

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

Dokumente sind auf den folgenden Seiten aufgelistet:

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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



Geniox
Access CU27 Regler

Vorderseite

Projekt:

Geniox-Core CS 44.04.02 230V Pre-heat DE

Rev.:

44.04.02

Blatt:

1

Datum:

07-08-2020

Initialien:

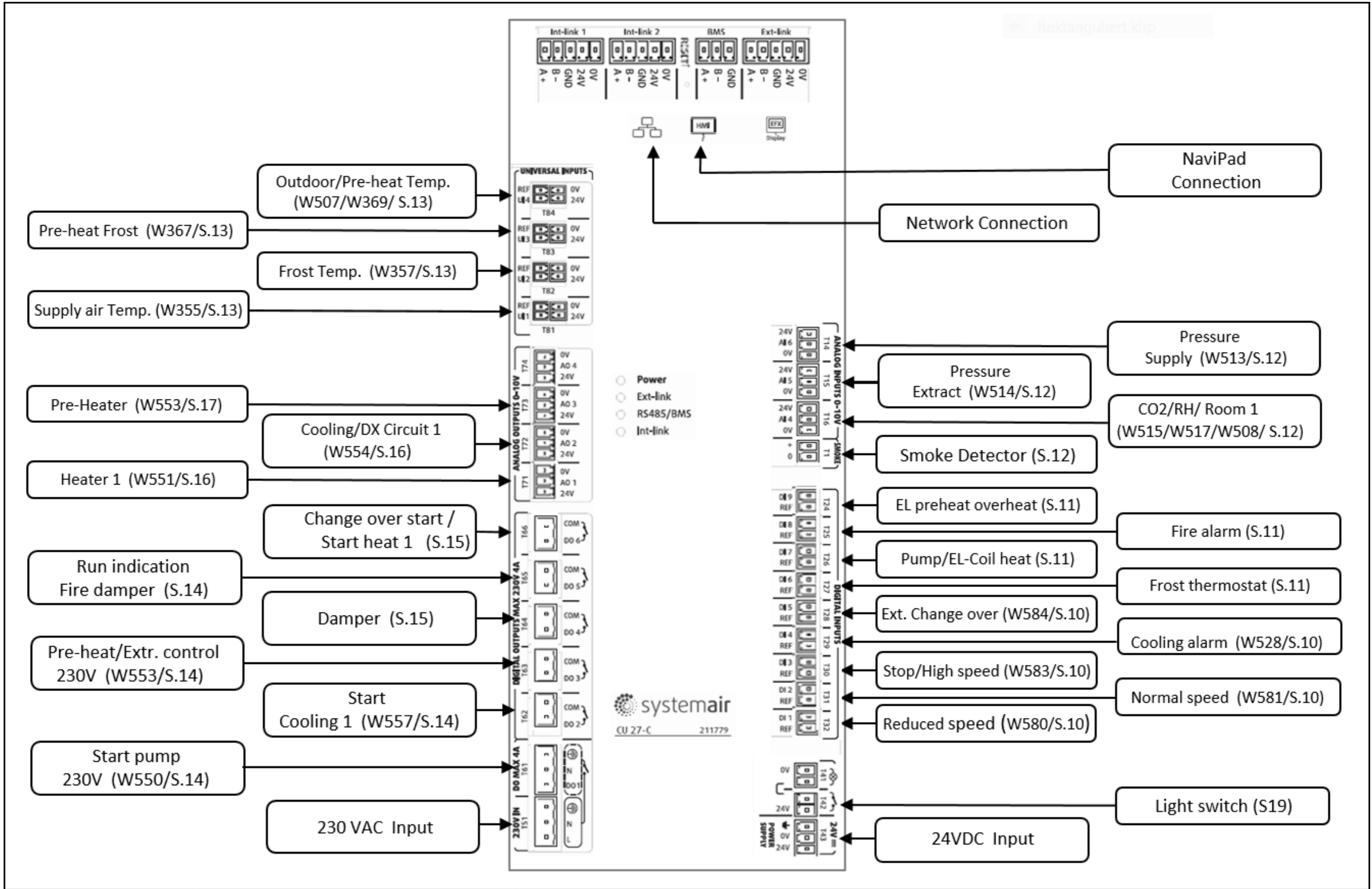
MIKE

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

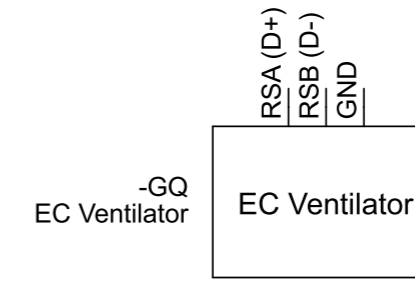
-EA ⚡ Leuchte

-SF ⚡ Stufenschalter

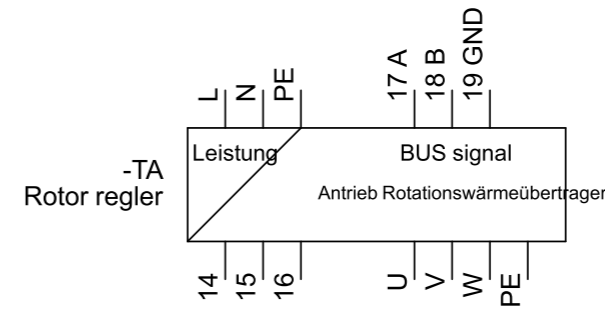
-BP ⚡ Drucktransmitter

-BP ⚡ Pressostat

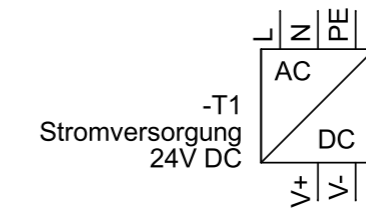
-F ⚡ Sicherungsautomat



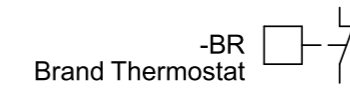
EBM EC Ventilator



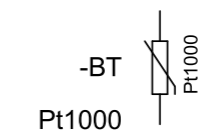
Rotationswärmetauscher



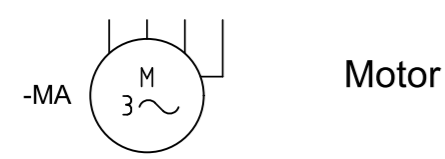
Stromversorgung



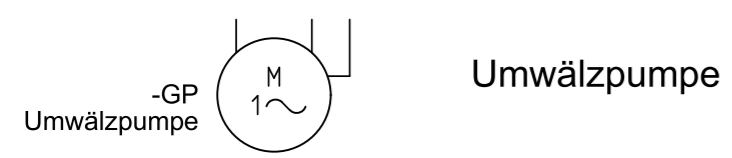
Feuermelder



Temperatur (gemessen)



Motor



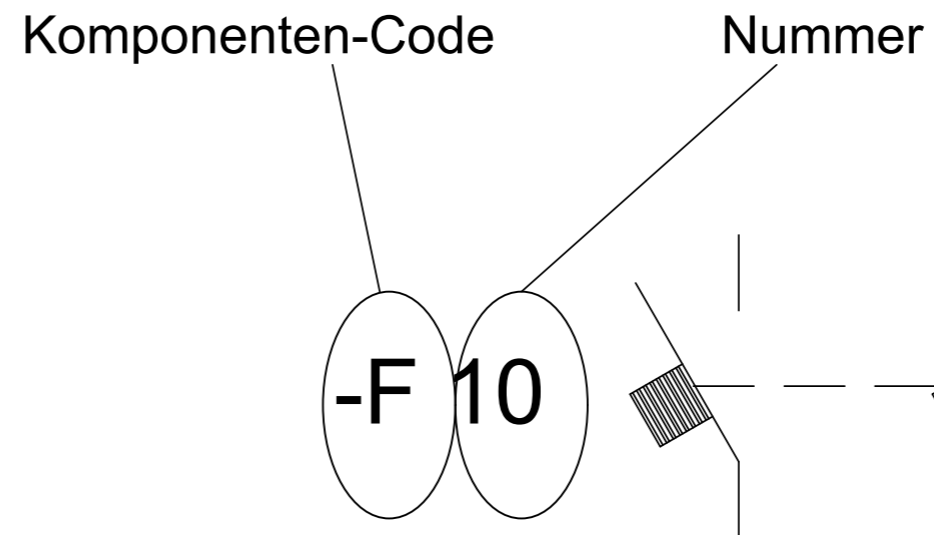
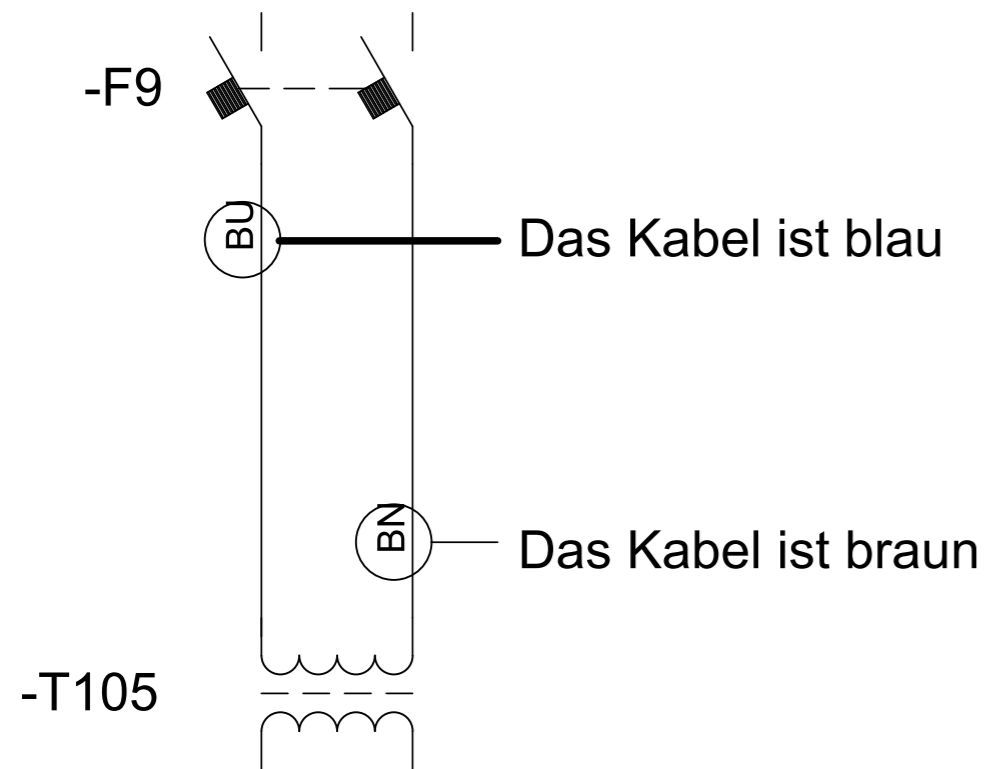
Umwälzpumpe

