

### Wire colors

Primary current : black  
230V AC / 230V/0 : red / red-white  
24V AC / 24V/0 : grey / grey-white  
24V + / 24V - : darkblue / blue-white  
external voltage : orange  
DDC : brown  
Test cable : white  
Neutral conductor : blue  
Ground connection : green - yellow  
others : violet

### EN regulations

HD 60364  
EN 61439-1

### VDE

VDE 0100  
VDE 0660

### Terminal strips

X01 in front of main switch  
X1 Primary current  
X2 control unit 230V  
X3 low voltage  
X4 analog signals  
X5 signal-exchange with external unit  
X6 bus lines  
X7 external voltage  
X8 ex area

### international IEC

IEC 60364  
IEC 61439-1

### Electrical cabinet

Electrical cabinet : integrated in the AHU  
Housing color :  
Protection class : IP 54  
Cable entry : bottom  
Door hinges : left and right

### Operating values

Operating voltage : 400V AC  
control unit General : 230V AC / 24V DC  
Optical Display : Auf Display  
Frequency : 50 Hz  
control system : DEOS  
Feed-in : 100A

|                                     |             |            |             |                                         |     |                                                                                                   |  |                  |             |
|-------------------------------------|-------------|------------|-------------|-----------------------------------------|-----|---------------------------------------------------------------------------------------------------|--|------------------|-------------|
| Project<br>Mc Donald`s DK - Ronnede |             |            |             | Component<br>ventilation                |     | customer<br> |  |                  |             |
| Created on                          | 10.Okt.2024 | Plannend : | K. Werner   | highest page number :                   | 160 |                                                                                                   |  |                  |             |
| Last rev. date:                     | 17.Okt.2024 | Drafted :  | K. Werner   | Quantity of pages :                     | 92  |                                                                                                   |  |                  |             |
| Test date:                          | 17.Sep.2024 | Name :     | Hr. Strunk  |                                         |     |                                                                                                   |  |                  |             |
|                                     |             |            |             |                                         |     | Following page -> 1.a                                                                             |  |                  |             |
|                                     |             | Date       | 17.Okt.2024 | Mc Donald`s DK - Ronnede<br>ventilation |     | Cover page                                                                                        |  | Fabr.. Nr. 7296  |             |
|                                     |             |            | KW          |                                         |     |                                                                                                   |  |                  |             |
| Change                              | Date        | Name       |             |                                         |     |                                                                                                   |  | Auftr. Nr. 24502 | D.No.: 9804 |
|                                     |             |            |             |                                         |     |                                                                                                   |  |                  |             |
|                                     |             |            |             |                                         |     |                                                                                                   |  |                  |             |

|        |      |      |      |             |                                         |  |                                                                                       |             |                  |             |   |          |
|--------|------|------|------|-------------|-----------------------------------------|--|---------------------------------------------------------------------------------------|-------------|------------------|-------------|---|----------|
|        |      |      | Date | 17.Okt.2024 | Mc Donald`s DK - Ronnede<br>ventilation |  |  | Output data | Fabr.. Nr. 7296  |             | = |          |
|        |      |      |      | KW          |                                         |  |                                                                                       |             |                  | +           |   | Page 1.a |
|        |      |      |      |             |                                         |  |                                                                                       |             |                  |             |   |          |
| Change | Date | Name |      |             |                                         |  |                                                                                       |             | Auftr. Nr. 24502 | D.No.: 9804 |   | Page 160 |

Table of contents

Mueller

| Page | Page designation                   | Page supplementary field | Date        | processed by |
|------|------------------------------------|--------------------------|-------------|--------------|
| 1    | Cover page                         |                          | 17.Okt.2024 | KW           |
| 1.a  | Output data                        |                          | 17.Okt.2024 | KW           |
| 2    | Table of contents                  |                          | 17.Okt.2024 | KW           |
| 2.a  | Table of contents                  |                          | 17.Okt.2024 | KW           |
| 2.b  | Table of contents                  |                          | 17.Okt.2024 | KW           |
| 2.c  | Table of contents                  |                          | 17.Okt.2024 | KW           |
| 3    | Feed-in and lighting               |                          | 17.Okt.2024 | KW           |
| 4    | phase monitoring                   |                          | 10.Okt.2024 | PTH          |
| 5    | control voltage 230V AC and 24V DC |                          | 10.Okt.2024 | PTH          |
| 7    | fault reset                        |                          | 17.Okt.2024 | KW           |
| 9    | safety-line                        |                          | 17.Okt.2024 | KW           |
| 10   | air handling unit kitchen          |                          | 17.Okt.2024 | KW           |
| 11   | supply air fan kitchen             |                          | 17.Okt.2024 | KW           |
| 13   | exhaust fan kitchen                |                          | 17.Okt.2024 | KW           |
| 14   | exhaust fan dishes                 |                          | 17.Okt.2024 | KW           |
| 16   | flap drives kitchen                |                          | 17.Okt.2024 | KW           |
| 19   | antifreeze thermostat              |                          | 17.Okt.2024 | KW           |
| 20   | heating pump                       |                          | 17.Okt.2024 | KW           |
| 21   | heatpump 1 kitchen                 |                          | 17.Okt.2024 | KW           |
| 22   | heatpump 2 kitchen                 |                          | 17.Okt.2024 | KW           |
| 23   | heatpump 1 kitchen indoor unit     |                          | 17.Okt.2024 | KW           |
| 24   | heatpump 2 kitchen indoor unit     |                          | 17.Okt.2024 | KW           |
| 30   | air handling unit Lobby            |                          | 17.Okt.2024 | KW           |
| 31   | supply air fan Lobby               |                          | 17.Okt.2024 | KW           |
| 33   | exhaust fan Lobby                  |                          | 17.Okt.2024 | KW           |
| 36   | flap drives Lobby                  |                          | 17.Okt.2024 | KW           |

Table of contents

Mueller

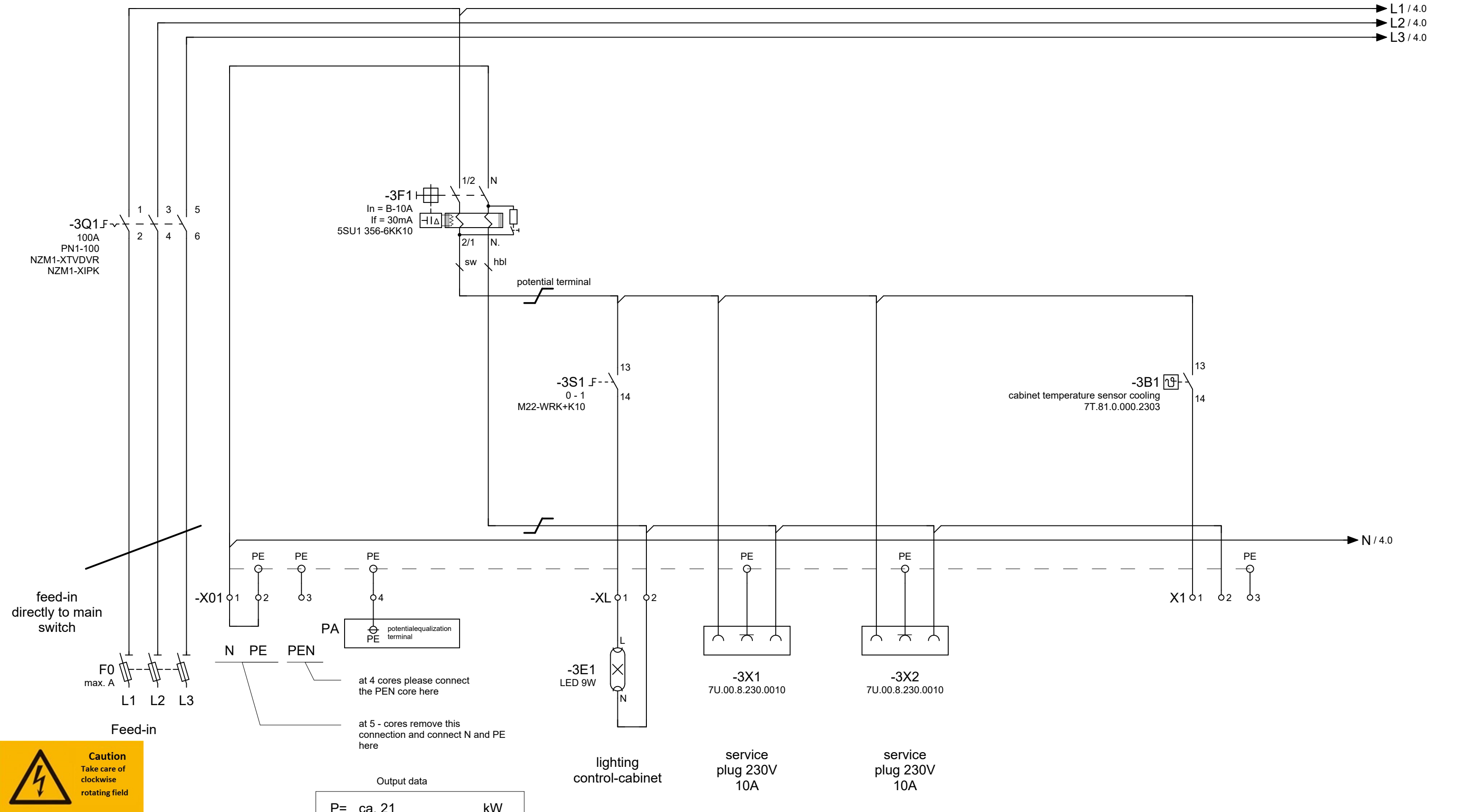
| Page | Page designation                           | Page supplementary field | Date        | processed by |
|------|--------------------------------------------|--------------------------|-------------|--------------|
| 37   | volume flow regulator                      |                          | 17.Okt.2024 | KW           |
| 38   | gas detector                               |                          | 10.Okt.2024 | PTH          |
| 41   | heatpump 1 Lobby                           |                          | 17.Okt.2024 | KW           |
| 42   | heatpump 2 Lobby                           |                          | 17.Okt.2024 | KW           |
| 43   | heatpump1 Lobby indoor unit                |                          | 17.Okt.2024 | KW           |
| 44   | heatpump 2 Lobby indoor unit               |                          | 17.Okt.2024 | KW           |
| 50   | unit discription General                   |                          | 17.Okt.2024 | KW           |
| 51   | release kitchen ware                       |                          | 17.Okt.2024 | KW           |
| 60   | unit discription DDC                       |                          | 17.Okt.2024 | KW           |
| 61   | overview occupancy board 1                 |                          | 17.Okt.2024 | KW           |
| 62   | overview occupancy board 2                 |                          | 17.Okt.2024 | KW           |
| 64   | overview module                            |                          | 10.Okt.2024 | PTH          |
| 65   | DDC - CPU Controller                       |                          | 17.Okt.2024 | KW           |
| 66   | CPU - digital inputs 8 x DI                |                          | 17.Okt.2024 | KW           |
| 67   | CPU - digital outputs 8 x DO               |                          | 17.Okt.2024 | KW           |
| 68   | CPU - digital outputs 8 x DO               |                          | 17.Okt.2024 | KW           |
| 69   | CPU - analog outputs 4 x AO                |                          | 17.Okt.2024 | KW           |
| 70   | CPU - analog inputs 8xAI                   |                          | 17.Okt.2024 | KW           |
| 71   | DDC - digital inputs 16 x DI               |                          | 17.Okt.2024 | KW           |
| 72   | DDC - digital inputs 16 x DI               |                          | 17.Okt.2024 | KW           |
| 74   | DDC - analog in- / outputs 8 x AI / 4 x AO |                          | 17.Okt.2024 | KW           |
| 75   | DDC - analog in- / outputs 8 x AI / 4 x AO |                          | 17.Okt.2024 | KW           |
| 76   | DDC - analog in- / outputs 8 x AI / 4 x AO |                          | 17.Okt.2024 | KW           |
| 77   | DDC - analog in- / outputs 8 x AI / 4 x AO |                          | 17.Okt.2024 | KW           |
| 78   | DDC - digital outputs 8 x DO - T           |                          | 17.Okt.2024 | KW           |
| 79   | DDC - analog in- / outputs 8 x AI / 4 x AO |                          | 17.Okt.2024 | KW           |

