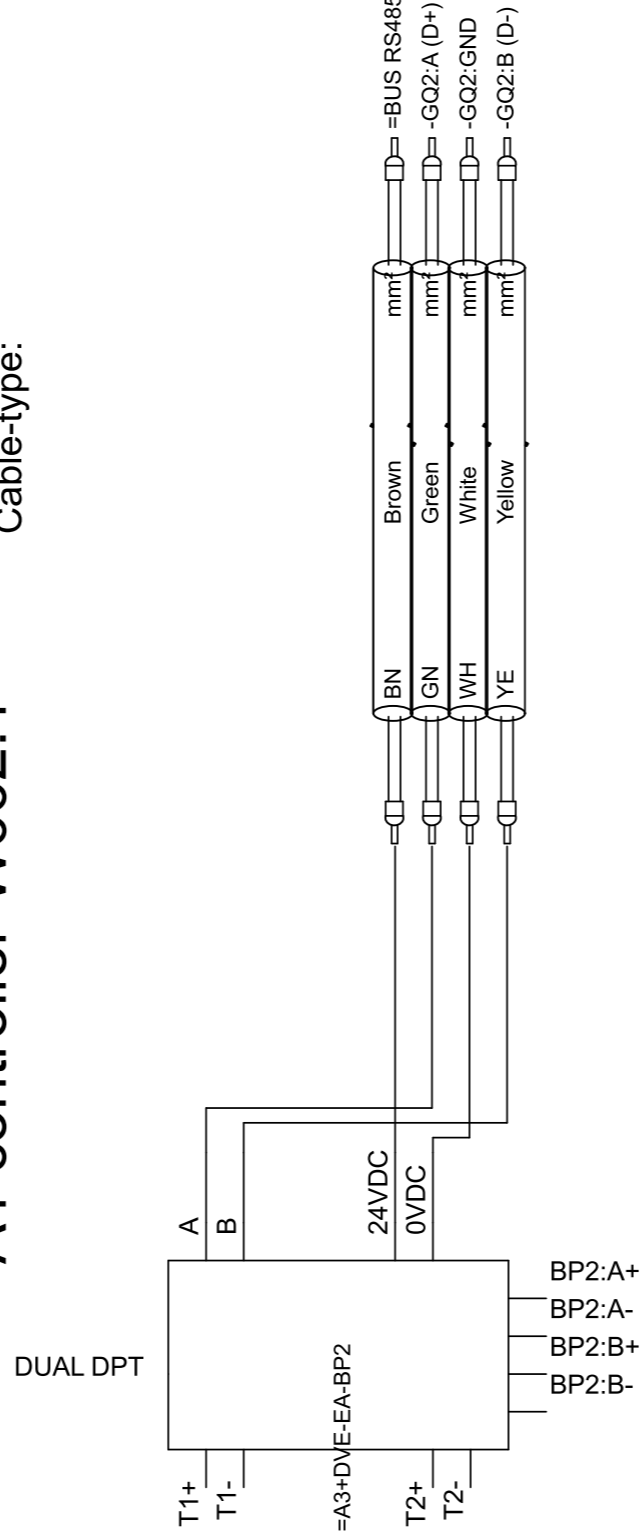
Anmerkung: BP2 BUS  
Cable-type:



Blatt	24
Pfad	2
Blatt	24
Pfad	2
Blatt	24
Pfad	2

## =A1 controller-W662.1

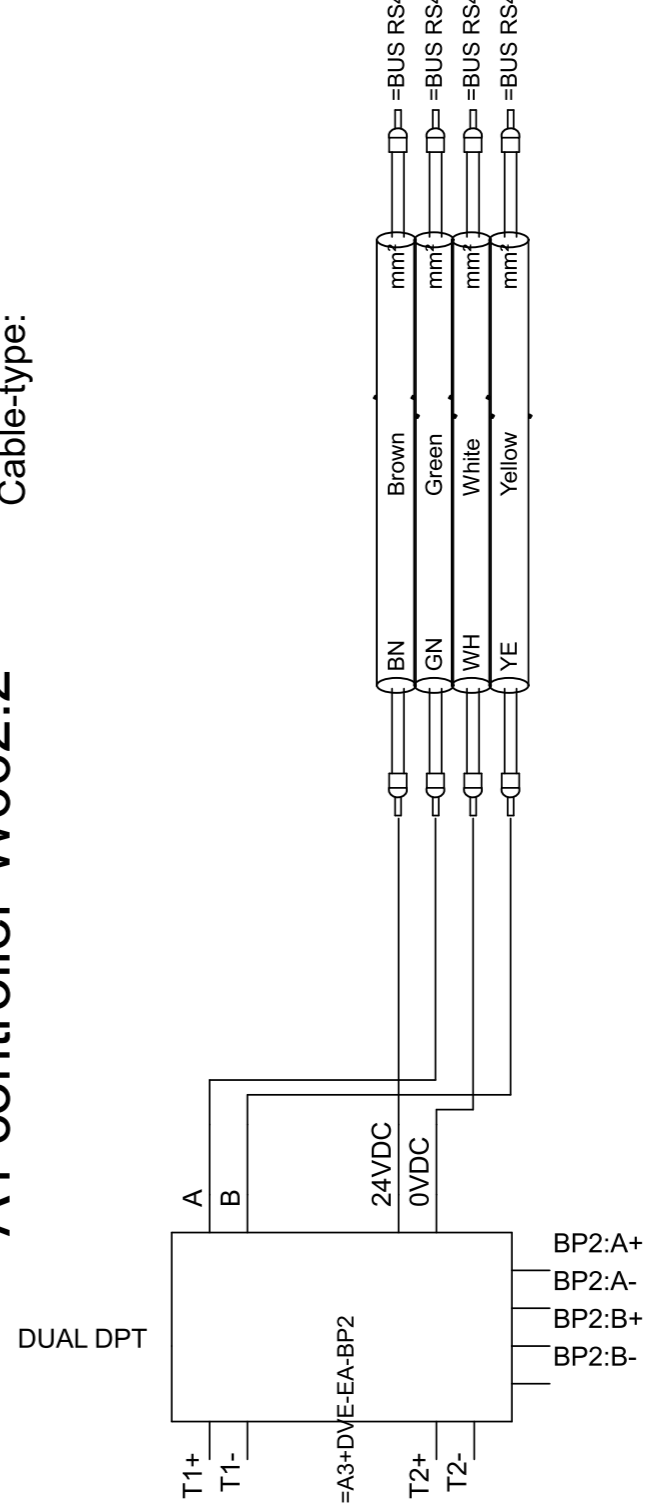
Anmerkung: BP2 BUS  
Cable-type:



Blatt	25
Pfad	2
Blatt	25
Pfad	2
Blatt	25
Pfad	2

## =A1 controller-W662.2

Anmerkung: BP2 BUS  
Cable-type:



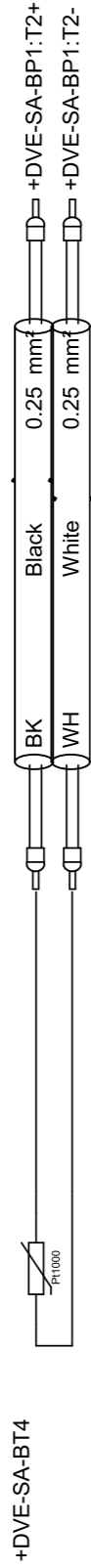
Blatt	2
Pfad	2
Blatt	2
Pfad	2
Blatt	2
Pfad	2

# Anschlussplan

**=A3-W343**

Eff. Temperatur

Anmerkung: Temp.-Effizienz  
Cable-type: 2x0,25mm<sup>2</sup>

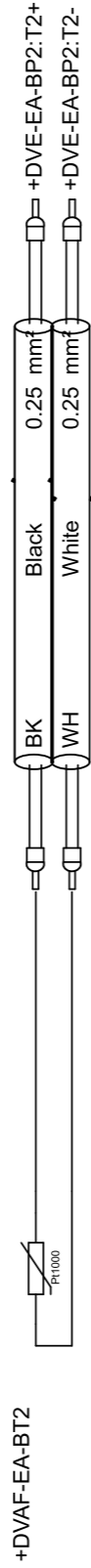


+DVE-SA-BT4

**=A3-W442**

Exhaust Temp.

Anmerkung: Exhaust Temp./de-ice  
Cable-type: 2x0,25mm<sup>2</sup>

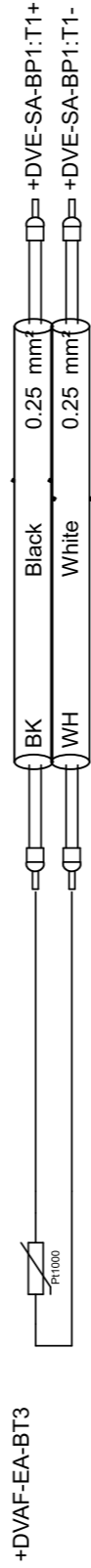


+DVAF-EA-BT2

**=A3-W444**

Abluft Temp.