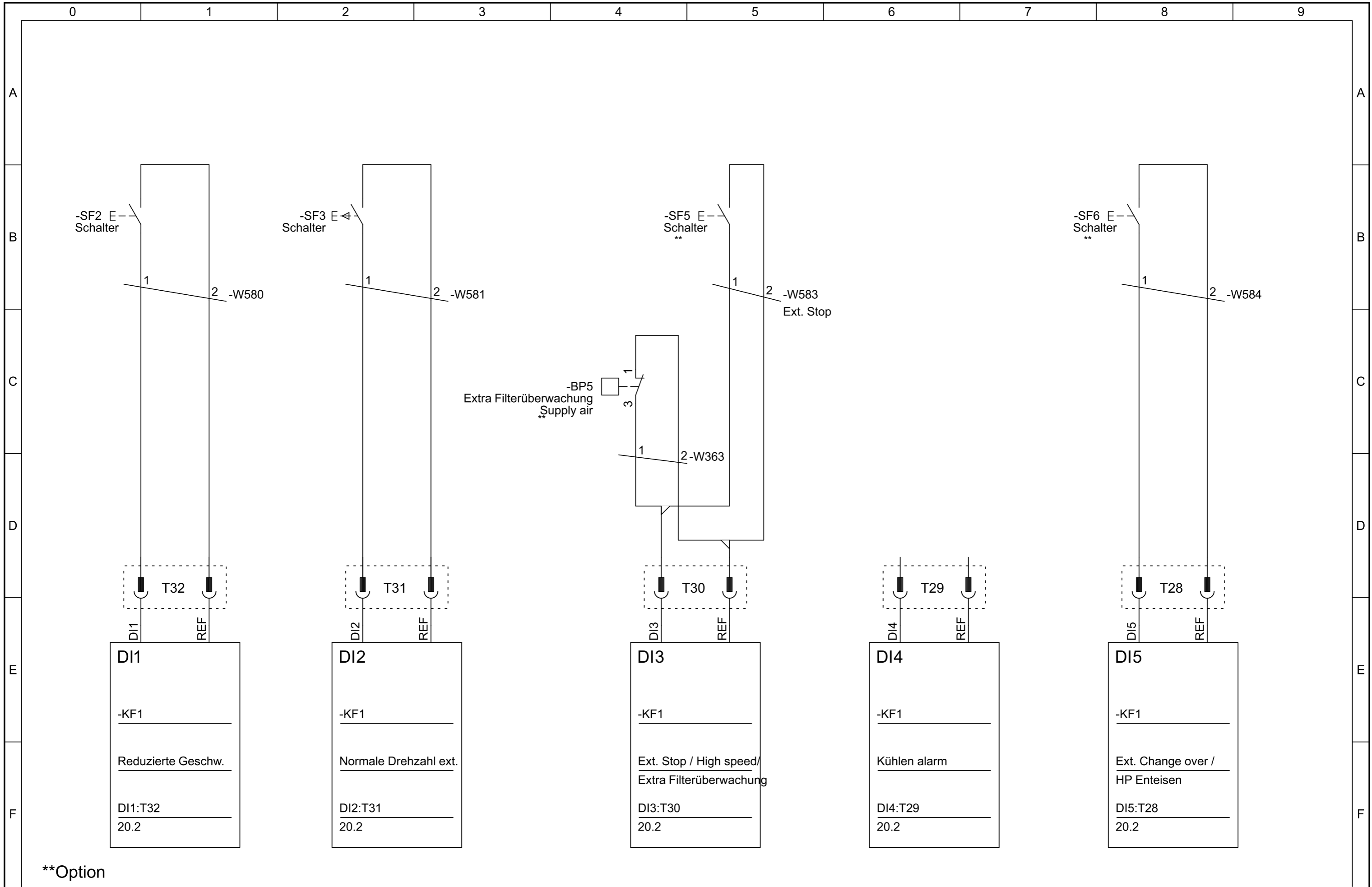


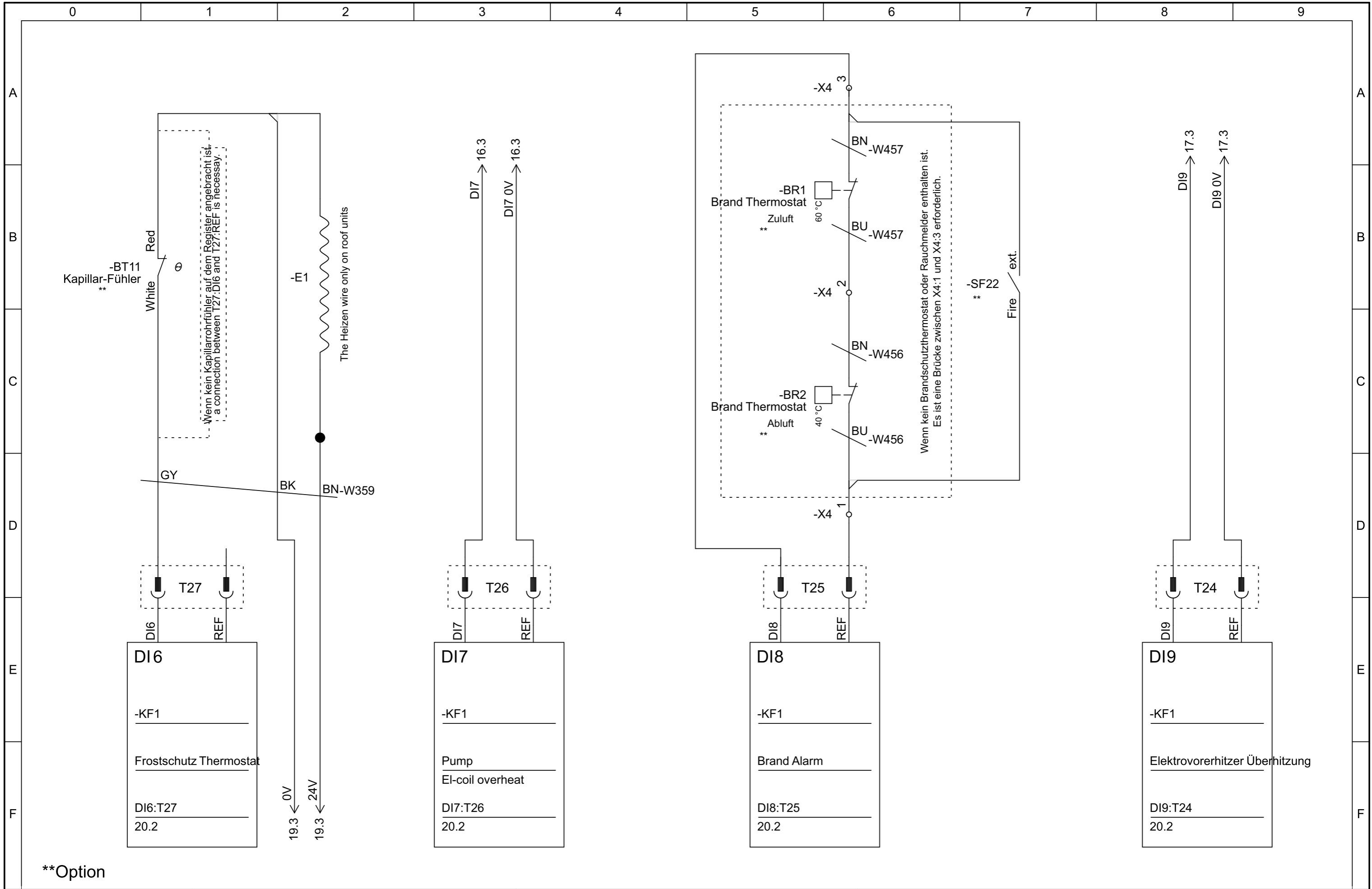
Klappenstellmotor

Labeling of wires are marked with Klemme name

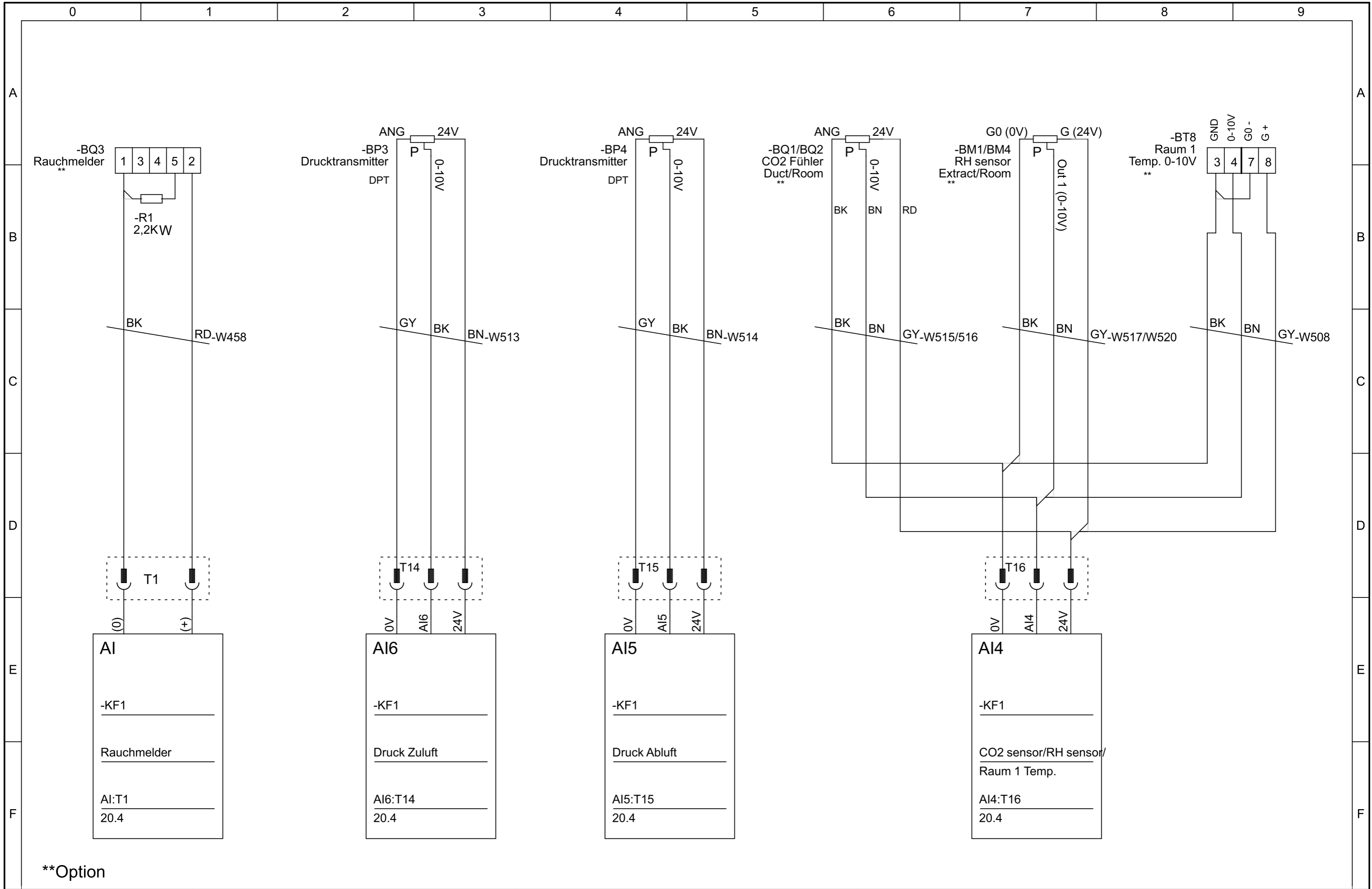
Die Komponenten sind mit Komponenten-Coden markiert gefolgt von einer Nummer nach IEC 61346-1 Tabelle 1