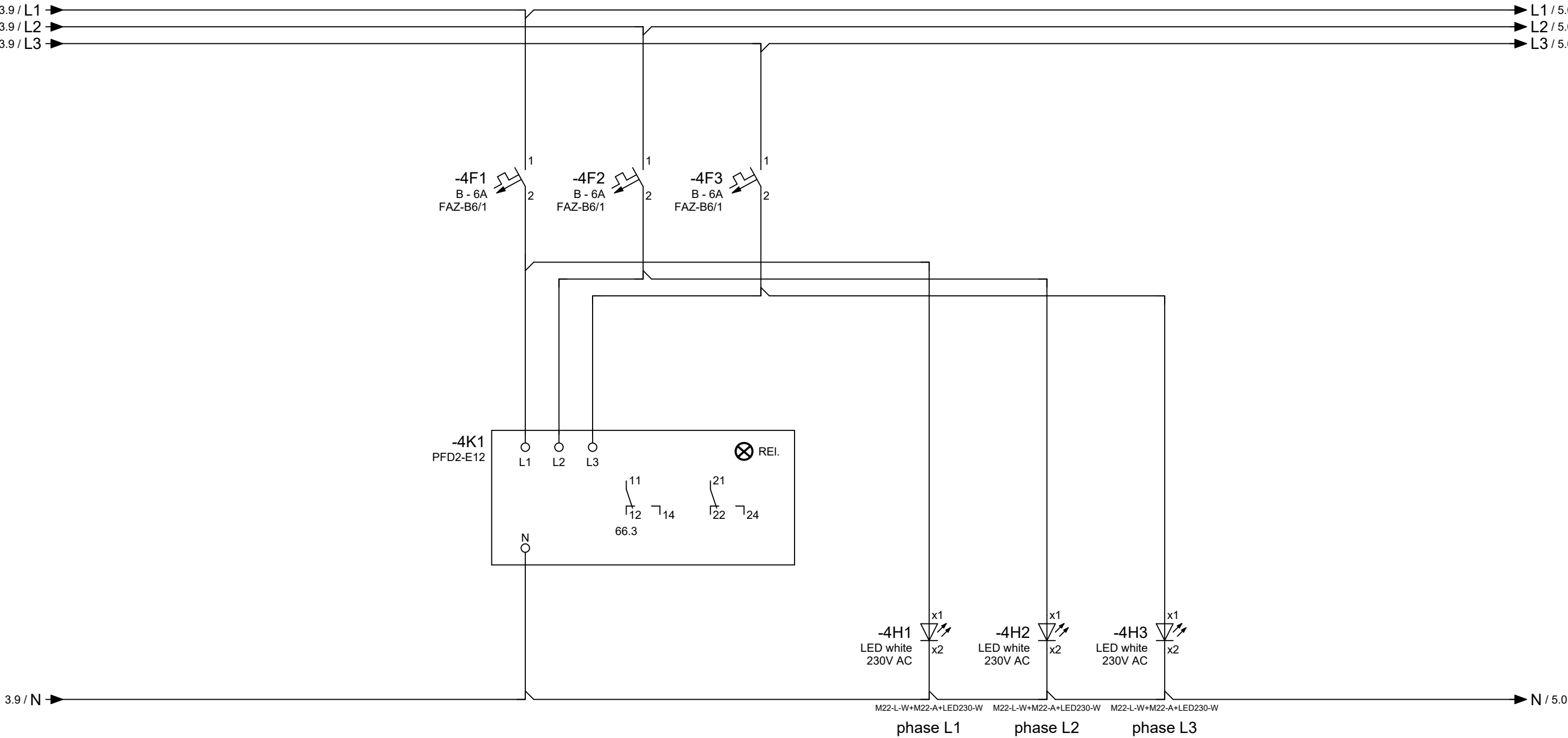
Table of contents

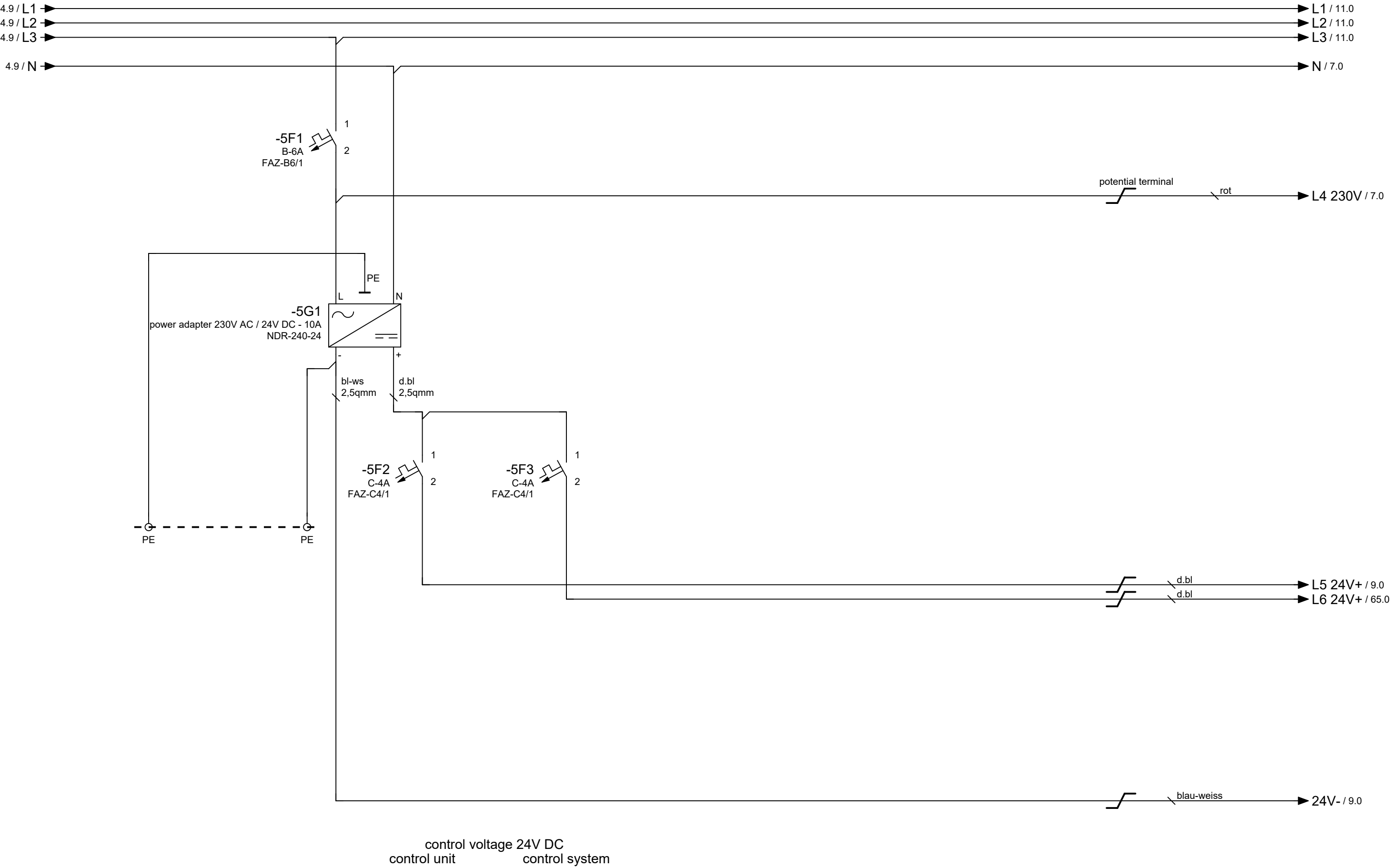
Mueller

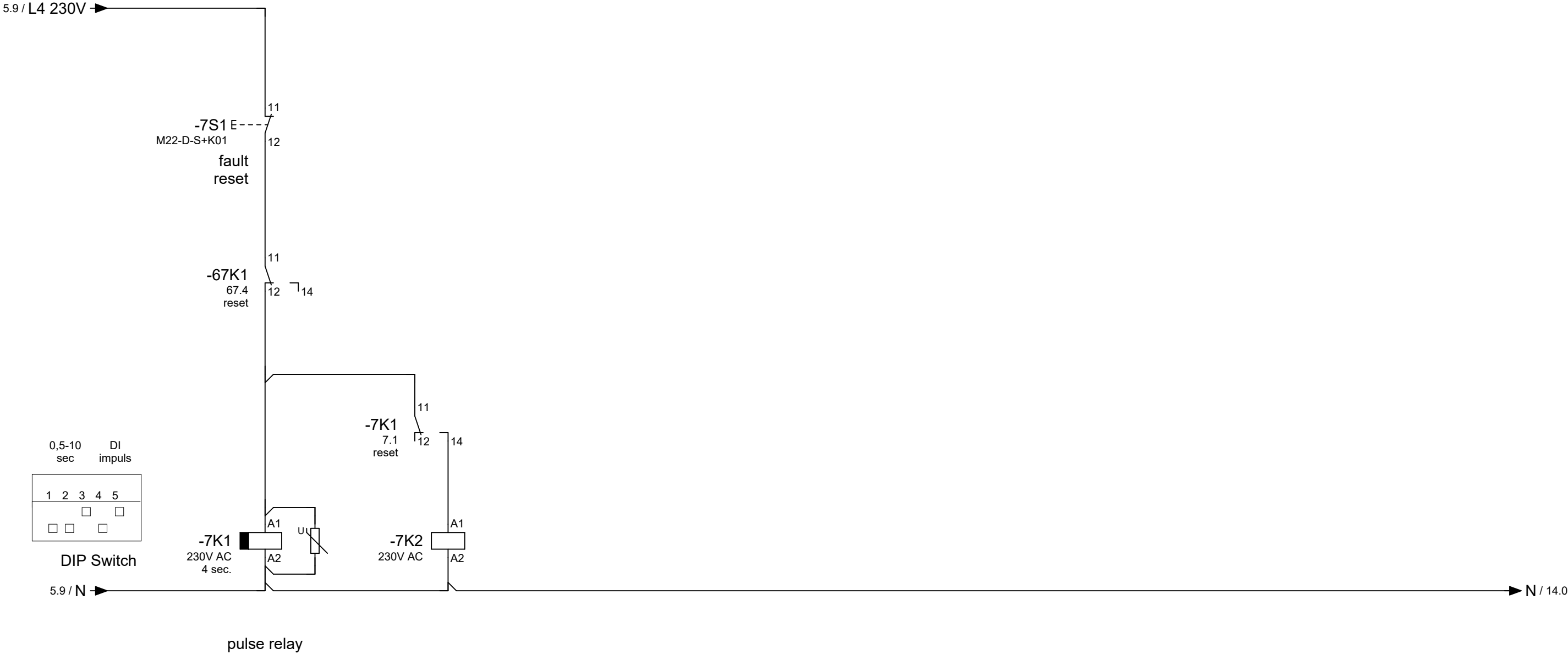
| Page | Page designation                           | Page supplementary field | Date        | processed by |
|------|--------------------------------------------|--------------------------|-------------|--------------|
| 80   | DDC - analog in- / outputs 8 x AI / 4 x AO |                          | 17.Okt.2024 | KW           |
| 100  | Overview terminal strips                   |                          | 17.Okt.2024 | KW           |
| 101  | terminal layout X1                         |                          | 10.Okt.2024 | PTH          |
| 102  | terminal layout X1                         |                          | 10.Okt.2024 | PTH          |
| 103  | terminal layout X1                         |                          | 10.Okt.2024 | PTH          |
| 104  | terminal layout X01                        |                          | 10.Okt.2024 | PTH          |
| 105  | terminal layout X2                         |                          | 10.Okt.2024 | PTH          |
| 106  | terminal layout X3                         |                          | 10.Okt.2024 | PTH          |
| 107  | terminal layout X3                         |                          | 10.Okt.2024 | PTH          |
| 108  | terminal layout X3                         |                          | 10.Okt.2024 | PTH          |
| 109  | terminal layout X3                         |                          | 10.Okt.2024 | PTH          |
| 110  | terminal layout X3                         |                          | 10.Okt.2024 | PTH          |
| 111  | terminal layout X3                         |                          | 10.Okt.2024 | PTH          |
| 112  | terminal layout X3                         |                          | 10.Okt.2024 | PTH          |
| 113  | terminal layout X4                         |                          | 10.Okt.2024 | PTH          |
| 114  | terminal layout X4                         |                          | 10.Okt.2024 | PTH          |
| 115  | terminal layout X4                         |                          | 10.Okt.2024 | PTH          |
| 116  | terminal layout X4                         |                          | 10.Okt.2024 | PTH          |
| 117  | terminal layout X4                         |                          | 10.Okt.2024 | PTH          |
| 118  | terminal layout X4                         |                          | 10.Okt.2024 | PTH          |
| 119  | terminal layout X4                         |                          | 10.Okt.2024 | PTH          |
| 120  | terminal layout X6                         |                          | 10.Okt.2024 | PTH          |
| 121  | terminal layout X6                         |                          | 10.Okt.2024 | PTH          |
| 122  | terminal layout X7                         |                          | 17.Okt.2024 | KW           |
| 123  | terminal layout XR                         |                          | 10.Okt.2024 | PTH          |
| 130  | Cable overview                             |                          | 17.Okt.2024 | KW           |











