

Geniox Core Control system 43.04.02 (230V)

Dokumente sind auf den folgenden Seiten aufgelistet:

Projekt-Deckblatt: Seite 1

Kurzanleitung: Seite 2

Allgemeine Beschreibung: Seite 3-4

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Circuit Diagram: page 19-26

Modbus Guide: page 21

Modbus address list: page 26

Cable plan: page 100-116

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

Elektro data:

Gesamtleistungsaufnahme:

Siehe

Ventilator Sicherung gr.:

schriftliche Bestellung

Zuluftventilator Leitungswiderstand:

Siehe schriftliche Bestellung

Abluftventilator Leitungswiderstand:

Siehe schriftliche Bestellung

Max. Vorsicherung:

Siehe schriftliche Bestellung

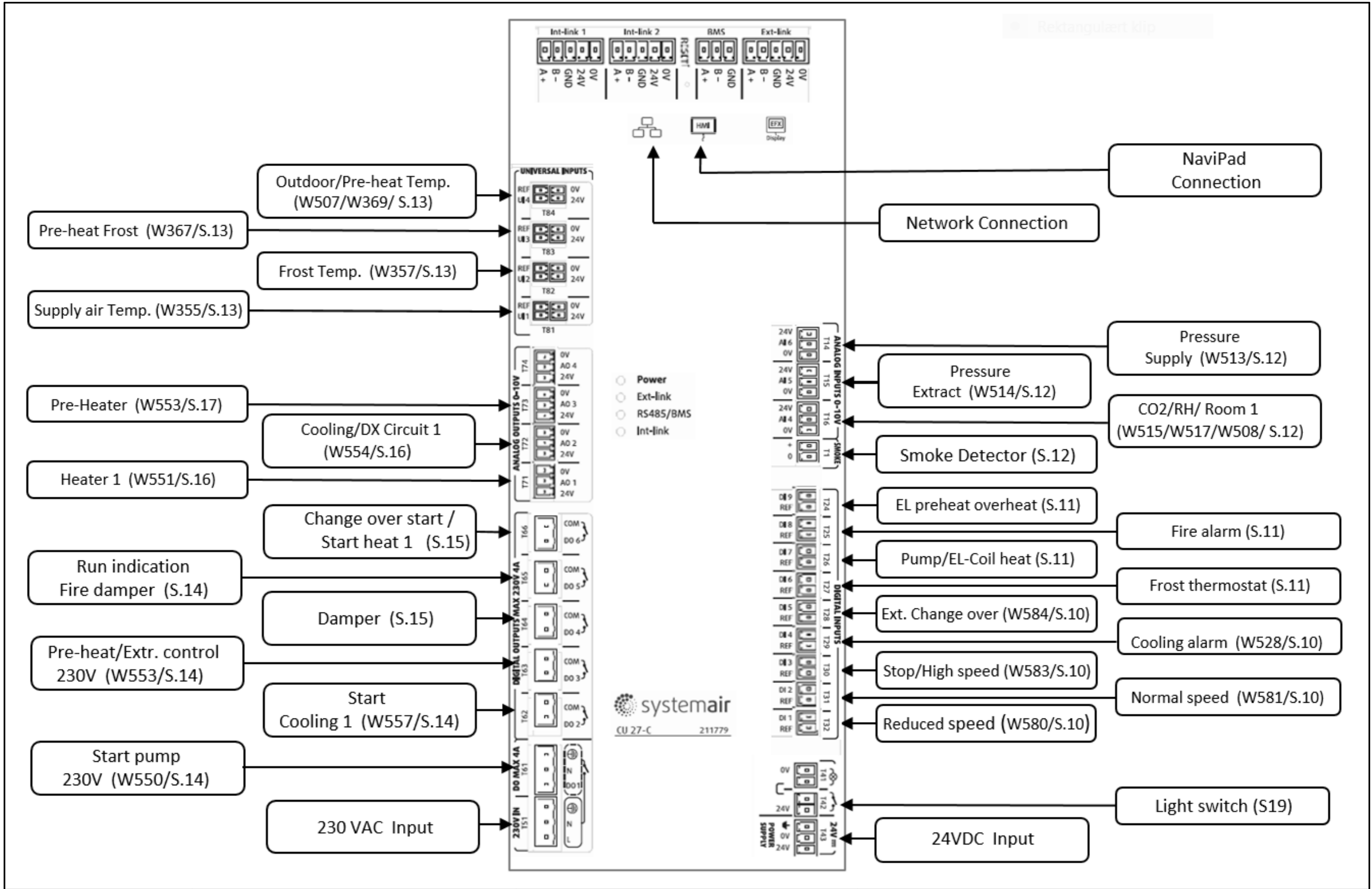
Ik max. an der Sicherung im Gerät:

Siehe schriftliche Bestellung

6 kA

Hersteller:

Systemair A/S, Dänemark
Ved Milepælen 7
8362 Hasselager



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

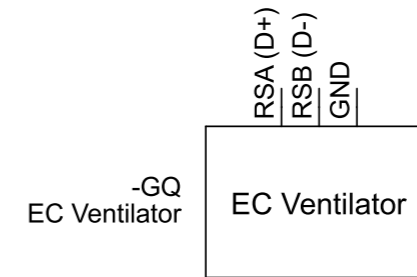
-EA ⚡ Leuchte

-SF ⚡ Stufenschalter

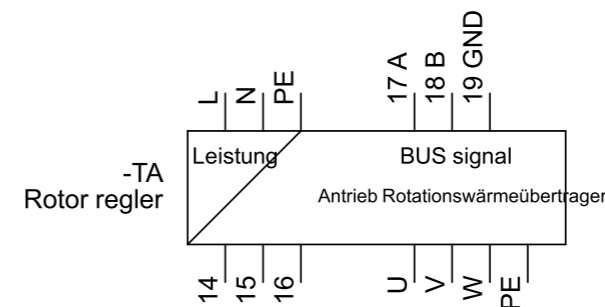
-BP ⚡ Drucktransmitter

-BP ⚡ Pressostat

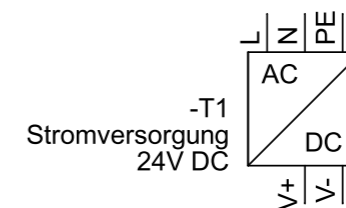
-F ⚡ Sicherungsautomat



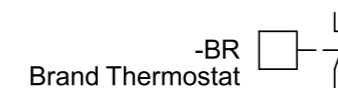
EBM EC Ventilator



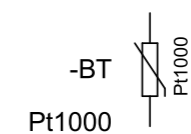
Rotationswärmetauscher



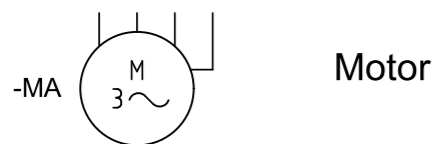
Stromversorgung



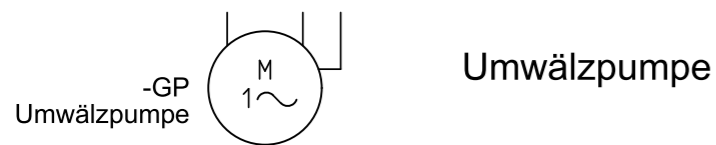
Feuermelder



Temperatur (gemessen)



Motor



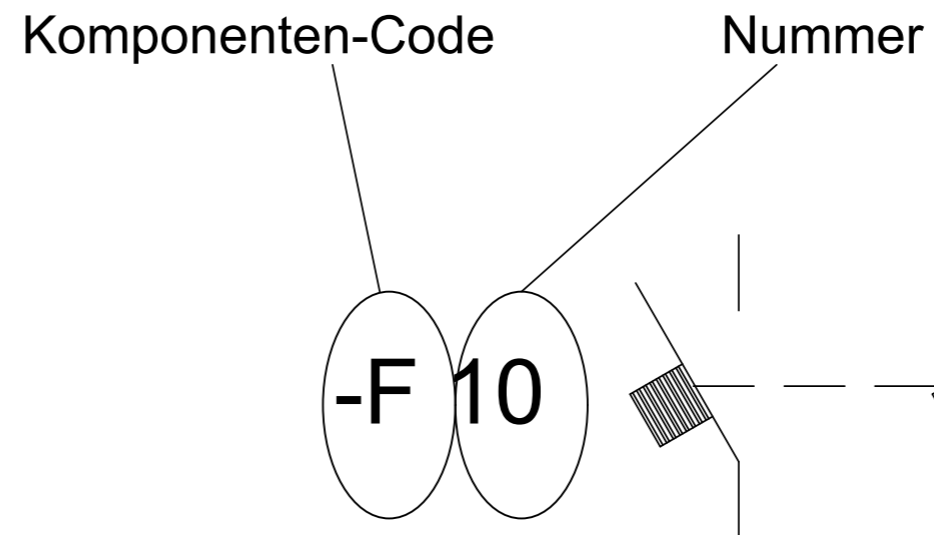
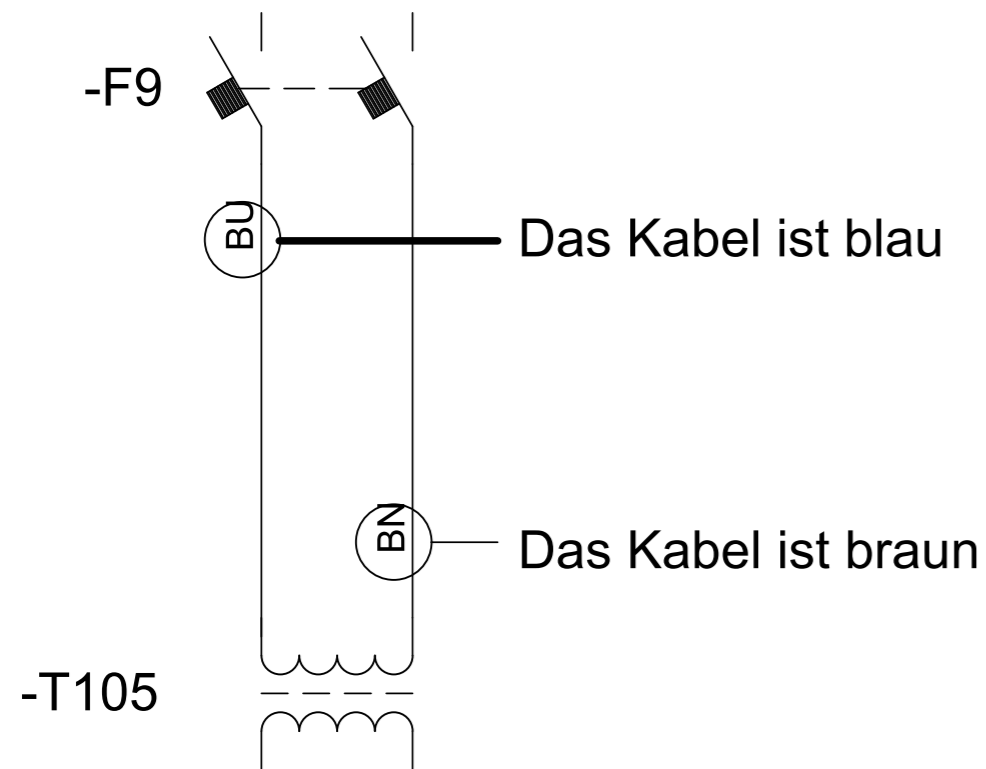
Umwälzpumpe