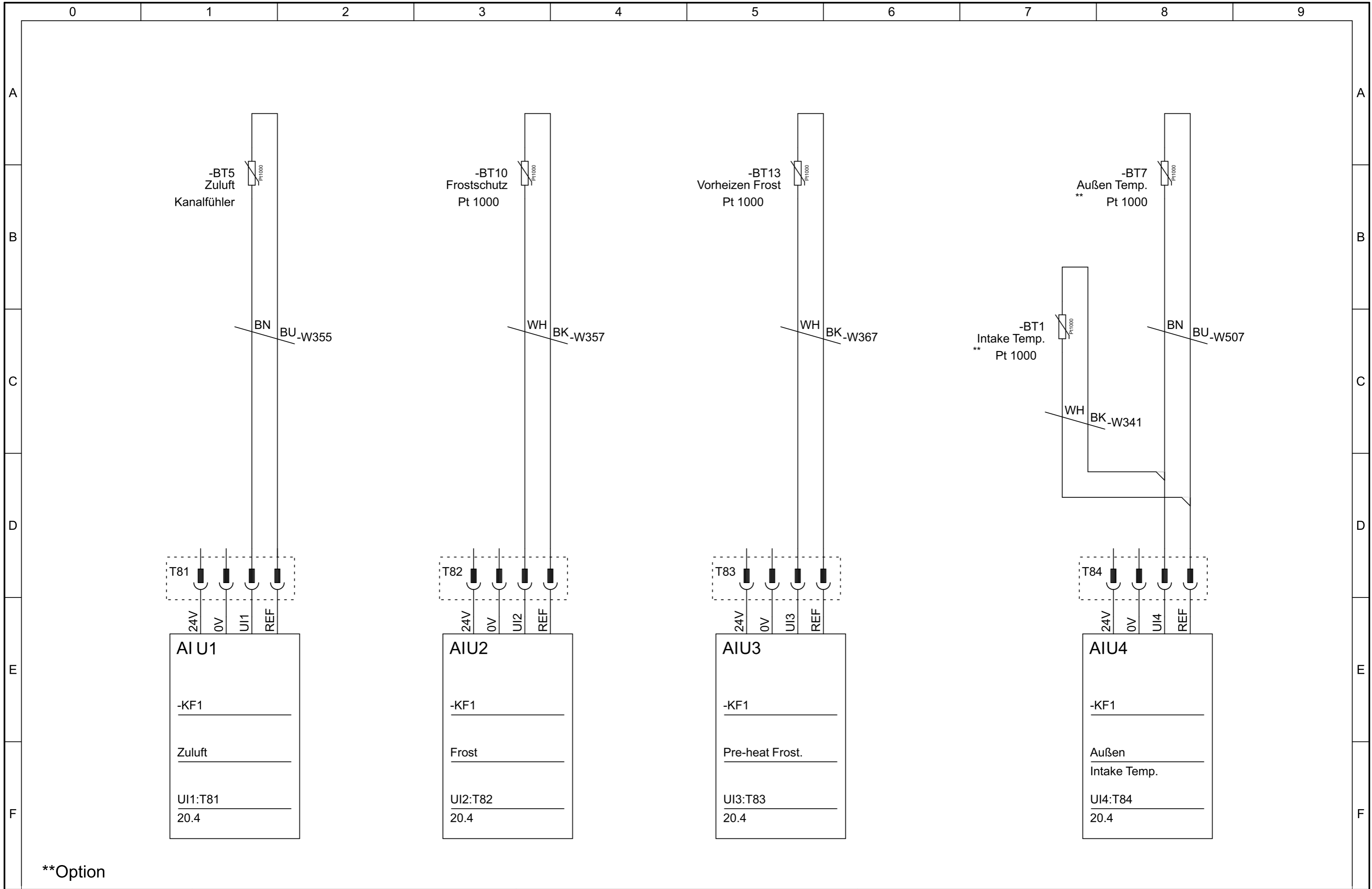




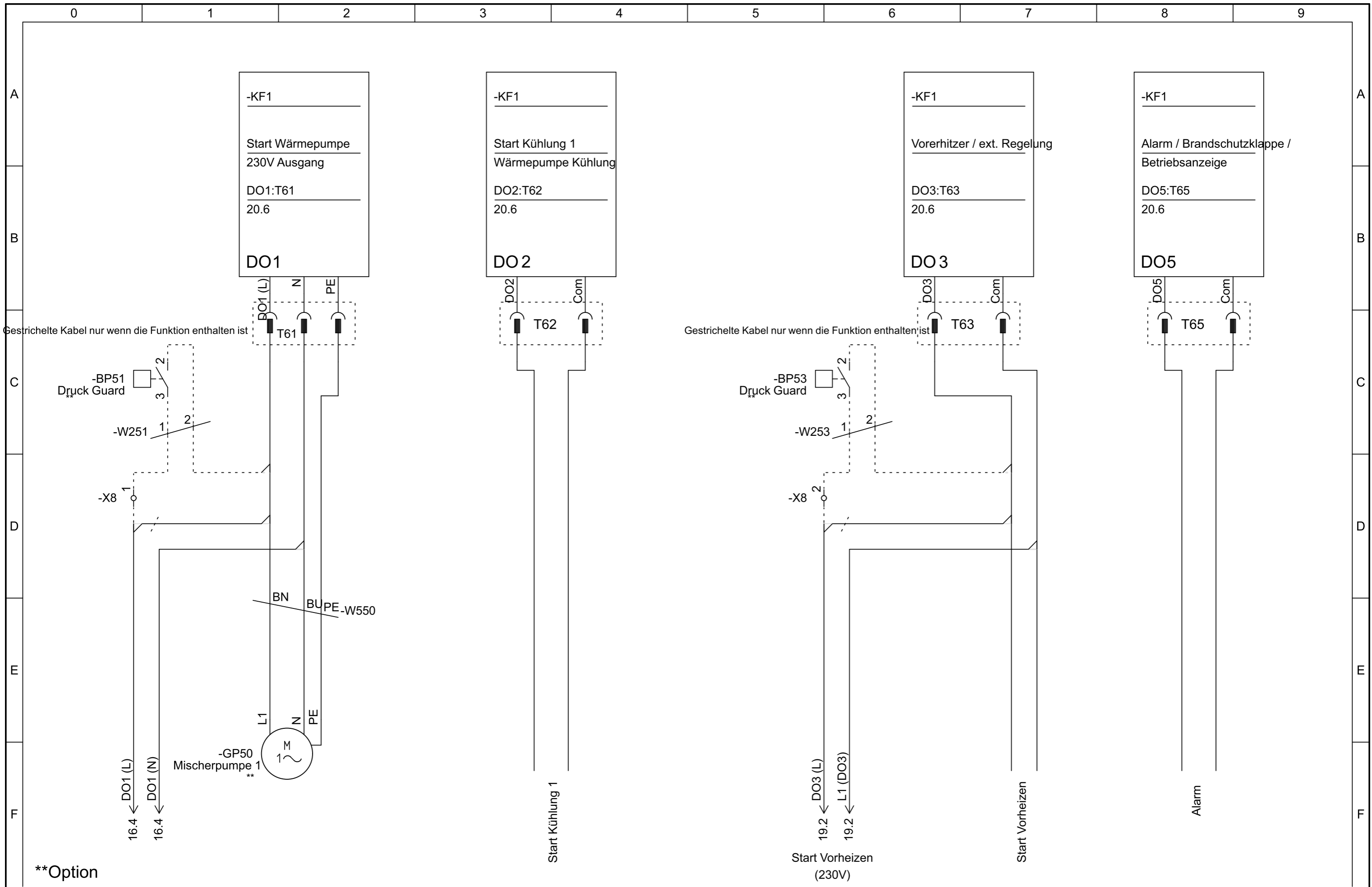
**Option

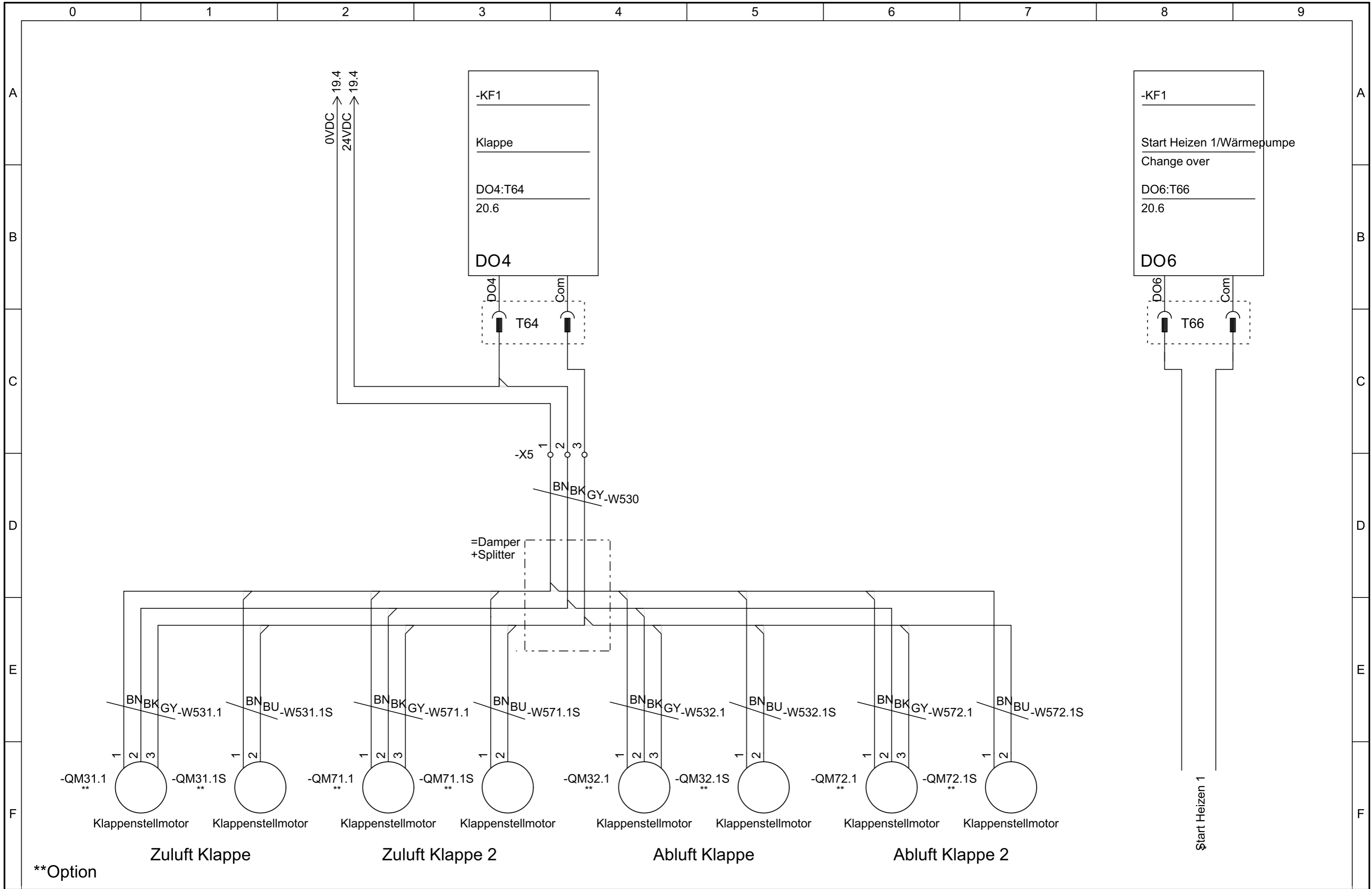


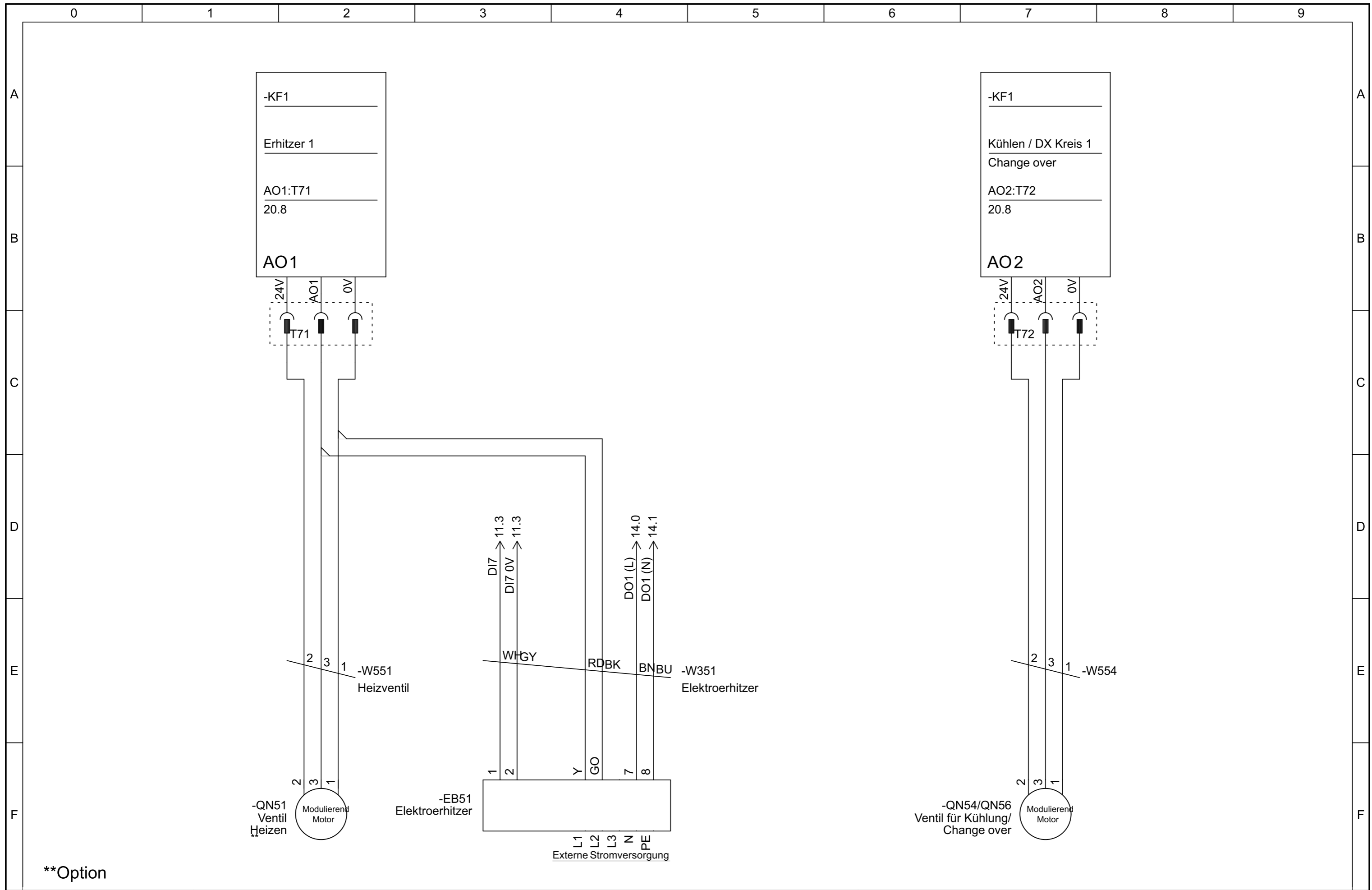
**Option

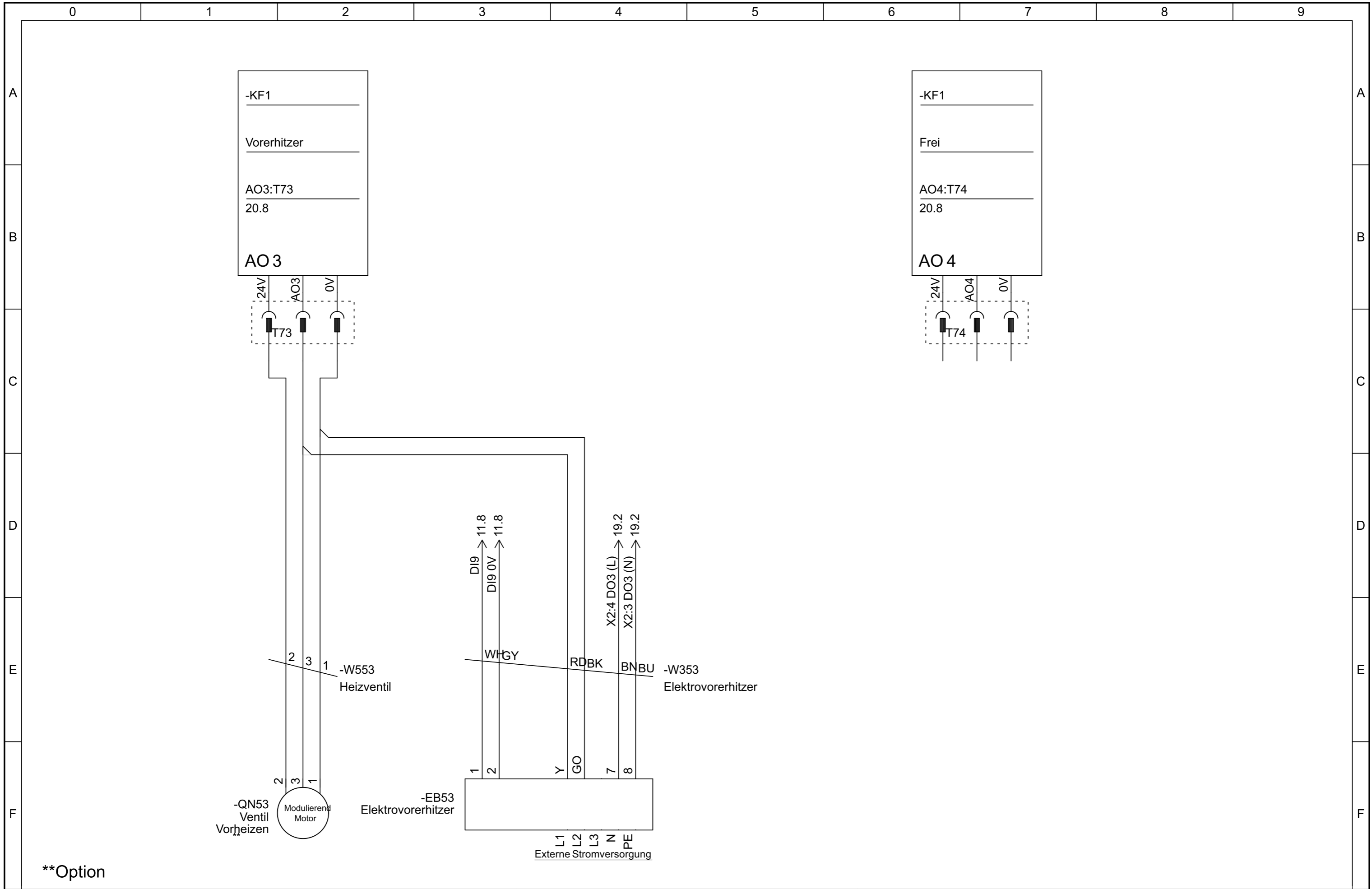


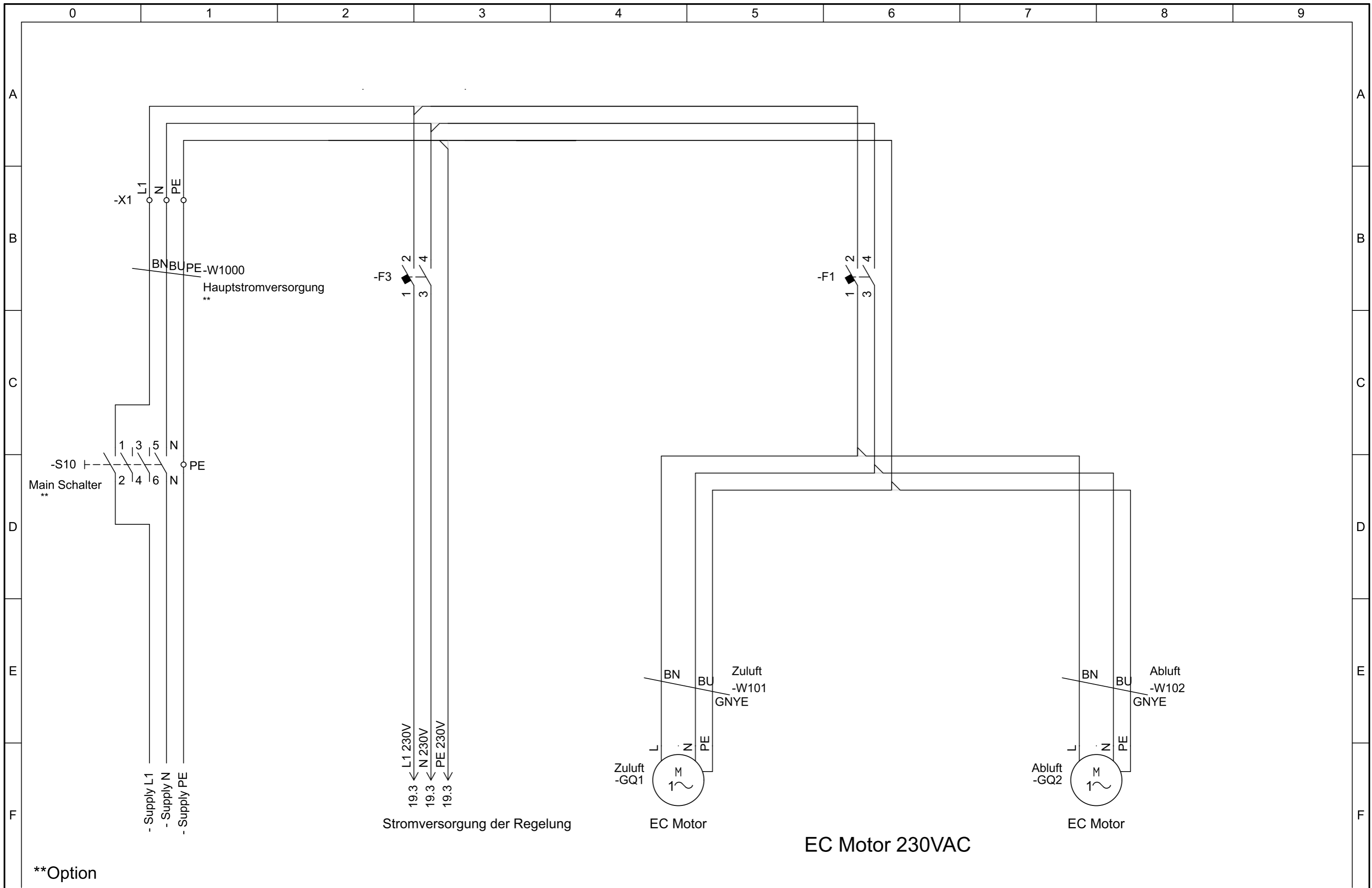
**Option






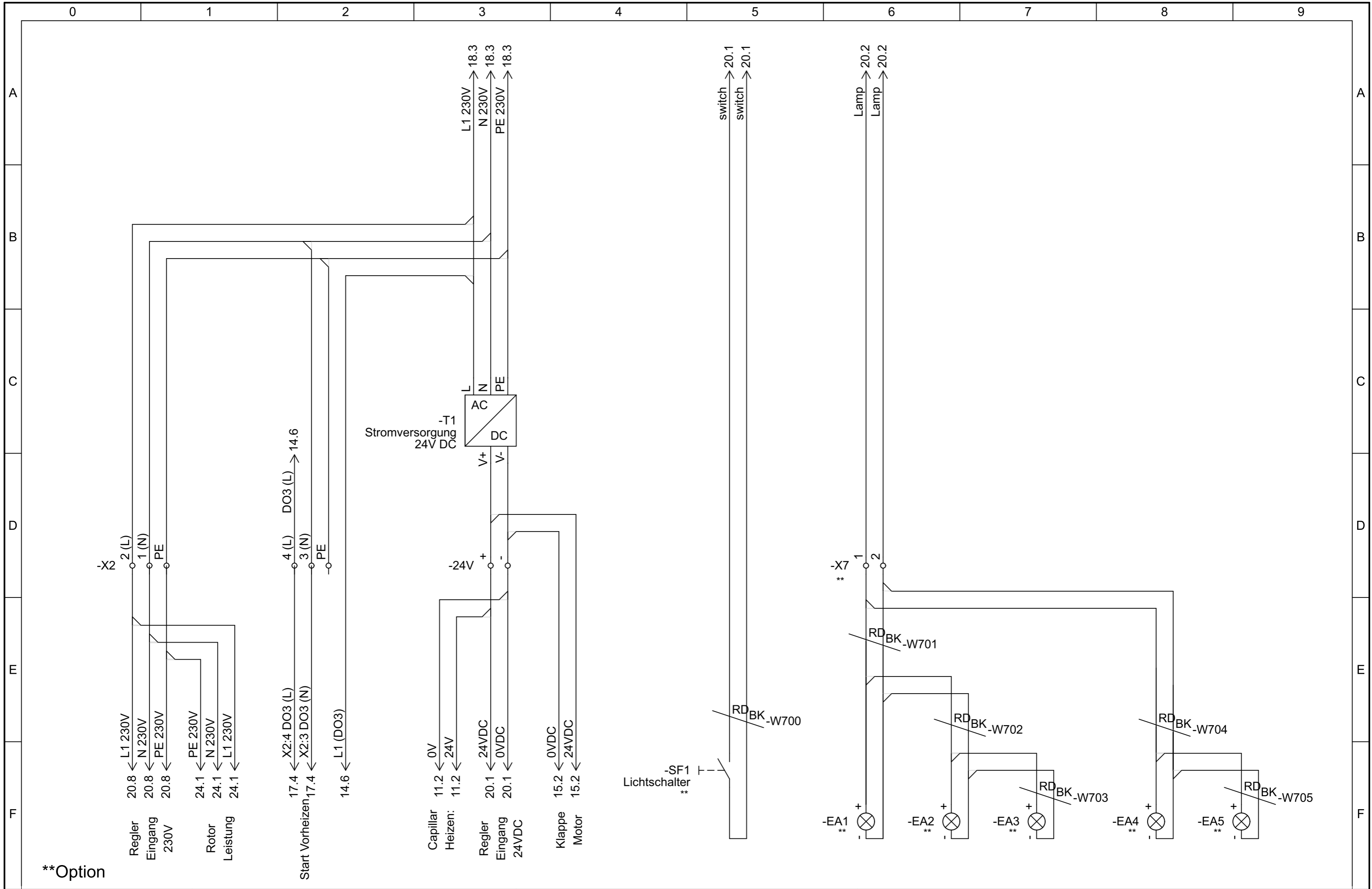






**Option

	Geniox Access CU27 Regler	Main Leistung EC Ventilator	Projekt: Geniox-Core CS 44.04.02 230V Pre-heat DE	Rev.: 44.04.02	Blatt: 18
			Datum: 06-11-2019	Initialien: MIKE	Gesamt Unterlage: 17 Nächstes Blatt: 19



**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



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
Intake Temp.



DI9:T24 11.8 DI9
Elektrovorerhitzer Überhitzung



24VDC Eingang

Light

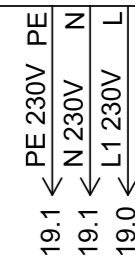
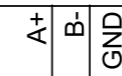
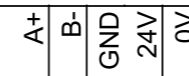
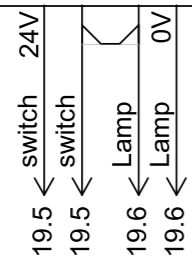
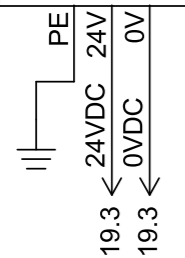
Int-link 1