85.04.8.240.0000 + 94.P4

14 12 24 22 34 32 44 42

11 7.2

21 9.4

31

41

55.34.8.230.0040 + 94.P4

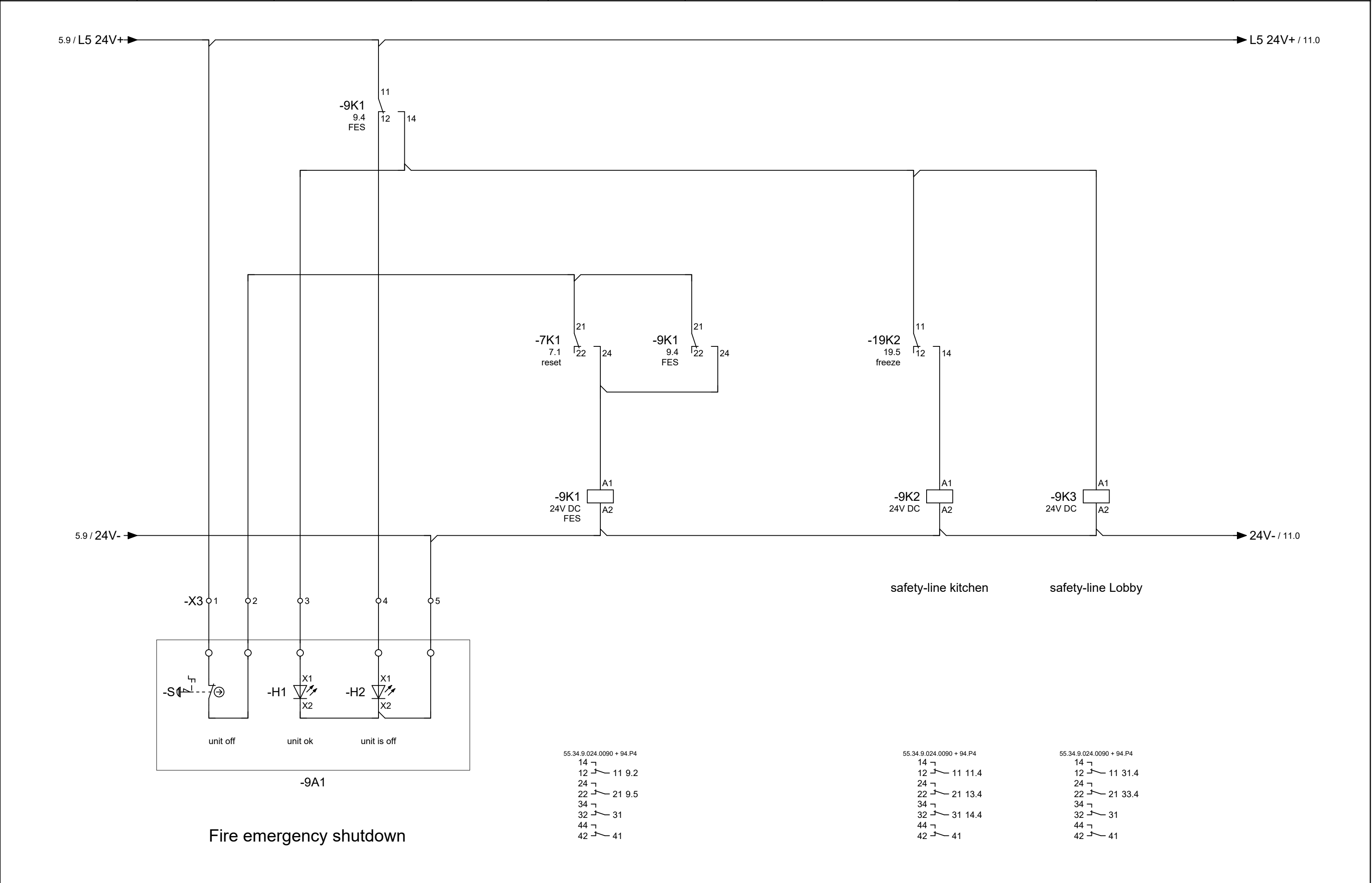
14 12 24 22 34 32 44 42

11

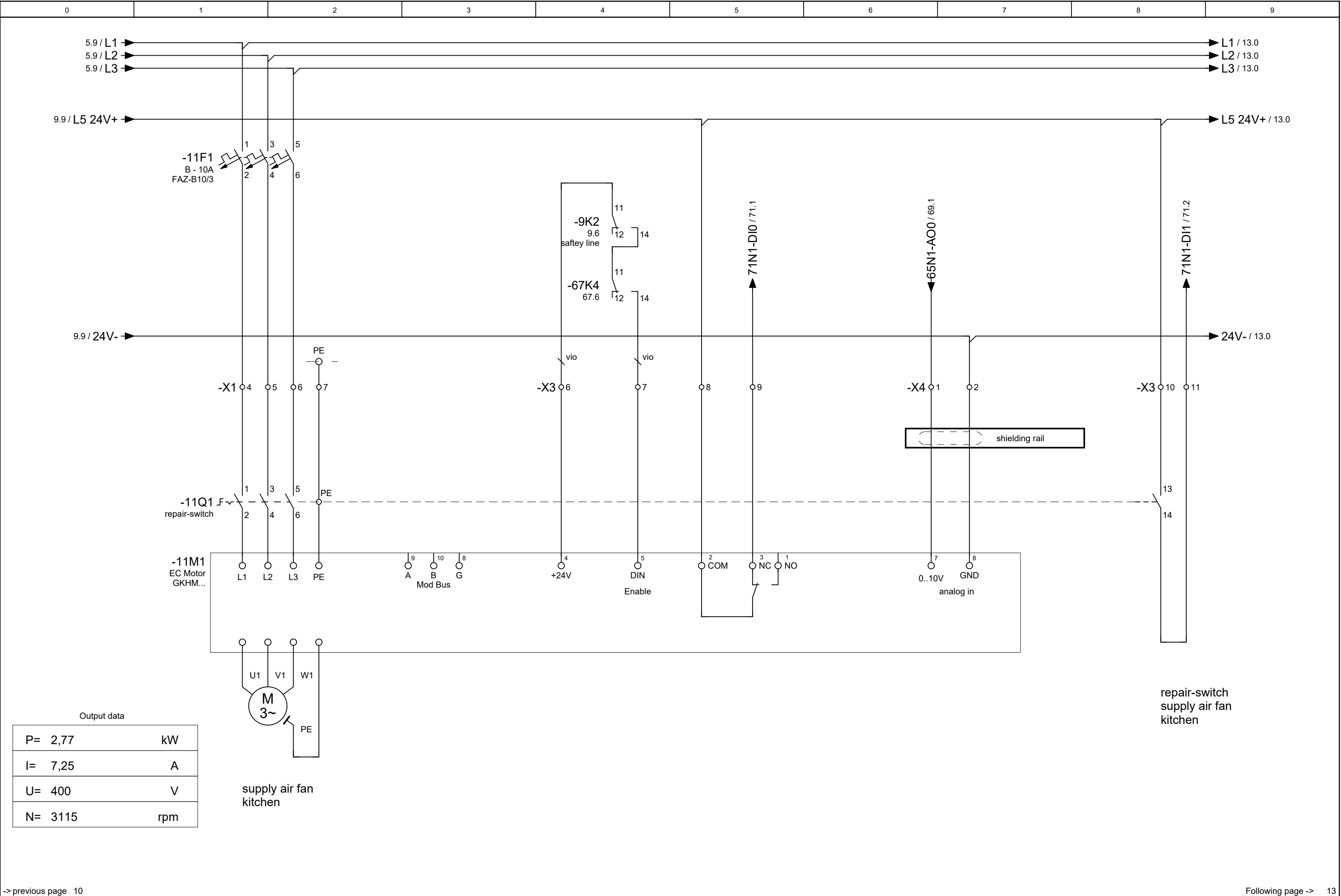
21 19.4

31

41 66.2

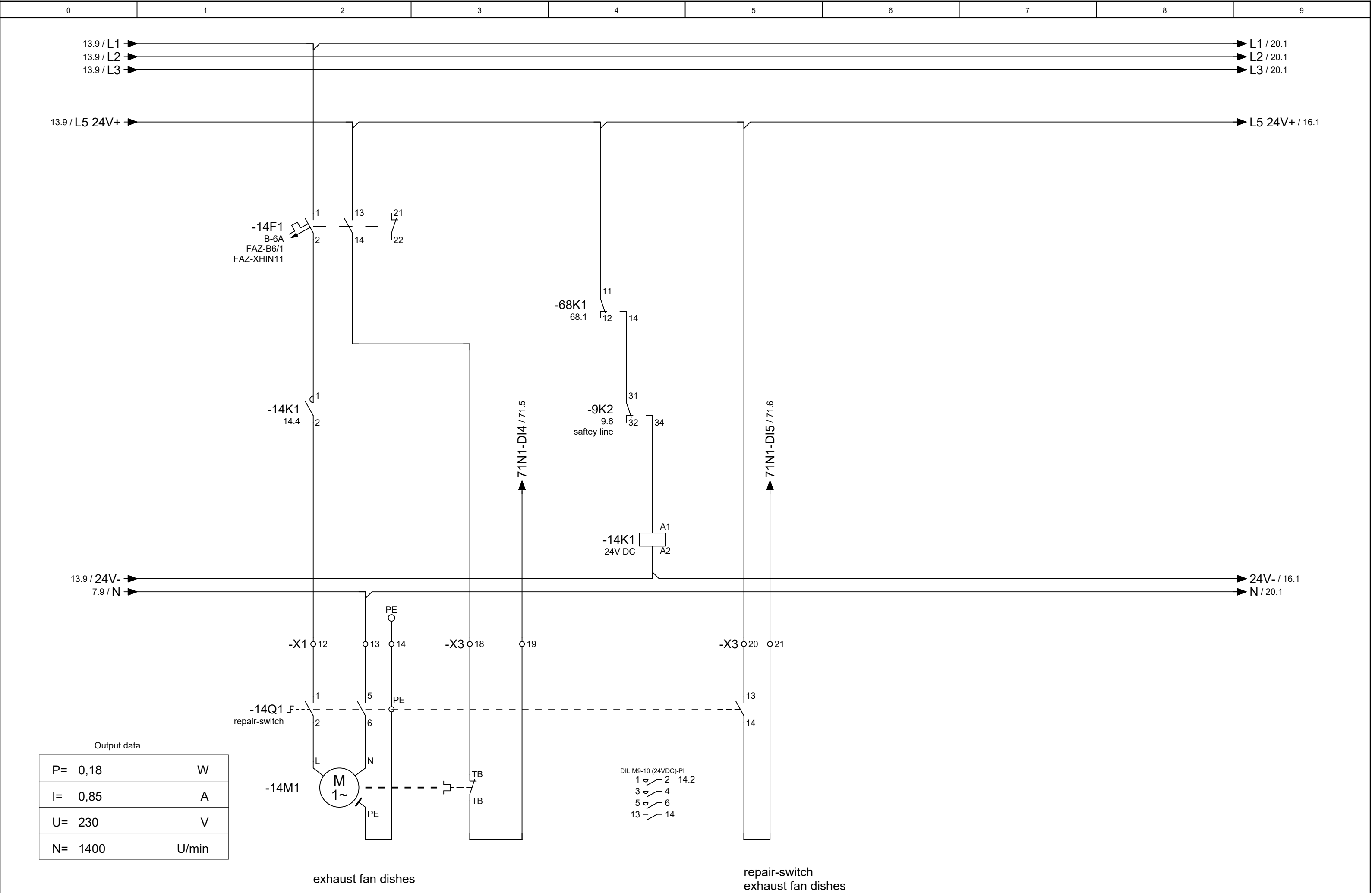


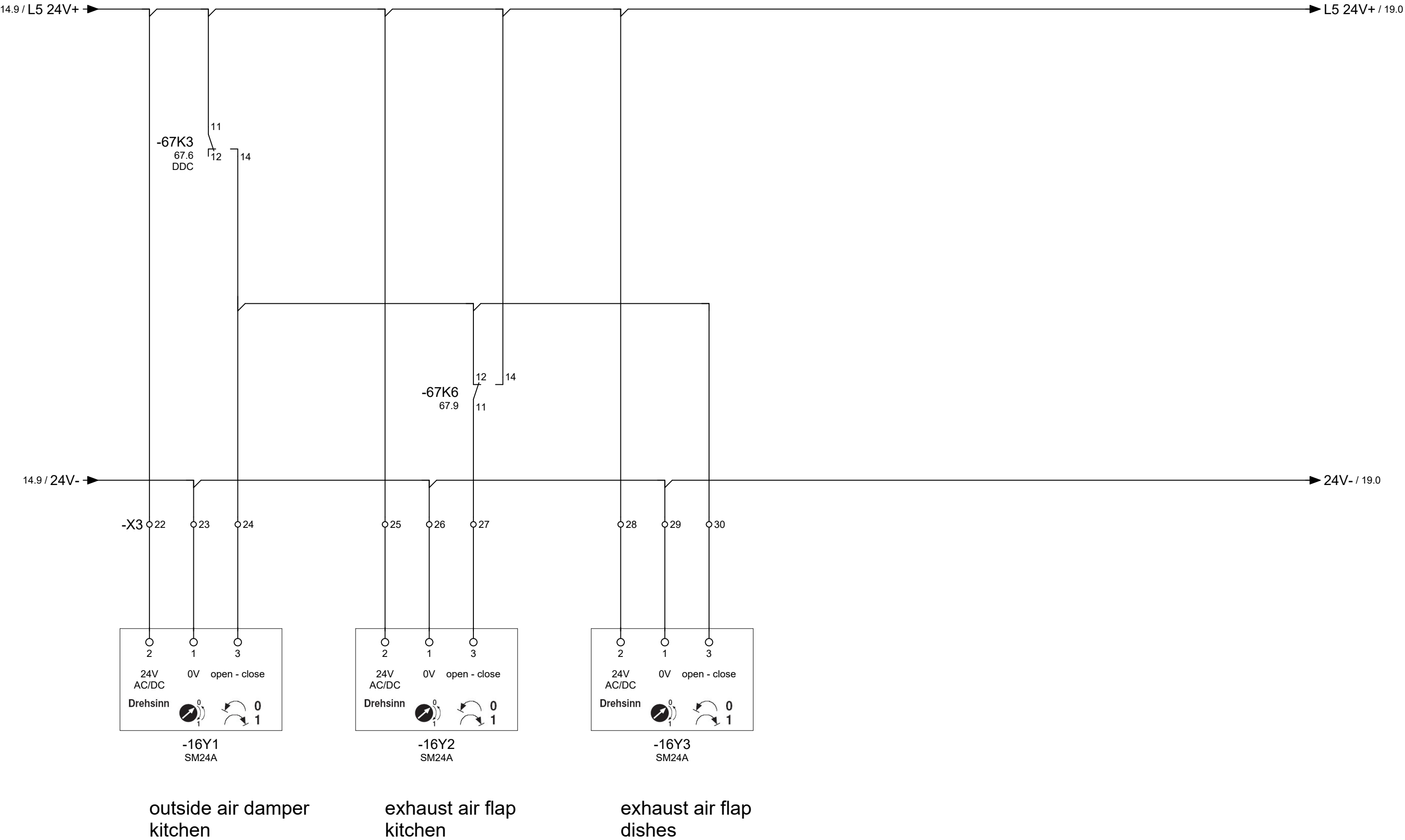
# AHU KITCHEN

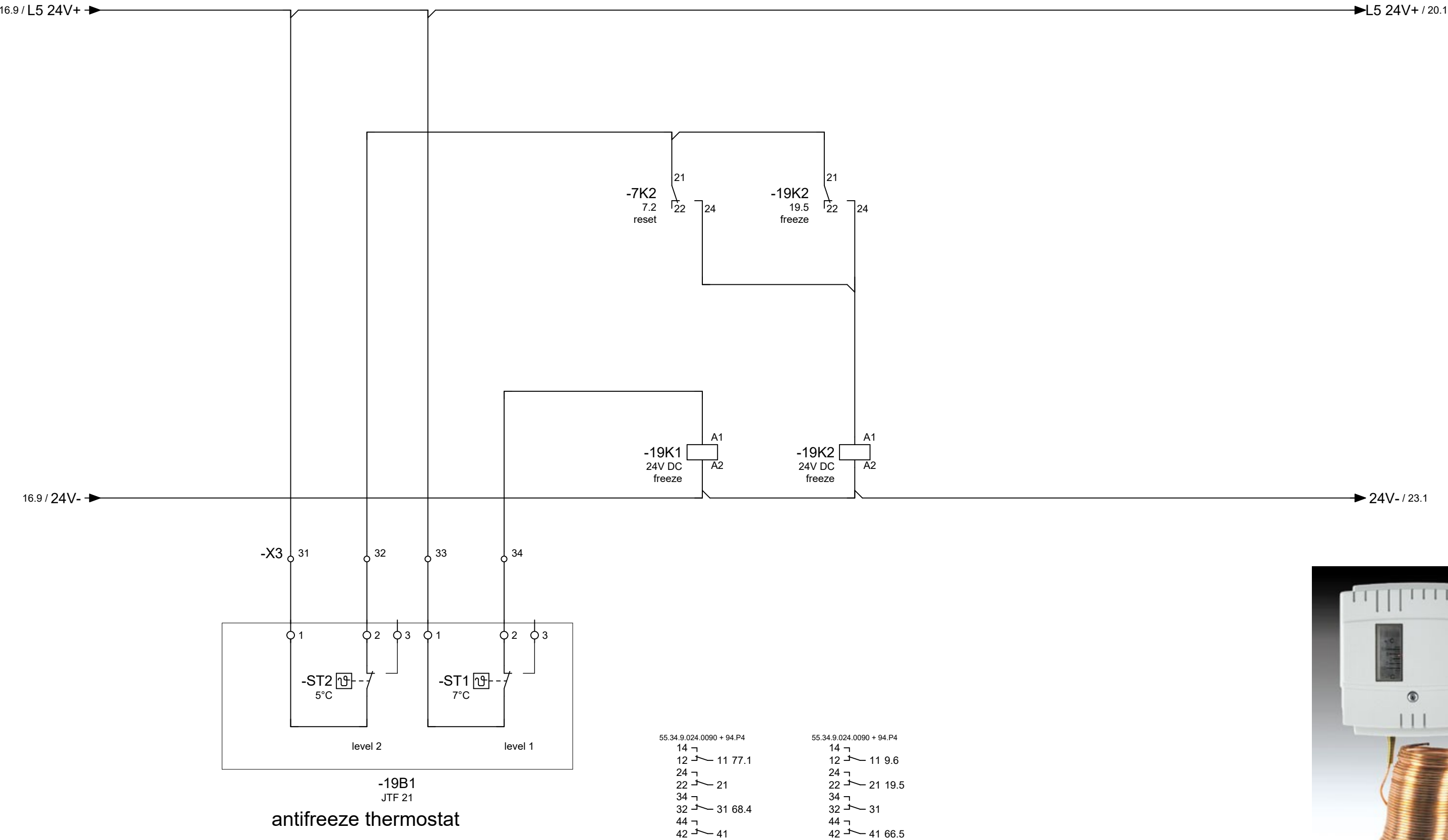


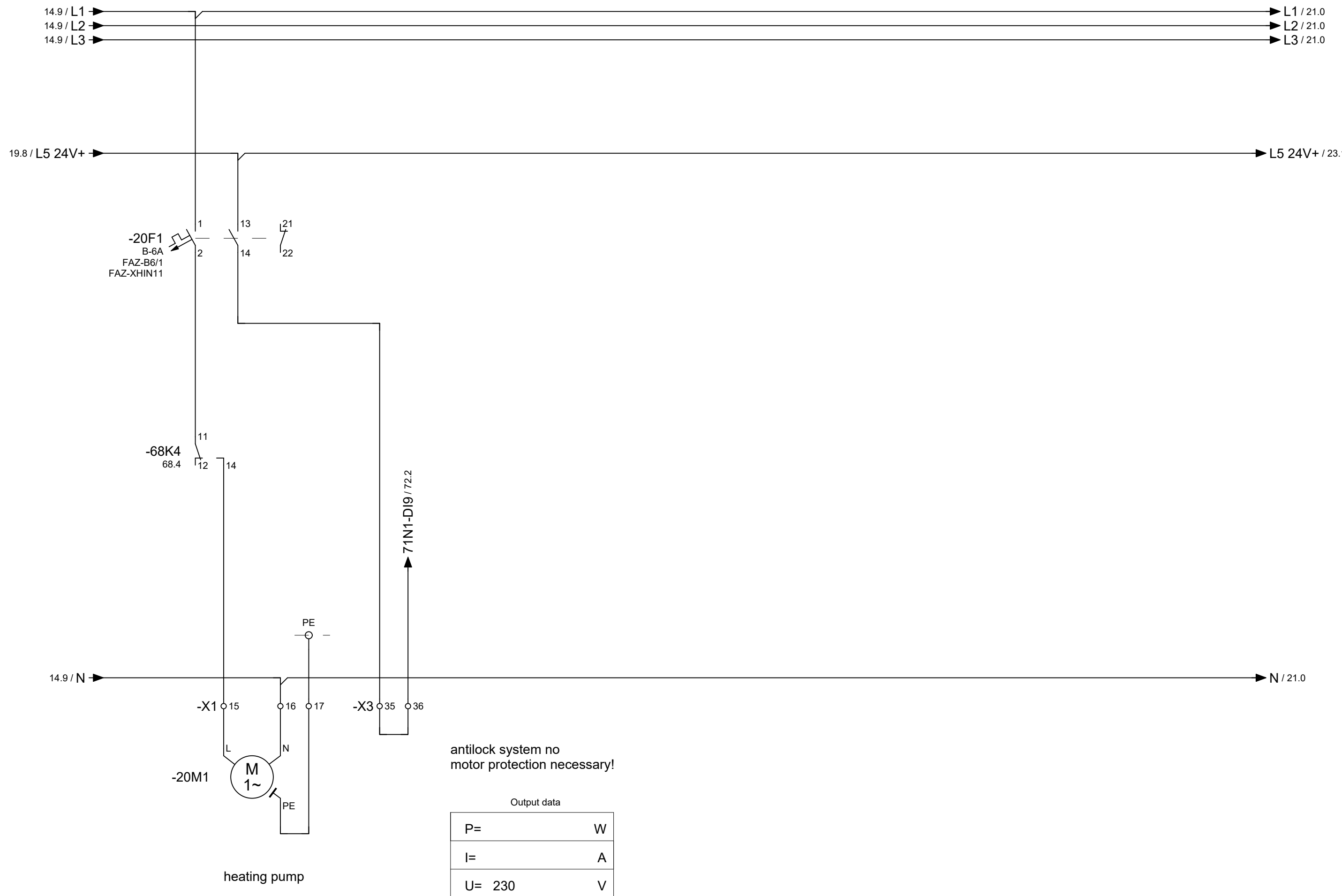
|             |     |
|-------------|-----|