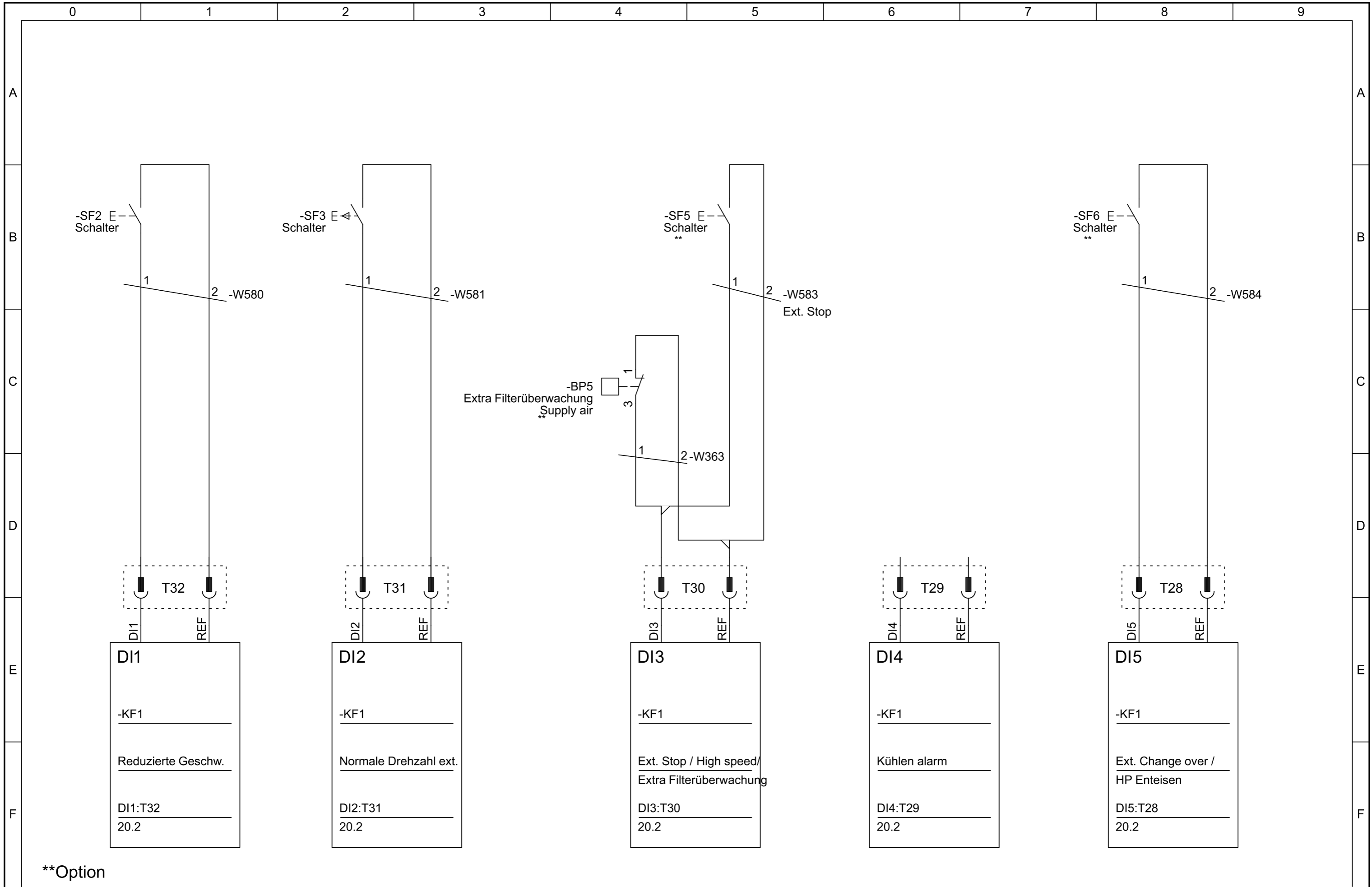


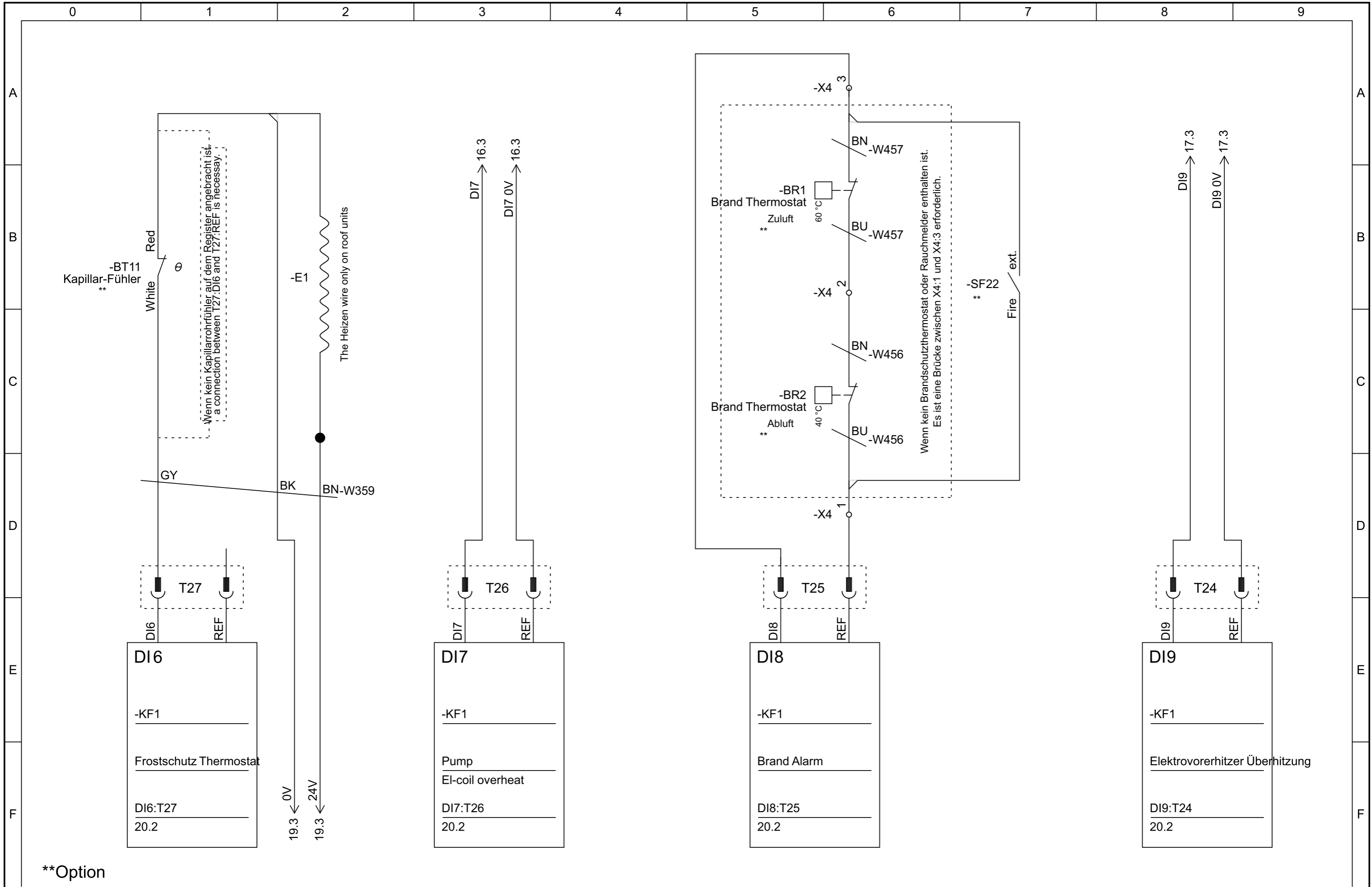
Klappenstellmotor

Labeling of wires are marked with Klemme name

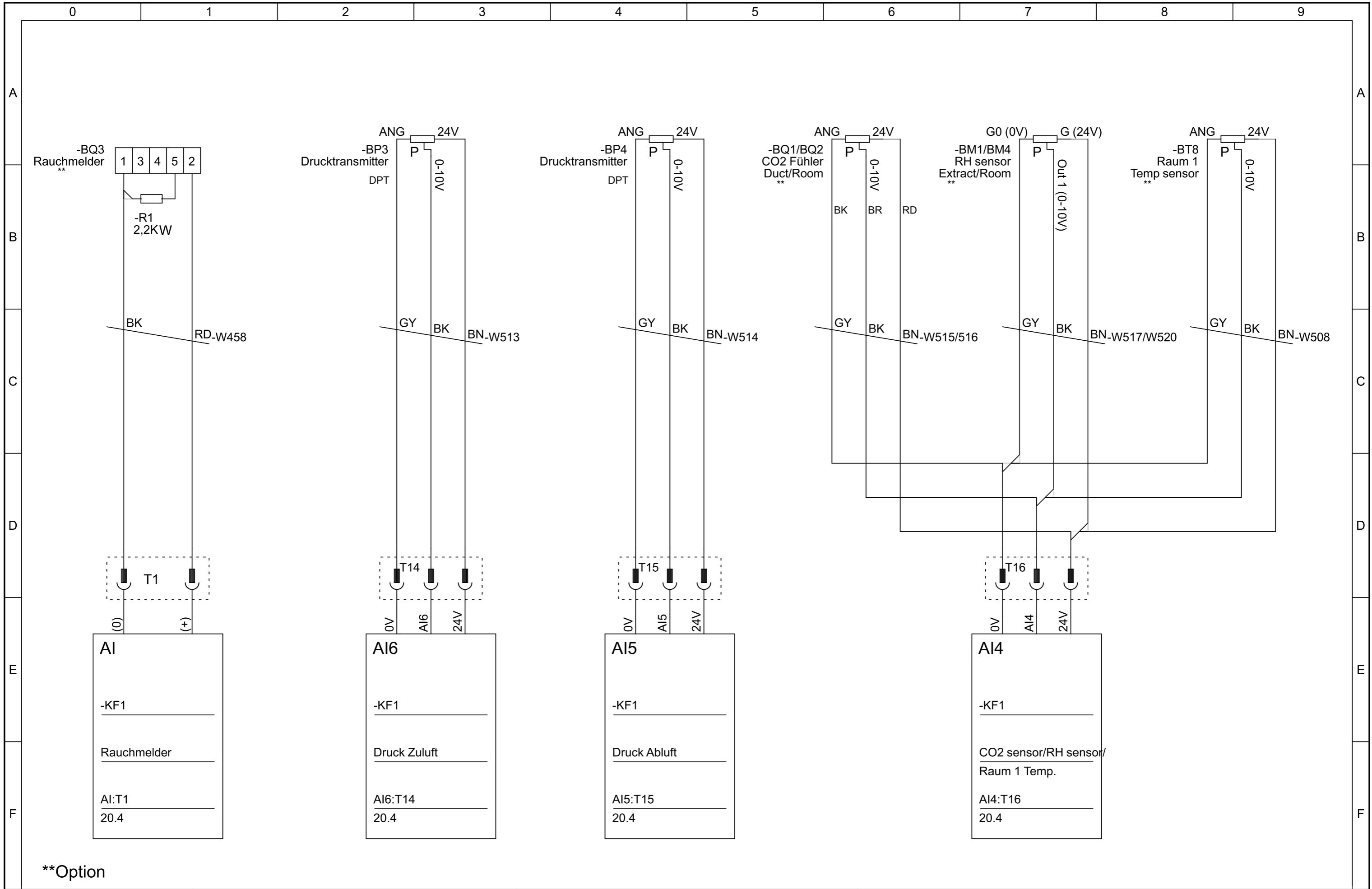
Die Komponenten sind mit Komponenten-Coden markiert gefolgt von einer Nummer nach IEC 61346-1 Tabelle 1



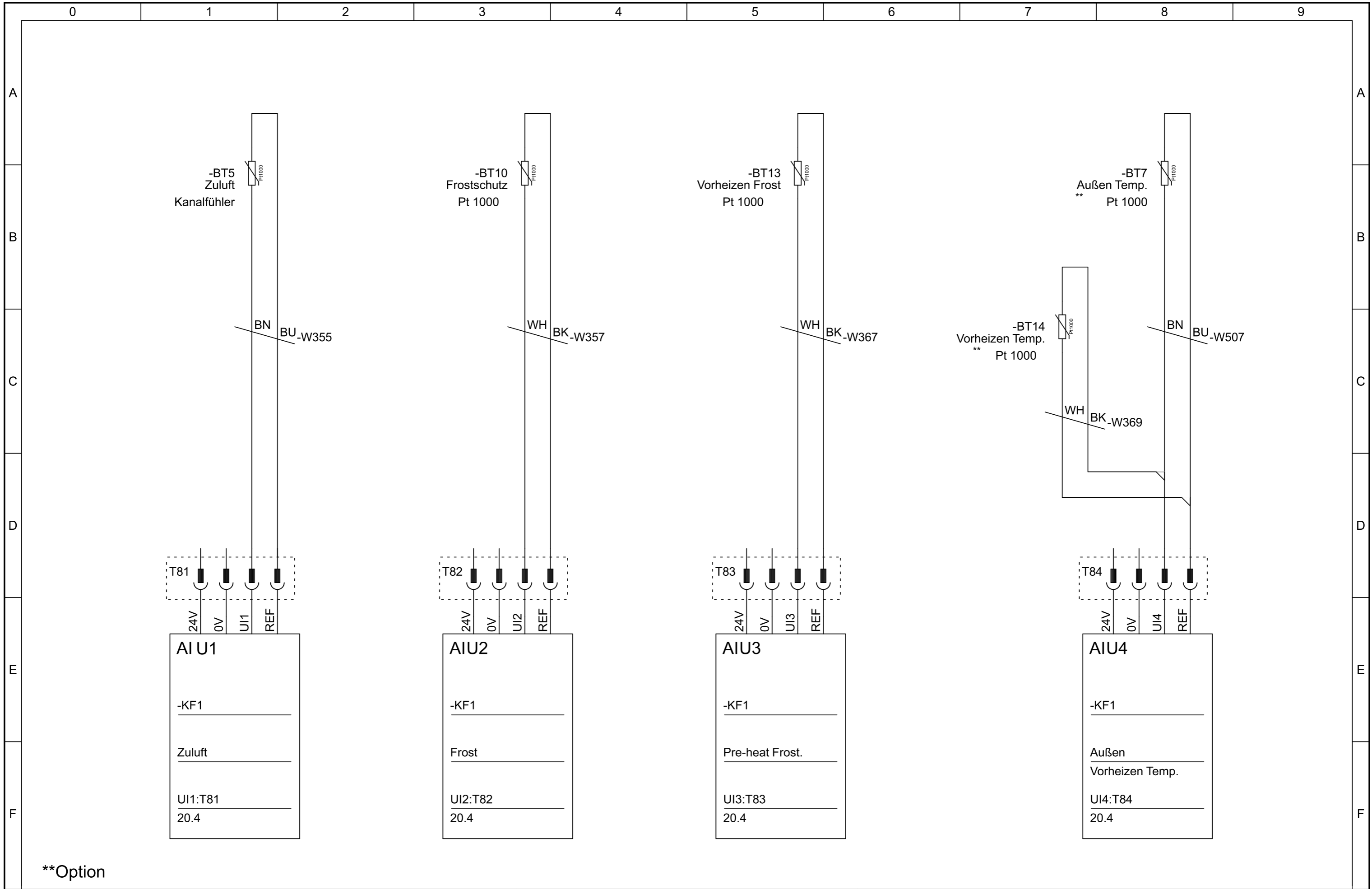




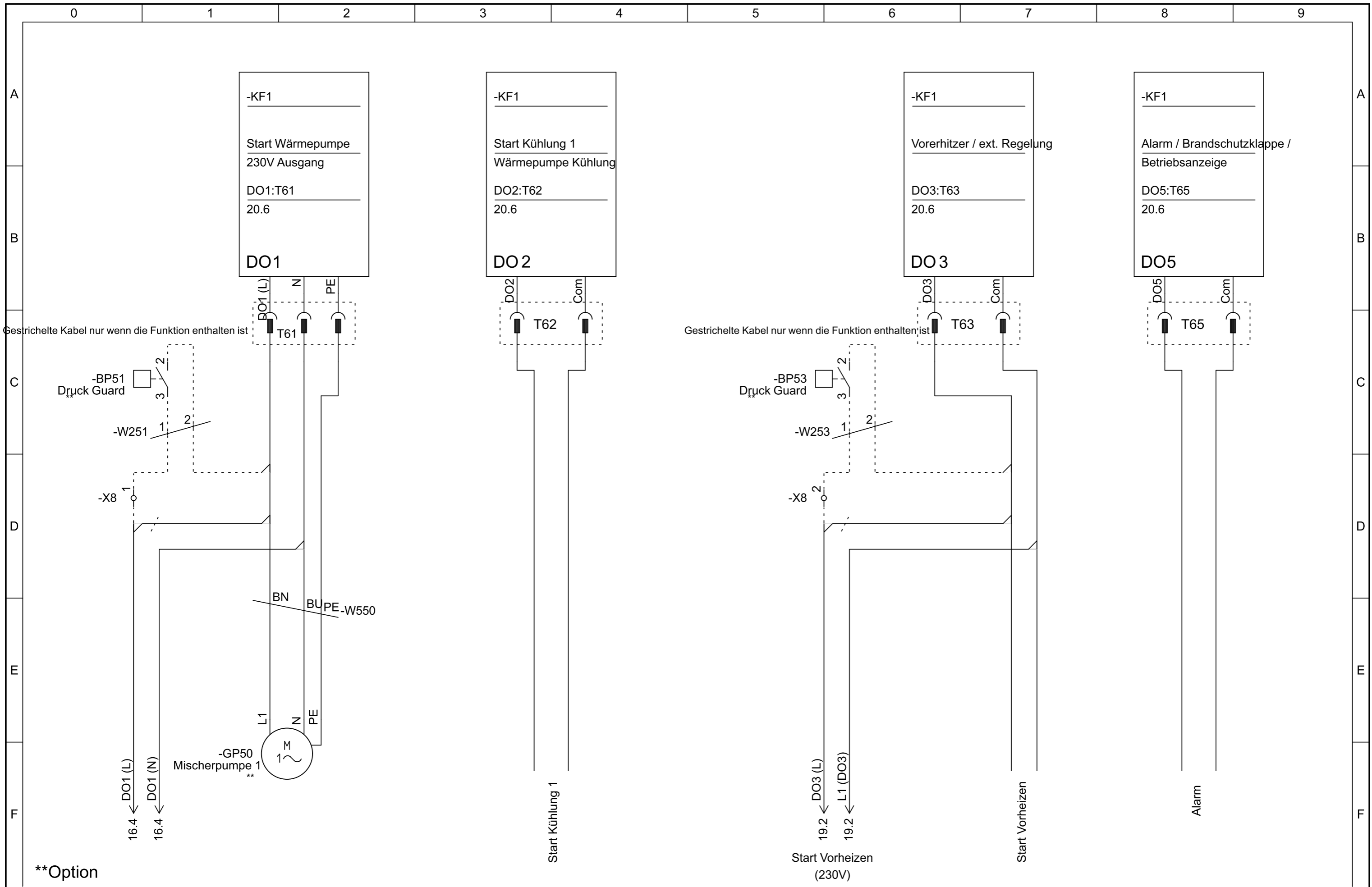
**Option

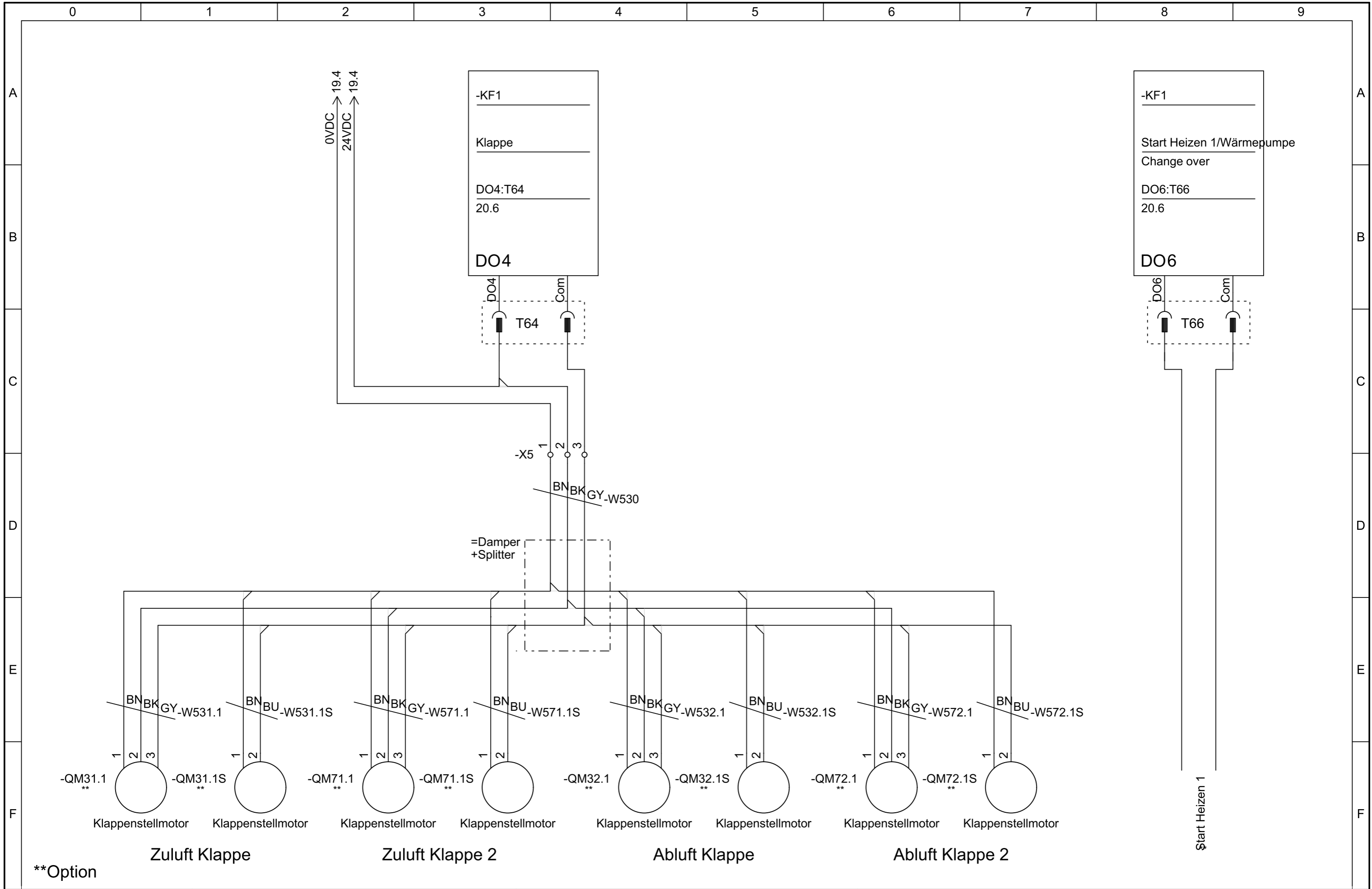


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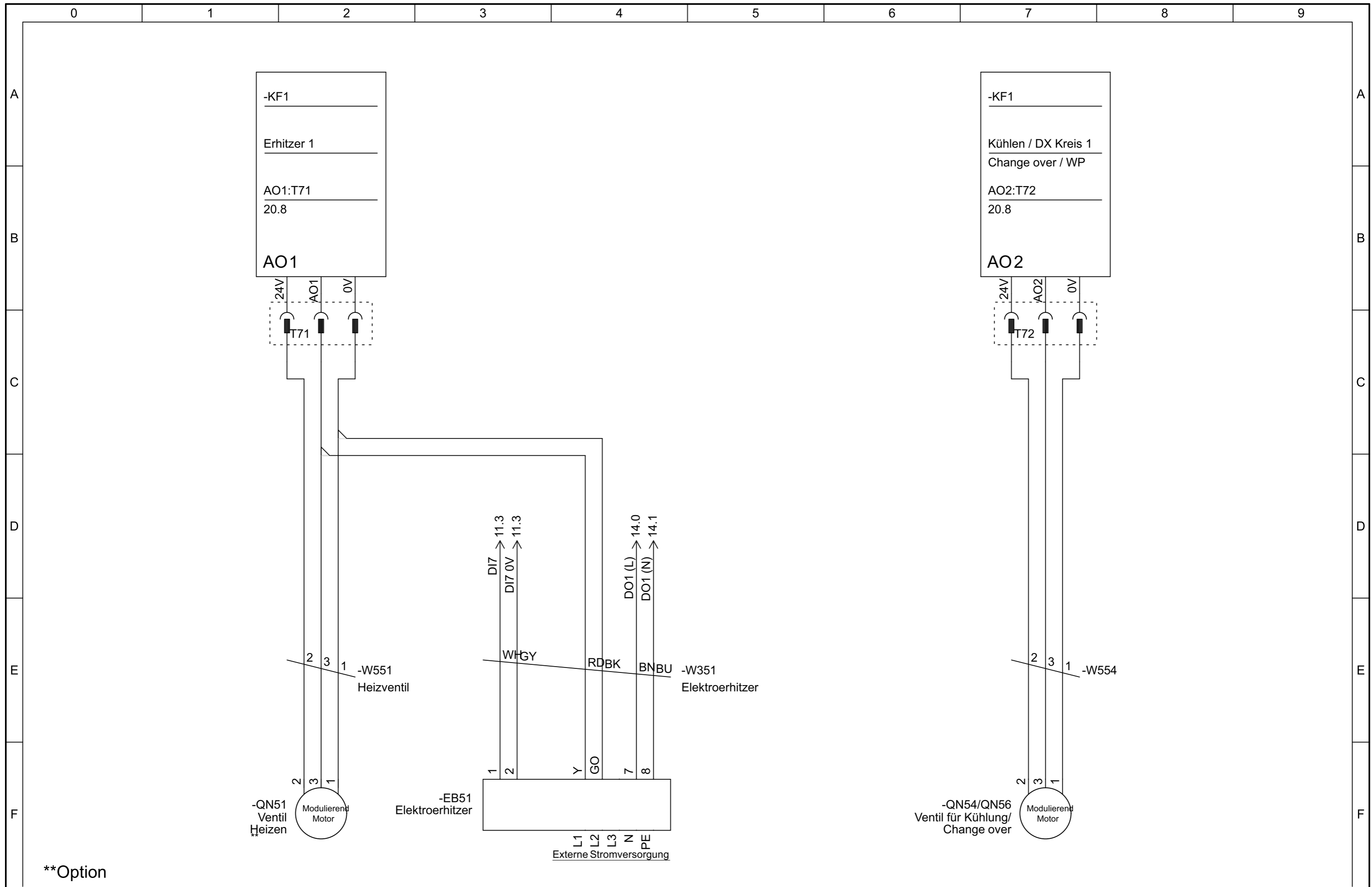