Int-link 2

Ext-link

GLT

230V Eingang



Geniox
Access CU27 Regler

Access CU27 Regler

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

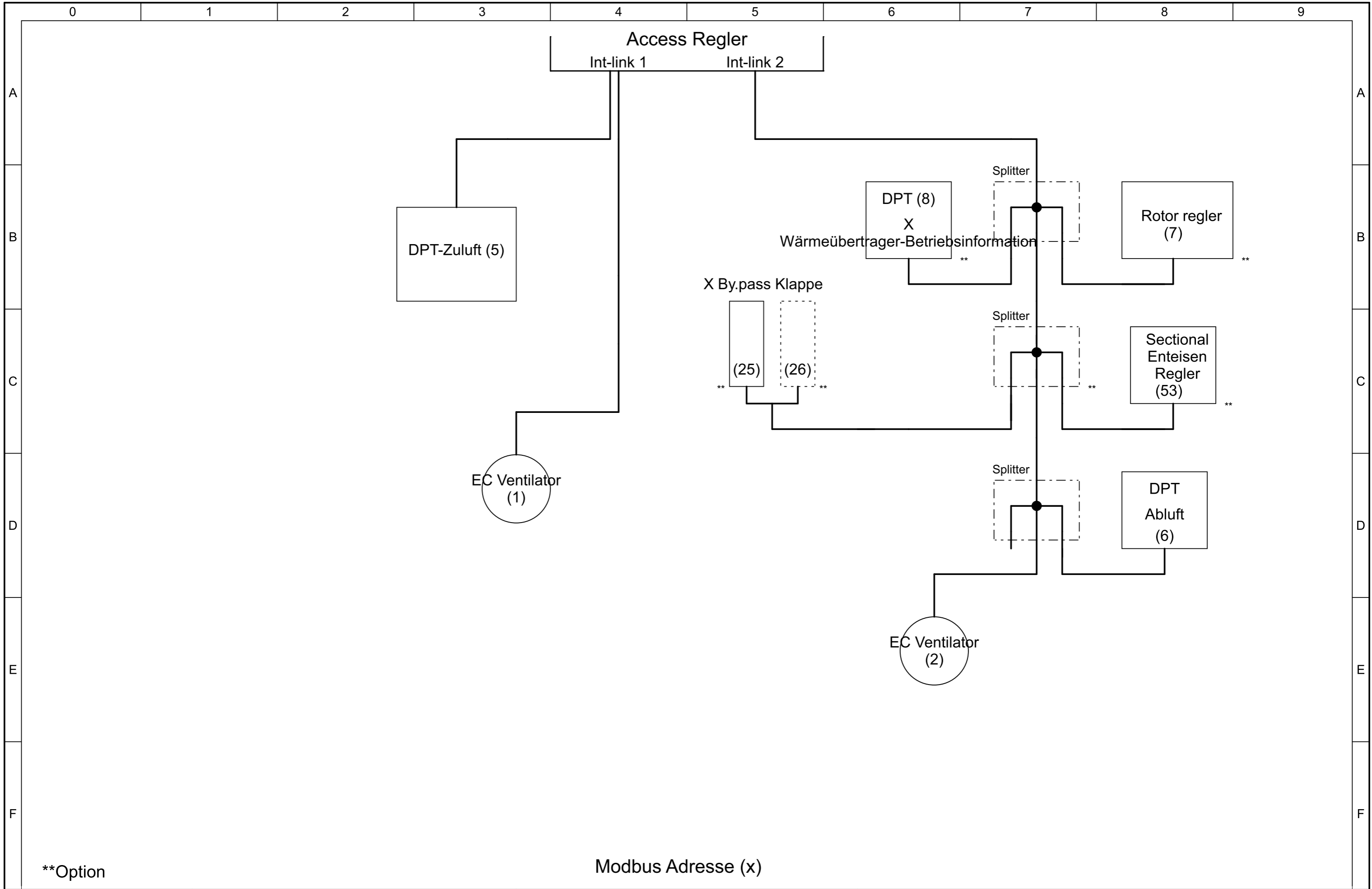
Rev.:
44.04.02

Blatt:
20

Datum:
06-11-2019

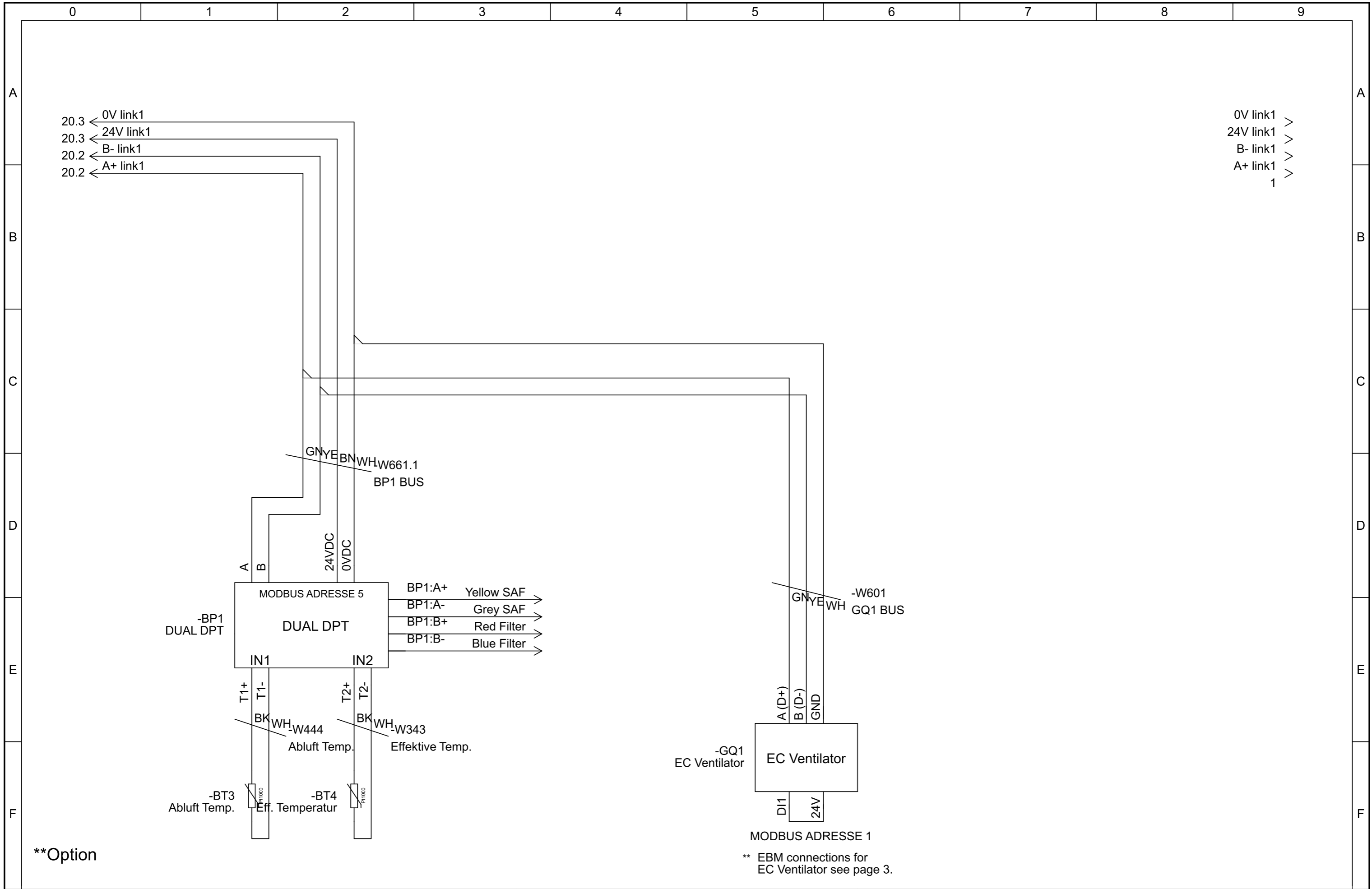
Initialien:
MIKE

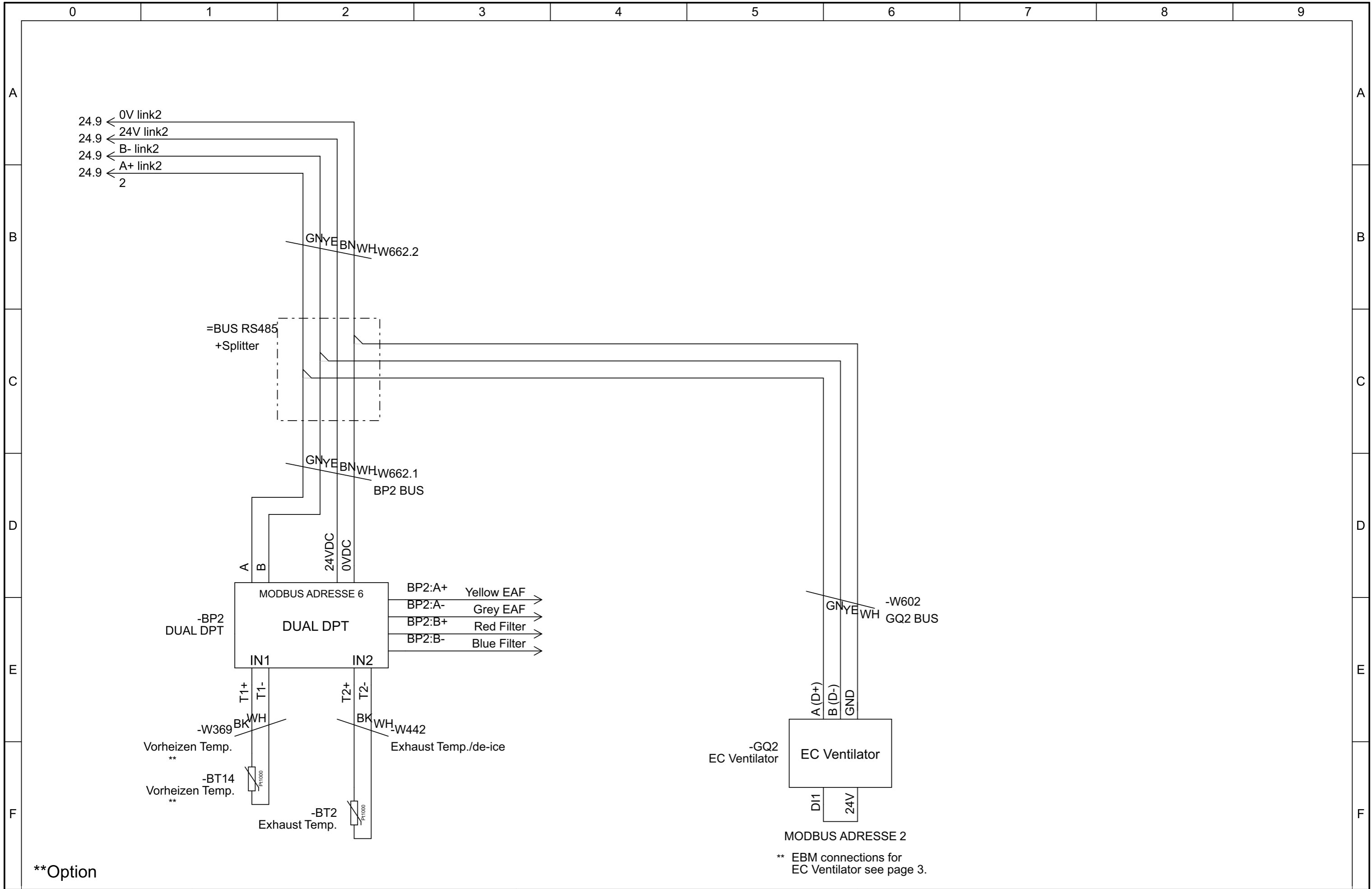
Gesamt Unterlage:
17
Nächstes Blatt:
21

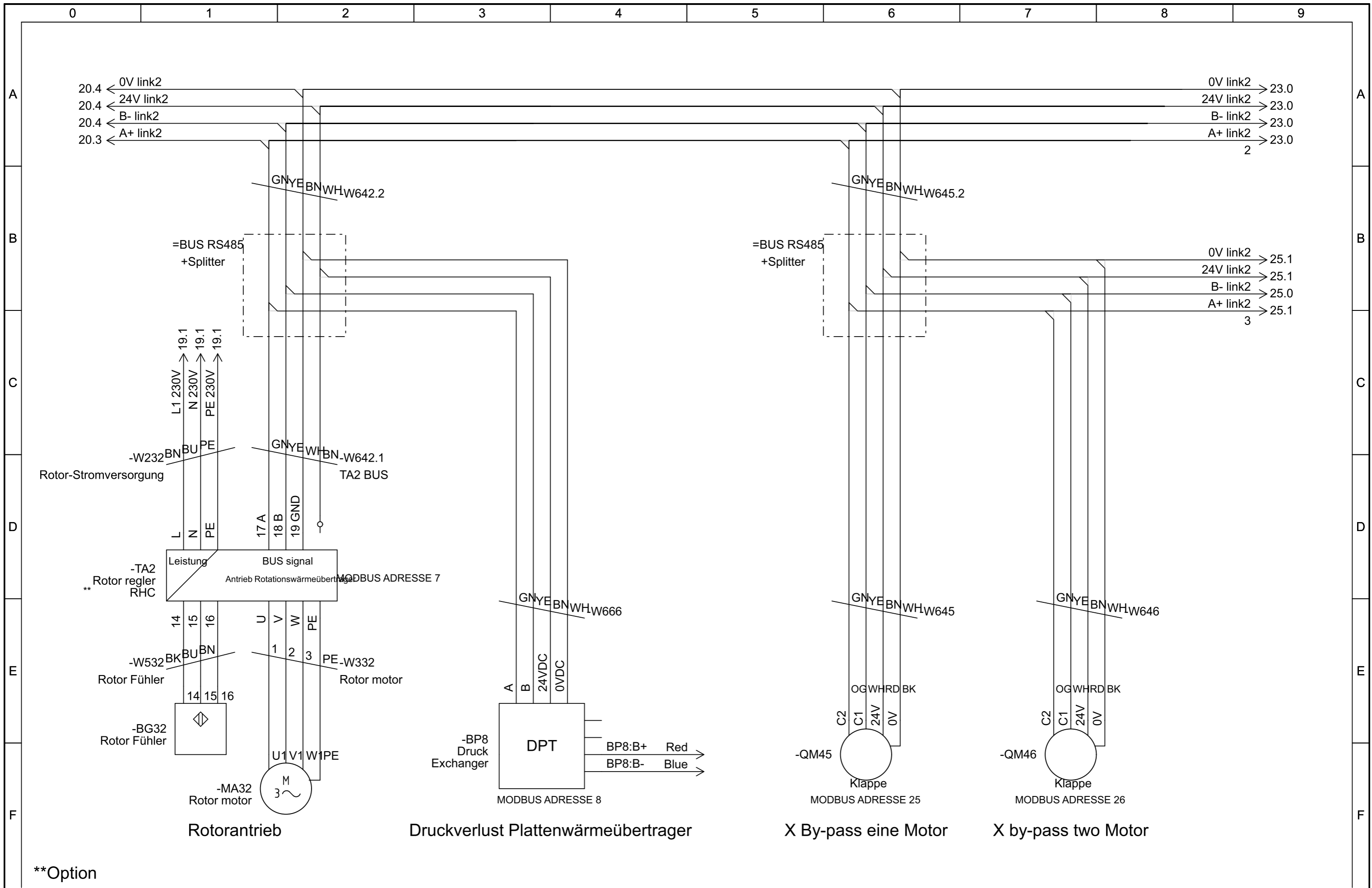


**Option

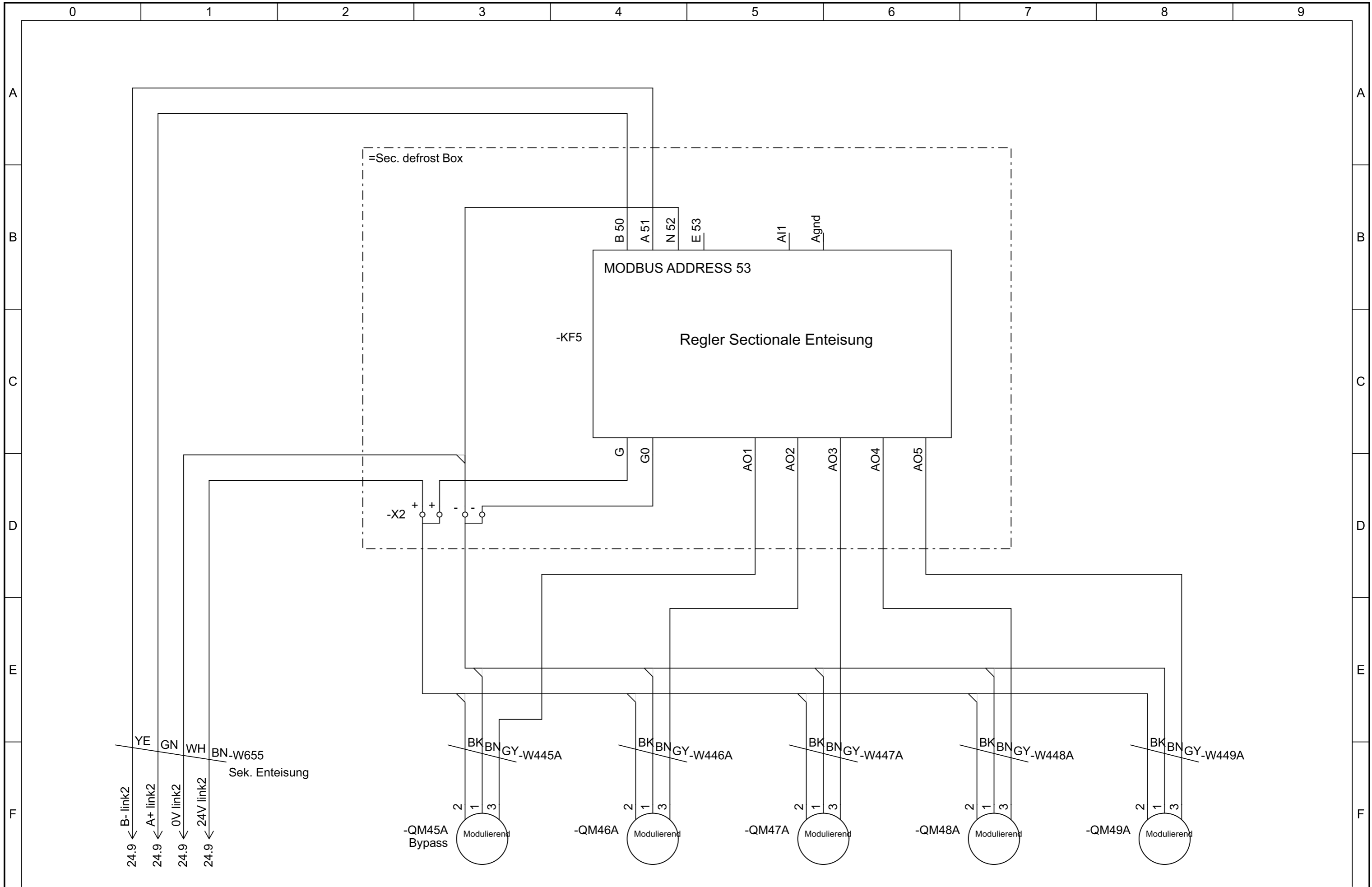
Modbus Adresse (x)







**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.

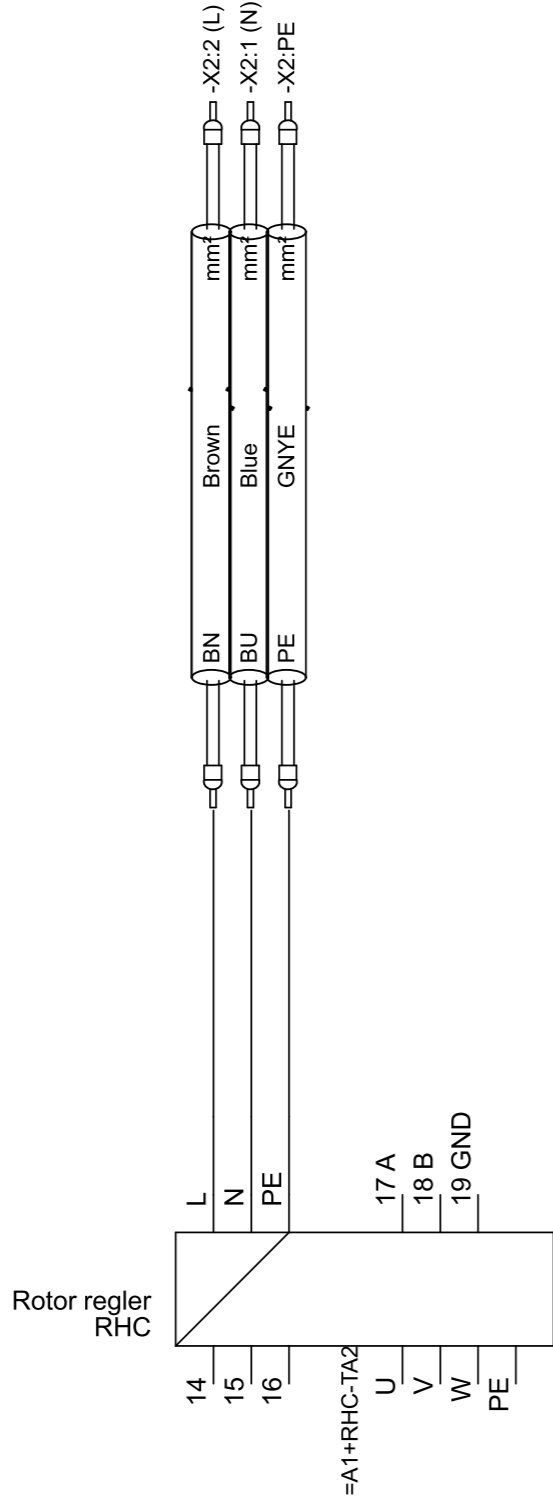
Function is active if D1 is open = no signal.

Anschlussplan

Pfad
Blatt

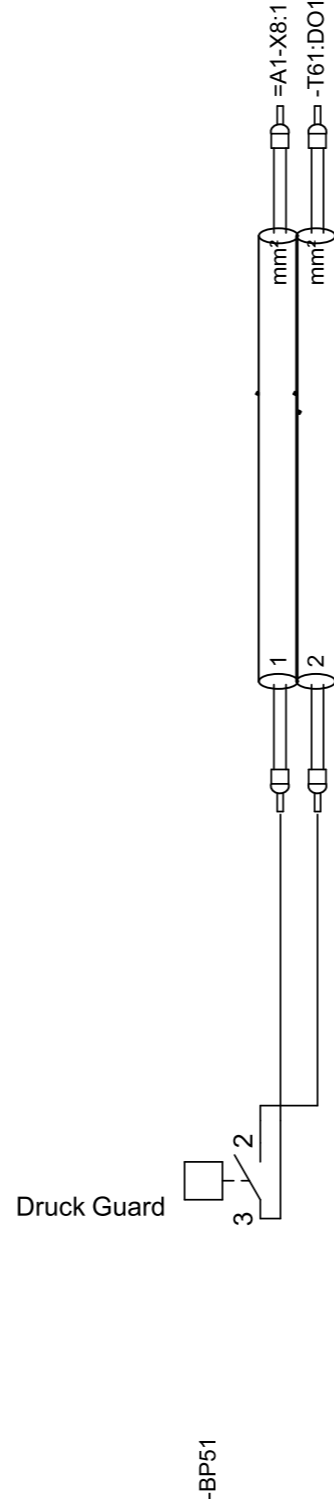
Anmerkung: Rotor-Stromversorgung
Cable-type:

-W232



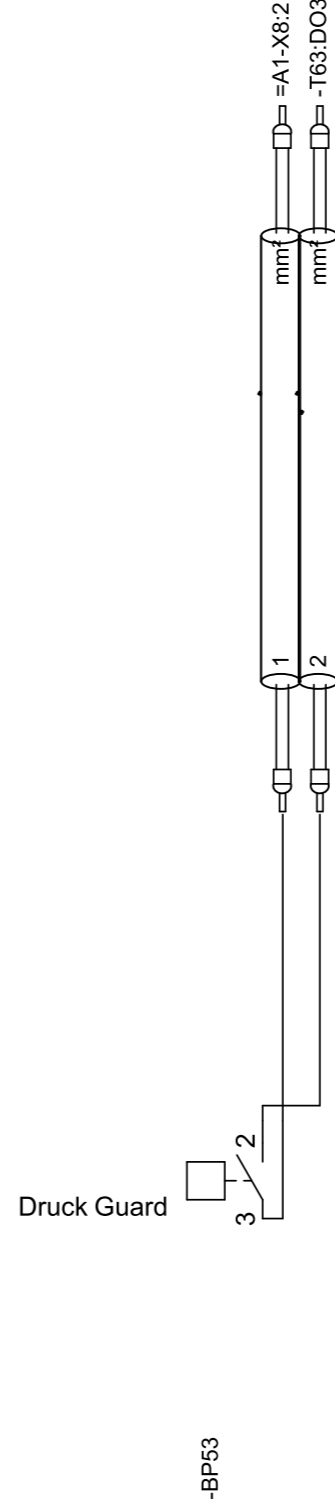
-W251

Anmerkung:
Cable-type:



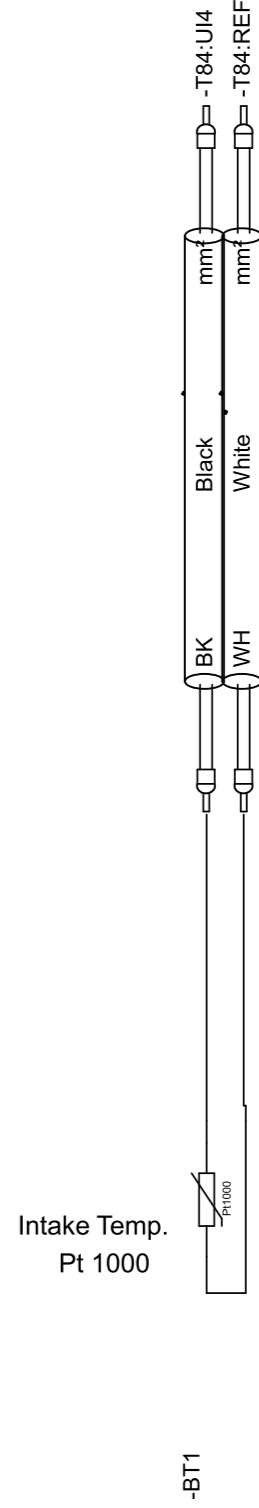
-W253

Anmerkung:
Cable-type:



-W341

Anmerkung: Intake Temp.
Cable-type:



Blatt	24	24	24	14	14	14	14	13	13
Pfad	1	1	1	1	1	6	6	7	7

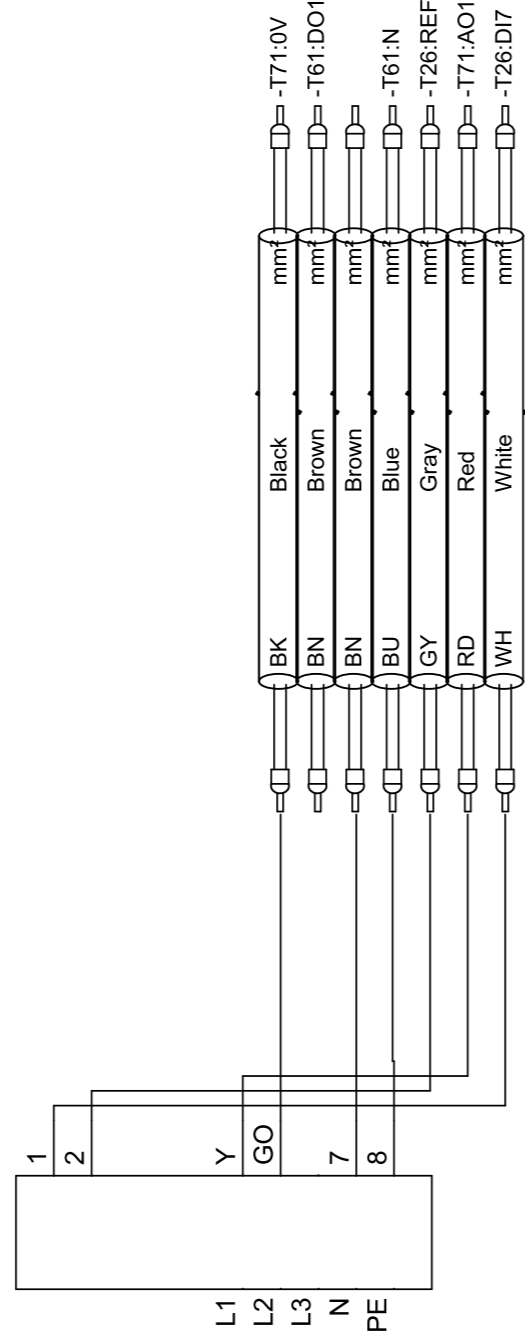
Anschlussplan

Pfad
Blatt

Anmerkung: Elektroerhitzer
Cable-type:

-W351

Elektroerhitzer



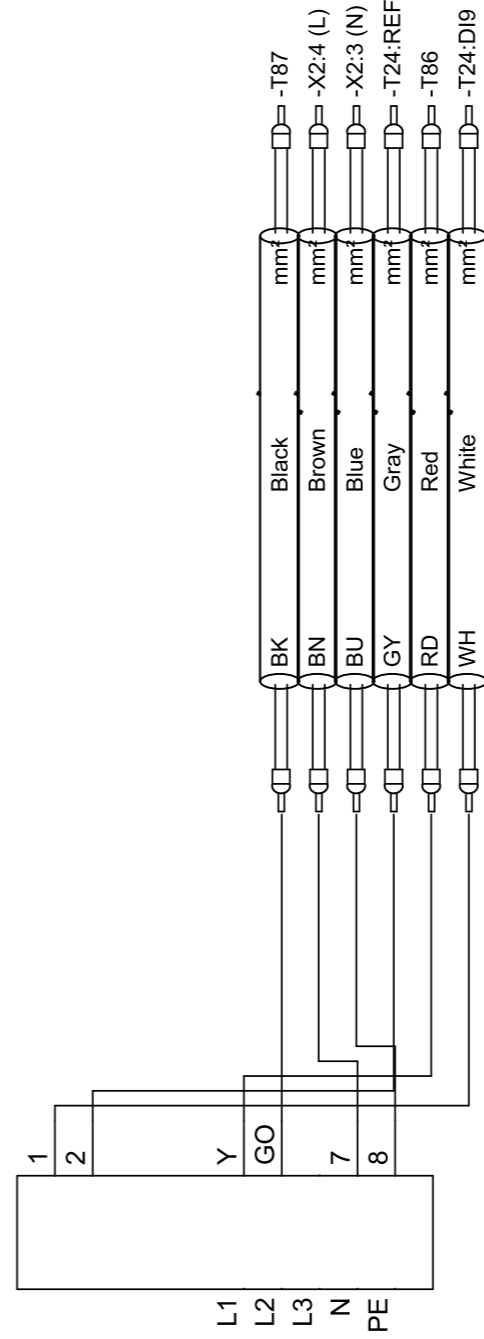
-EB51

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

-W353

Anmerkung: Elektroerhitzer
Cable-type:

Elektrovorerhitzer



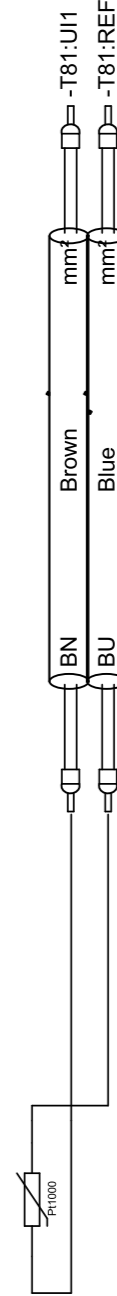
-EB53

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

-W355

Anmerkung: Temperaturfühler Zuluft
Cable-type:

Zuluft
Kanalfühler



-BT5

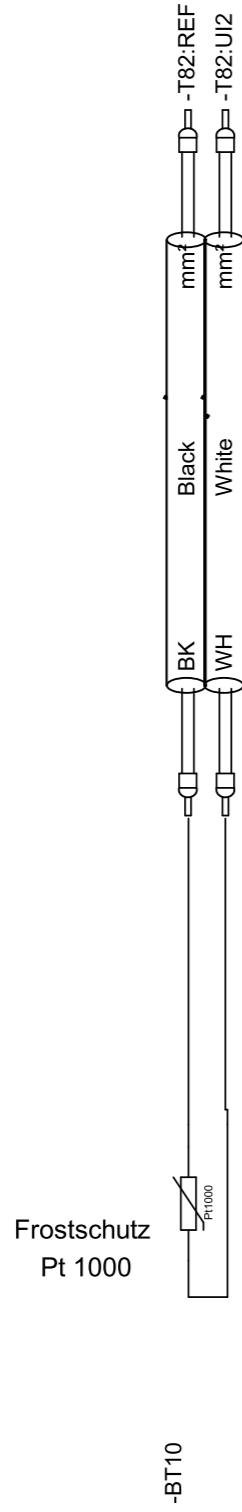
13 1
13 2

Anschlussplan

Pfad
Blatt

Anmerkung: Frostschutz Heizregister
Cable-type:

-W357

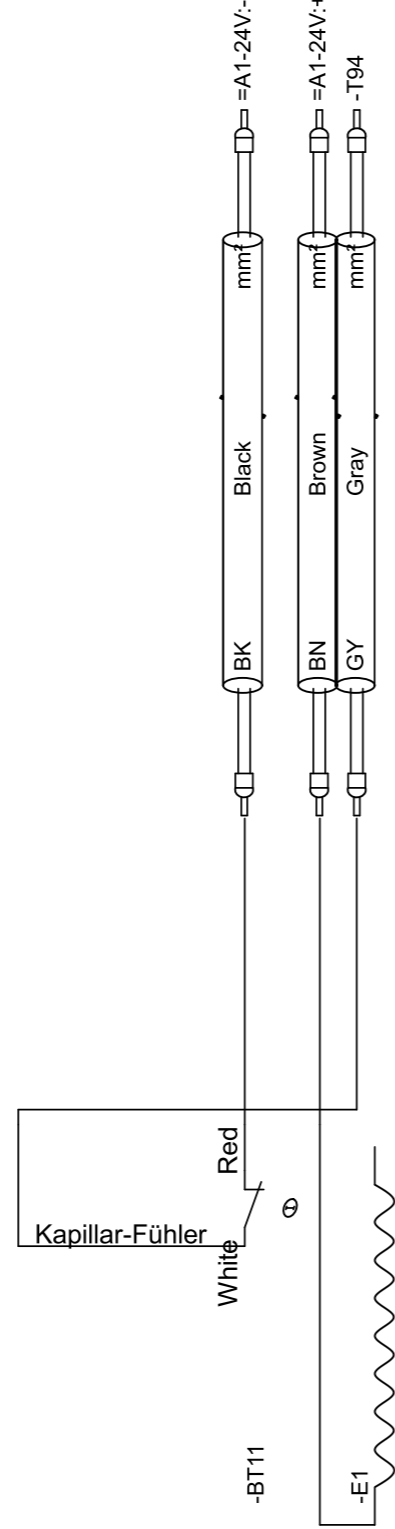


-BT10

4
3
13
13

-W359

Anmerkung: Frostschutz Thermostat
Cable-type:

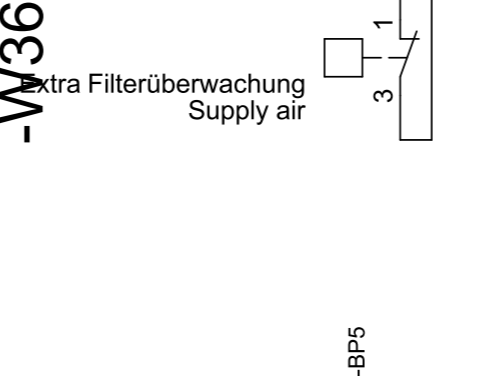


-BT11

2
2
1
11
11
11

-W363

Anmerkung: Extra Filterüberwachung
Cable-type:

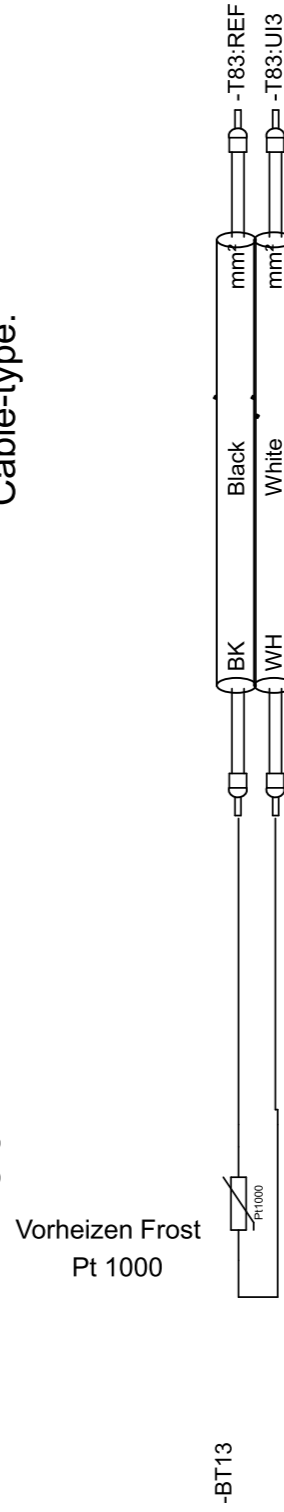


-BP5

4
4
10
10

-W367

Anmerkung: Vorheizen Frost
Cable-type:



-BT13

6
5
13
13

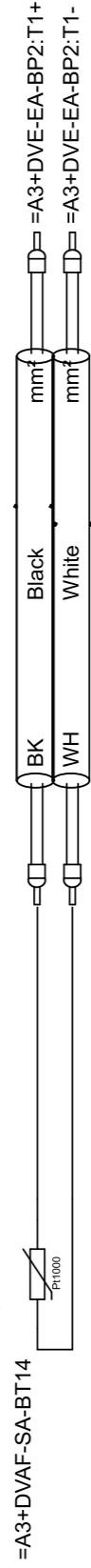
Anschlussplan

Pfad
Blatt

Anmerkung: Vorerhitzer Temp.
Cable-type:

-W369

Vorheizen Temp.



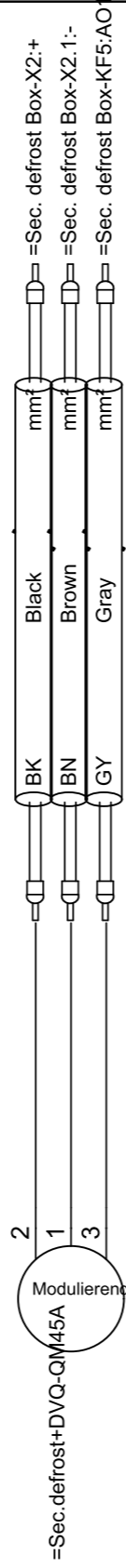
23
23

1
1

-W445A

Anmerkung:
Cable-type:

Bypass



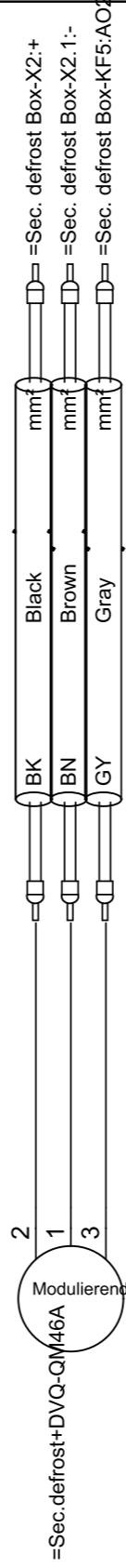
25
25
25

3
3
3

-W446A

Anmerkung:
Cable-type:

Modulieren



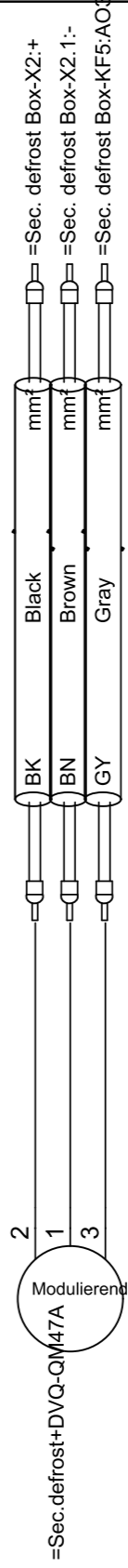
25
25
25

4
4
4

-W447A

Anmerkung:
Cable-type:

Modulieren



25
25
25

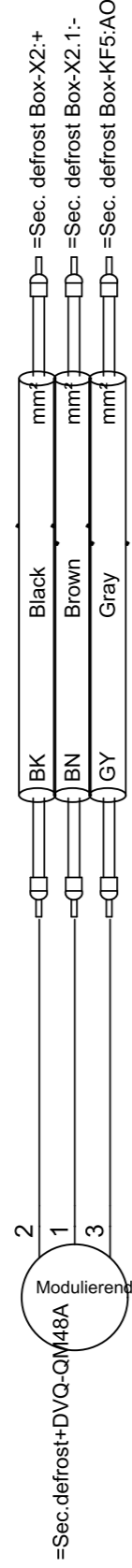
5
6
6

Anschlussplan

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

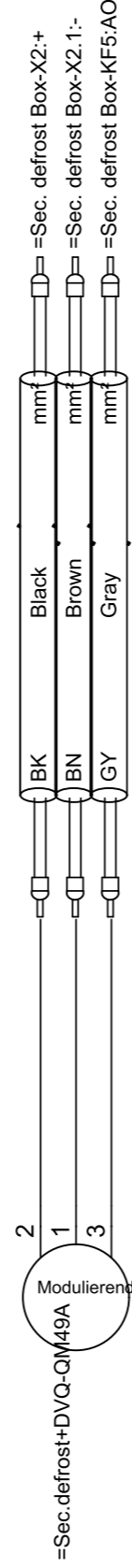
-W448A

Anmerkung:
Cable-type:



-W449A

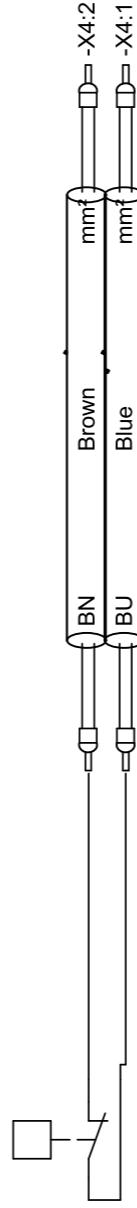
Anmerkung:
Cable-type:



-W456

Anmerkung: Brandschutzthermostat Abluft
Cable-type:

Brand Thermostat

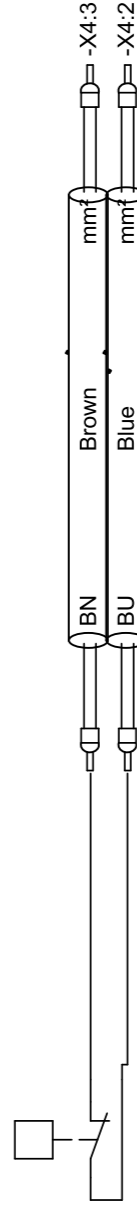


-BR2

-W457

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

Brand Thermostat



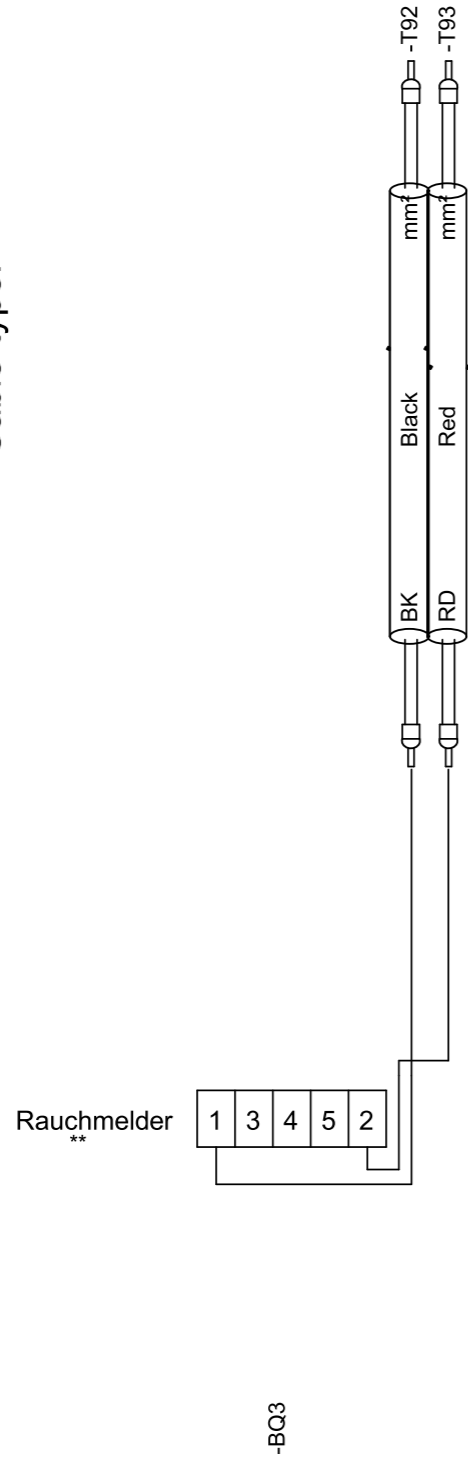
-BR1

Anschlussplan

Pfad
Blatt

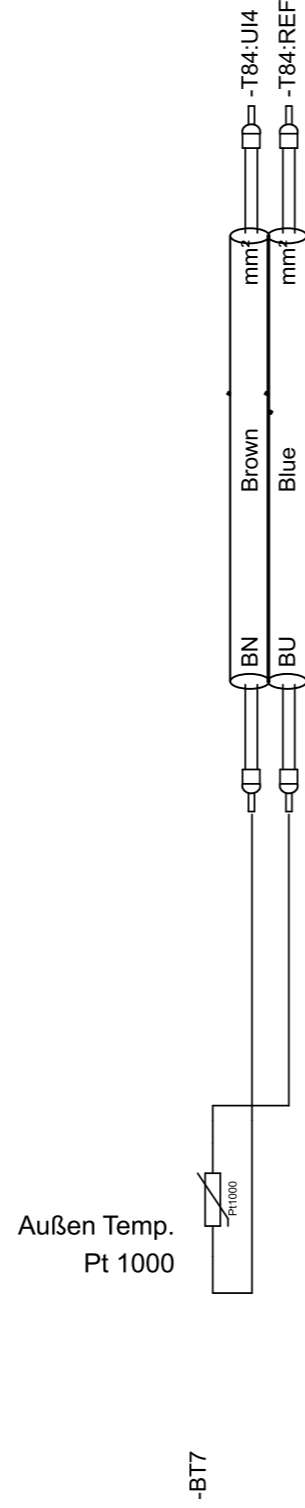
Anmerkung: Rauchmelder
Cable-type:

-W458



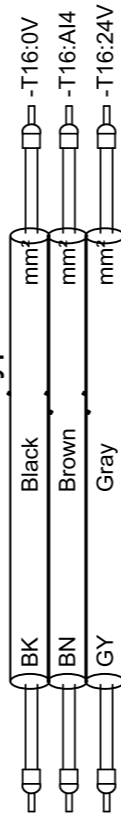
-W507

Anmerkung: Außenluft-Fühler
Cable-type:



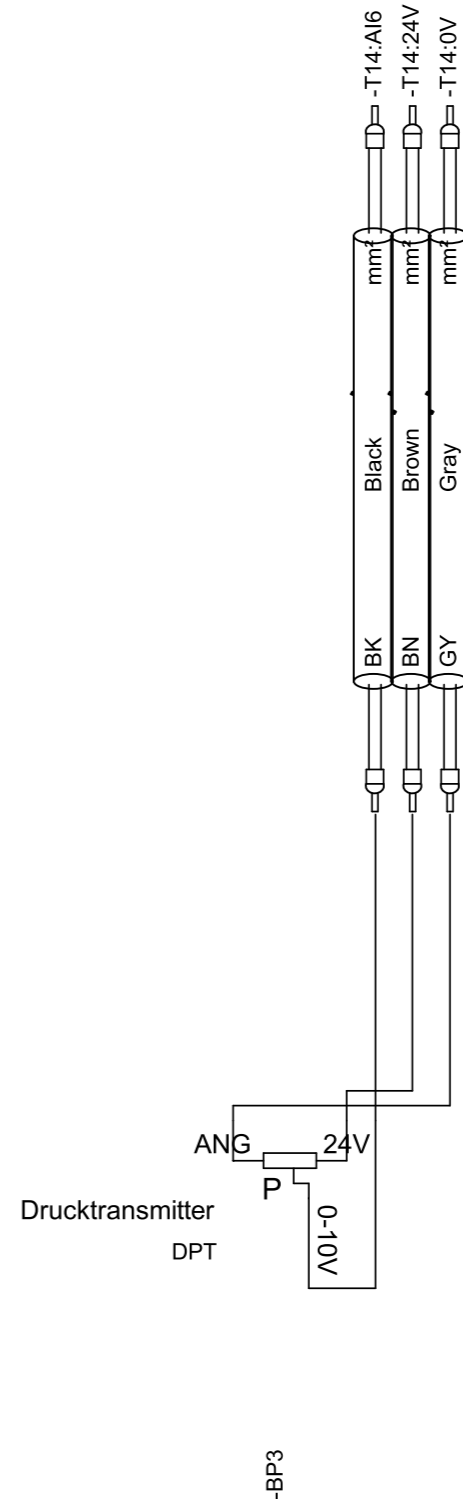
-W508

Anmerkung: Raumfühler 1
Cable-type:



-W513

Anmerkung: Druckverlust Zuluft extern
Cable-type:



0
1

8
8

8
9
9

3
3
2

12
12

13
13

12
12
12

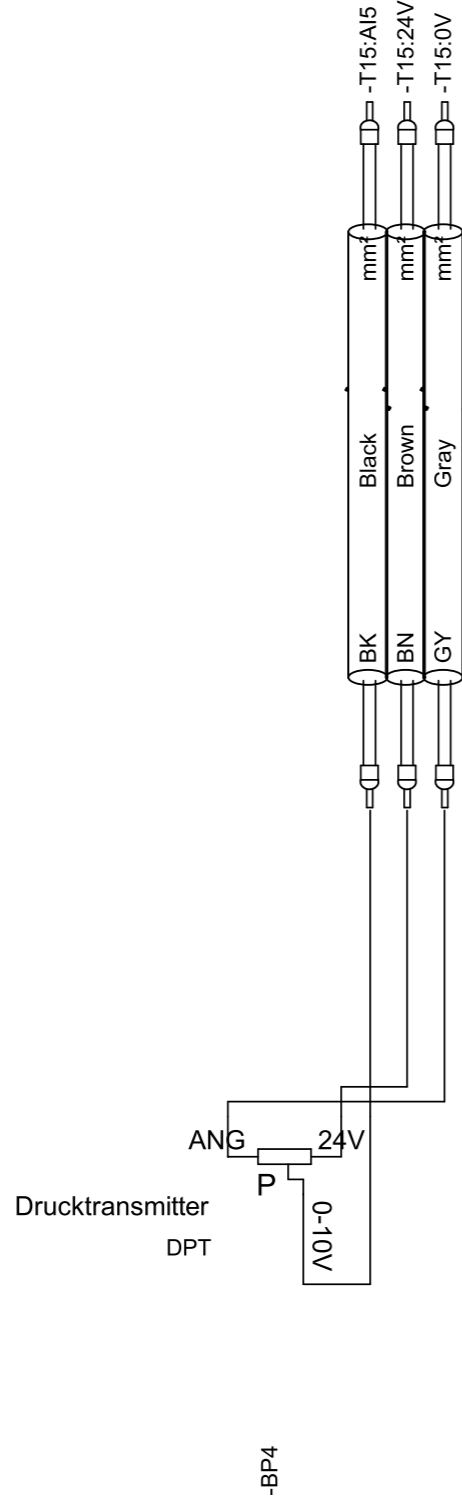
12
12
12

Anschlussplan

Pfad
Blatt

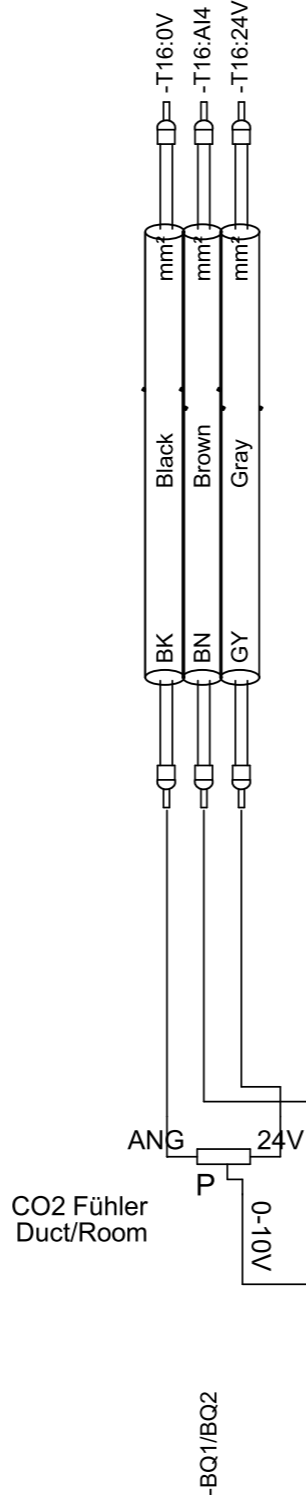
Anmerkung: Druckverlust Abluft extern
Cable-type:

-W514



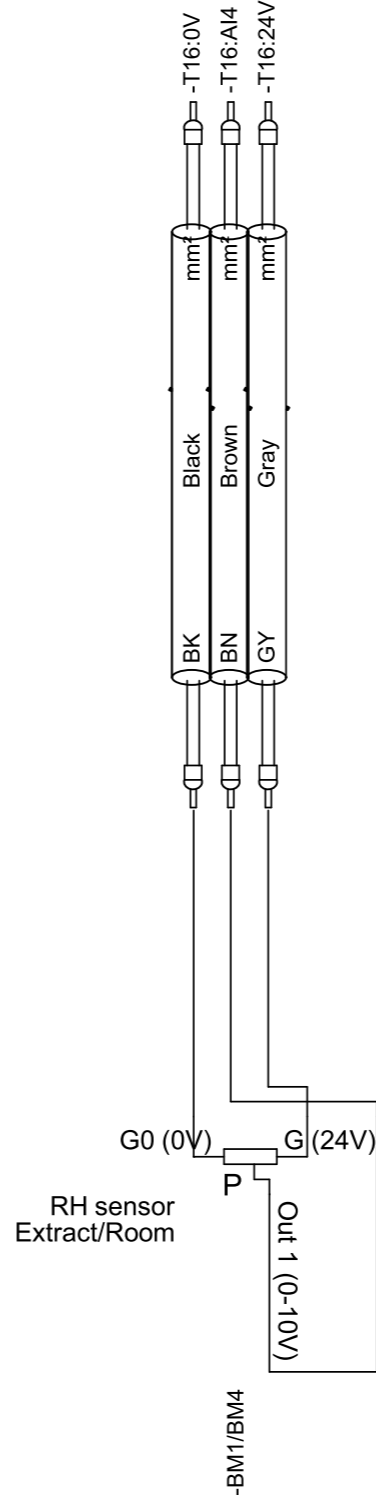
-W515/516

Anmerkung: CO2-Fühler
Cable-type:



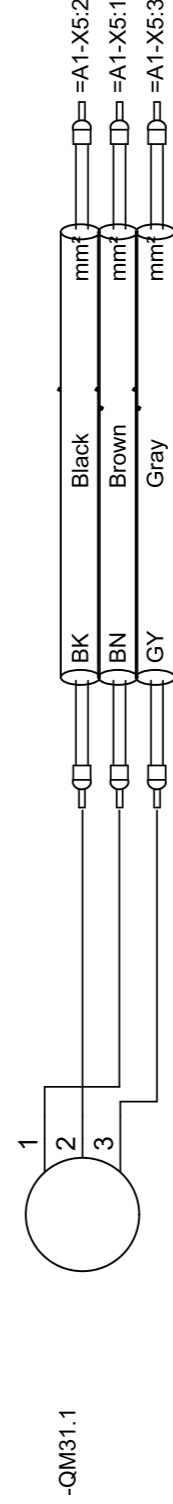
-W517/W520

Anmerkung: RH sensor
Cable-type:



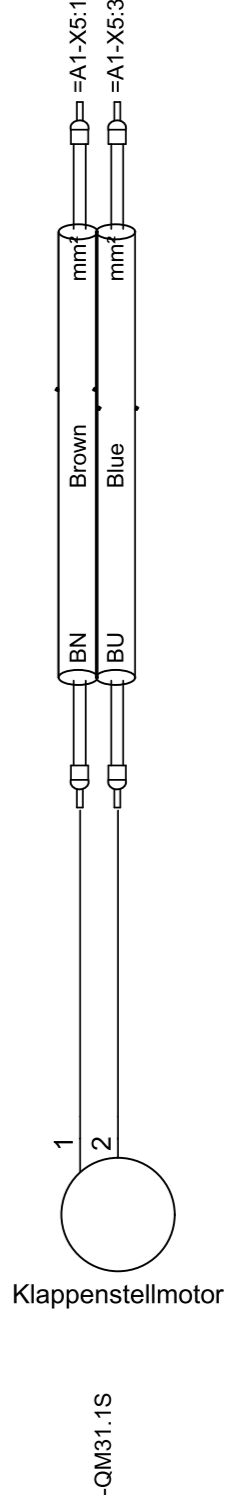
-W531.1

Anmerkung: Klappe Zuluft
Cable-type:



-W531.1S

Anmerkung: Klappe Zuluft
Cable-type:

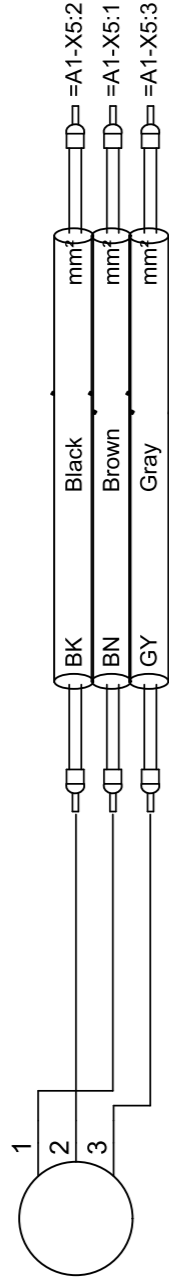


Anschlussplan

Pfad
Blatt

-W532.1

Anmerkung: Klappe Abluft
Cable-type:



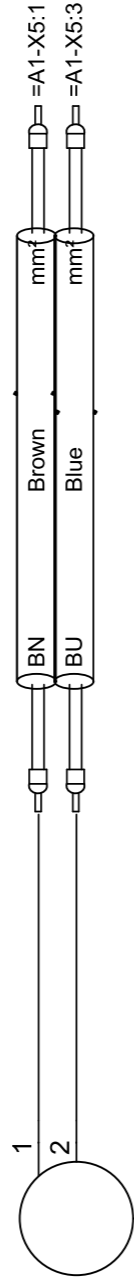
-QM32.1

4
4
4

15

-W532.1S

Anmerkung: Klappe Abluft
Cable-type:



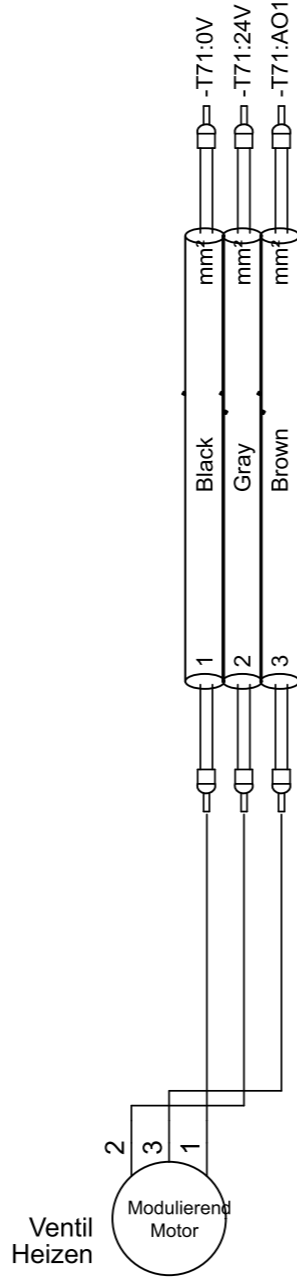
-QM32.1S

5
5

15

-W551

Anmerkung: Heizventil
Cable-type:



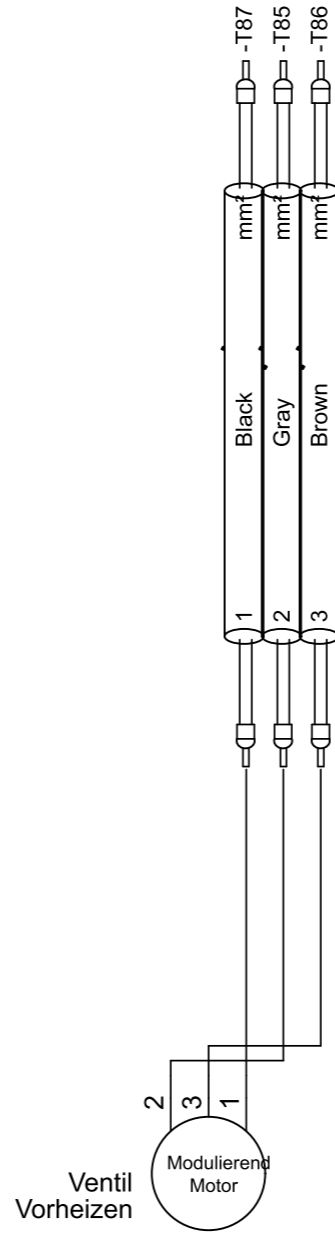
-QN51

2
2
2

16

-W553

Anmerkung: Heizventil
Cable-type:



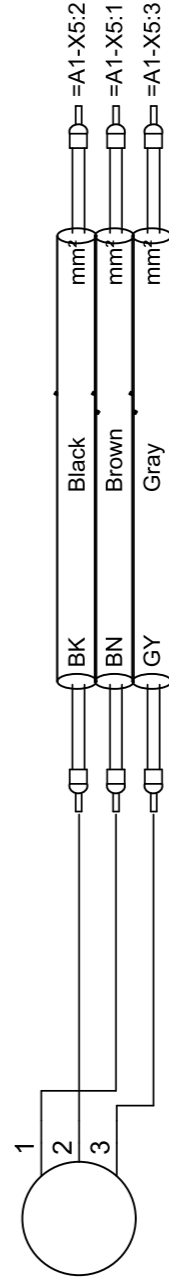
-QN53

2
2
2

17

-W571.1

Anmerkung: Klappe Zuluft 2
Cable-type:



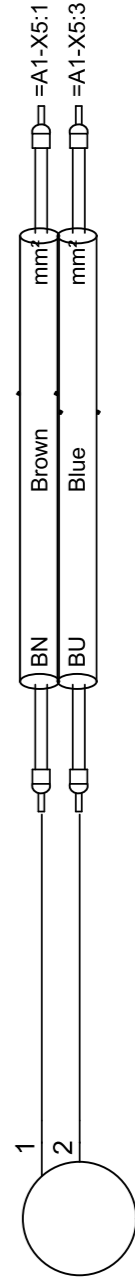
-QM71.1

2
2
2

15

-W571.1S

Anmerkung: Klappe Zuluft 2
Cable-type:



-QM71.1S

3
3

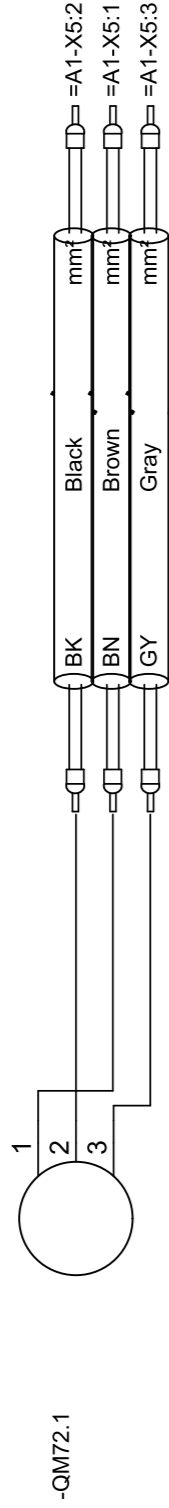
15

Anschlussplan

Pfad
Blatt

-W572.1

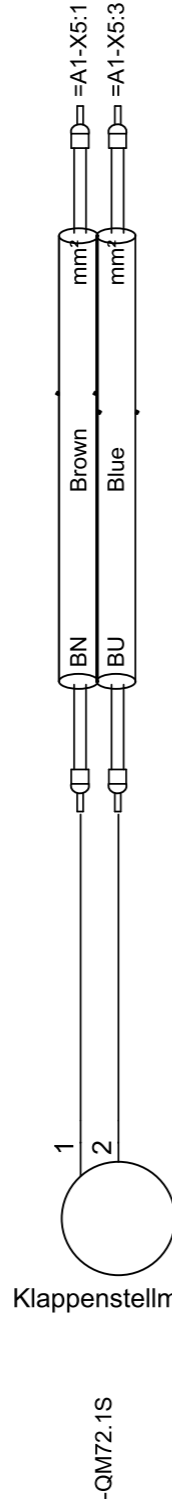
Anmerkung: Klappe Abluft 2
Cable-type:



-QM72.1

-W572.1S

Anmerkung: Klappe Abluft 2
Cable-type:

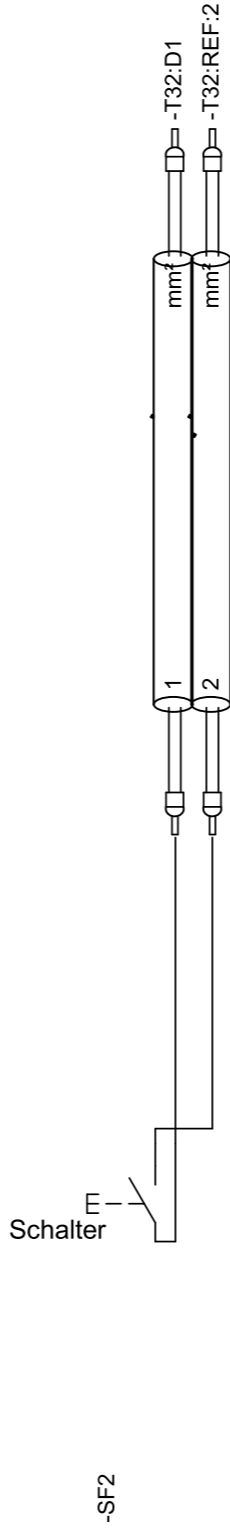


-QM72.1S

Klappenstellmotor

-W580

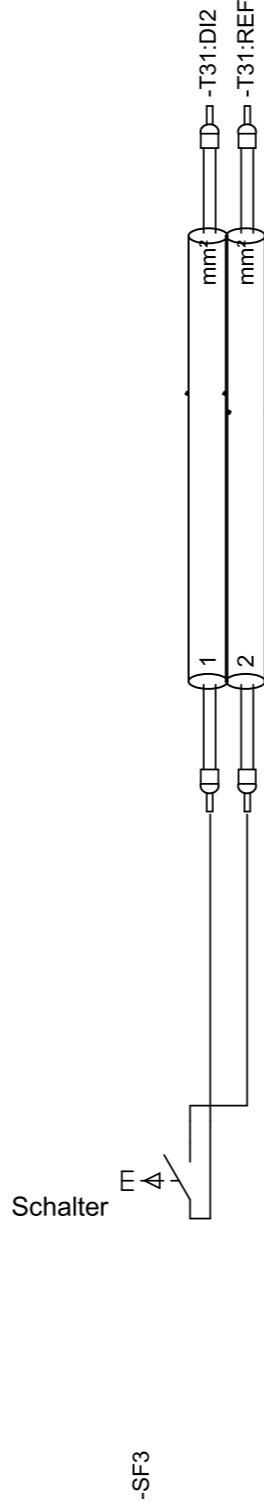
Anmerkung: Reduzierte Drehzahl
Cable-type: 2x0,75mm²



-SF2

-W581

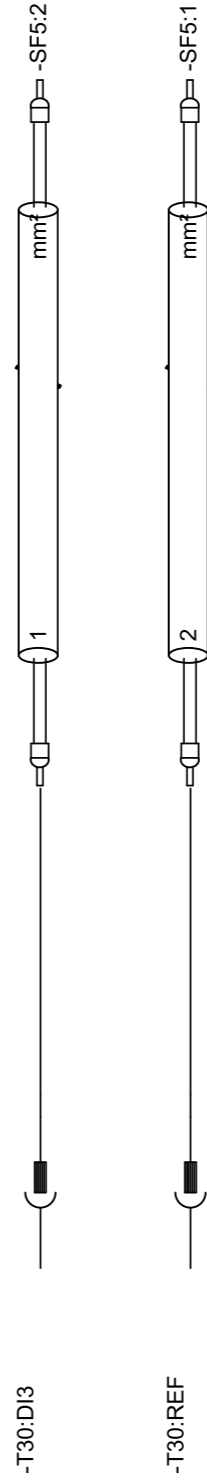
Anmerkung: Normale Drehzahl extern
Cable-type:



-SF3

-W583

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

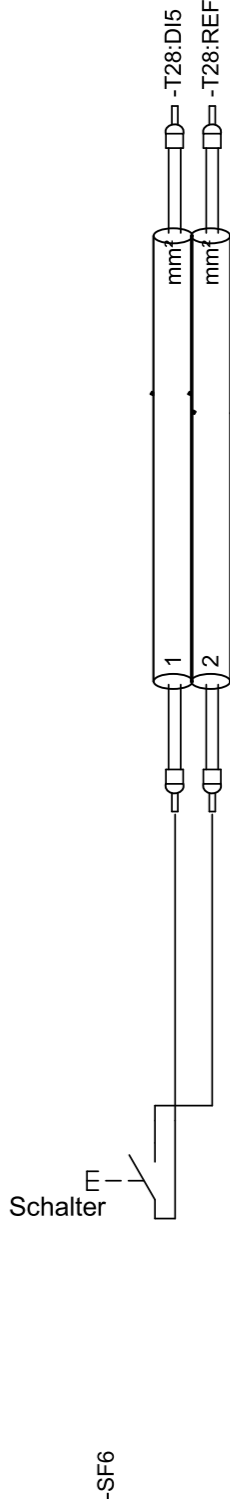


-T30:D13

-T30:REF

-W584

Anmerkung: Change over
Cable-type:



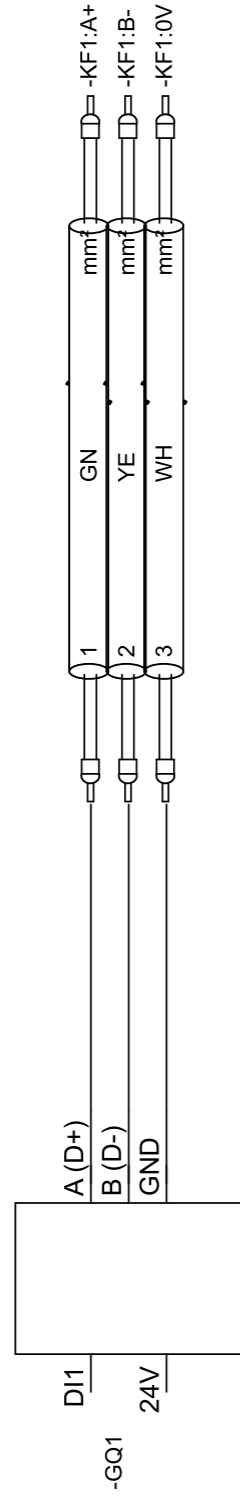
-SF6

-T28:D15
-T28:REF

Anschlussplan

-W601

EC Ventilator

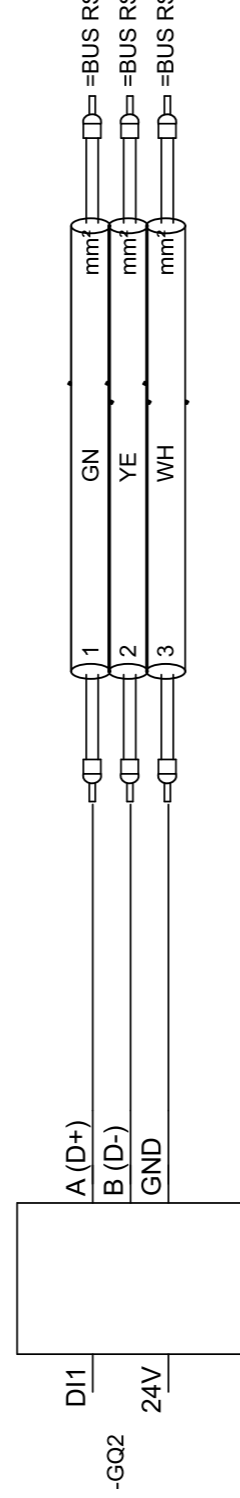


Anmerkung: GQ1 BUS
Cable-type: 4x0,6mm²

Blatt 22 22 22
Pfad 5 5 6

-W602

EC Ventilator

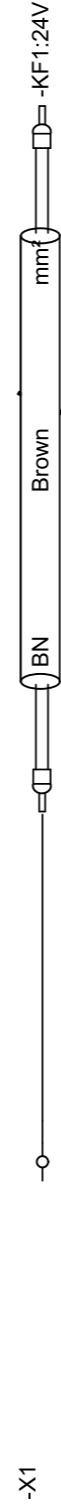


Anmerkung: GQ2 BUS
Cable-type: 4x0,6mm²

Blatt 24 24 24
Pfad 6 6 6

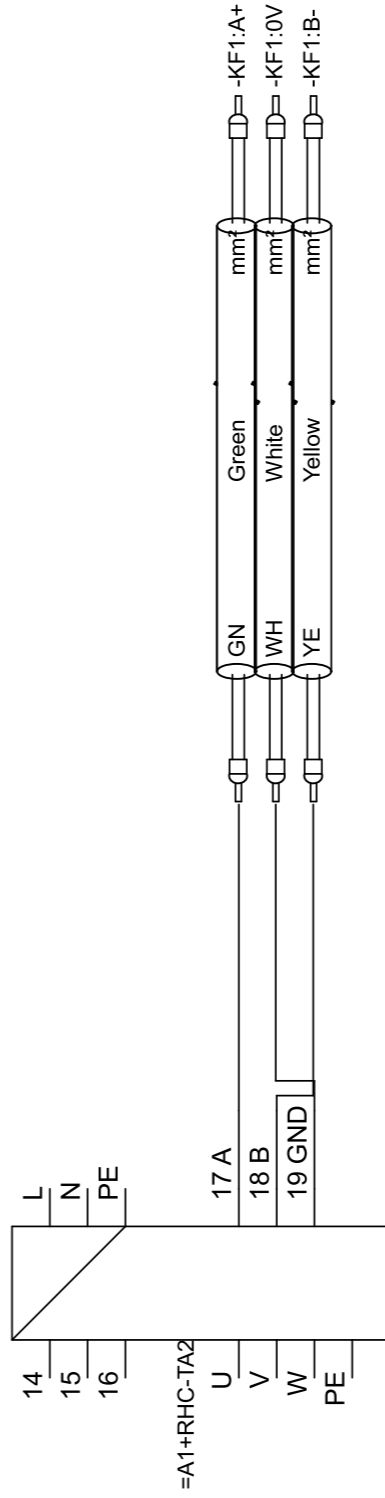
-W642.1

Anmerkung: TA2 BUS
Cable-type:



Blatt 24
Pfad 2

Rotor regler RHC

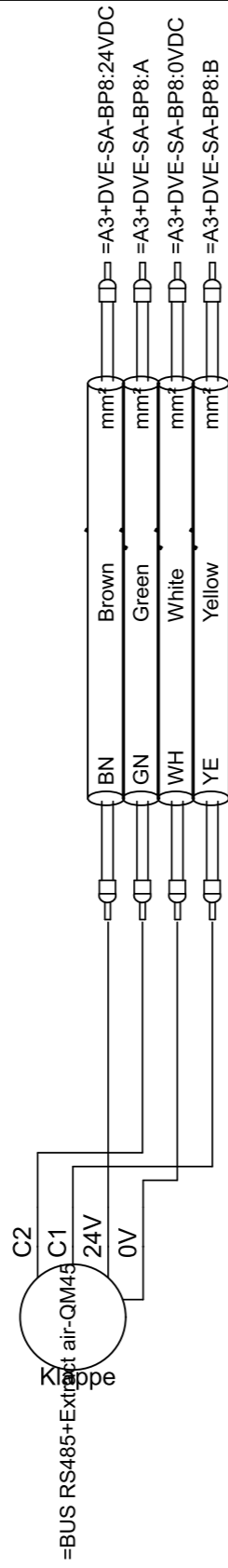


Blatt 24 24 24
Pfad 1 2 2

Anschlussplan

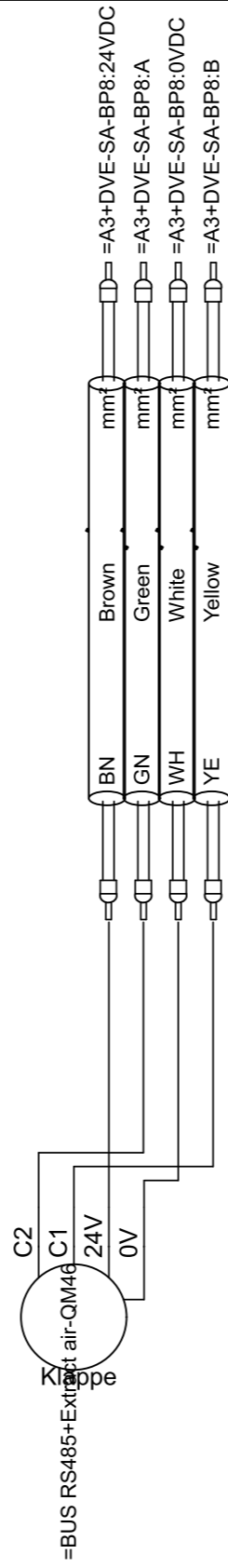
-W645

Anmerkung: Abluft
Cable-type:



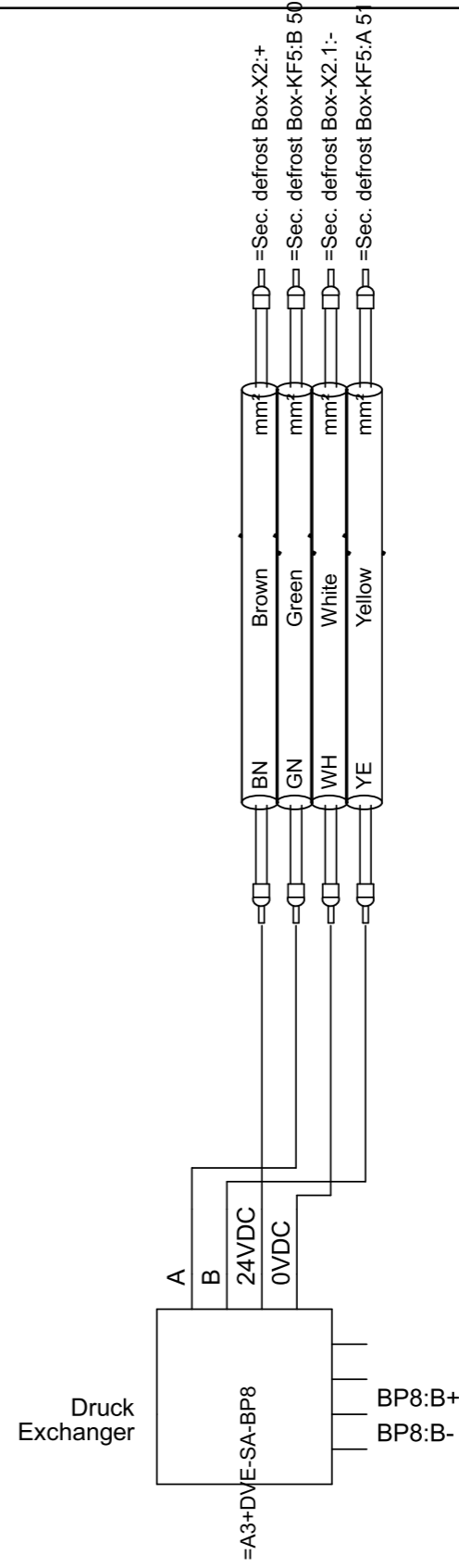
-W646

Anmerkung: Abluft
Cable-type:



-W655

Anmerkung: Sek. Enteisung
Cable-type:



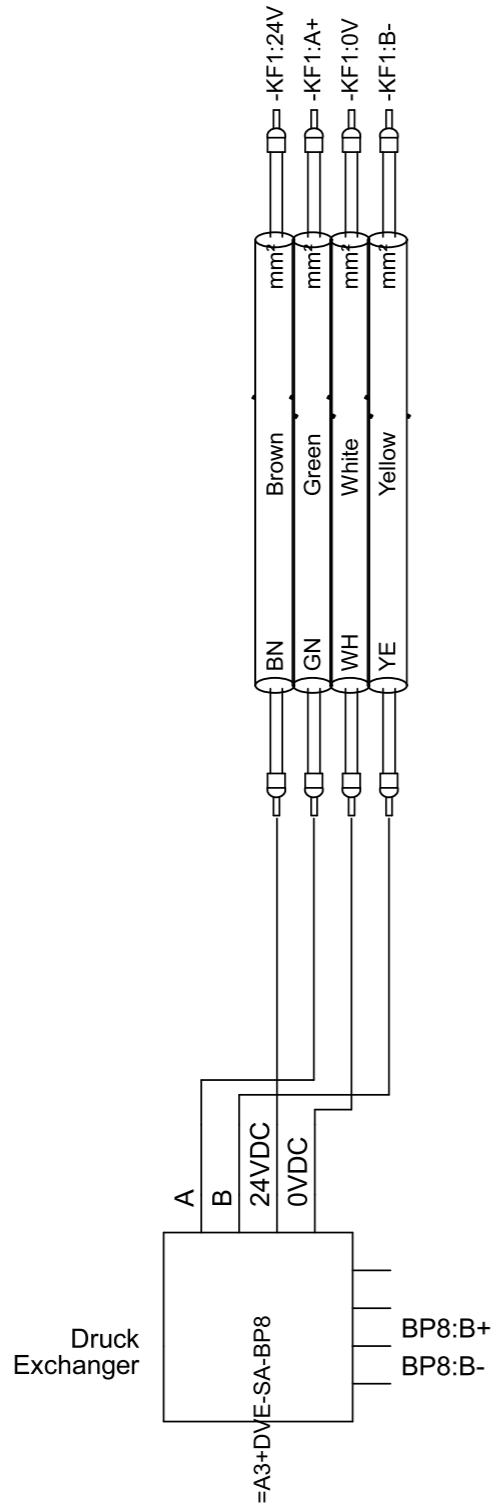
Pfad	Blatt
6	24
6	24
6	24
6	24
7	24
7	24
8	24
7	24
1	25
1	25
1	25
0	25