| Output data |     |
| P= 2,77     | kW  |
| I= 7,25     | A   |
| U= 400      | V   |
| N= 3115     | rpm |

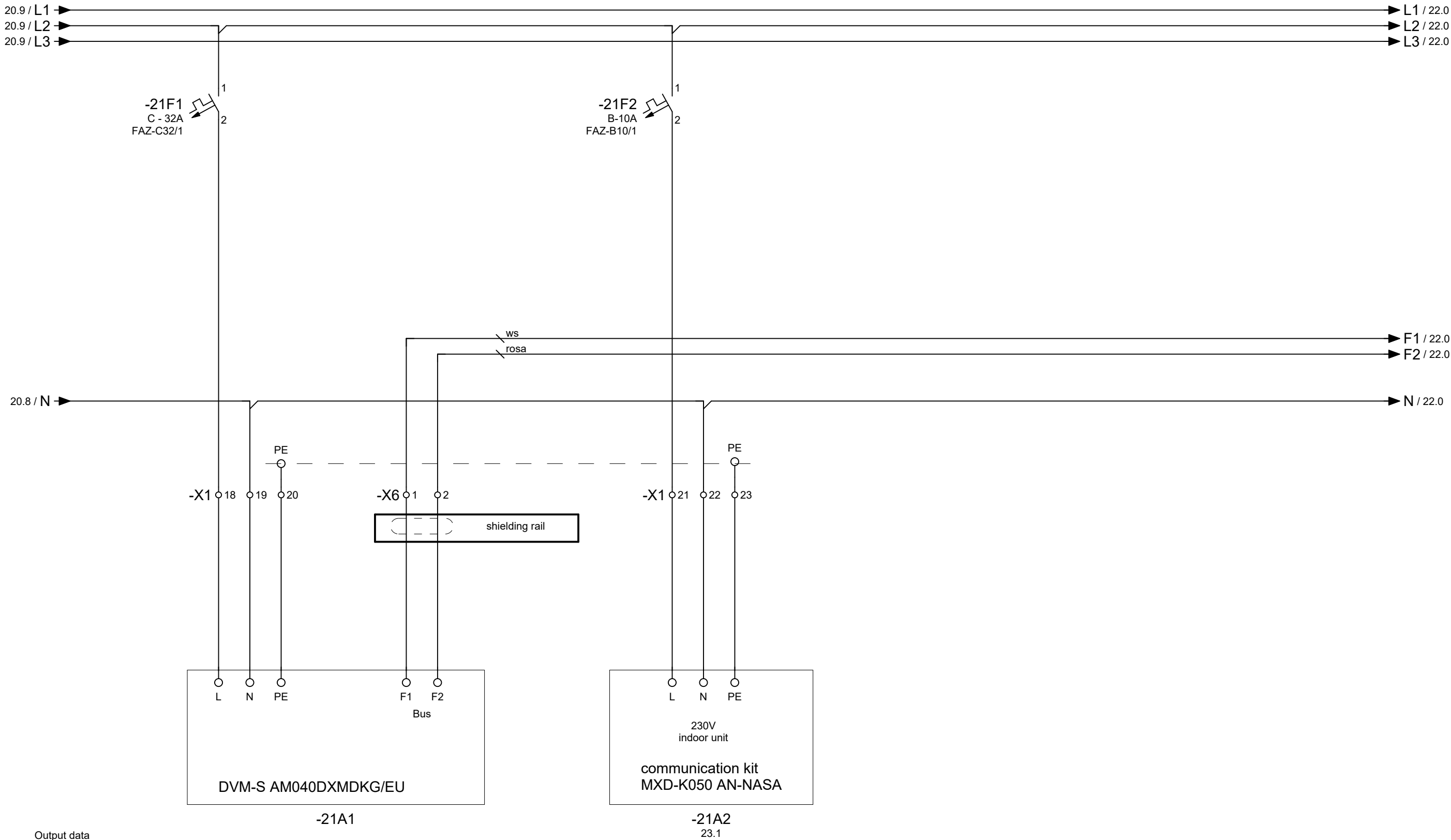










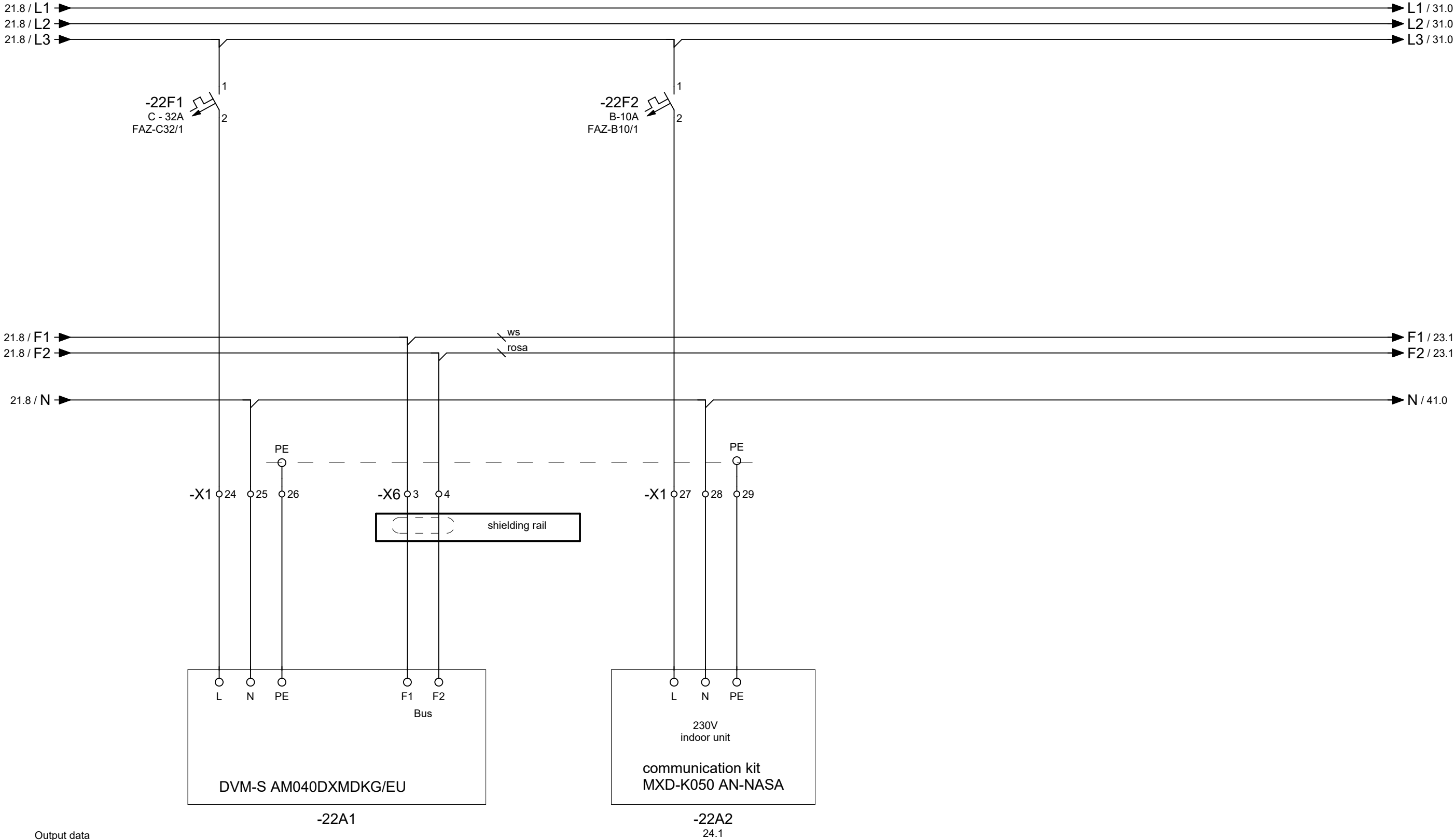


Output data

|                      |          |    |
|----------------------|----------|----|
| P <sub>EL</sub> :    | max. 3,6 | kW |
| I :                  | max. 24  | A  |
| U :                  | 230      | V  |
| I <sub>Betr.</sub> : |          | A  |