**Option

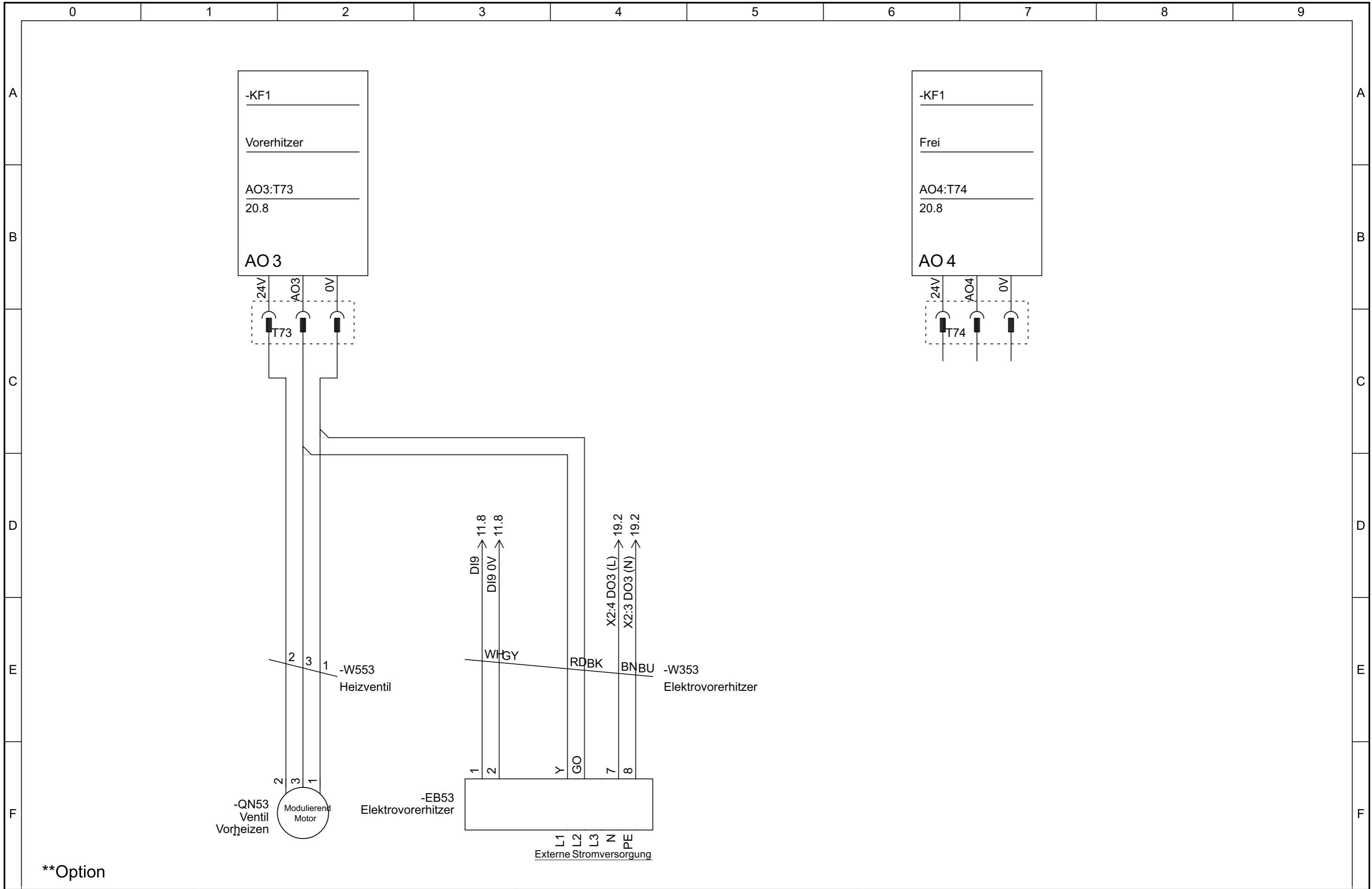




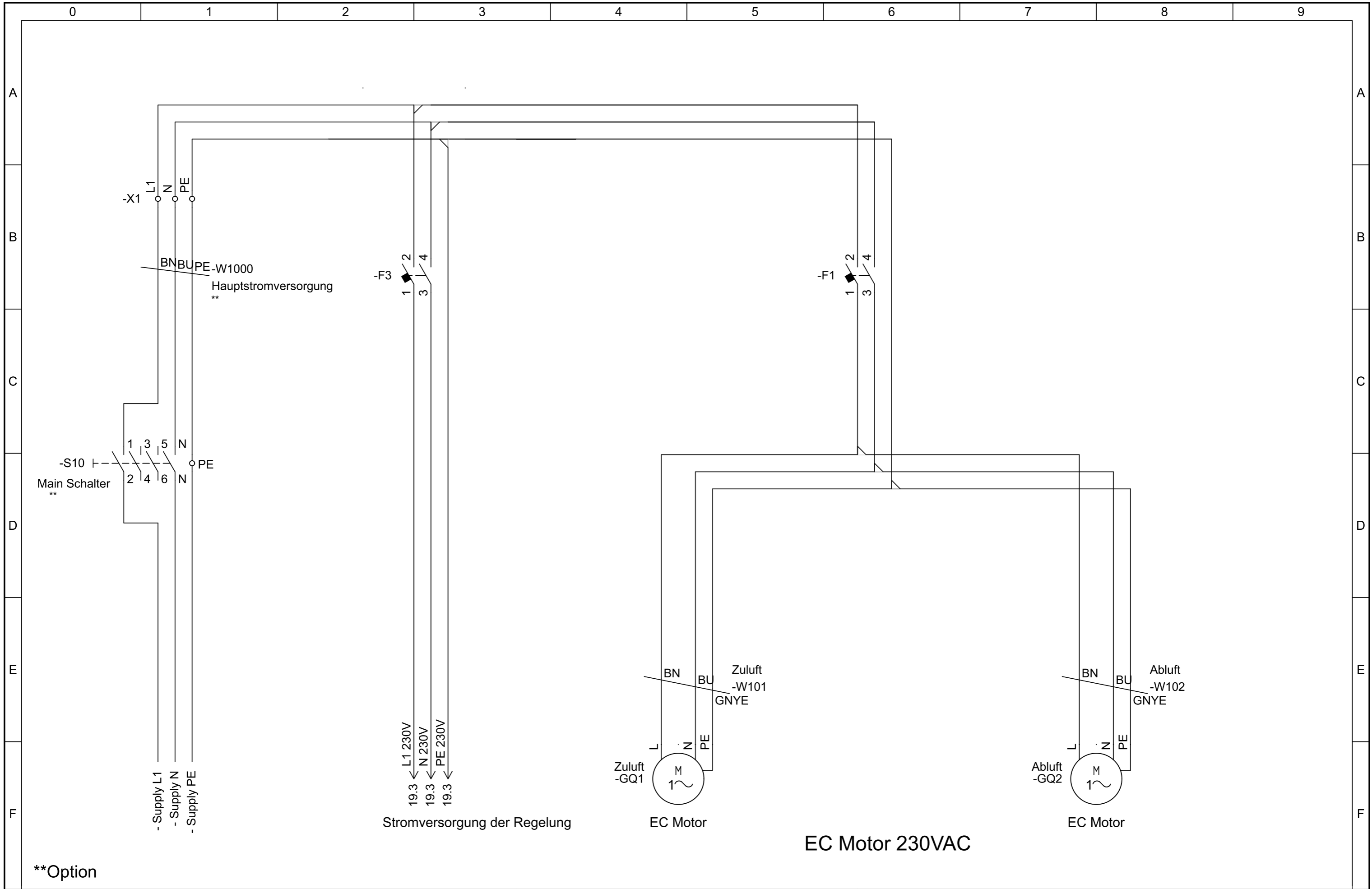
**Option

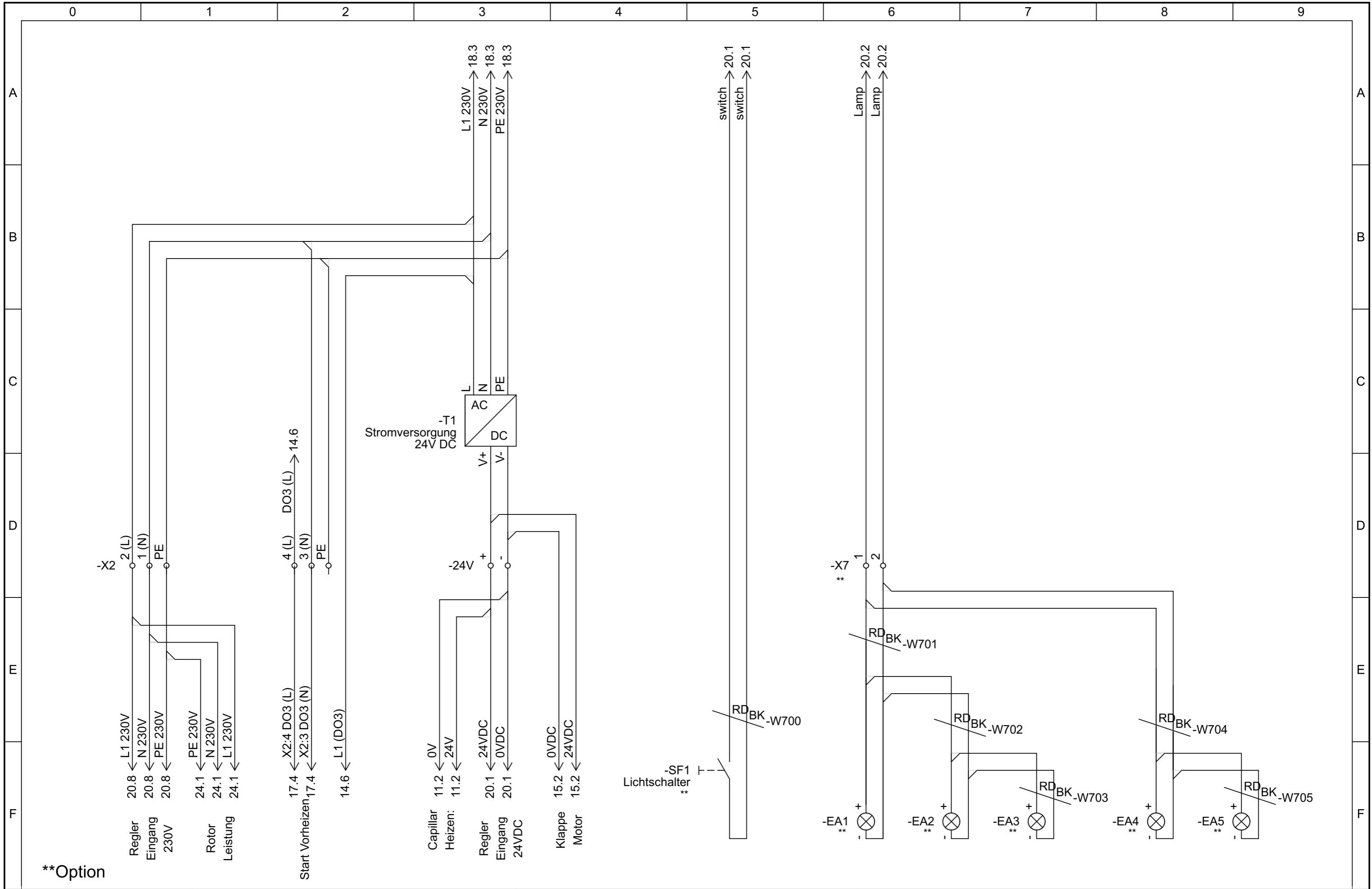


**Option



**Option





**Option

-KF1

Access CU27 Regler

Systemair A/S

DI1:T32 10.1 DI1
Reduzierte Geschw.



AI:T1 12.0 (0)
Rauchmelder



DO1:T61 14.1 DO1 (L)
Start Wärmepumpe
230V Ausgang



AO1:T71 16.2 24V
Erhitzer 1



DI2:T31 10.2 DI2
Normale Drehzahl ext.



AI6:T14 12.2 0V
Druck Zuluft



DO2:T62 14.3 DO2
Start Kühlung 1
Wärmepumpe Kühlung



AO2:T72 16.7 24V
Kühlen / DX Kreis 1
Change over / WP



DI3:T30 10.4 DI3
Ext. Stop / High speed/
Extra Filterüberwachung



AI5:T15 12.4 0V
Druck Abluft



DO3:T63 14.6 DO3
Vorerhitzer / ext. Regelung



AO3:T73 17.1 24V
Vorerhitzer



DI4:T29 10.6 DI4
Kühlen alarm



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



DO4:T64 15.3 DO4
Klappe



AO4:T74 17.6 24V
Frei



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



UI1:T81 13.1 24V
Zuluft



DO5:T65 14.8 DO5
Alarm / Brandschutzklappe /
Betriebsanzeige



DI6:T27 11.1 DI6
Frostschutz Thermostat



UI2:T82 13.3 24V
Frost



DO6:T66 15.8 DO6
Start Heizen 1/Wärmepumpe
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
Außen
Vorheizen Temp.



DI9:T24 11.8 DI9
Elektrovorerhitzer Überhitzung



24VDC Eingang

Light

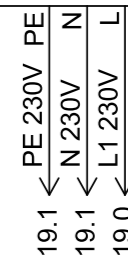
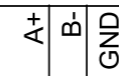
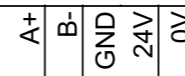
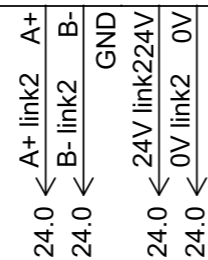
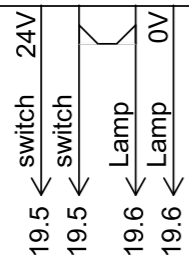
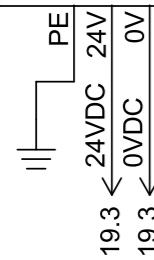
Int-link 1