Anschlussplan

Pfad
Blatt

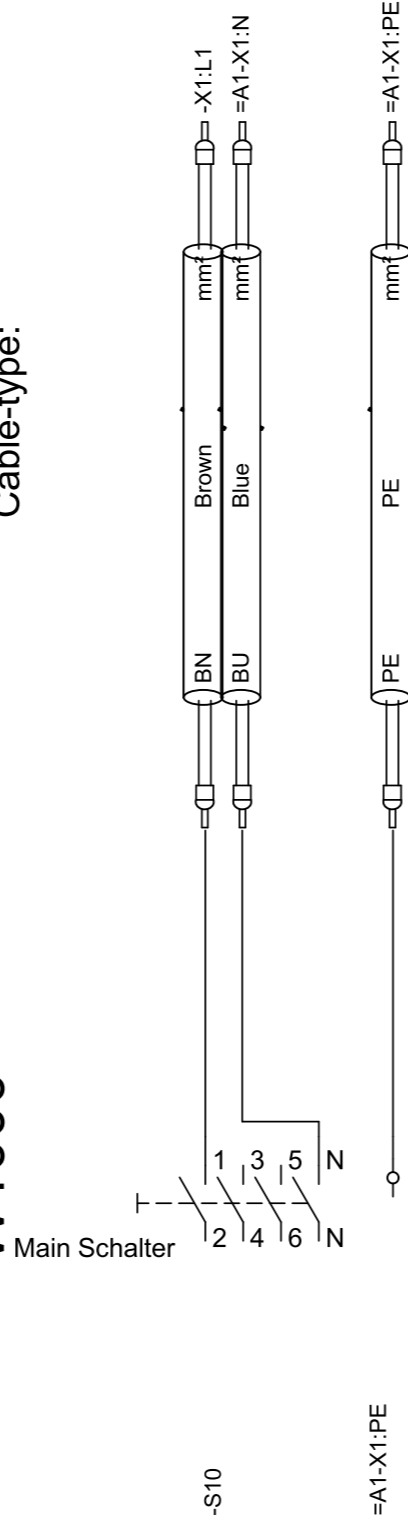
Anmerkung: Druckverlust Plattenwärme
Cable-type:

-W666



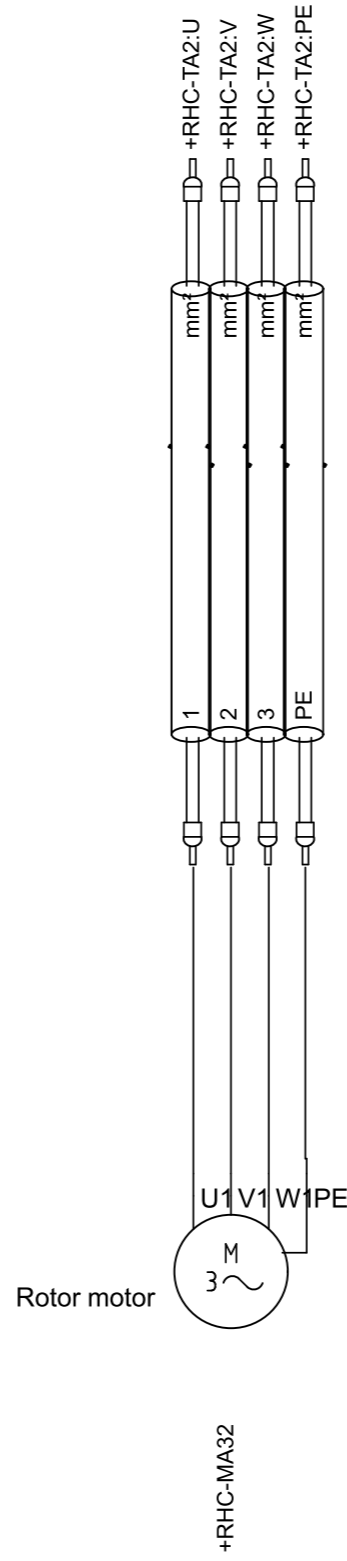
-W1000

Anmerkung: Hauptstromversorgung
Cable-type:



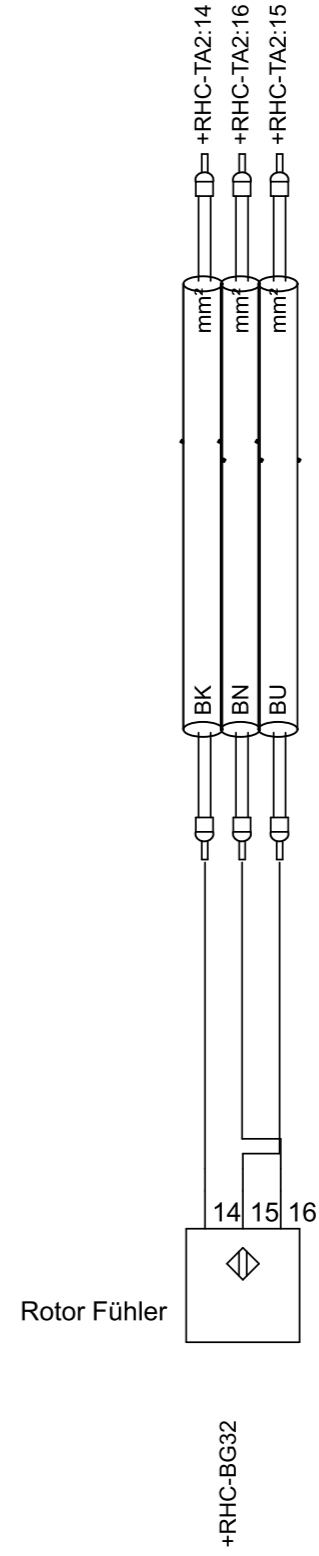
=A1-W332

Anmerkung: Rotor-Motor
Cable-type:



=A1-W532

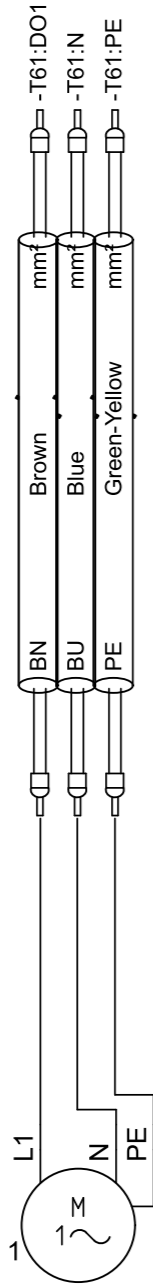
Anmerkung: Rotor-Sensor
Cable-type:



Anschlussplan

=A1-W550

Mischerpumpe 1



-GP50

Anmerkung: Umwälzpumpe
Cable-type:

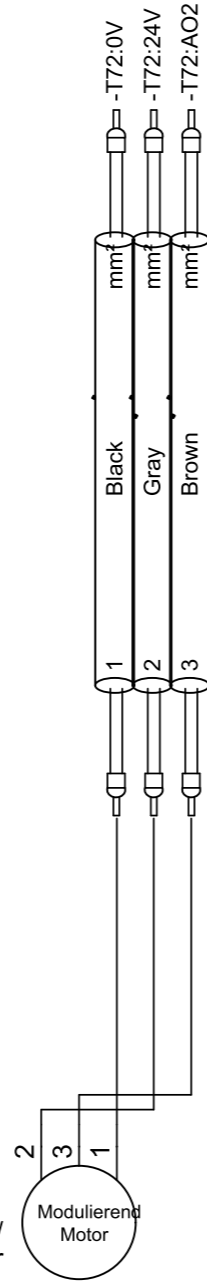
Blatt
Pfad

14
14
14

1
2
2

=A1-W554

Ventil für Kühlung/
Change over



-QN54/QN56

=A1-W700

Lichtschalter



-SF1

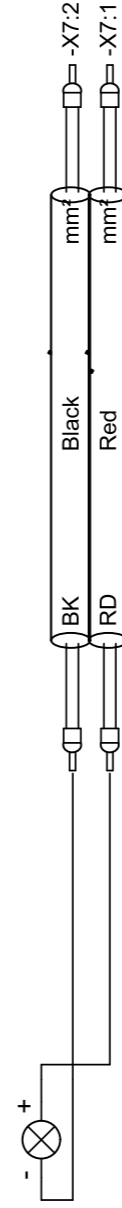
Anmerkung: Lichtschalter
Cable-type:

16
16
16

7
7
7

=A1-W701

-EA1



-EA1

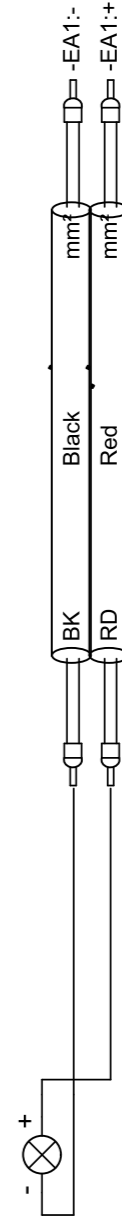
Anmerkung: Licht P20
Cable-type:

19
19

5
5

=A1-W702

-EA2



Anmerkung: Licht P20
Cable-type:

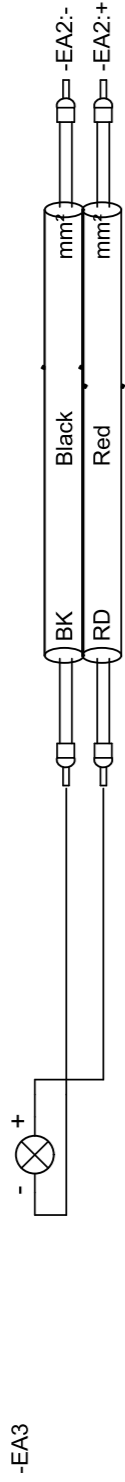
19
19

7
6

Anschlussplan

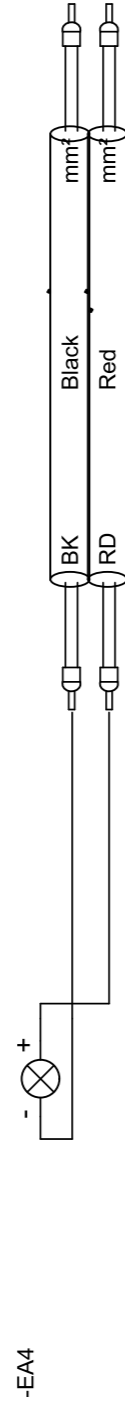
=A1-W703

Anmerkung: Licht P20
Cable-type:



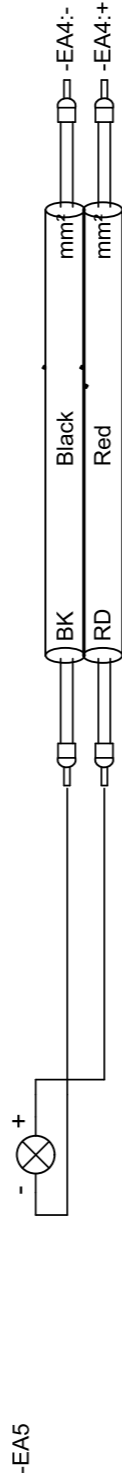
=A1-W704

Anmerkung: Licht P21
Cable-type:



=A1-W705

Anmerkung:
Cable-type:



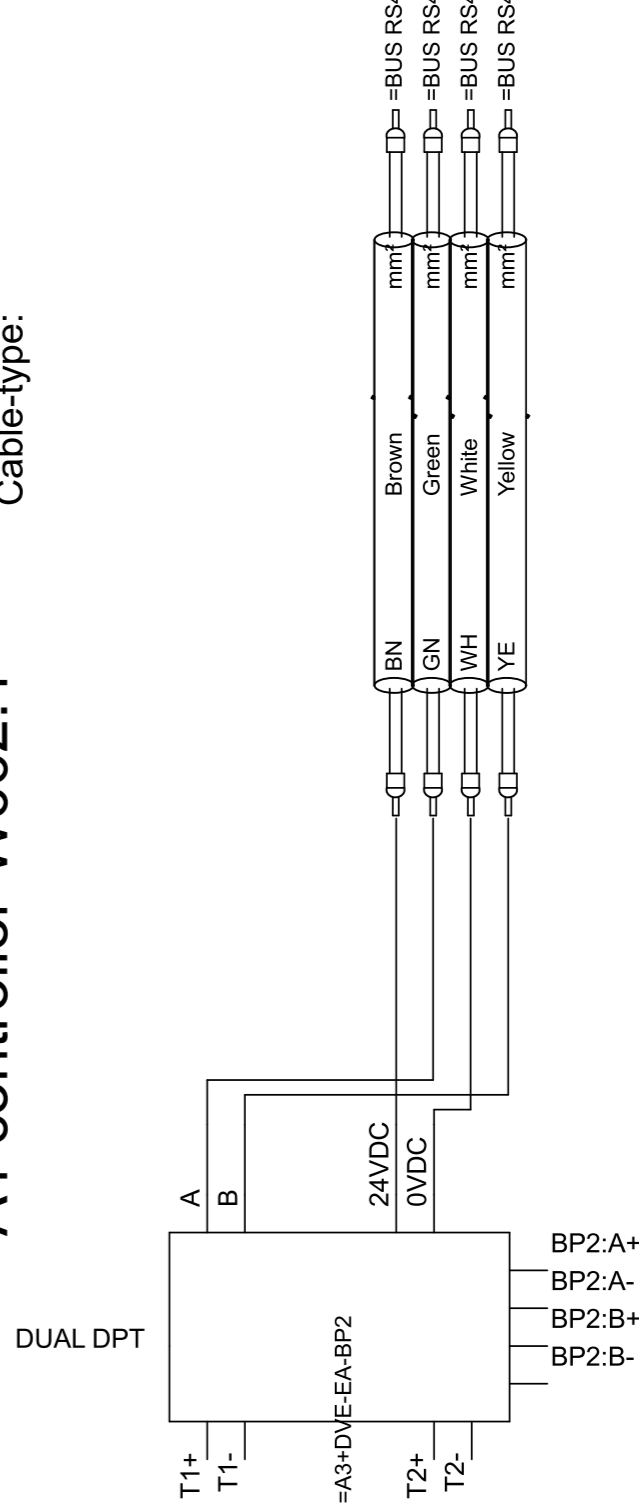
=A1 controller-W661.1

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

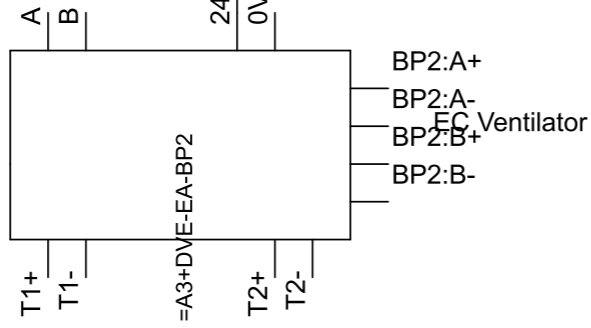
2
2
2
2

Anschlussplan

=A1 controller-W662.2

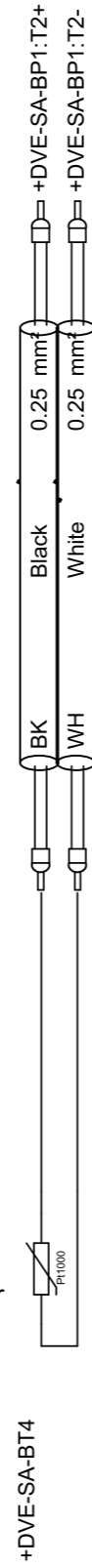
Anmerkung: BP2 BUS
Cable-type:

DUAL DPT



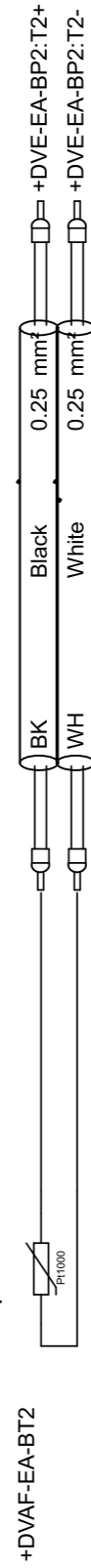
=A3-W343

Eff. Temperatur



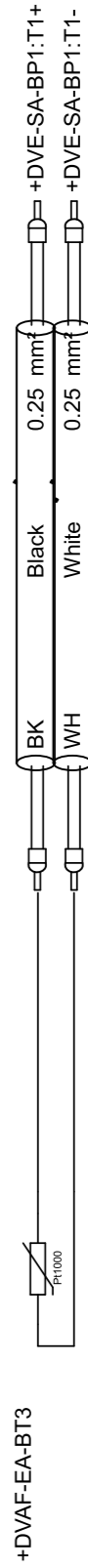
=A3-W442

Exhaust Temp.



=A3-W444

Abluft Temp.

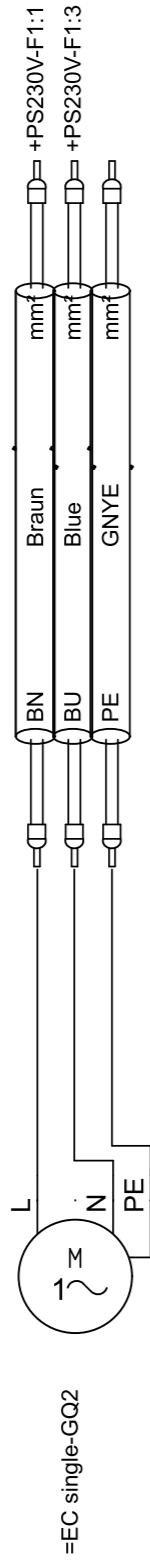


Pfad	Blatt

	2
	2
	2
	22
	22
	23
	23
	1
	1

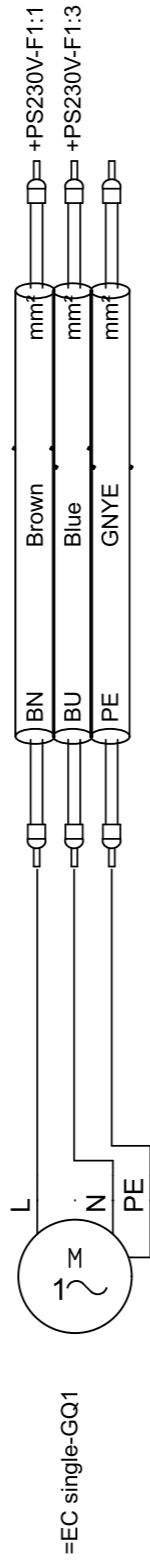
Anschlussplan

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



=EC single-GQ2

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



=EC single-GQ1

Pfad
Blatt

7
18
18
18

4
18
18
18