heatpump 1  
kitchen  
outdoor unit

heatpump 1  
kitchen  
indoor unit

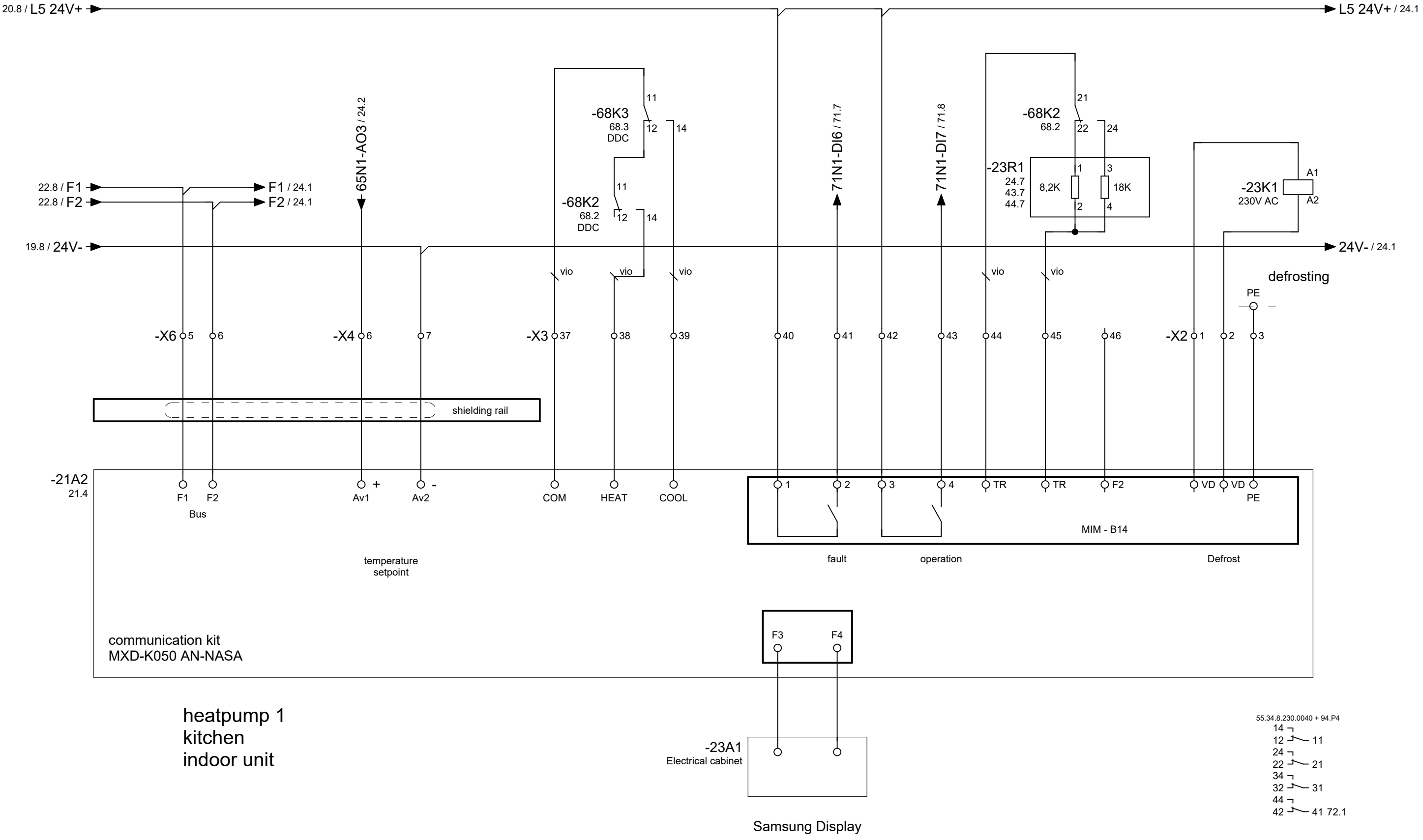


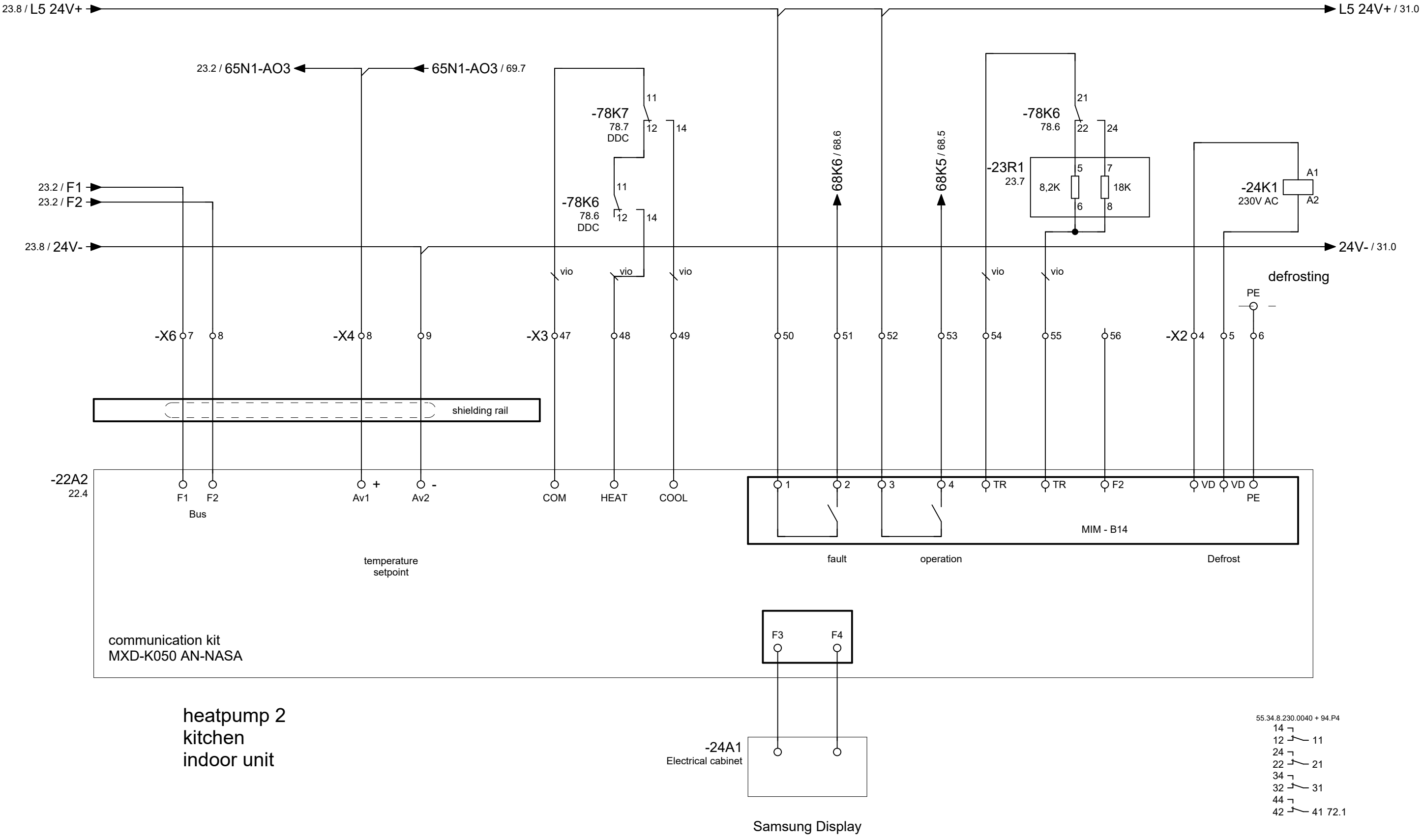
Output data

|                      |          |    |
|----------------------|----------|----|
| P <sub>EL</sub> :    | max. 3,6 | kW |
| I :                  | max. 24  | A  |
| U :                  | 230      | V  |
| I <sub>Betr.</sub> : |          | A  |