Int-link 2

Ext-link

GLT

230V Eingang



Geniox
Access CU27 Regler

Access CU27 Regler

Projekt: Geniox-Core CS 43.04.02 230V DE

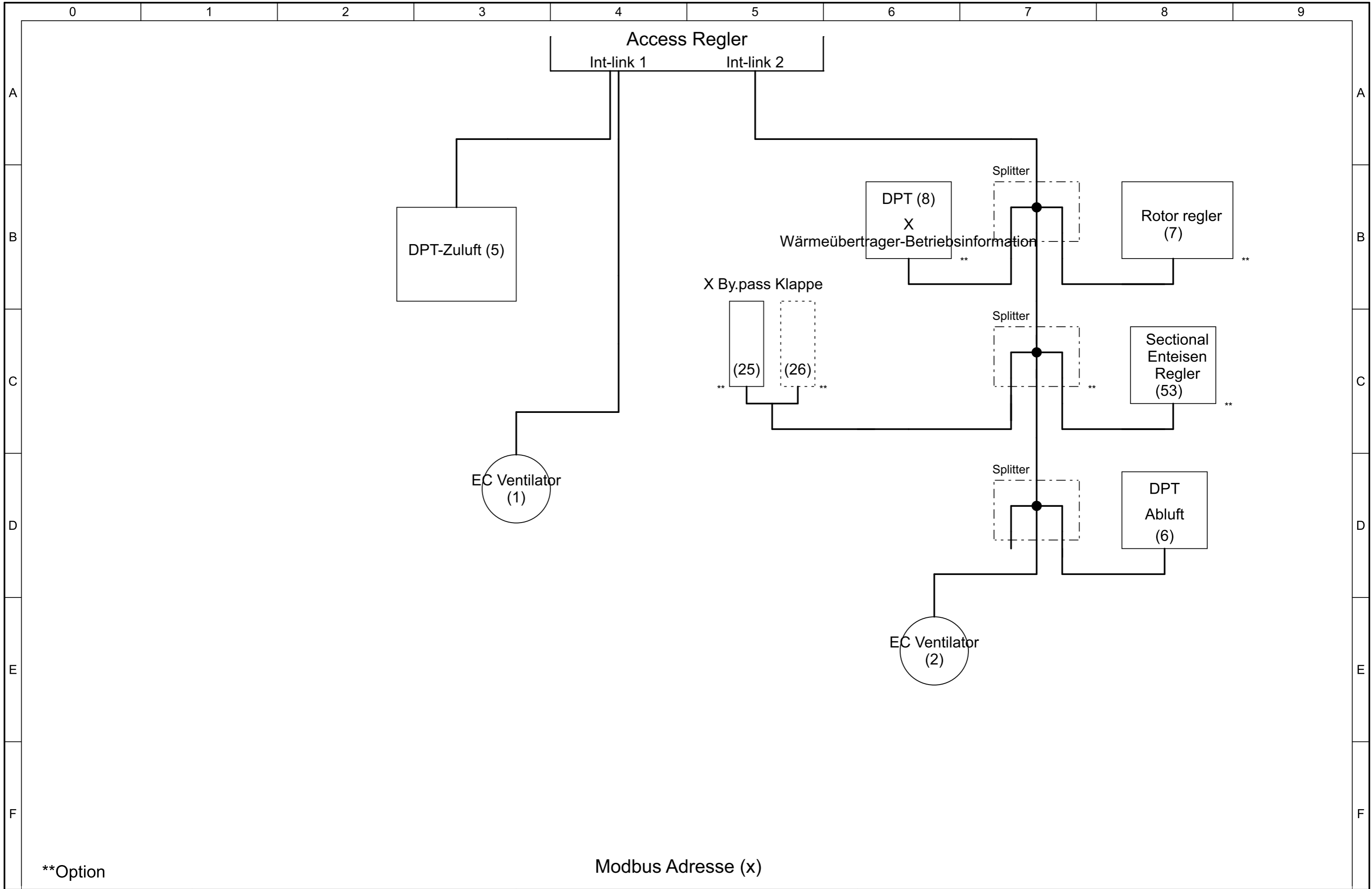
Rev.: 43.04.02

Blatt: 20

Datum: 06-11-2019

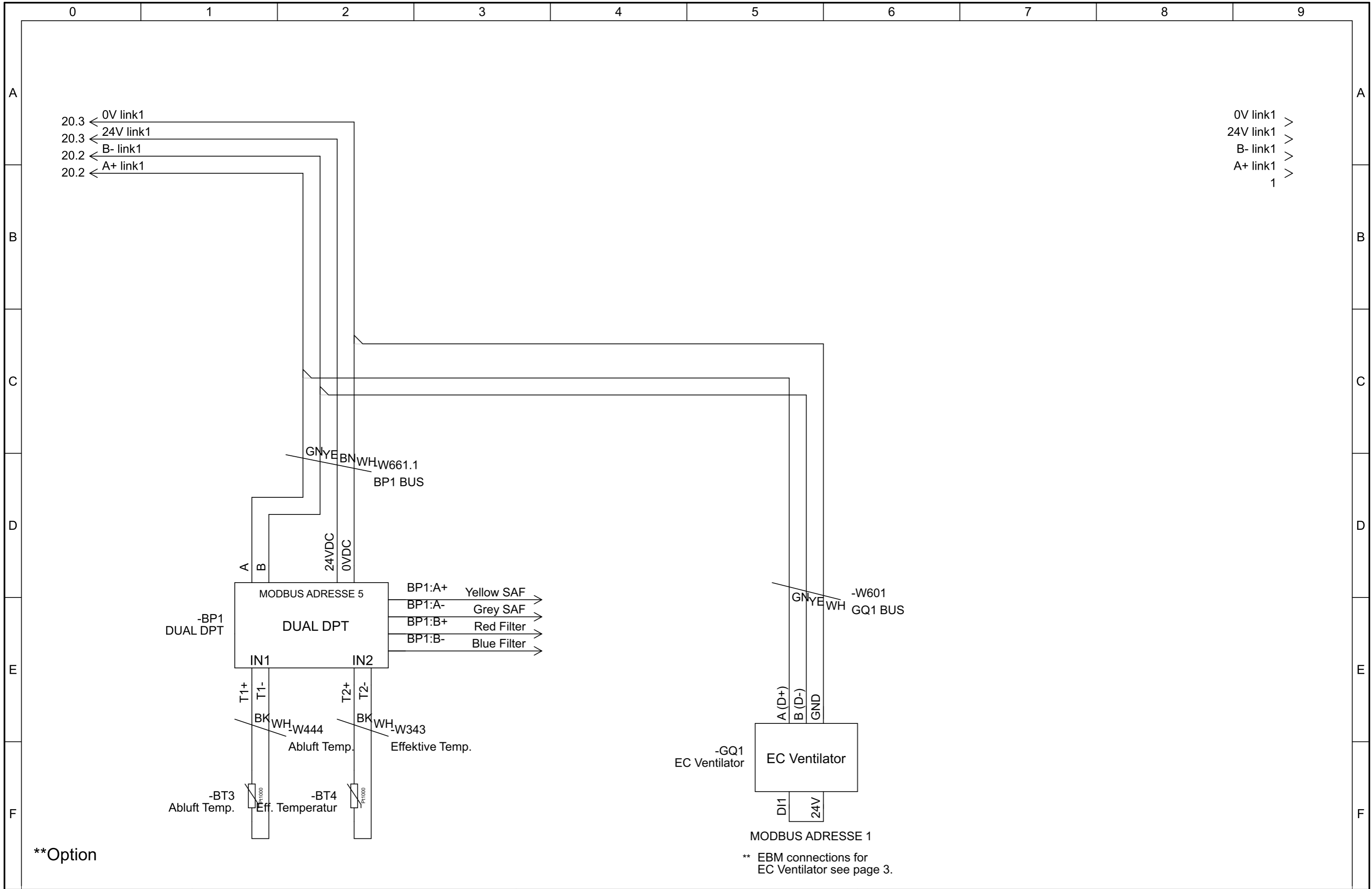
Initialien: MIKE

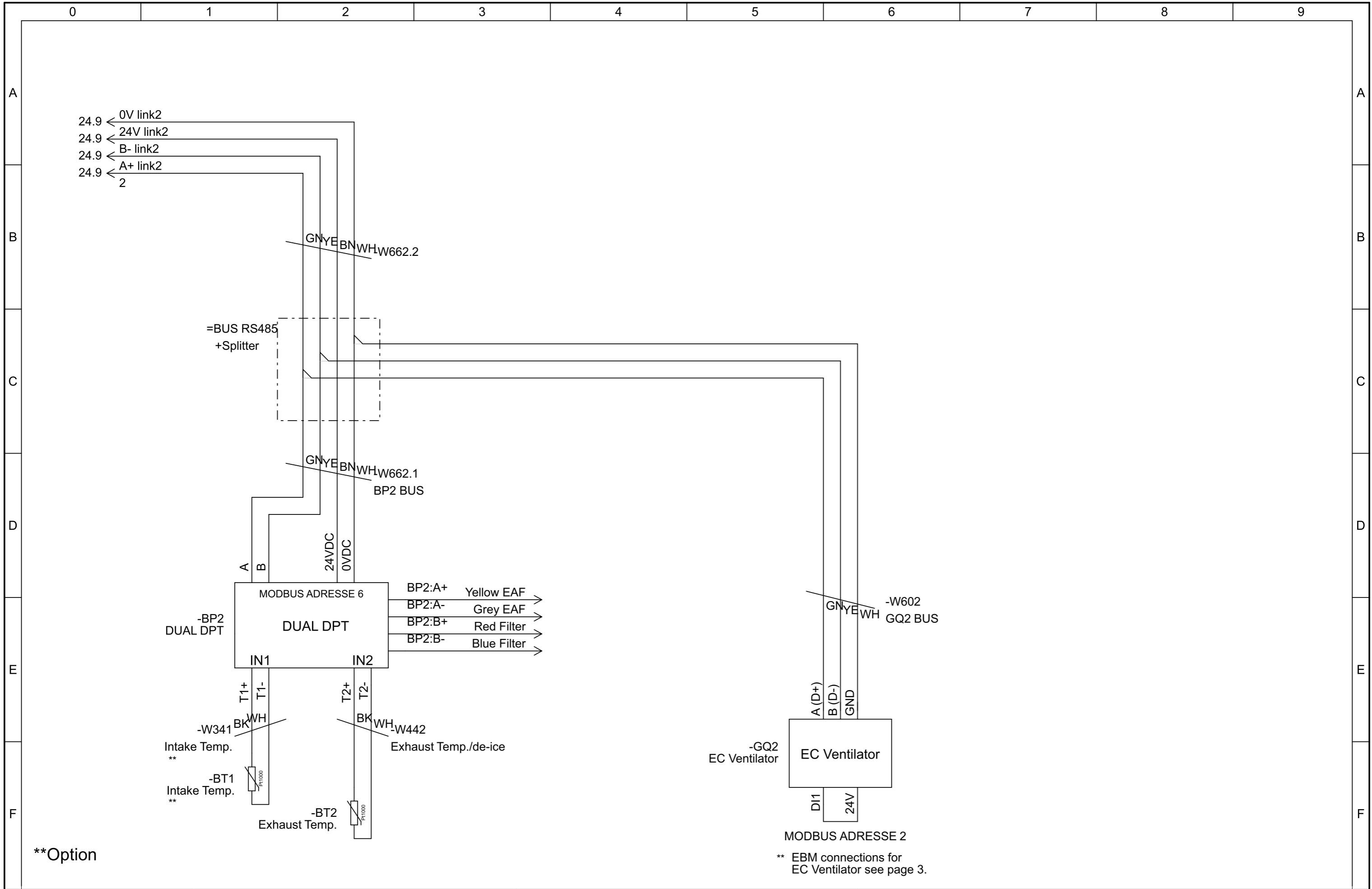
Gesamt Unterlage: 17
Nächstes Blatt: 21

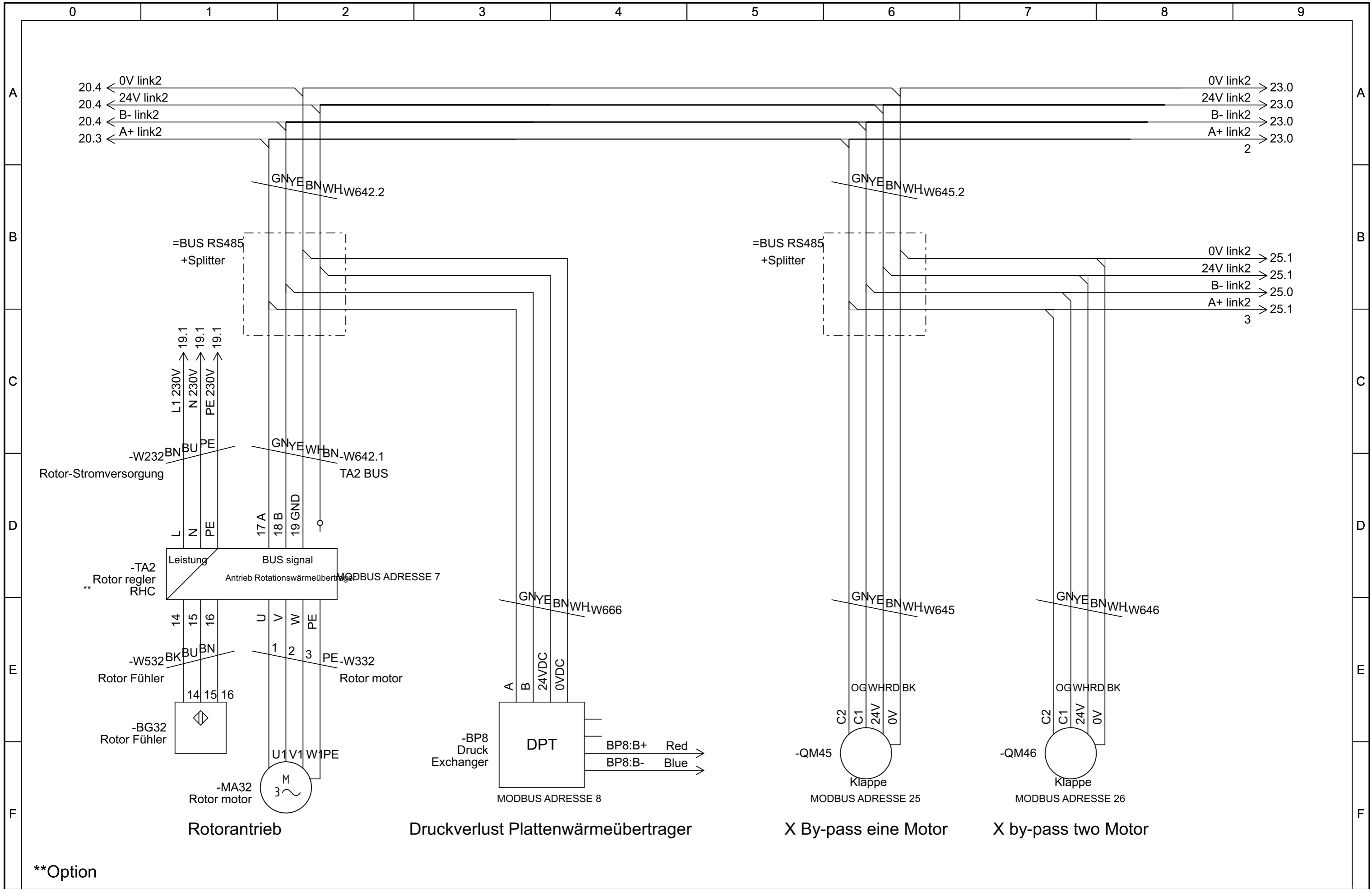


**Option

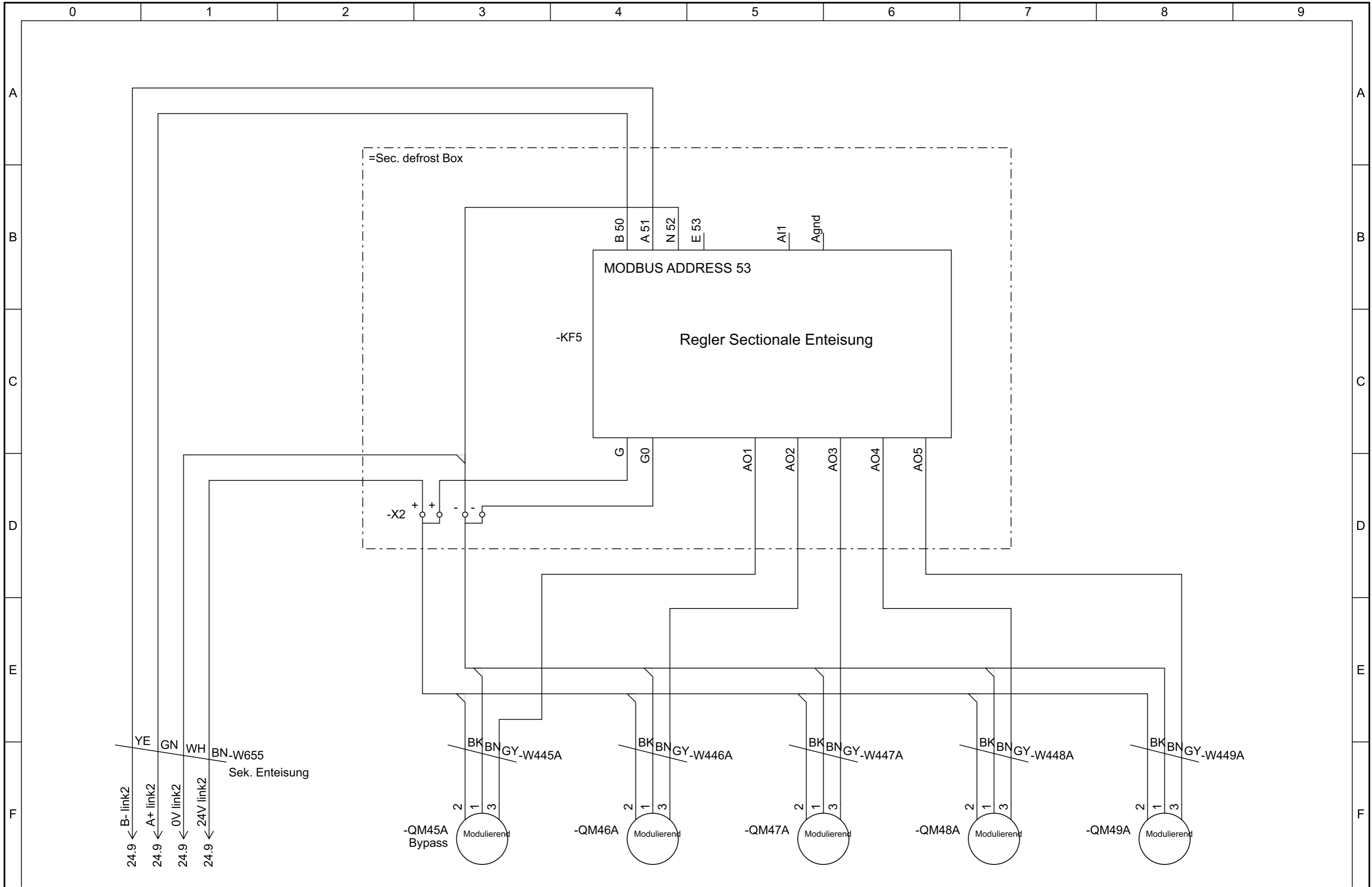
Modbus Adresse (x)







**Option



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.

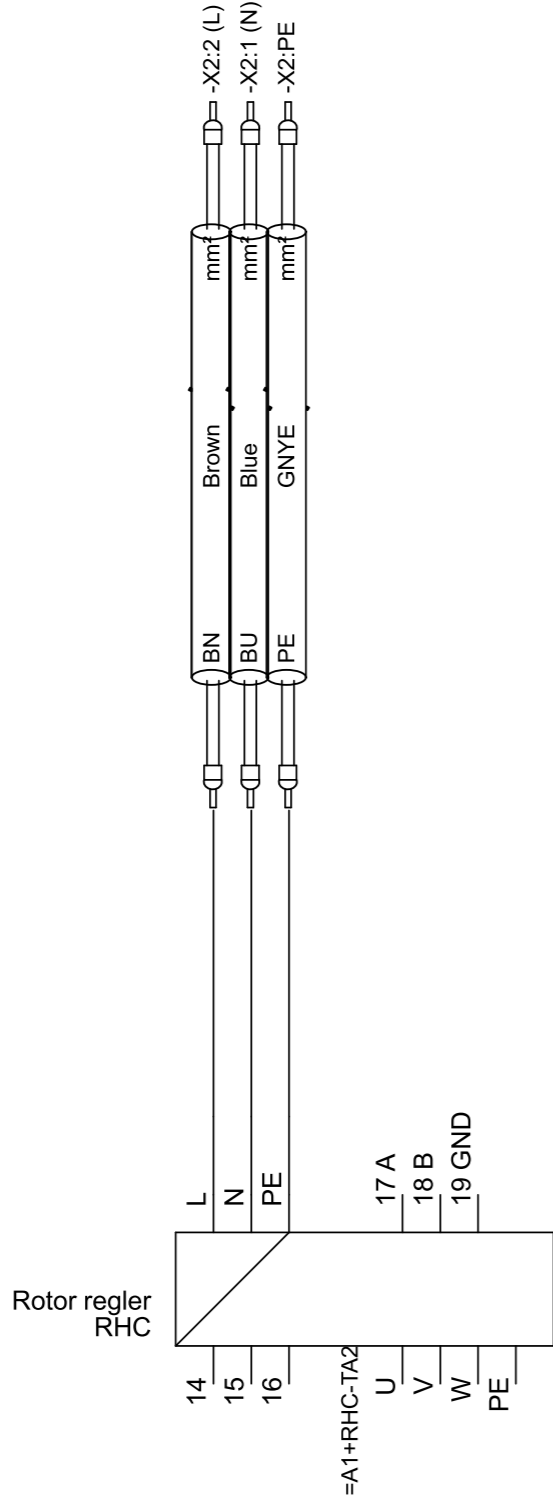


Anschlussplan

Pfad
Blatt

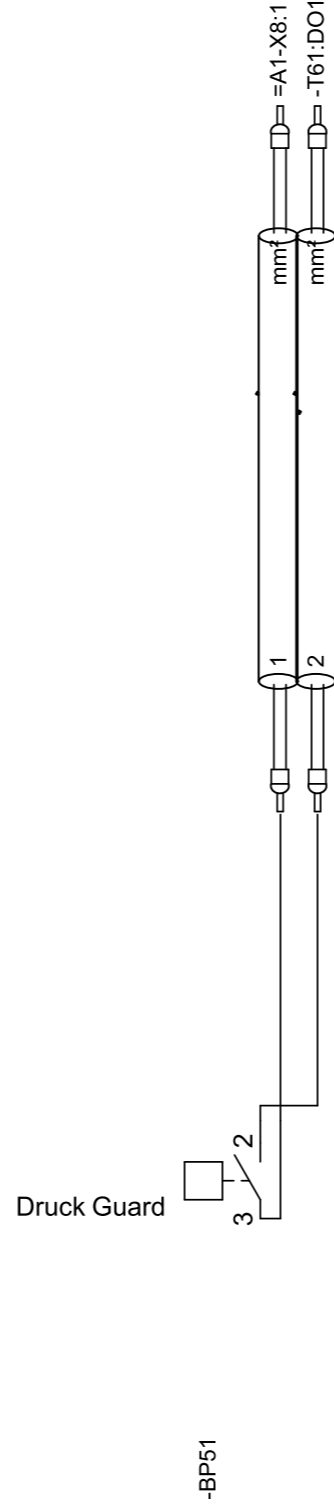
Anmerkung: Rotor-Stromversorgung
Cable-type:

-W232



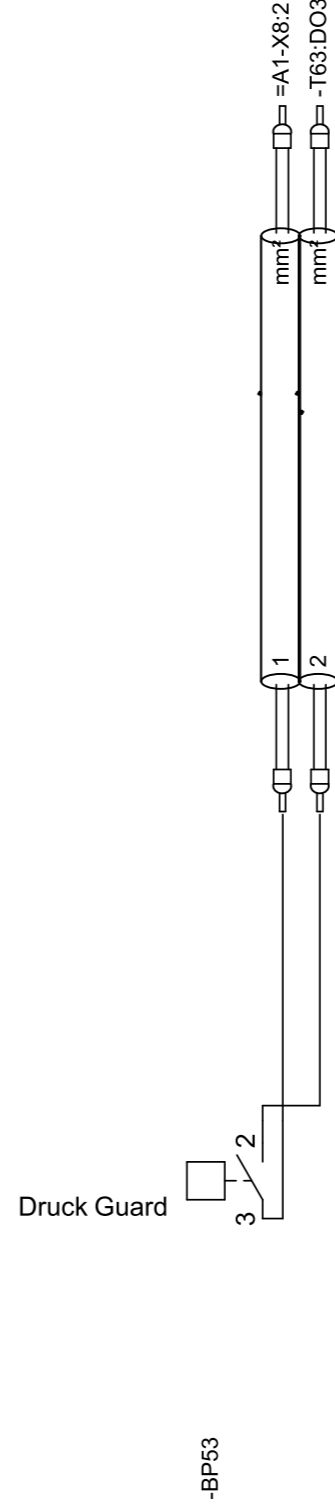
-W251

Anmerkung:
Cable-type:



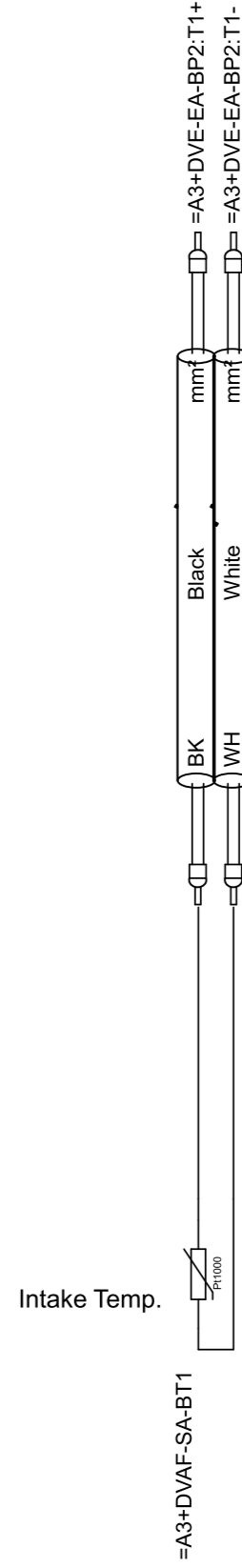
-W253

Anmerkung:
Cable-type:



-W341

Anmerkung: Intake Temp.
Cable-type:



Blatt	24	24	24	14	14	14	14	23	23
Pfad	1	1	1	1	1	6	6	1	1

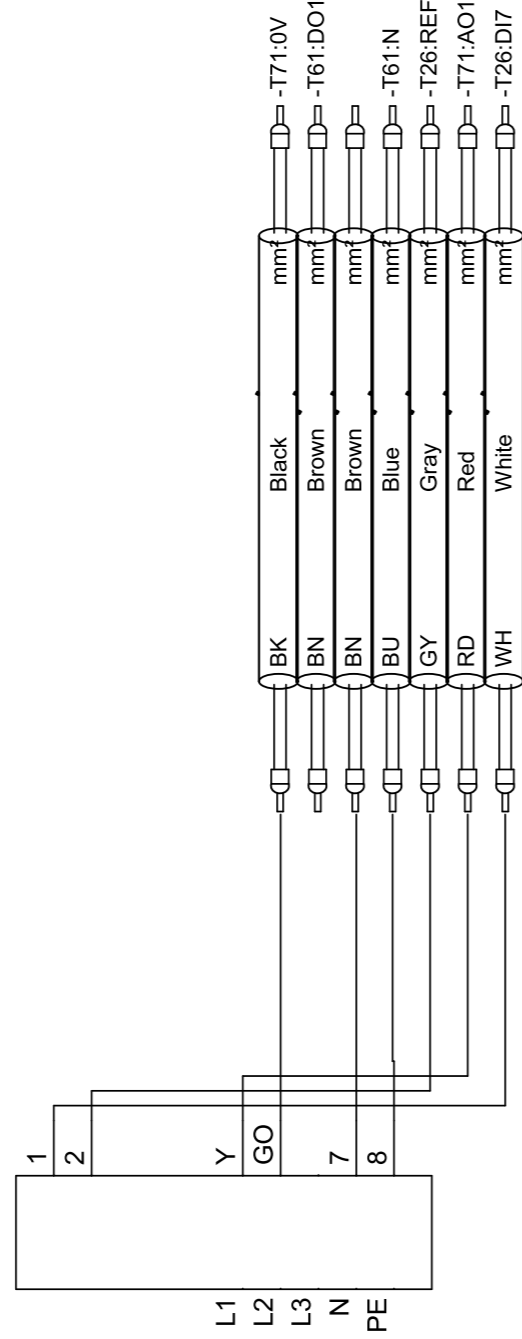
Anschlussplan

Pfad
Blatt

Anmerkung: Elektroerhitzer
Cable-type:

-W351

Elektroerhitzer



-EB51

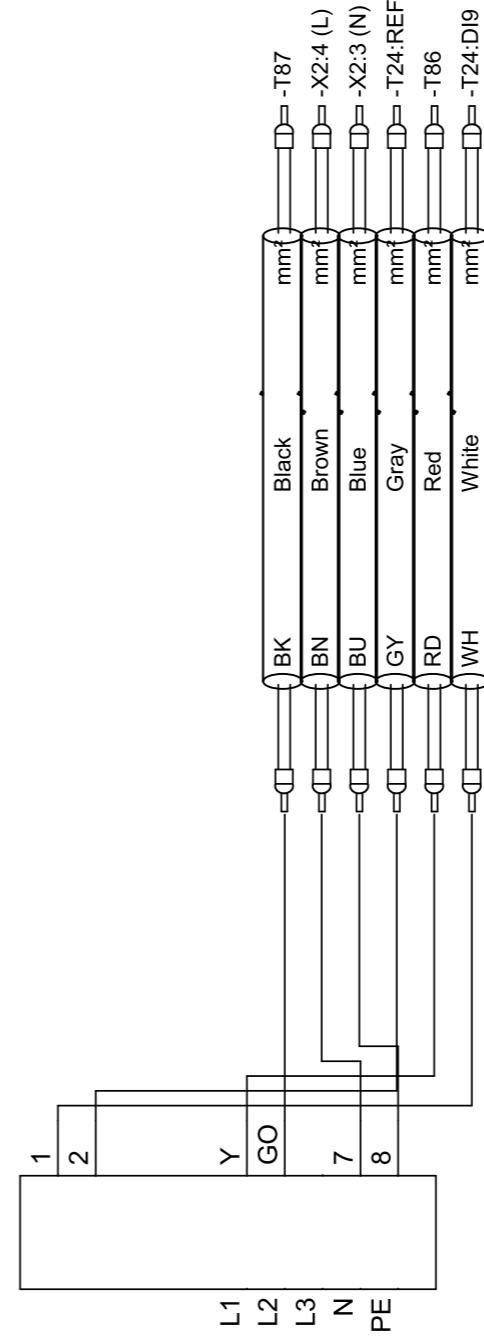
16
16
16
16
16
16
16

4
4
4
4
3
4
3

-W353

Anmerkung: Elektroerhitzer
Cable-type:

Elektroerhitzer



-EB53

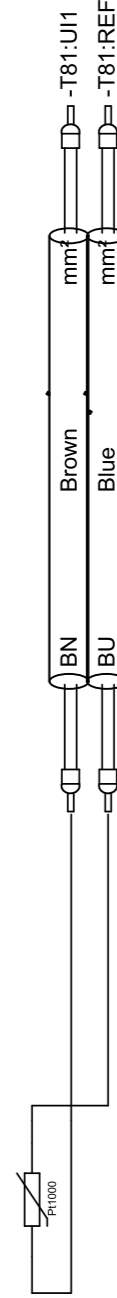
17
17
17
17
17
17

4
4
4
3
4
3

-W355

Anmerkung: Temperaturfühler Zuluft
Cable-type:

Zuluft
Kanalfühler



-BT5

13
13

1
2

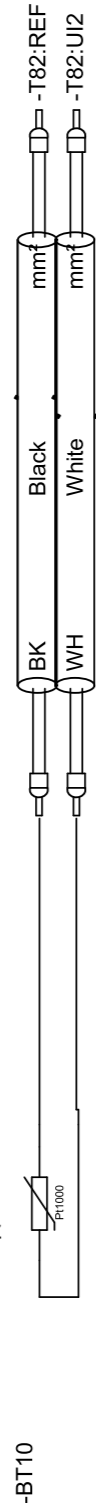
Anschlussplan

Pfad
Blatt

Anmerkung: Frostschutz Heizregister
Cable-type:

-W357

Frostschutz
Pt 1000

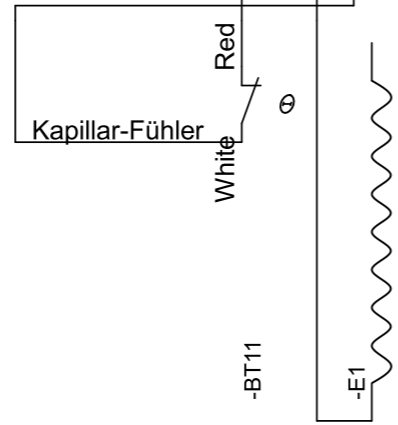


-BT10

4
3
13
13

-W359

Anmerkung: Frostschutz Thermostat
Cable-type:



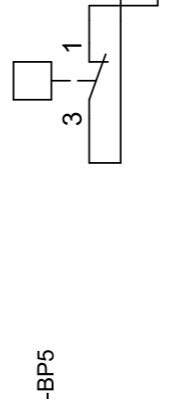
-BT11

2
2
1
11
11
11

-W363

Anmerkung: Extra Filterüberwachung
Cable-type:

Extra Filterüberwachung
Supply air



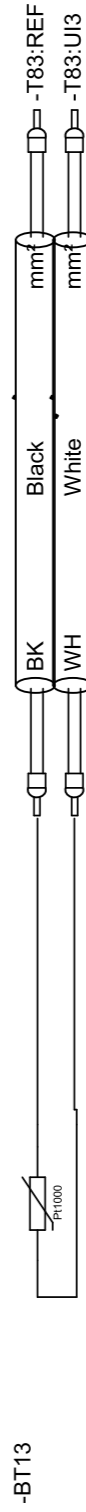
-BP5

4
4
10
10

-W367

Anmerkung: Vorheizen Frost
Cable-type:

Vorheizen Frost
Pt 1000



-BT13

6
5
13
13

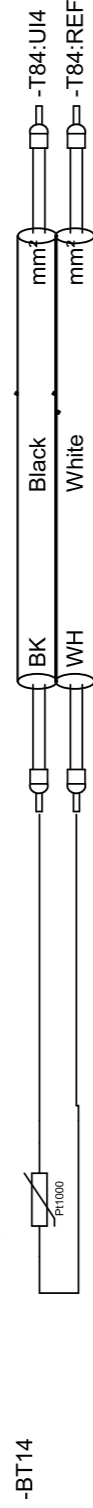
Anschlussplan

Pfad
Blatt

Anmerkung: Vorerhitzer Temp.
Cable-type:

-W369

Vorheizen Temp.
Pt 1000



-BT14

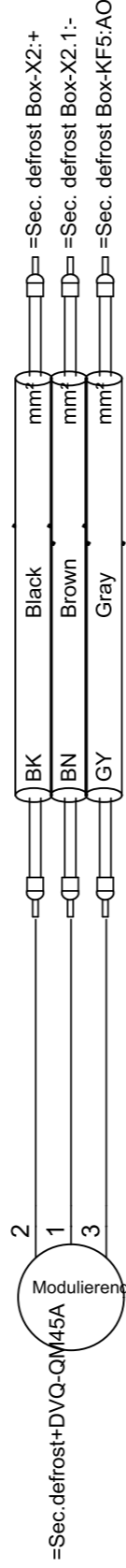
13
13

7
7

-W445A

Anmerkung:
Cable-type:

Bypass



=Sec. defrost+DVQ-QM45A
=Sec. defrost Box-X2.1:-
=Sec. defrost Box-KF5:AO

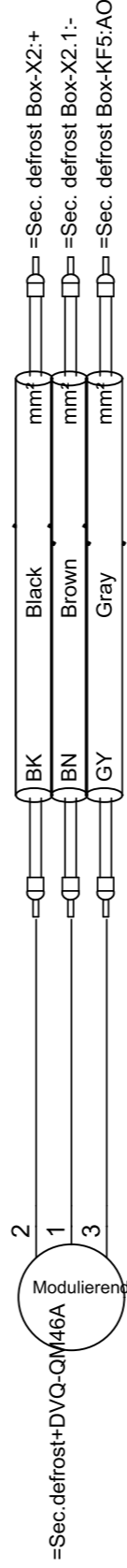
25
25
25

3
3
3

-W446A

Anmerkung:
Cable-type:

Modulierend



=Sec. defrost+DVQ-QM46A
=Sec. defrost Box-X2.1:-
=Sec. defrost Box-KF5:AO

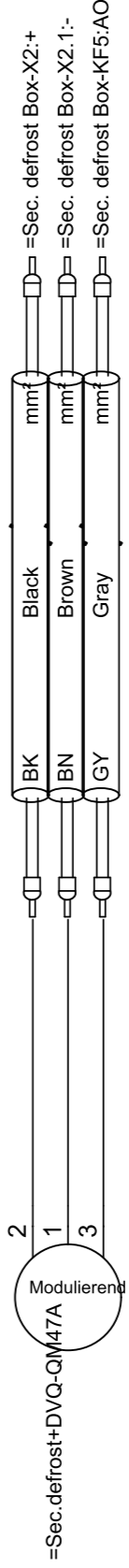
25
25
25

4
4
4

-W447A

Anmerkung:
Cable-type:

Modulierend



=Sec. defrost+DVQ-QM47A
=Sec. defrost Box-X2.1:-
=Sec. defrost Box-KF5:AO

25
25
25

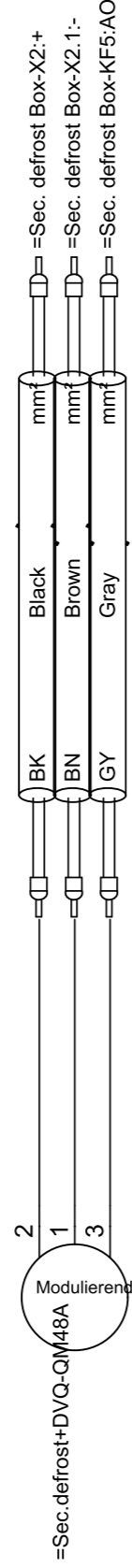
5
6
6

Anschlussplan

Pfad	Blatt
7	25
7	25
7	25
8	25
8	25
8	25
6	11
6	11
6	11
6	11

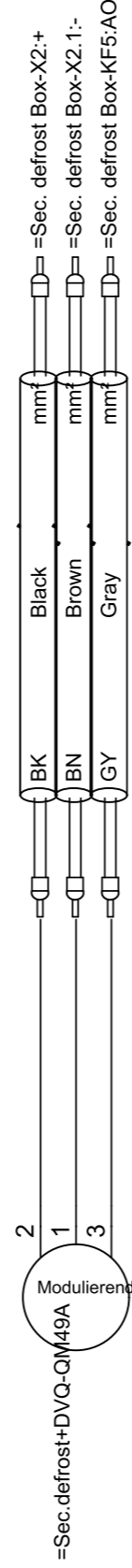
-W448A

Anmerkung:
Cable-type:



-W449A

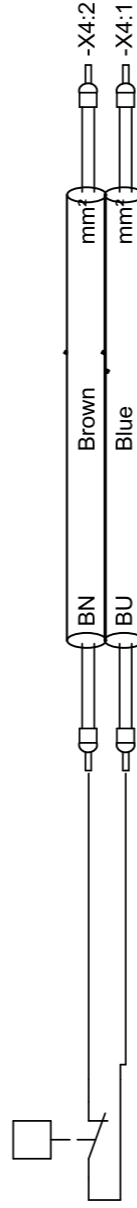
Anmerkung:
Cable-type:



-W456

Anmerkung: Brandschutzthermostat Abluft
Cable-type:

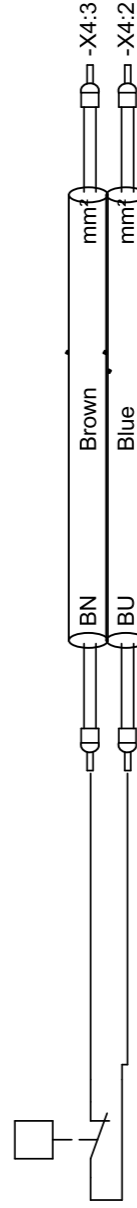
Brand Thermostat



-W457

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

Brand Thermostat

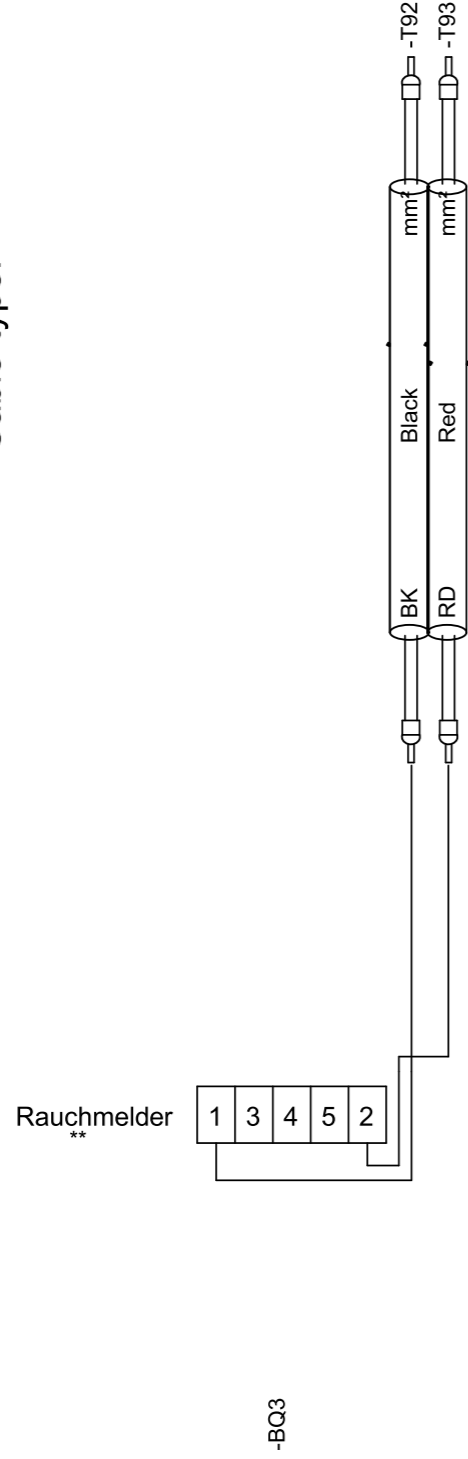


Anschlussplan

Pfad	0	1	8	8	9	9	8	3	3	2
Blatt	12	12	13	13	12	12	12	12	12	12

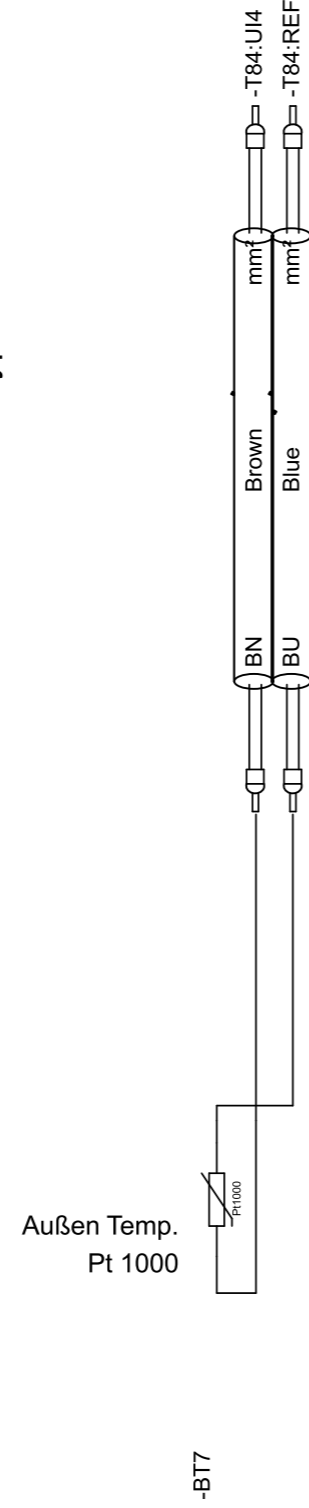
Anmerkung: Rauchmelder
Cable-type:

-W458



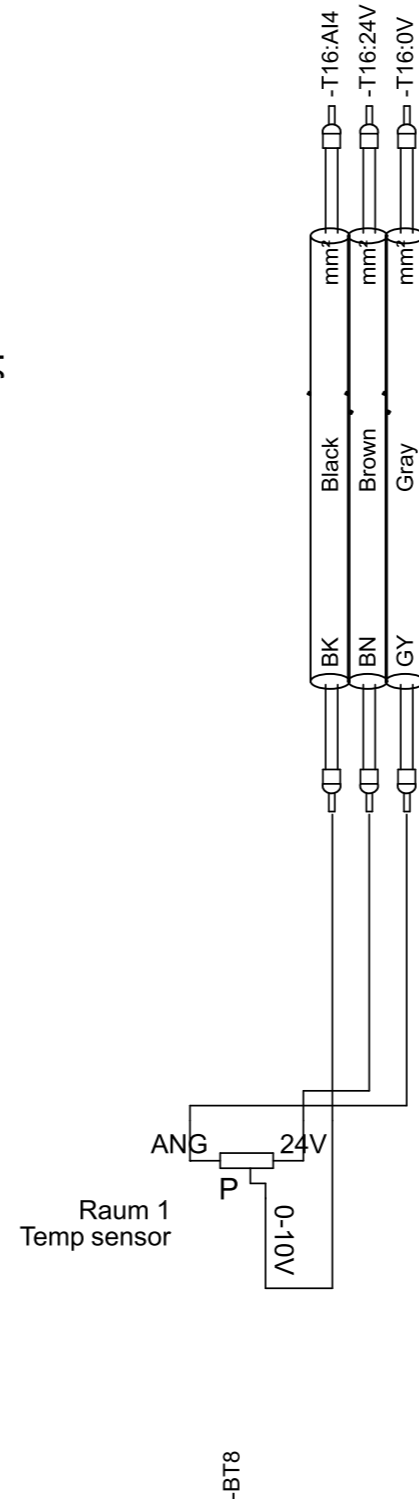
Anmerkung: Außenluft-Fühler
Cable-type:

-W507



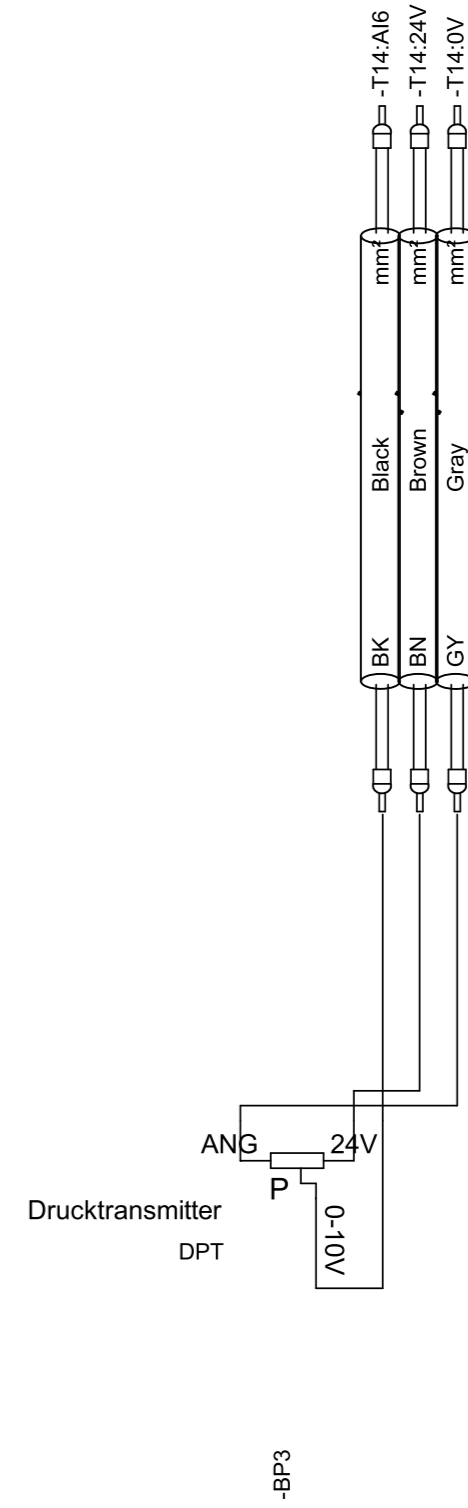
Anmerkung: Raumfühler 1
Cable-type:

-W508



Anmerkung: Druckverlust Zuluft extern
Cable-type:

-W513

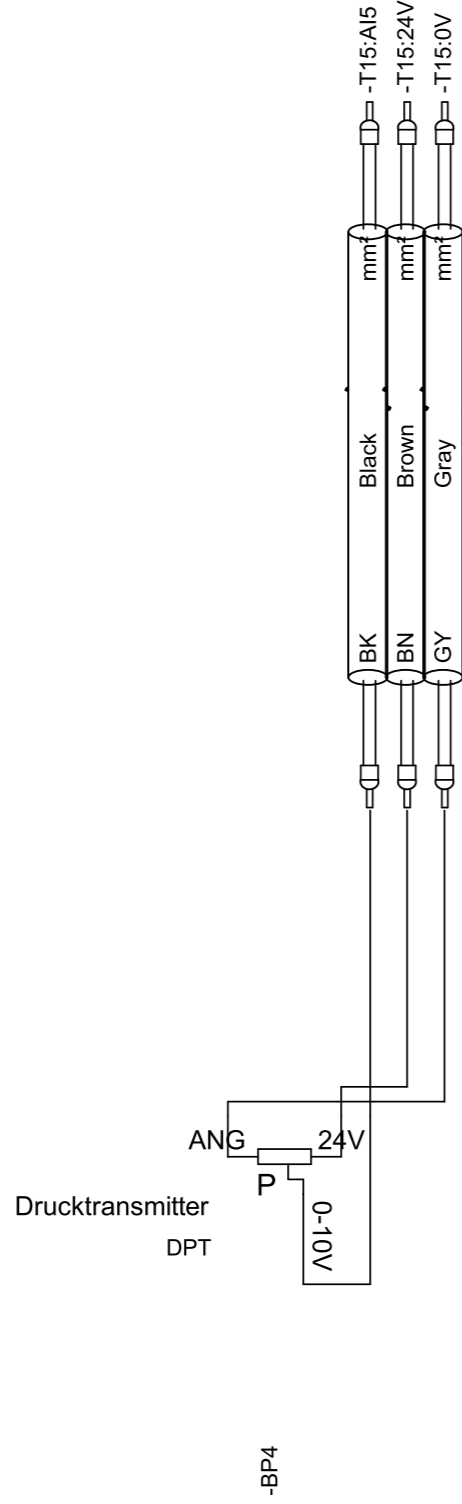


Anschlussplan

Pfad
Blatt

Anmerkung: Druckverlust Abluft extern
Cable-type:

-W514



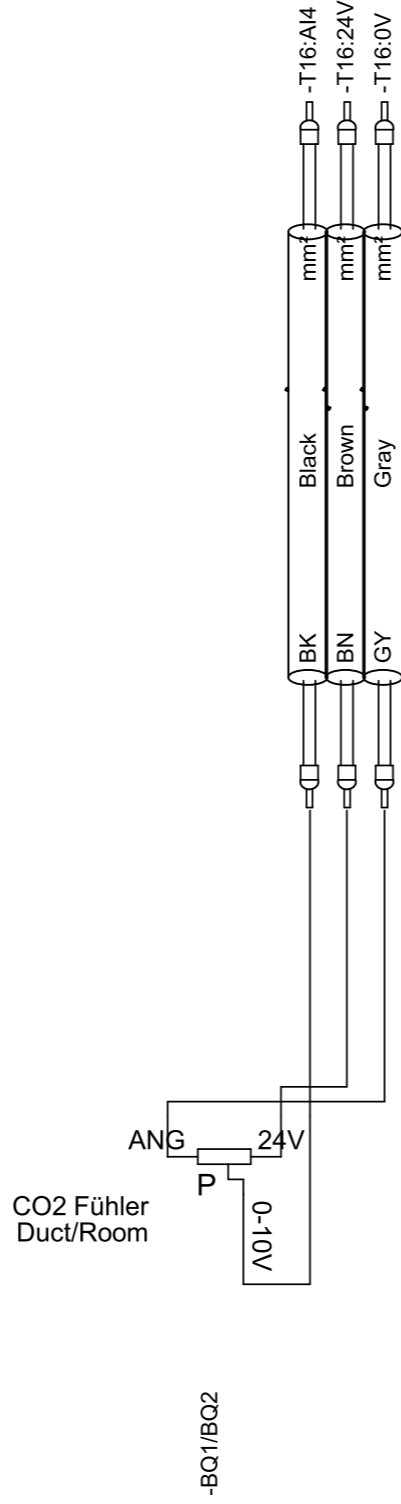
-BP4

4
5
4

12
12
12

-W515/516

Anmerkung: CO2-Fühler
Cable-type:



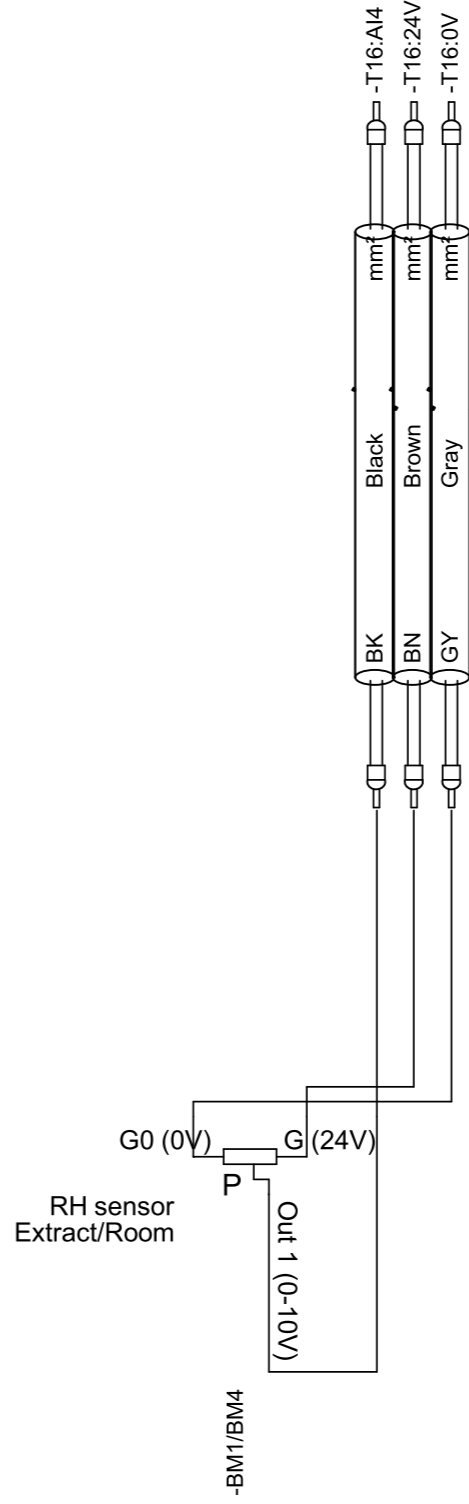
-BQ1/BQ2

6
6
6

12
12
12

-W517/W520

Anmerkung: RH sensor
Cable-type:



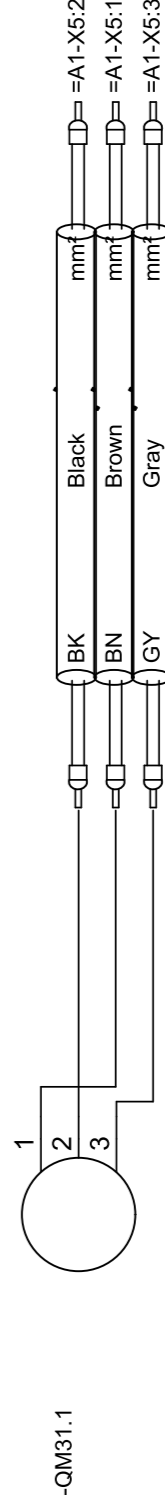
-BM1/BM4

7
7
7

12
12
12

-W531.1

Anmerkung: Klappe Zuluft
Cable-type:



-QM31.1

1
0
1

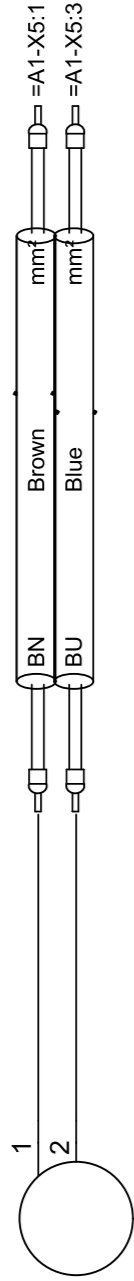
15
15
15

Anschlussplan

Pfad
Blatt

-W531.1S

Anmerkung: Klappe Zuluft
Cable-type:

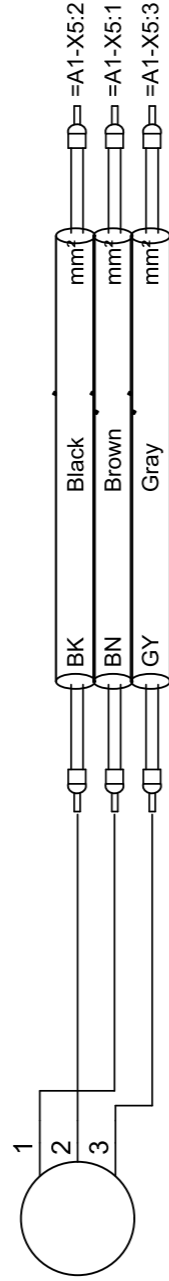


Klappenstellmotor

-QM31.1S

-W532.1

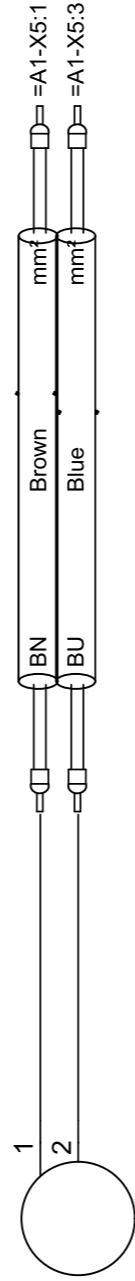
Anmerkung: Klappe Abluft
Cable-type:



-QM32.1

-W532.1S

Anmerkung: Klappe Abluft
Cable-type:

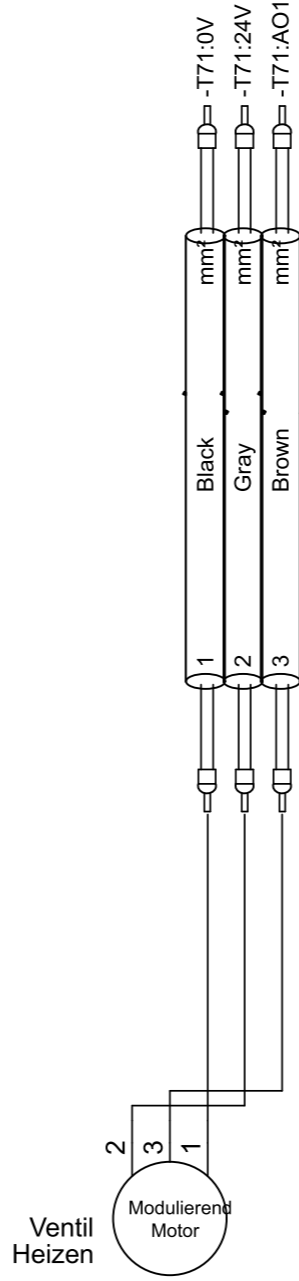


Klappenstellmotor

-QM32.1S

-W551

Anmerkung: Heizventil
Cable-type:



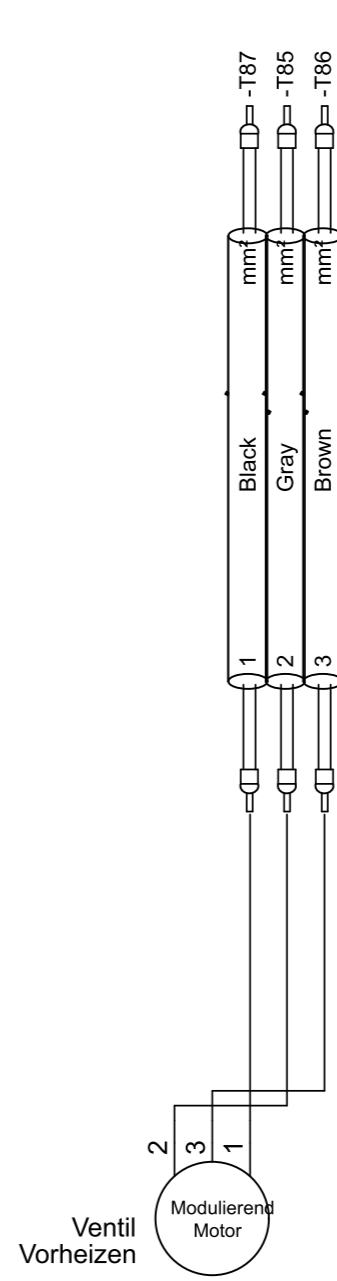
Ventil
Heizen

Modulierend
Motor

-QN51

-W553

Anmerkung: Heizventil
Cable-type:



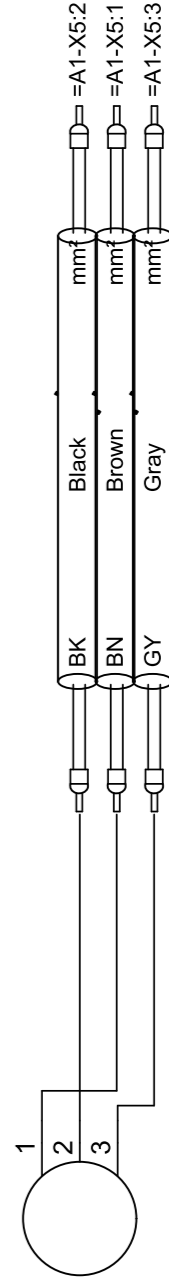
Ventil
Vorheizen

Modulierend
Motor

-QN53

-W571.1

Anmerkung: Klappe Zuluft 2
Cable-type:



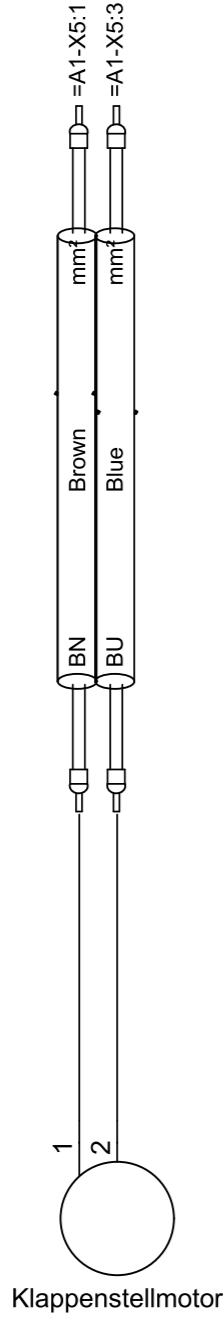
-QM71.1

1	15
1	15
4	15
4	15
4	15
5	15
5	15
2	16
2	16
2	16
2	17
2	17
2	17
2	15
2	15
2	15

Anschlussplan

-W571.1S

Anmerkung: Klappe Zuluft 2
Cable-type:



-QM71.1S
Klappenstellmotor

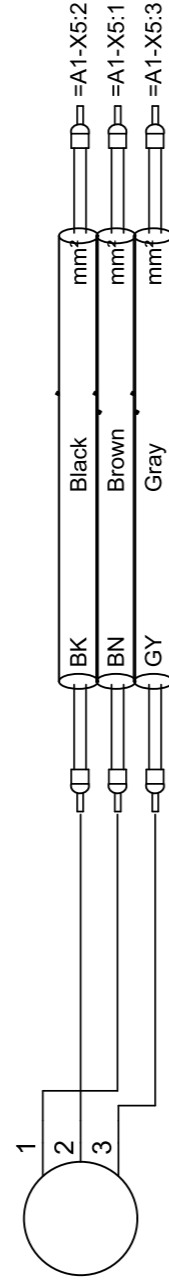
Blatt
Pfad

15
15

3
3

-W572.1

Anmerkung: Klappe Abluft 2
Cable-type:



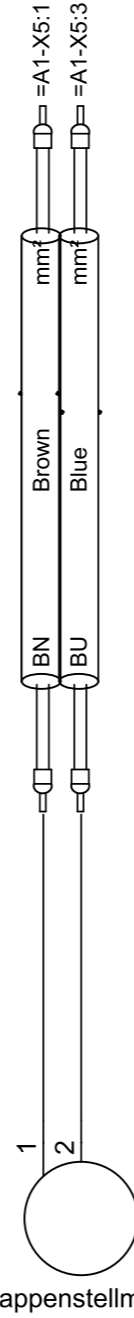
-QM72.1

15
15
15

6
6
6

-W572.1S

Anmerkung: Klappe Abluft 2
Cable-type:



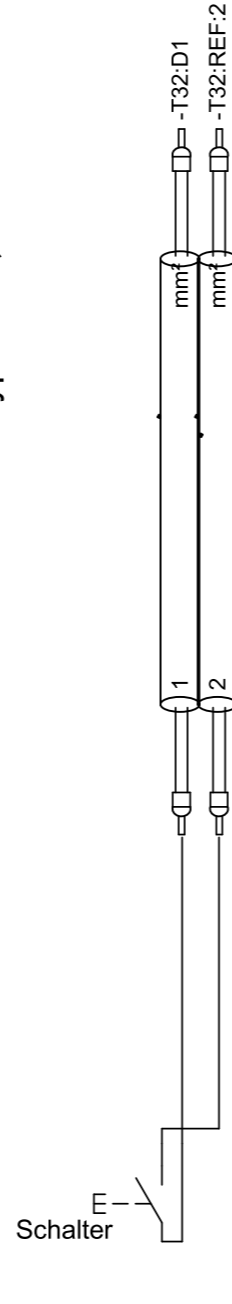
-QM72.1S

15
15

7
7

-W580

Anmerkung: Reduzierte Drehzahl
Cable-type: 2x0,75mm2



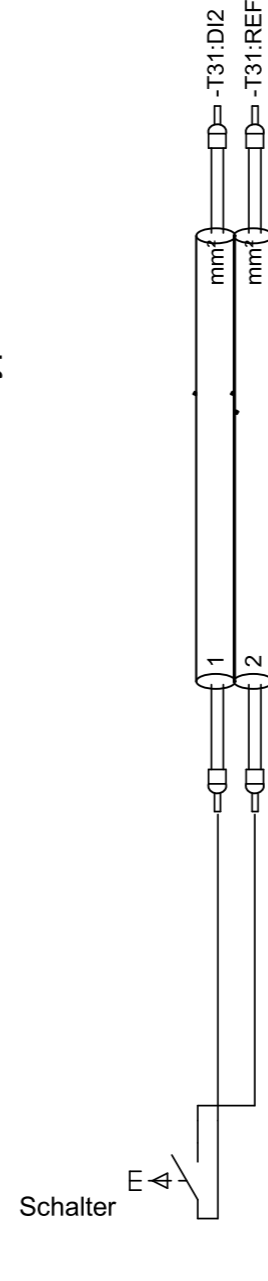
-SF2

10
10

1
1

-W581

Anmerkung: Normale Drehzahl extern
Cable-type:



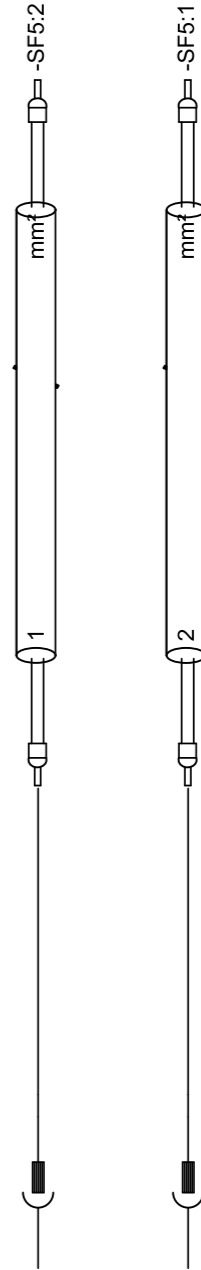
-SF3

10
10

2
3

-W583

Anmerkung: ext. Stop
Cable-type: 2x0,75mm2



-T30:DI3

10

5

-T30:REF

10

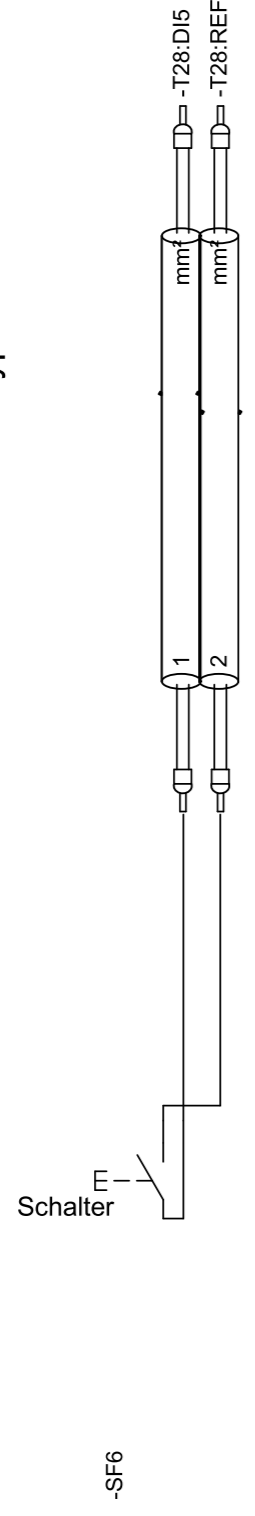
5

Anschlussplan

Pfad	Blatt
8	10
8	10
5	22
5	22
6	22
6	22
6	22
6	24
2	24
1	24
2	24
2	24

Anmerkung: Change over
Cable-type:

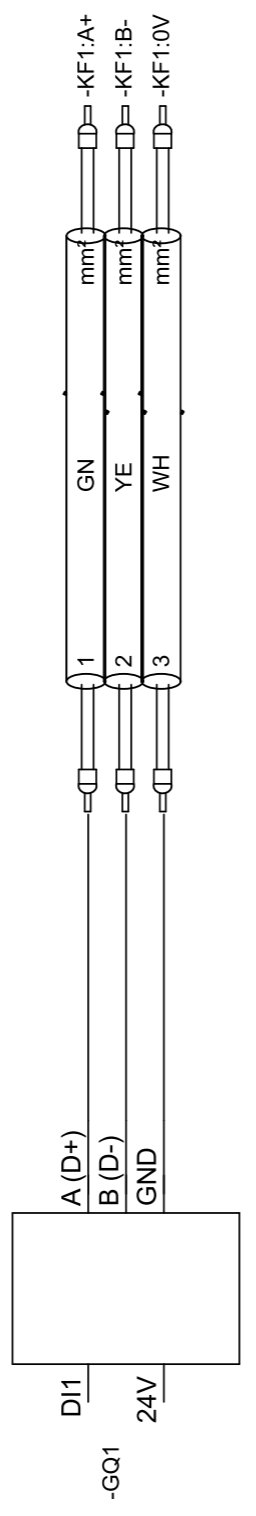
-W584



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

-W601

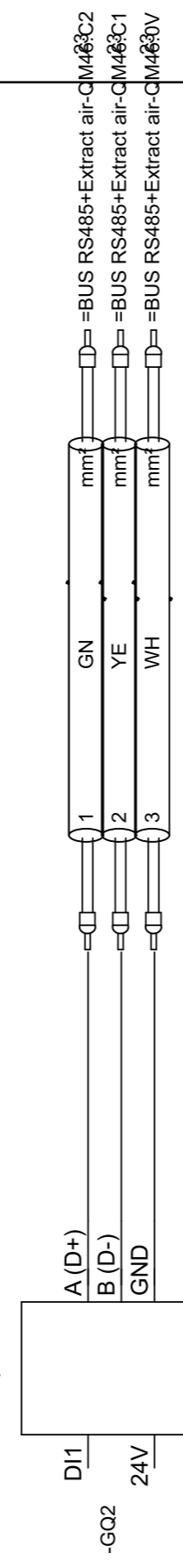
EC Ventilator



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

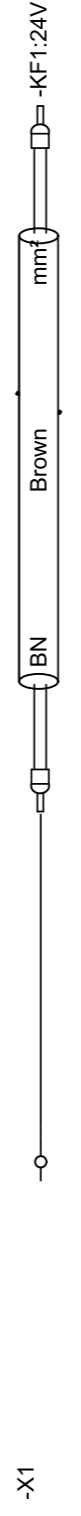
-W602

EC Ventilator

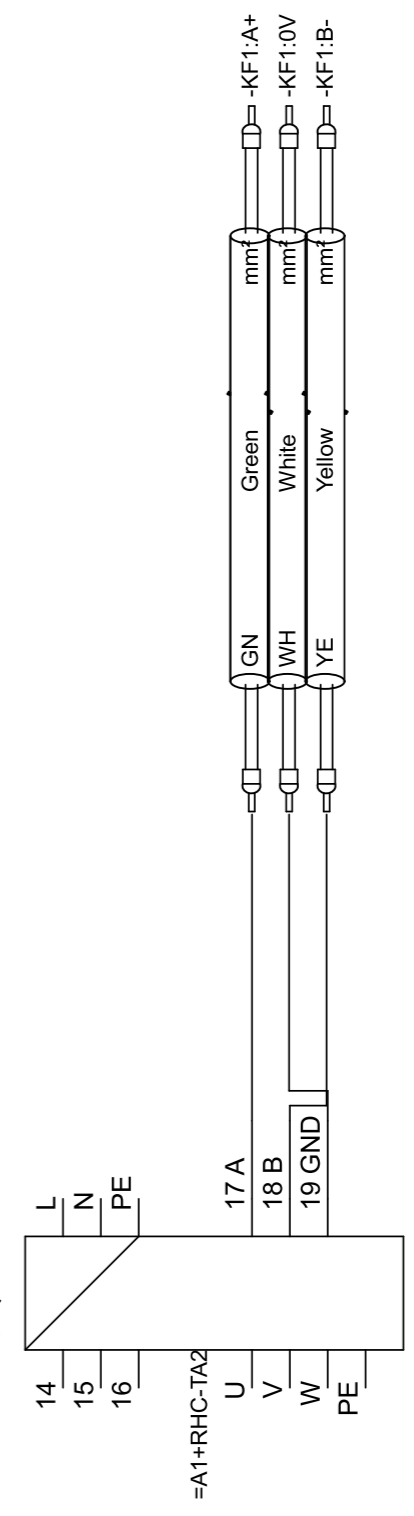


Anmerkung: TA2 BUS
Cable-type:

-W642.1



Rotor regler
RHC

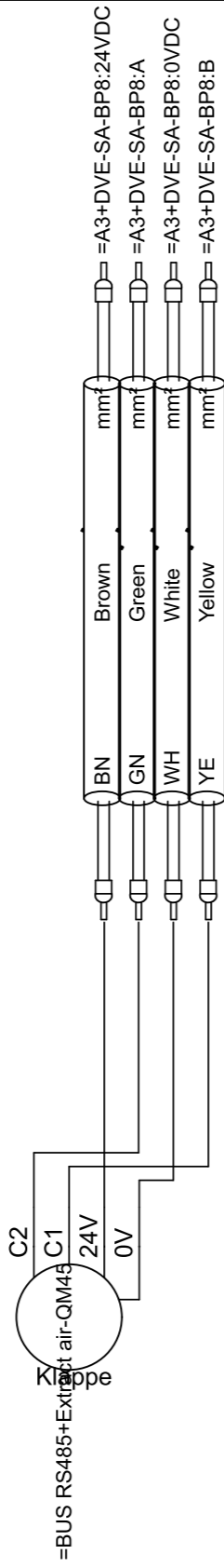


Anschlussplan

Pfad
Blatt

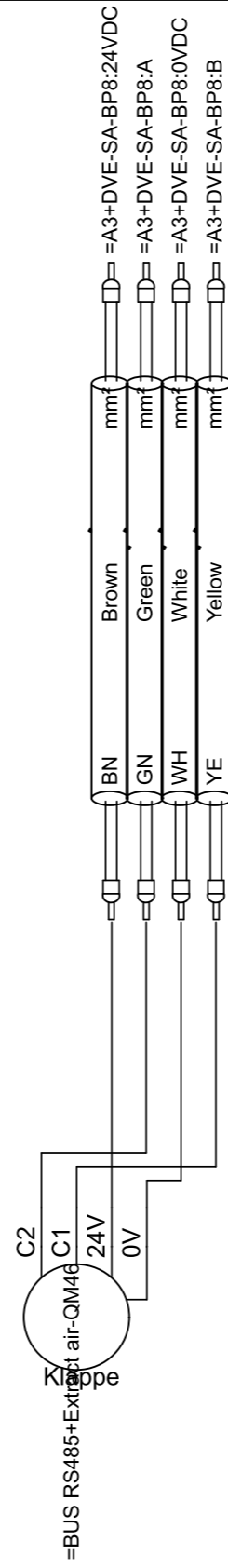
Anmerkung: Abluft
Cable-type:

-W645



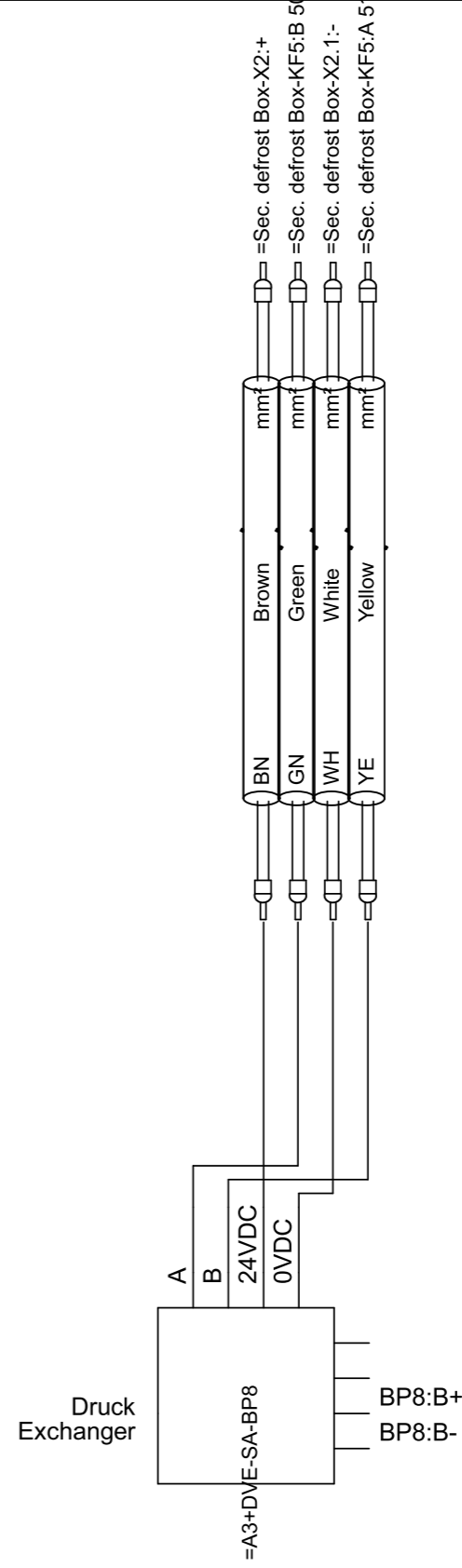
-W646

Anmerkung: Abluft
Cable-type:



-W655

Anmerkung: Sek. Enteisung
Cable-type:



6
6
6
6

7
7
8
7

1
1
1
0

24
24
24
24

24
24
24
24

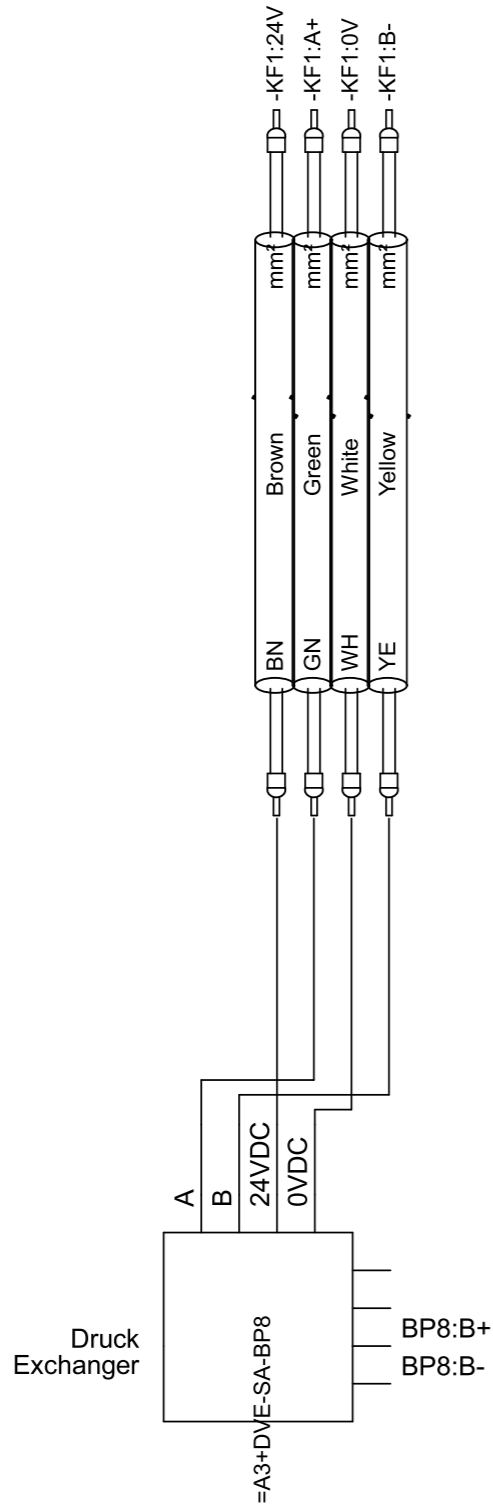
25
25
25
25

Anschlussplan

Pfad
Blatt

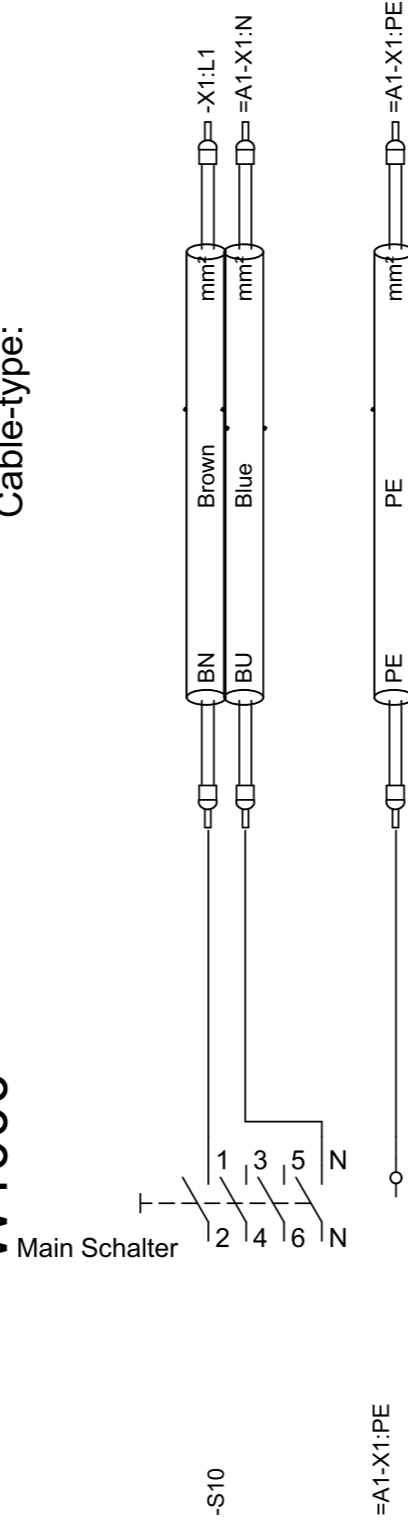
Anmerkung: Druckverlust Plattenwärme
Cable-type:

-W666



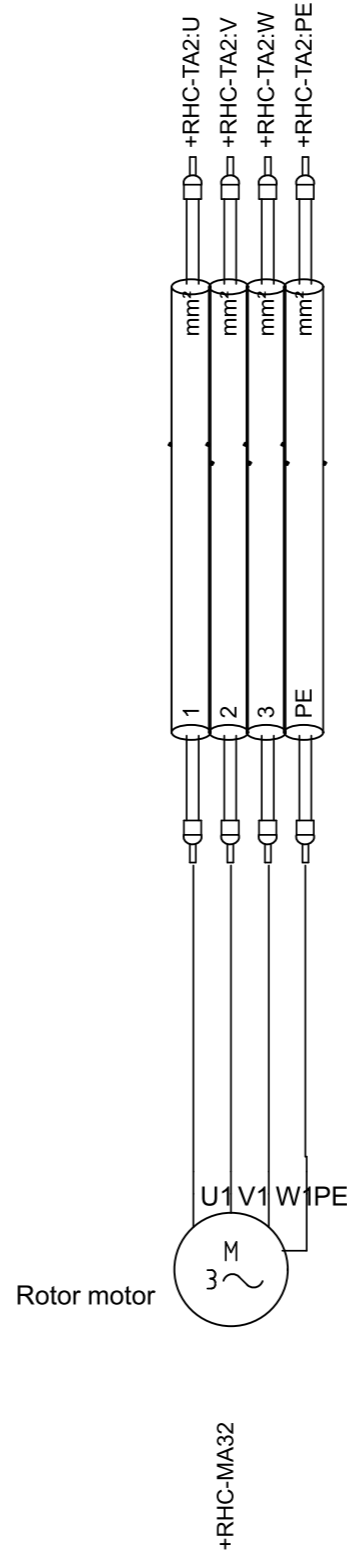
-W1000

Anmerkung: Hauptstromversorgung
Cable-type:



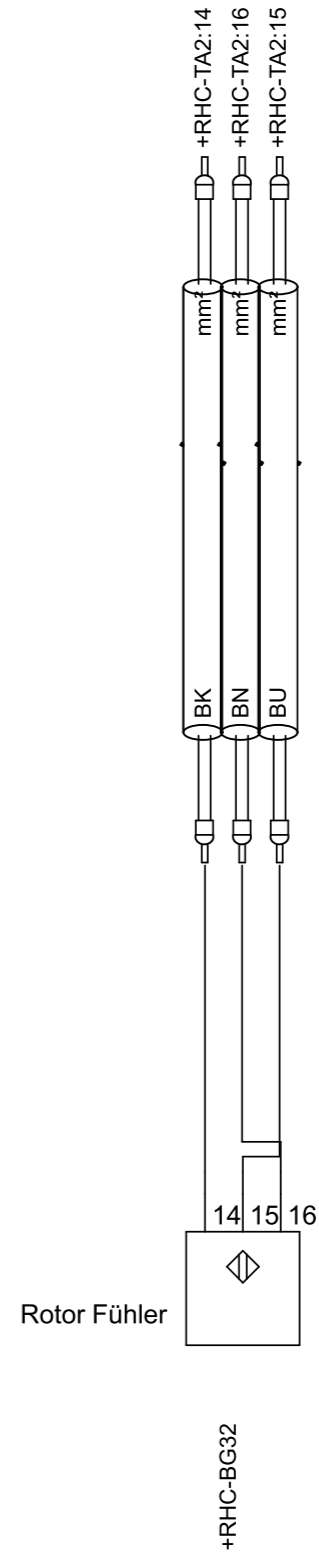
=A1-W332

Anmerkung: Rotor-Motor
Cable-type:



=A1-W532

Anmerkung: Rotor-Sensor
Cable-type:



24
24
24
24

18
18

18

24
24
24
24

24
24
24

4
3
4
3

1
1

1

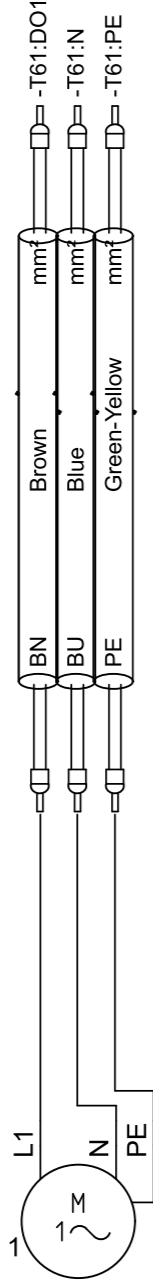
1
2
2
2

1
1
1

Anschlussplan

=A1-W550

Mischerpumpe 1



-GP50

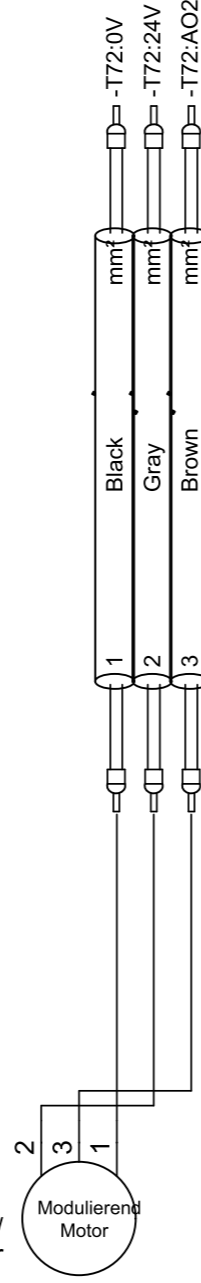
Pfad
Blatt

1
14
2
14
2
14

=A1-W554

Ventil für Kühlung/
Change over

Anmerkung: Kühlventil
Cable-type:

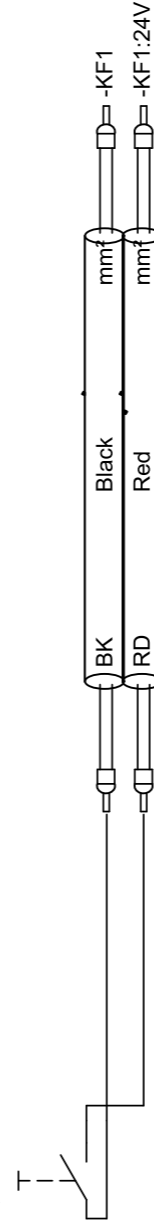


-QN54/QN56

=A1-W700

Lichtschalter

Anmerkung: Lichtschalter
Cable-type:

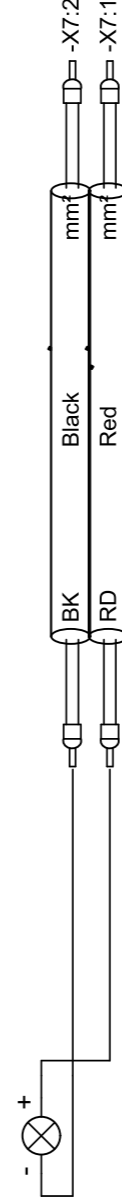


-SF1

5
19
5
19

=A1-W701

Anmerkung: Licht P20
Cable-type:

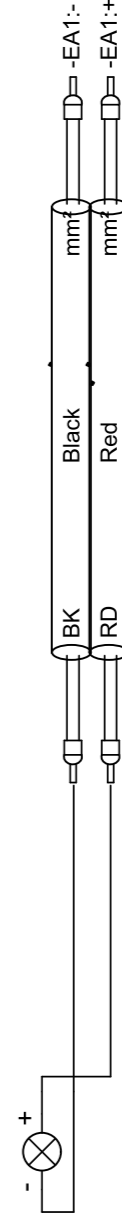


-EA1

6
19
6
19

=A1-W702

Anmerkung: Licht P20
Cable-type:



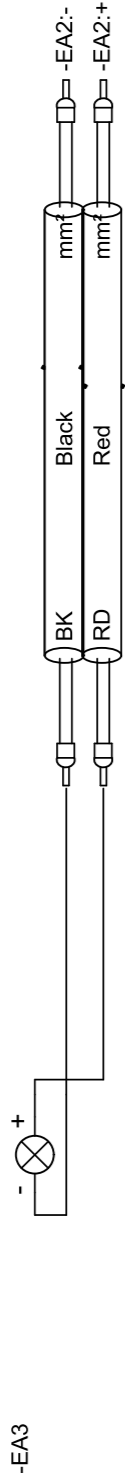
-EA2

7
19
6
19

Anschlussplan

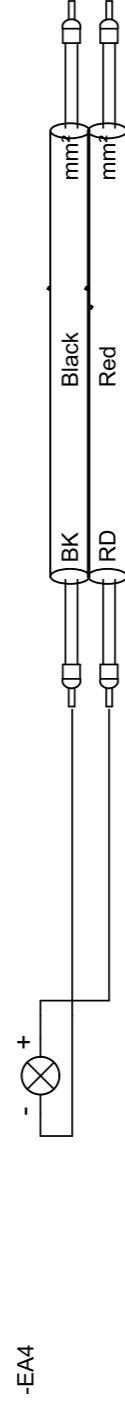
=A1-W703

Anmerkung: Licht P20
Cable-type:



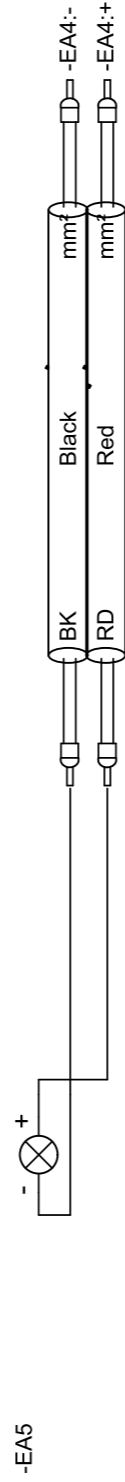
=A1-W704

Anmerkung: Licht P21
Cable-type:



=A1-W705

Anmerkung:
Cable-type:



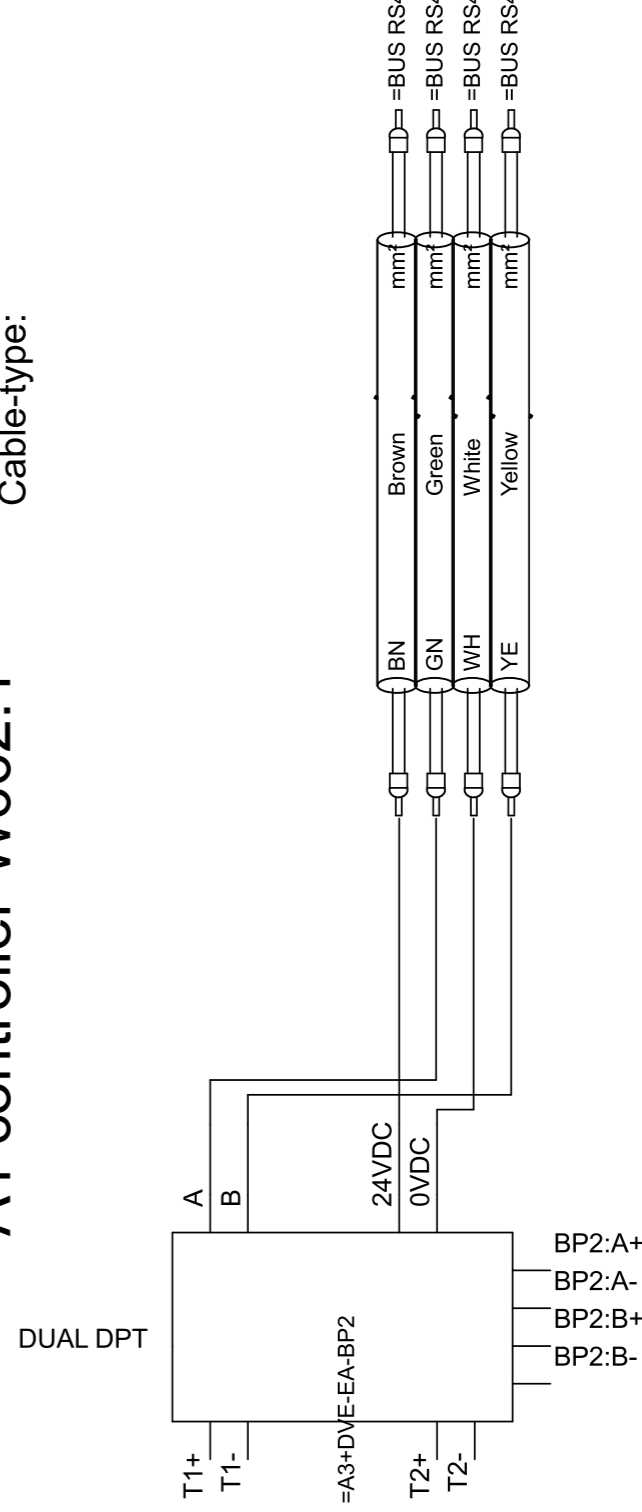
=A1 controller-W661.1

Anmerkung: BP1 BUS
Cable-type:



=A1 controller-W662.1

Anmerkung: BP2 BUS
Cable-type:



Pfad
Blatt

7
19

8
19

9
19

2
22
2
22
2
22
2
22

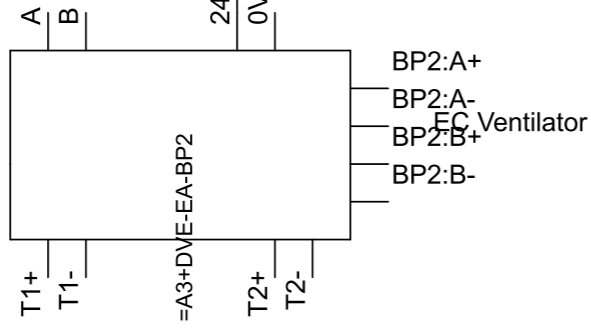
2
2
2
2

Anschlussplan

=A1 controller-W662.2

Anmerkung: BP2 BUS
Cable-type:

DUAL DPT



Blatt

Pfad

2

=BUS RS485+Extract air-QM463C2

mmf

Brown

mmf

=BUS RS485+Extract air-QM463C2

2

2

2

2

2

2

mmf

Green

mmf

=BUS RS485+Extract air-QM463C2

2

2

2

mmf

White

mmf

=BUS RS485+Extract air-QM463C2

2

2

2

mmf

Yellow

mmf

=BUS RS485+Extract air-QM463C1

=A3-W343

Anmerkung: Temp.-Effizienz
Cable-type: 2x0,25mm²

Eff. Temperatur

+DVE-SA-BT4



22

22

=A3-W442

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

Exhaust Temp.

+DVAF-EA-BT2



23

23

=A3-W444

Anmerkung: Abluft Temp.
Cable-type: 2x0,25mm²

Abluft Temp.

+DVAF-EA-BT3

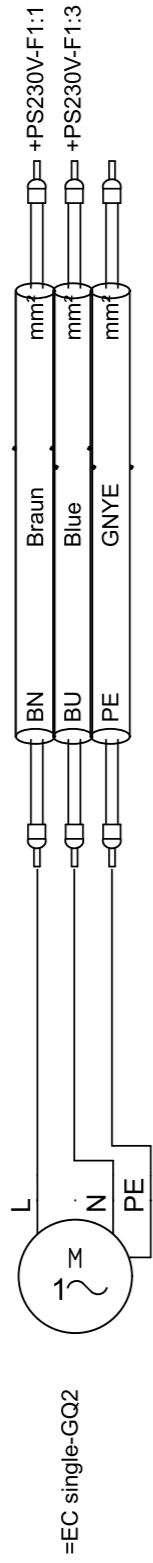


22

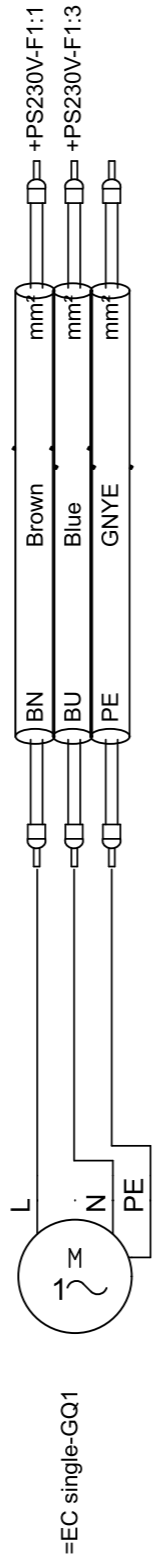
22

Anschlussplan

=EC Single/Twin+Extract air-~~W102~~ ^{W101} = Motor Abluft
 Cable-type:



=EC Single/Twin+Supply air-~~W101~~ ^{W102} = Motor Zuluft
 Cable-type:



Pfad
Blatt

7
18
18
18

4
18
18
18
5
5