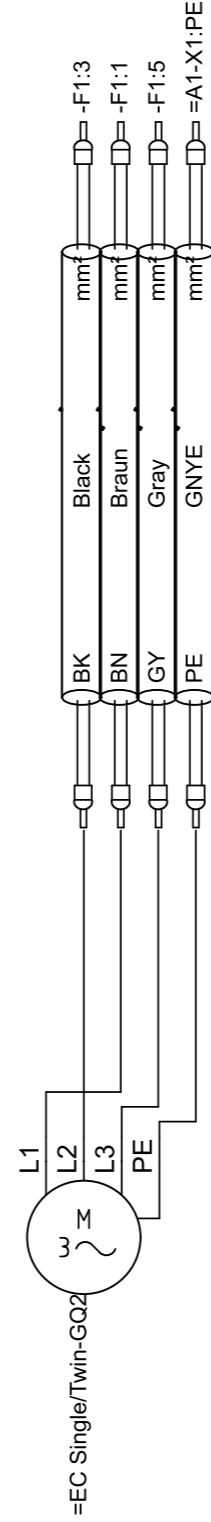
Anmerkung: Abluft Temp.  
Cable-type: 2x0,25mm<sup>2</sup>



+DVAF-EA-BT3

**=EC single+Extract air-W102**

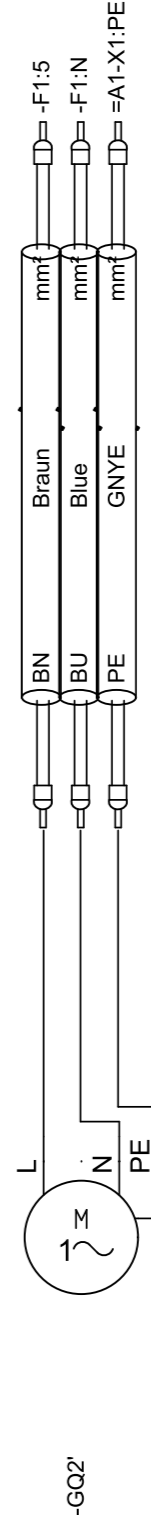
Anmerkung: Motor Abluft  
Cable-type:



=EC Single/Twin-GQ2

**=EC single+Extract air-W102**

Anmerkung: Motor Abluft  
Cable-type:



-GQ2'

Pfad  
Blatt

2  
24  
2  
24

2  
25  
2  
25

1  
24  
1  
24

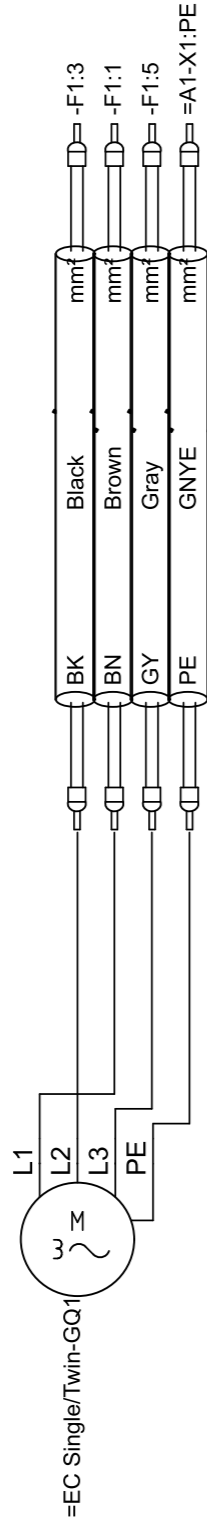
2  
21  
2  
21  
2  
21  
3  
21

5  
20  
5  
20  
6  
20

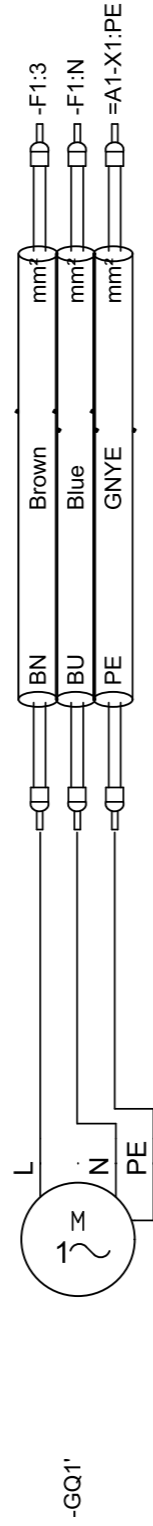


# Anschlussplan

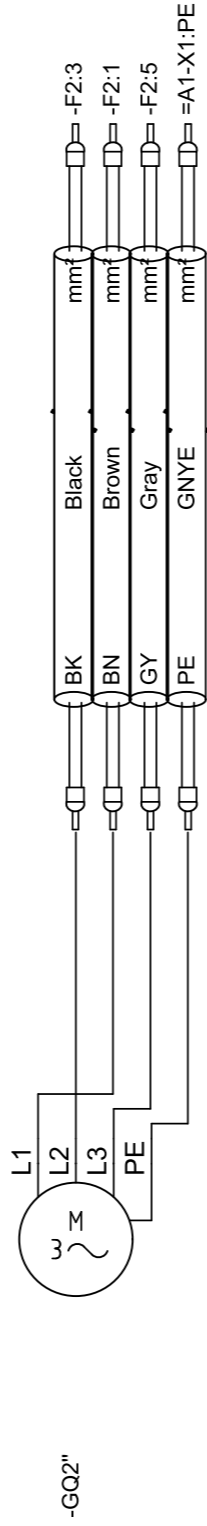
**=EC single+Supply air-W101** Anmerkung: Motor Zuluft  
Cable-type:



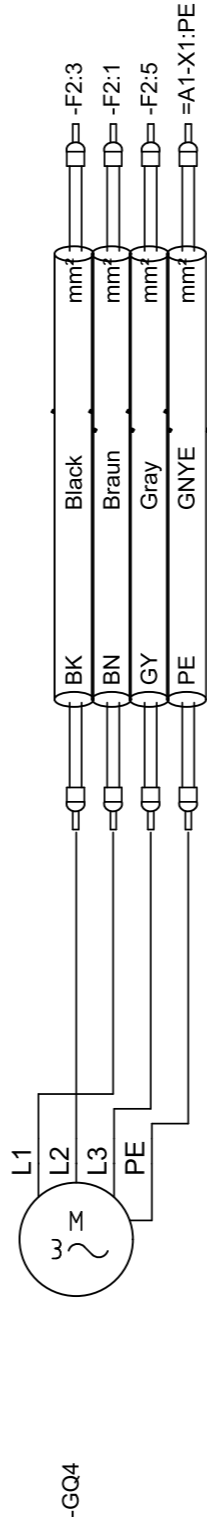
**=EC single+Supply air-W101** Anmerkung: Motor Zuluft  
Cable-type:



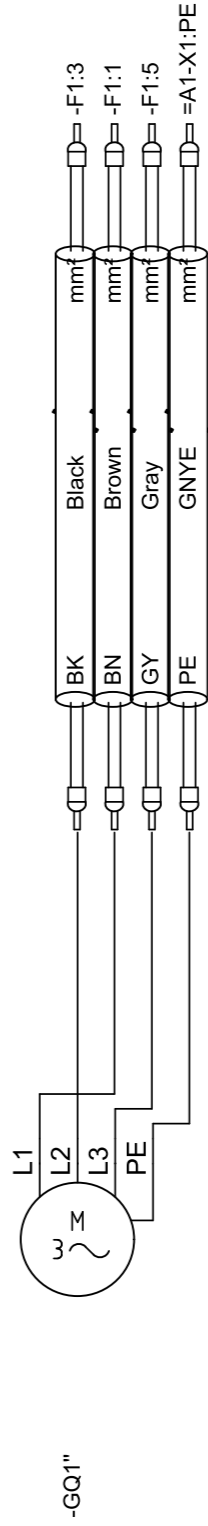
**=EC Twin+Extract air-W102** Anmerkung: Motor Zuluft  
Cable-type:



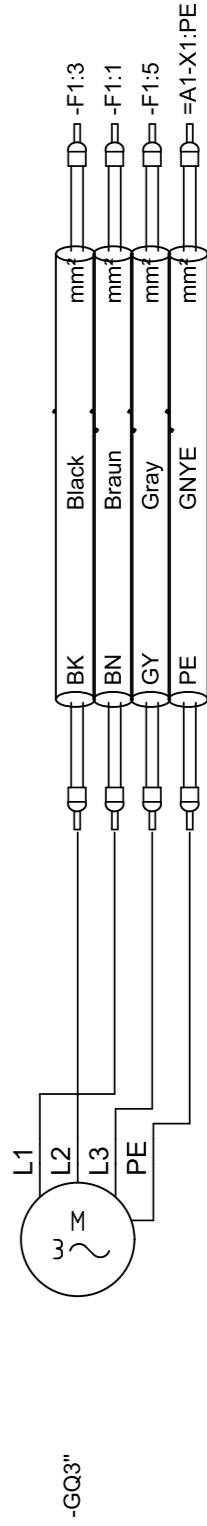
**=EC Twin+Extract air-W104** Anmerkung: Motor Abluft  
Cable-type:



**=EC Twin+Supply air-W101** Anmerkung: Motor Zuluft  
Cable-type:



**=EC Twin+Supply air-W103** Anmerkung: Motor Zuluft  
Cable-type:



Pfad	Blatt
1	21
1	21
1	21
1	21
2	20
2	20
3	20
7	21
7	21
7	21
7	21
8	21
8	21
9	21
9	21
4	21
4	21
4	21
4	21
5	21
5	21
6	21
6	21