heatpump 2  
kitchen  
outdoor unit

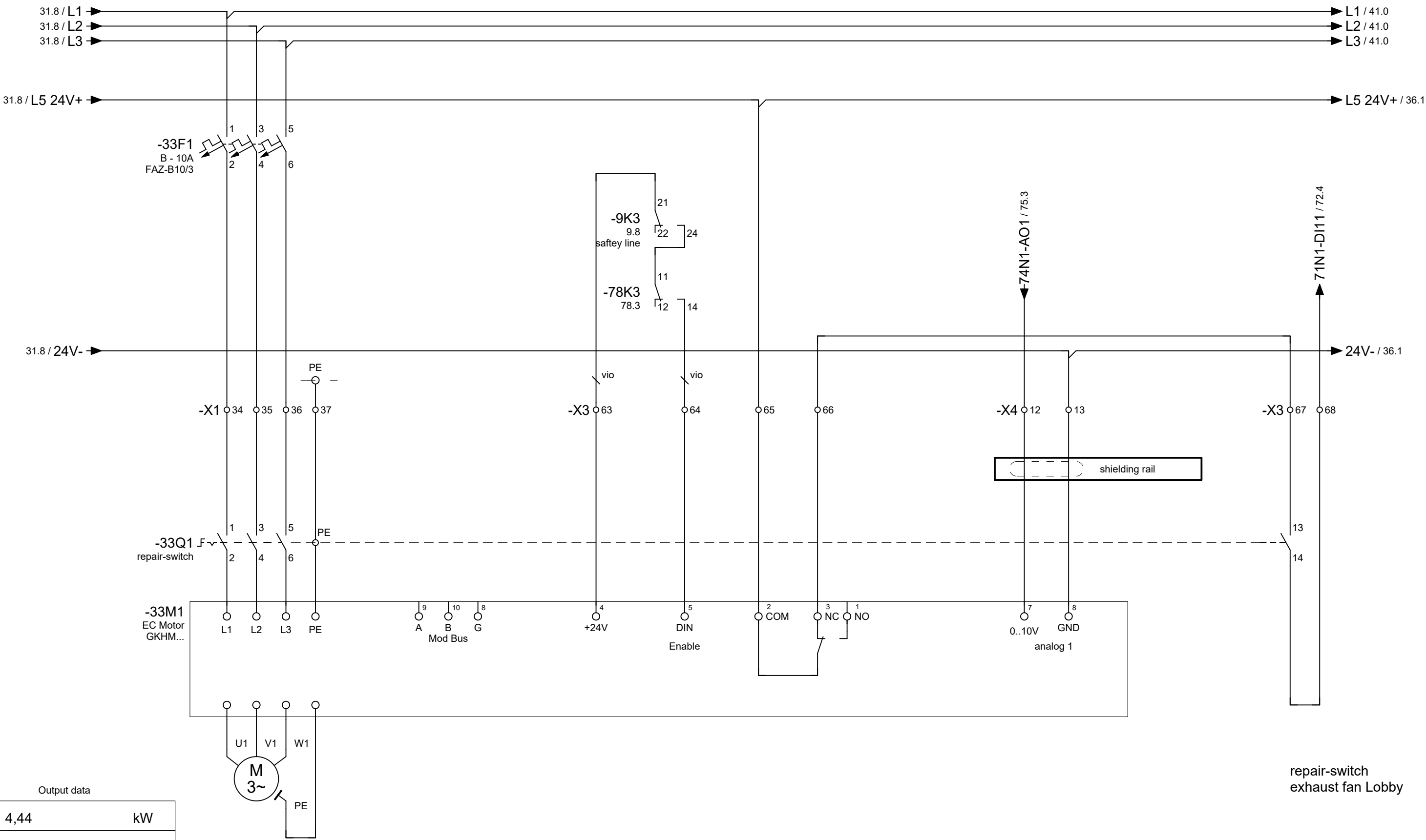
heatpump 2  
kitchen  
indoor unit

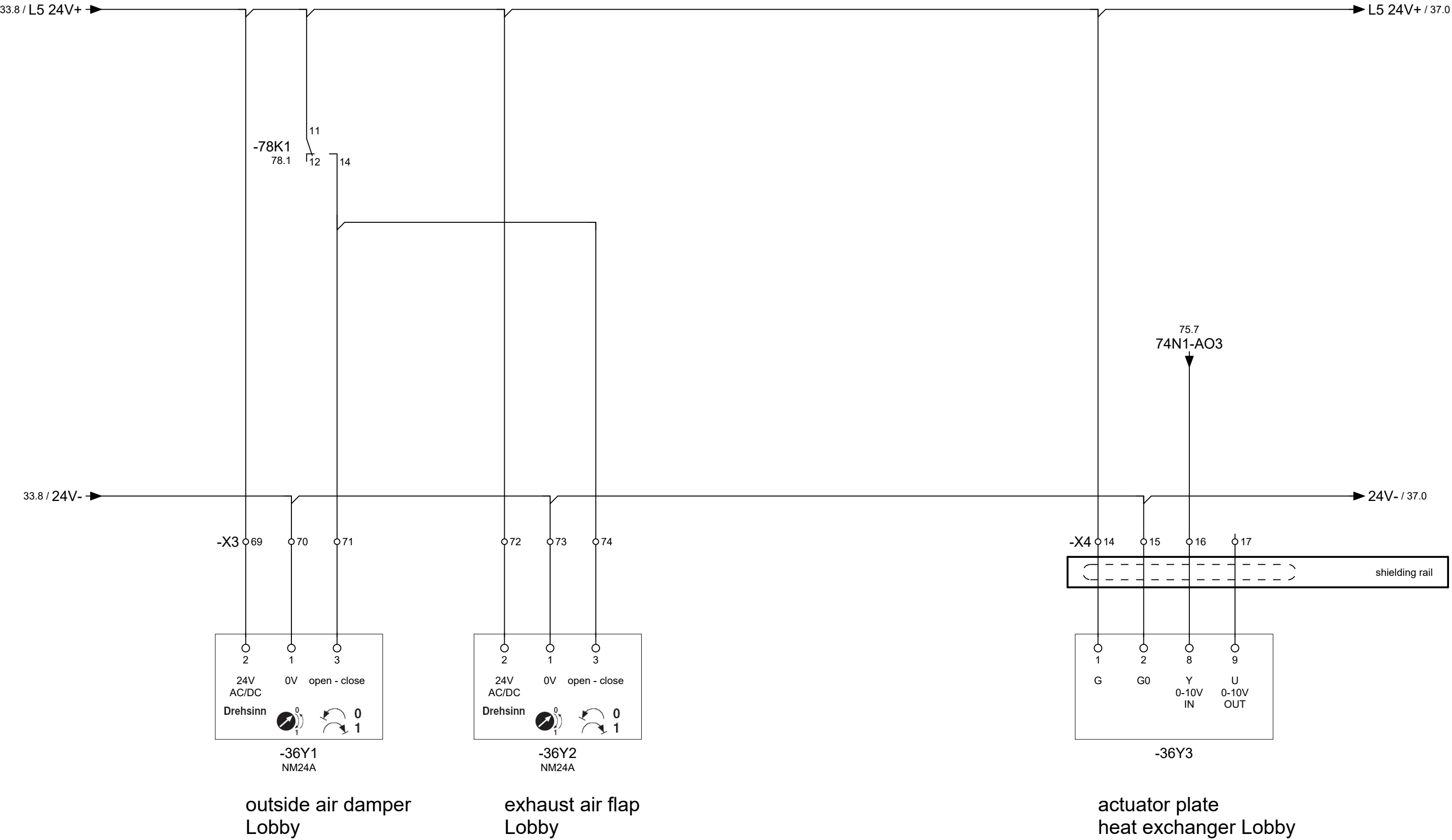


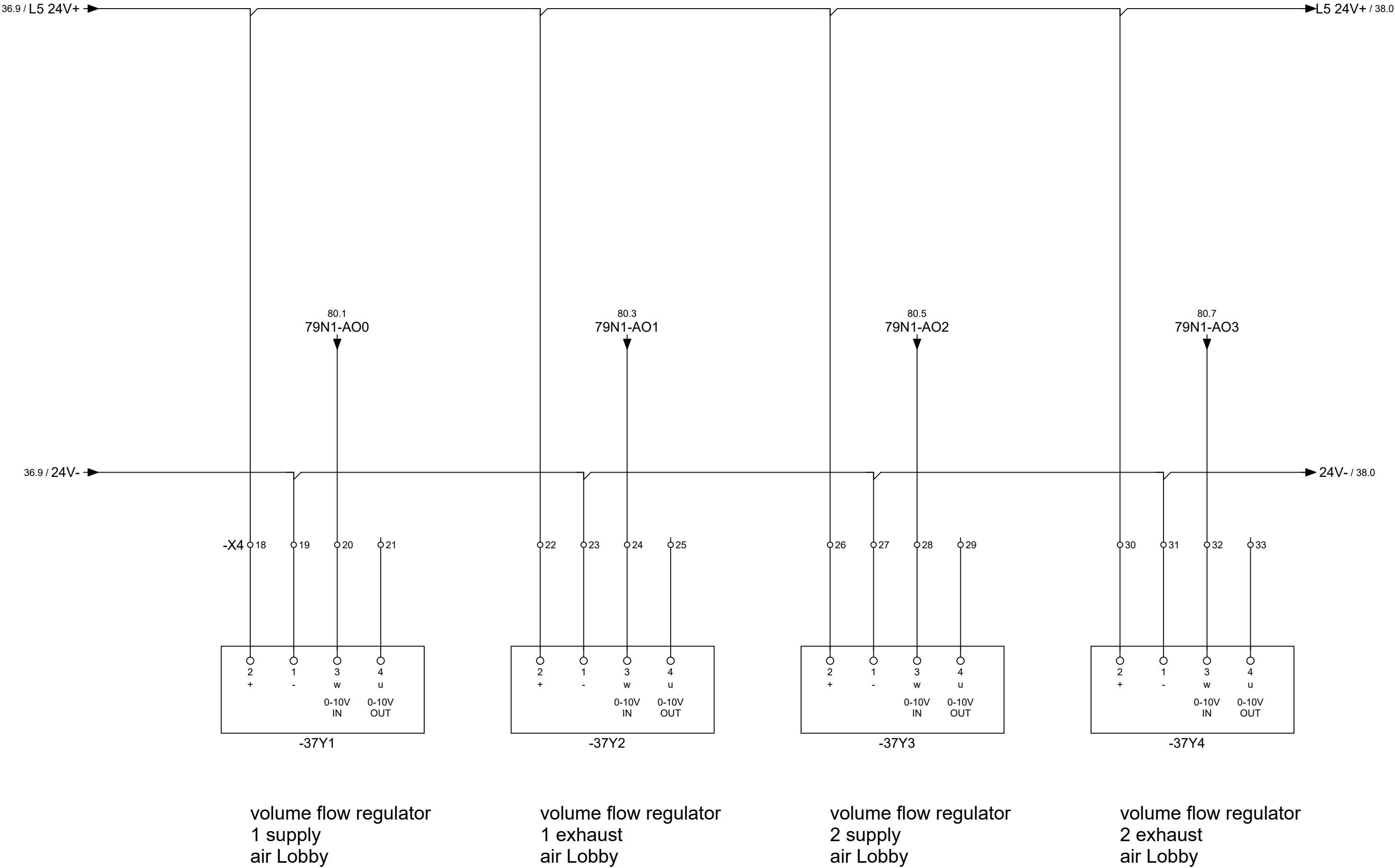


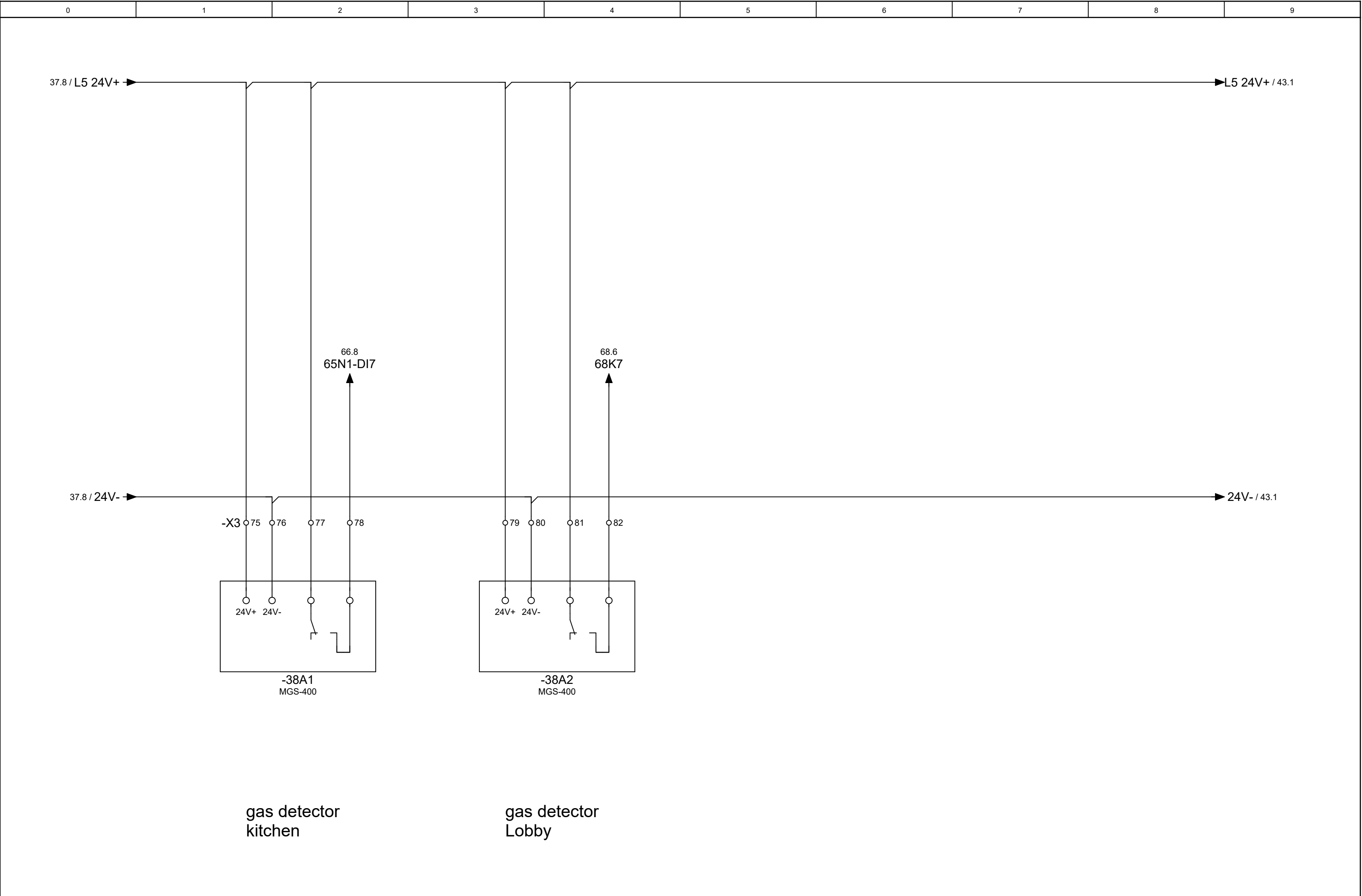
# AHU Lobby



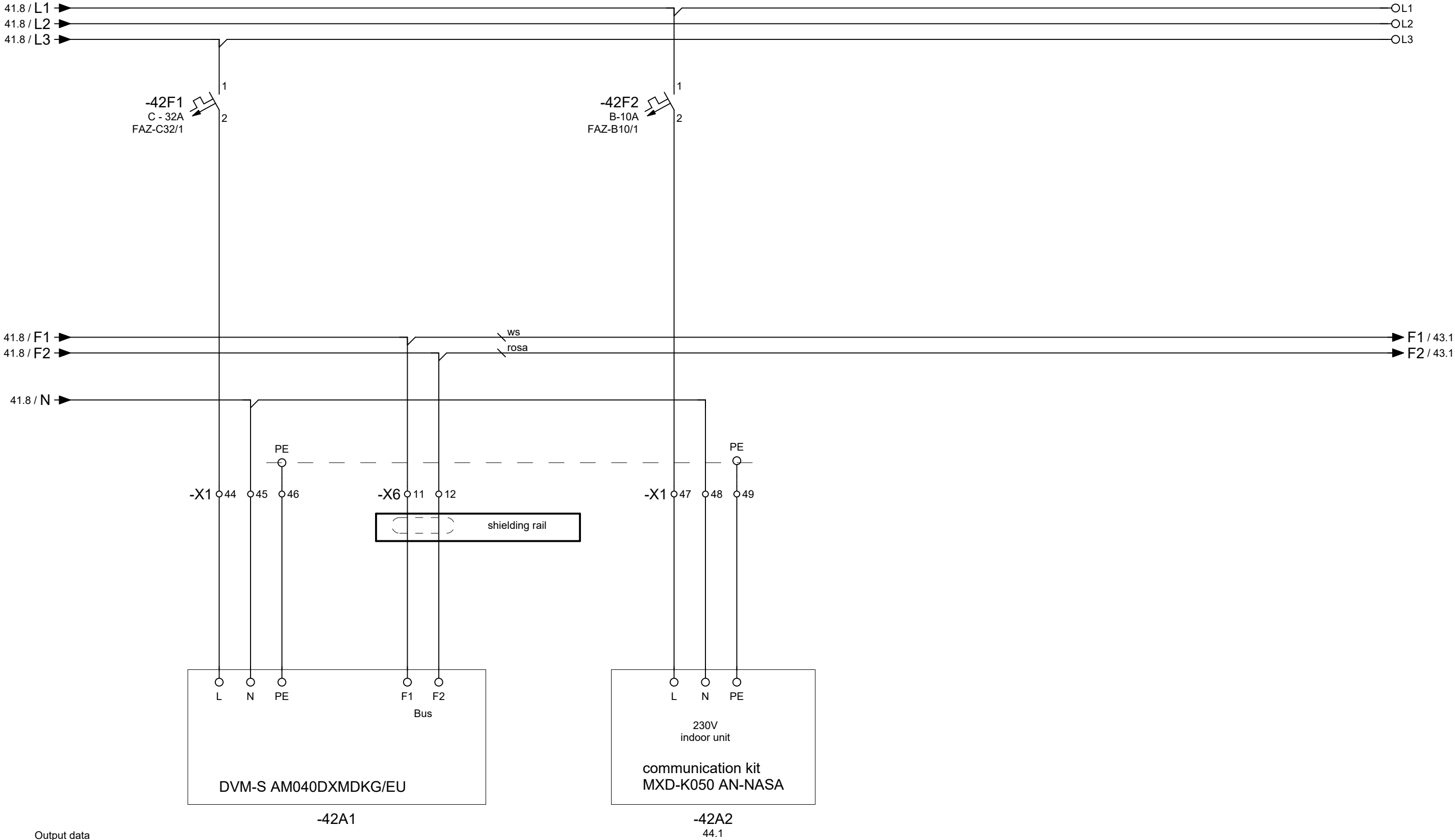










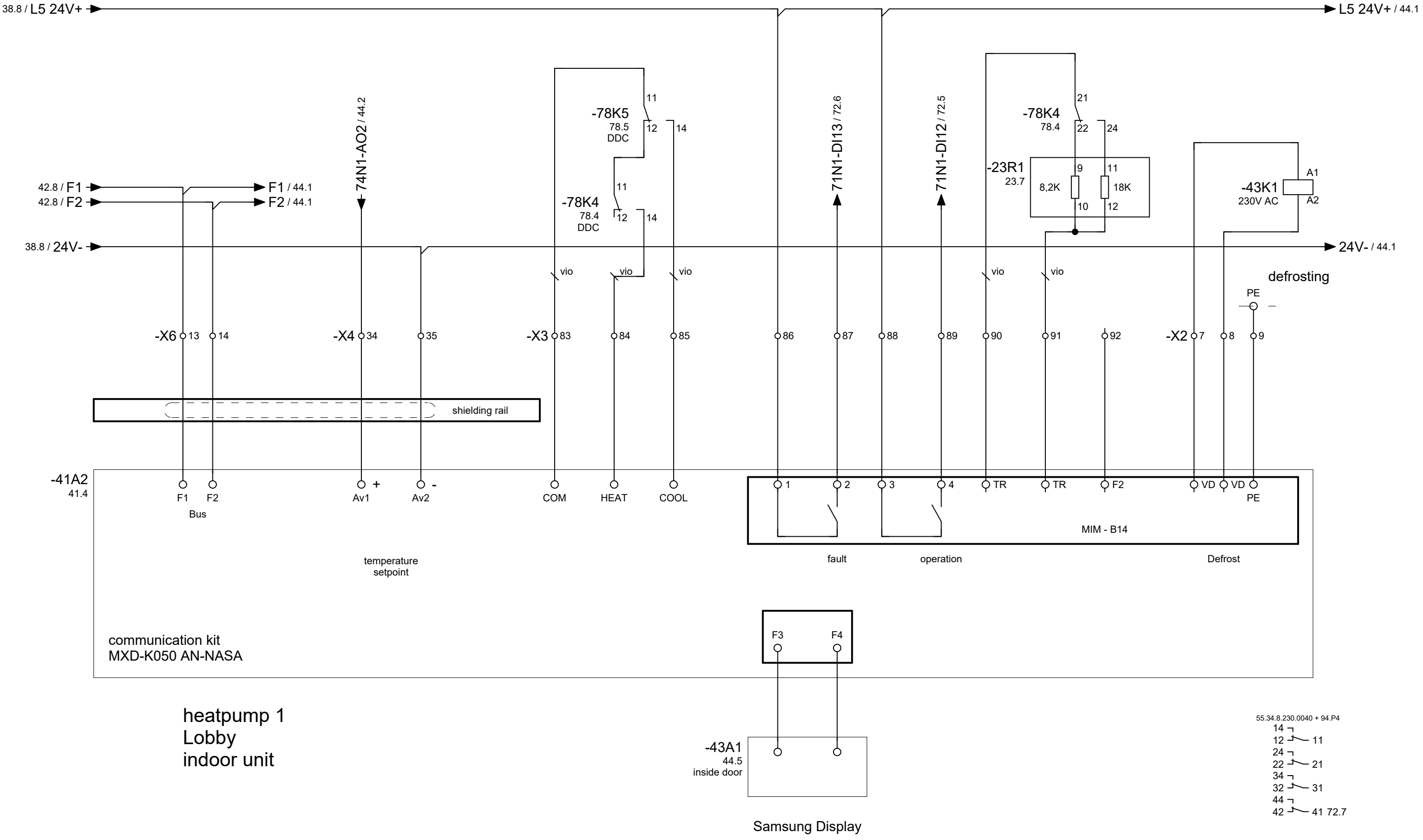


Output data

|                      |          |    |
|----------------------|----------|----|
| P <sub>EL</sub> :    | max. 3,6 | kW |
| I :                  | max. 24  | A  |
| U :                  | 230      | V  |
| I <sub>Betr.</sub> : |          | A  |

heatpump 2  
Lobby  
outdoor unit

heatpump 2  
Lobby  
indoor unit





# Anlage Allgemein



|     |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|
| 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| DDC |   |   |   |   |   |   |   |   |   |

-65N1  
65.0

# High Power Controller DEOS - 600/5 open EMS

8 digital inputs 24V  
DC

|     |      |                                               |
|-----|------|-----------------------------------------------|
| DI0 | 66.1 | start ventilation                             |
| DI1 | 66.2 | fault reset                                   |
| DI2 | 66.3 | phase monitoring                              |
| DI3 | 66.4 | exhaust fan kitchen Switch in position manual |
| DI4 | 66.5 | fault antifreeze kitchen                      |
| DI5 | 66.6 | operation heatpump 2 Lobby                    |
| DI6 | 66.7 | fault heatpump 2 Lobby                        |
| DI7 | 66.8 | fault gas detector kitchen                    |

12 digital outputs  
24V DC

|      |      |
|------|------|
| DO0  | 67.1 |
| DO1  | 67.2 |
| DO2  | 67.3 |
| DO3  | 67.4 |
| DO4  | 67.5 |
| DO5  | 67.6 |
| DO6  | 67.6 |
| DO7  | 67.7 |
| DO8  | 68.1 |
| DO9  | 68.2 |
| DO10 | 68.3 |
| DO11 | 68.4 |

- report AHU running
- report AHU fault
- report AHU maintenance
- fault reset
- heatpump 2 cooling Lobby
- flap drives kitchen
- supply air fan kitchen
- exhaust fan kitchen
- exhaust fan dishes
- heatpump 1 kitchen heating
- heatpump 1 kitchen cooling
- heating pump

8 analog inputs

|     |      |                                                     |
|-----|------|-----------------------------------------------------|
| AI0 | 70.1 | differential-pressure-sensor supply air kitchen     |
| AI1 | 70.2 | reserve                                             |
| AI2 | 70.3 | reserve                                             |
| AI3 | 70.4 | outside temperature sensor kitchen                  |
| AI4 | 70.5 | supply air temperature sensor behind heater kitchen |
| AI5 | 70.6 | supply air temperature sensor total                 |
| AI6 | 70.7 | exhaust air temperature sensor kitchen (option)     |
| AI7 | 70.8 | room temperature sensor kitchen                     |

4 analog outputs  
0...10V

|     |      |                                 |
|-----|------|---------------------------------|
| AO0 | 69.1 | setpoint supply air fan kitchen |
| AO1 | 69.3 | setpoint exhaust fan kitchen    |
| AO2 | 69.5 | reserve                         |
| AO3 | 69.7 | heatpump kitchen                |

71N1  
71.0

-74N1  
74.0

-76N1  
76.0

digital input module 16 x DI  
DS-C-DI 16

|      |      |                                                      |
|------|------|------------------------------------------------------|
| DI0  | 71.1 | fault supply air fan kitchen                         |
| DI1  | 71.2 | fault repair-switch supply air fan kitchen           |
| DI2  | 71.3 | fault exhaust fan kitchen                            |
| DI3  | 71.4 | fault repair-switch exhaust fan kitchen              |
| DI4  | 71.5 | fault exhaust fan dishes                             |
| DI5  | 71.6 | fault exhaust fan repair-switch dishes               |
| DI6  | 71.7 | fault heatpump 1 kitchen                             |
| DI7  | 71.8 | operation heatpump 1 kitchen                         |
| DI8  | 72.1 | defrosting reverse cycle heating systems 1+2 kitchen |
| DI9  | 72.2 | fault heating pump                                   |
| DI10 | 72.3 | fault supply air fan / repair switch Lobby           |
| DI11 | 72.4 | fault exhaust fan / repair switch Lobby              |
| DI12 | 72.5 | operation heatpump 1 Lobby                           |
| DI13 | 72.6 | fault heatpump 1 Lobby                               |
| DI14 | 72.7 | defrosting heatpump 1+2 Lobby                        |
| DI15 | 72.8 | term extension                                       |

analog in / output module 8 x AI / 4 x AO  
DS-C-AI8AO4

8 analog inputs

|        |     |      |
|--------|-----|------|
| aktiv  | AI0 | 74.1 |
| aktiv  | AI1 | 74.2 |
| aktiv  | AI2 | 74.3 |
| aktiv  | AI3 | 74.4 |
| passiv | AI4 | 74.5 |
| passiv | AI5 | 74.6 |
| aktiv  | AI6 | 74.7 |
| aktiv  | AI7 | 74.8 |

4 analog outputs  
0...10V

|     |    |      |
|-----|----|------|
| AO0 | ○— | 75.1 |
| AO1 | ○— | 75.3 |
| AO2 | ○— | 75.5 |
| AO3 | ○— | 75.7 |

|                                                       |  |
|-------------------------------------------------------|--|
| differential-pressure-sensor supply air Lobby         |  |
| differential-pressure-sensor exhaust air Lobby        |  |
| differential-pressure-sensor heat recovery Lobby      |  |
| supply air temperature sensor behind heat recovery    |  |
| supply air temperature sensor total Lobby             |  |
| exhaust air temperature sensor Lobby                  |  |
| differential-pressure-sensor outside-airfilter Lobby  |  |
| differential-pressure-sensor exhaust air filter Lobby |  |

setpoint supply air fan Lobby

setpoint exhaust fan Lobby

setpoint heatpump Lobby

setpoint actuator heat recovery Lobby

analog in / output module 8 x AI / 4 x AO  
DS-C-AI8AO4

8 analog inputs

|              |     |                                                                                       |      |                                                         |
|--------------|-----|---------------------------------------------------------------------------------------|------|---------------------------------------------------------|
| passiv       | A10 |  | 76.1 | room temperature Lobby                                  |
| aktiv        | A11 |  | 76.2 | Air quality sensor Lobby                                |
| aktiv        | A12 |  | 76.3 | differential-pressure-sensor outside-airfilter kitchen  |
| aktiv/passiv | A13 |  | 76.4 | reserve                                                 |
| aktiv        | A14 |  | 76.5 | differential-pressure-sensor exhaust air filter kitchen |
| passiv       | A15 |  | 76.6 | return temperature sensor heater kitchen                |
| aktiv/passiv | A16 |  | 76.7 | air channel pressure supply air Lobby                   |
| aktiv/passiv | A17 |  | 76.8 | air channel pressure exhaust air Lobby                  |

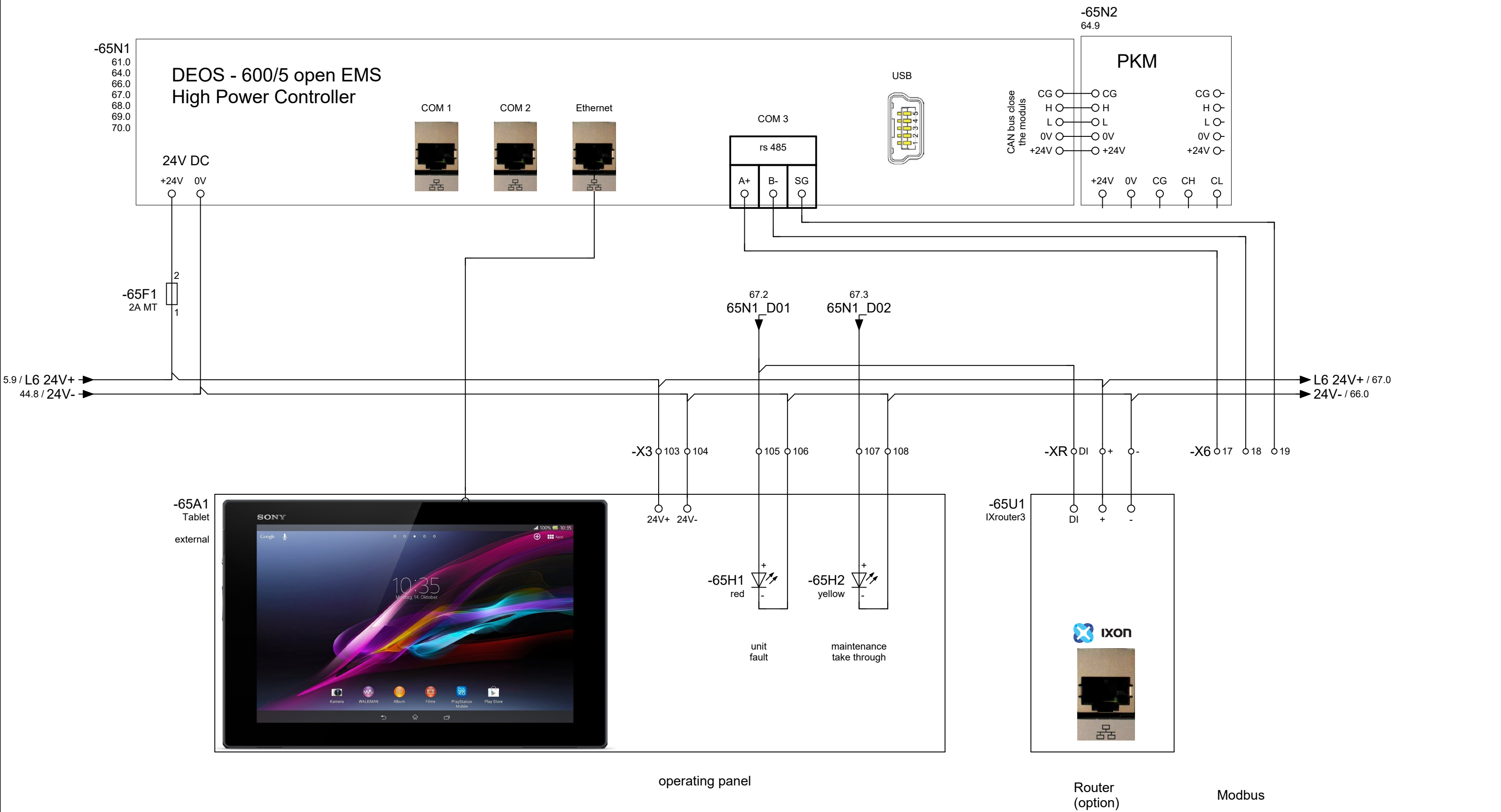
4 analog outputs  
0...10V

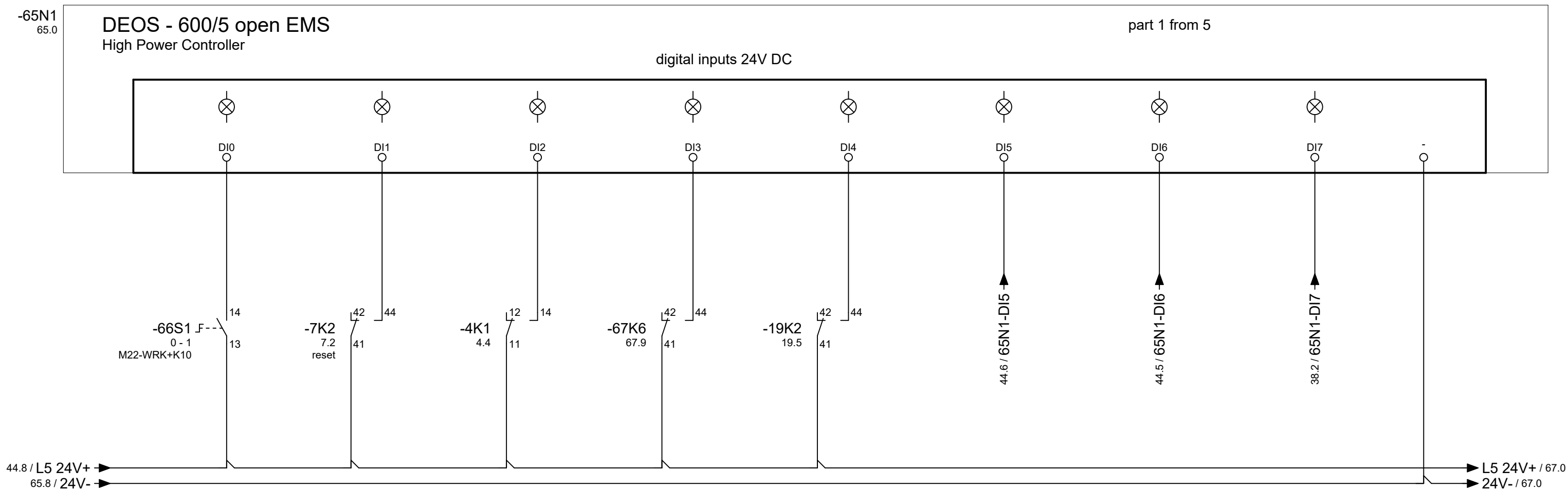
|     |      |                      |
|-----|------|----------------------|
| AO0 | 77.1 | heater valve kitchen |
| AO1 | 77.3 | reserve              |
| AO2 | 77.5 | reserve              |
| AO3 | 77.7 | reserve              |

|        |      |      |      |             |                                         |                                                                                       |                               |                 |  |                  |             |      |      |
|--------|------|------|------|-------------|-----------------------------------------|---------------------------------------------------------------------------------------|-------------------------------|-----------------|--|------------------|-------------|------|------|
|        |      |      | Date | 17.Okt.2024 | Mc Donald`s DK - Ronnede<br>ventilation |  | overview occupancy<br>board 1 | Fabr.. Nr. 7296 |  | =                |             |      |      |
|        |      |      |      | KW          |                                         |                                                                                       |                               |                 |  | +                |             | Page | 61   |
| Change | Date | Name |      |             |                                         |                                                                                       |                               |                 |  | Auftr. Nr. 24502 | D.No.: 9804 |      | Page |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| <div><div><div><div><div>-78N1</div><div>78.0</div></div><div><div>digital output module 8 x DO</div><div>DS-C-DO8T</div></div><div><div><div><div>DO0</div><div>○</div><div>78.1</div><div>flap drives Lobby</div></div><div><div>DO1</div><div>○</div><div>78.2</div><div>supply air fan Lobby</div></div><div><div>DO2</div><div>○</div><div>78.3</div><div>exhaust fan Lobby</div></div><div><div>DO3</div><div>○</div><div>78.4</div><div>heatpump 1 heating Lobby</div></div><div><div>DO4</div><div>○</div><div>78.5</div><div>heatpump 1 cooling Lobby</div></div><div><div>DO5</div><div>○</div><div>78.6</div><div>heatpump 2 heating kitchen</div></div><div><div>DO6</div><div>○</div><div>78.7</div><div>heatpump 2 cooling kitchen</div></div><div><div>DO7</div><div>○</div><div>78.8</div><div>heatpump 2 heating Lobby</div></div></div></div></div><div><div><div><div>-79N1</div><div>79.0</div></div><div><div>analog in / output module 8 x AI / 4 x AO</div><div>DS-C-AI8AO4</div></div><div><div><div>8 analog inputs</div><div><div><div>aktiv/passiv</div><div>AI0</div><div>○</div><div>79.1</div><div>operation heatpump 2 kitchen</div></div><div><div>aktiv/passiv</div><div>AI1</div><div>○</div><div>79.2</div><div>fault heatpump 2 kitchen</div></div><div><div>aktiv/passiv</div><div>AI2</div><div>○</div><div>79.3</div><div>fault gas detector Lobby</div></div><div><div>aktiv/passiv</div><div>AI3</div><div>○</div><div>79.4</div><div>reserve</div></div><div><div>aktiv/passiv</div><div>AI4</div><div>○</div><div>79.5</div><div>reserve</div></div><div><div>aktiv/passiv</div><div>AI5</div><div>○</div><div>79.6</div><div>reserve</div></div><div><div>aktiv/passiv</div><div>AI6</div><div>○</div><div>79.7</div><div>reserve</div></div><div><div>aktiv/passiv</div><div>AI7</div><div>○</div><div>79.8</div><div>reserve</div></div></div><div><div><div>4 analog outputs</div><div>0...10V</div><div><div><div>AO0</div><div>○</div><div>80.1</div><div>volume flow regulator 1 supply air Lobby</div></div><div><div>AO1</div><div>○</div><div>80.3</div><div>volume flow regulator 1 exhaust air Lobby</div></div><div><div>AO2</div><div>○</div><div>80.5</div><div>volume flow regulator 2 supply air Lobby</div></div><div><div>AO3</div><div>○</div><div>80.7</div><div>volume flow regulator 2 exhaust air Lobby</div></div></div></div></div></div></div></div></div></div></div> |   |   |   |   |   |   |   |   |   |
| <div><div><div><div><div>-&gt; previous page</div><div>61</div></div><div><div><div><div>Date</div><div>17.Okt.2024</div></div><div><div><div>Mc Donald`s DK - Ronnede</div><div>ventilation</div></div></div></div><div><div><div><div><div><div>ROX</div><div>KLIMATECHNIK</div></div></div><div>overview occupancy board 2</div></div><div><div><div>Fabr.. Nr. 7296</div><div>Auftr. Nr. 24502</div></div><div><div><div>=</div><div>D.No.: 9804</div></div><div><div><div>Page</div><div>62</div></div><div><div><div>160</div></div></div></div></div></div></div></div></div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |   |







start ventilation

fault  
reset

## phase monitoring

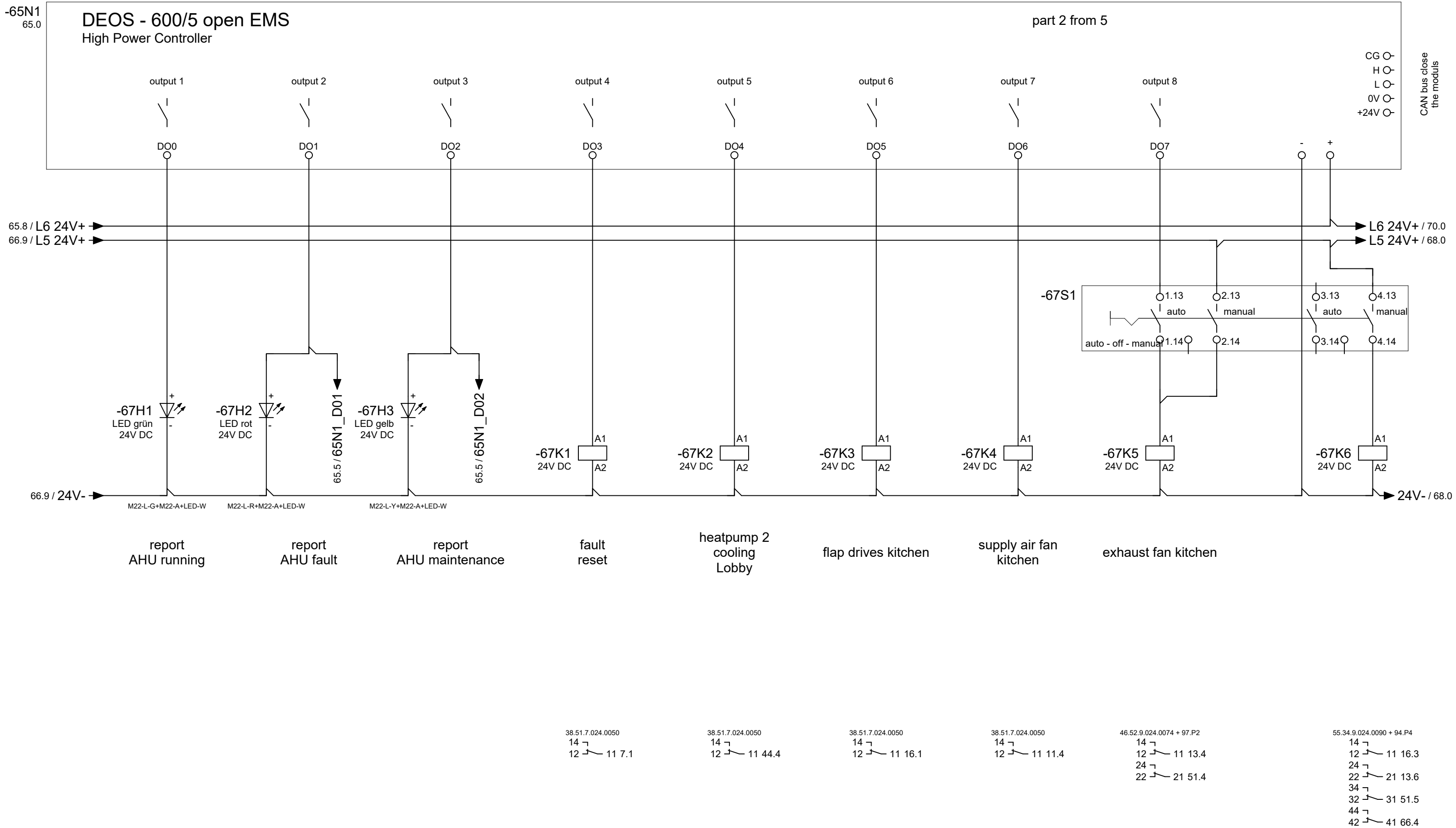
# exhaust fan kitchen Switch in position manual

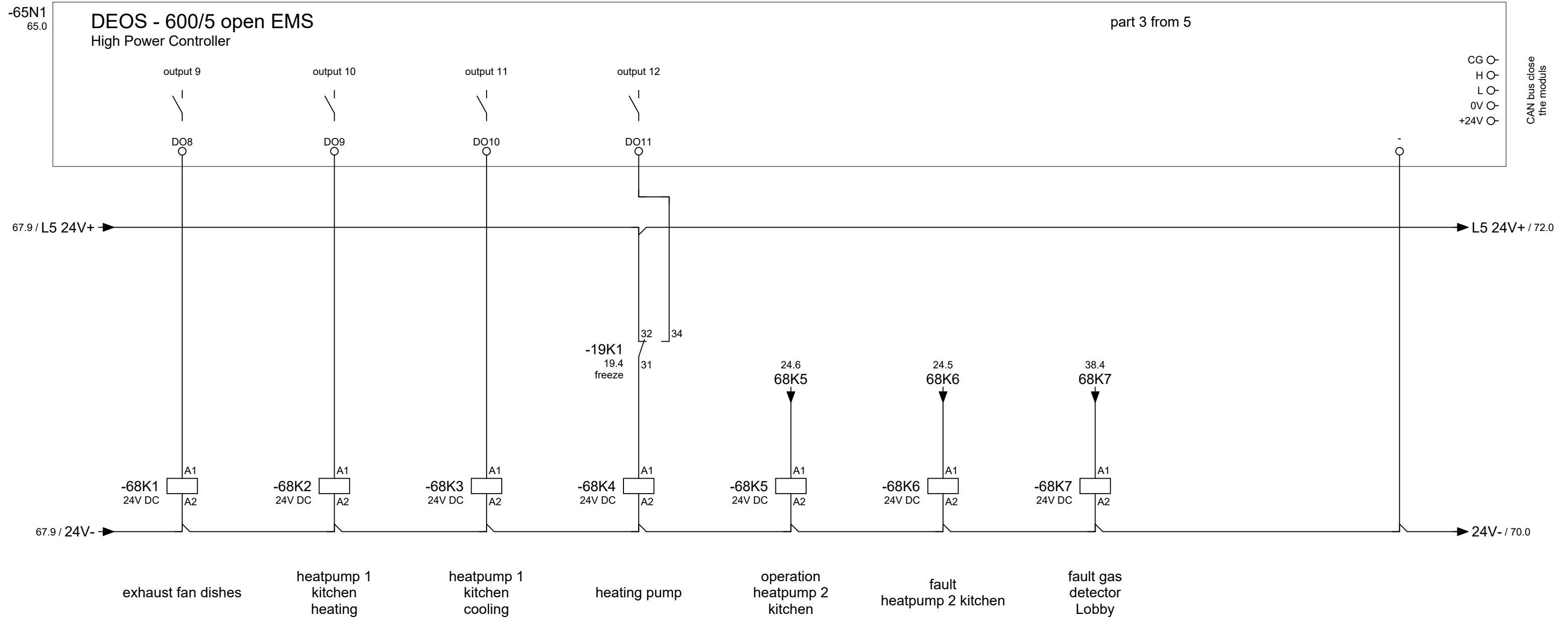
fault  
antifreeze  
kitchen

operation  
heatpump 2  
Lobby

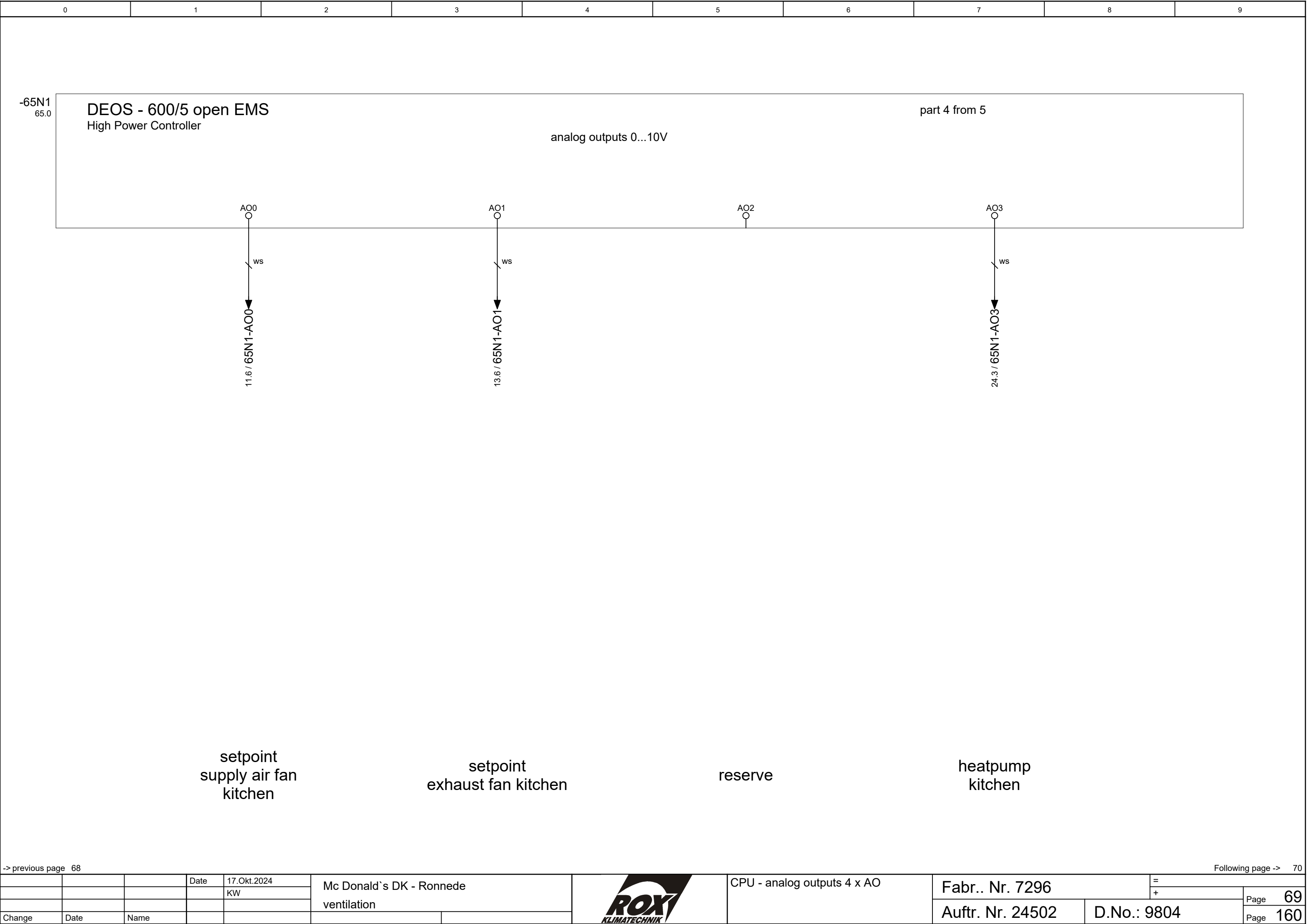
fault  
heatpump 2 Lobby

fault gas  
detector  
kitchen





|                  |                          |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|
| 38.51.7.024.0050 | 55.34.9.024.0090 + 94.P4 | 38.51.7.024.0050 | 38.51.7.024.0050 | 38.51.7.024.0050 | 38.51.7.024.0050 | 38.51.7.024.0050 |
| 14               | 14                       | 14               | 14               | 14               | 14               | 14               |
| 12               | 12                       | 12               | 12               | 12               | 12               | 12               |
| 11 14.4          | 11 23.4                  | 11 23.4          | 11 20.1          | 11 79.1          | 11 79.2          | 11 79.3          |
|                  | 24                       |                  |                  |                  |                  |                  |
|                  | 22                       |                  |                  |                  |                  |                  |
|                  | 34                       |                  |                  |                  |                  |                  |
|                  | 32                       |                  |                  |                  |                  |                  |
|                  | 44                       |                  |                  |                  |                  |                  |
|                  | 42                       |                  |                  |                  |                  |                  |



-65N1  
65.0

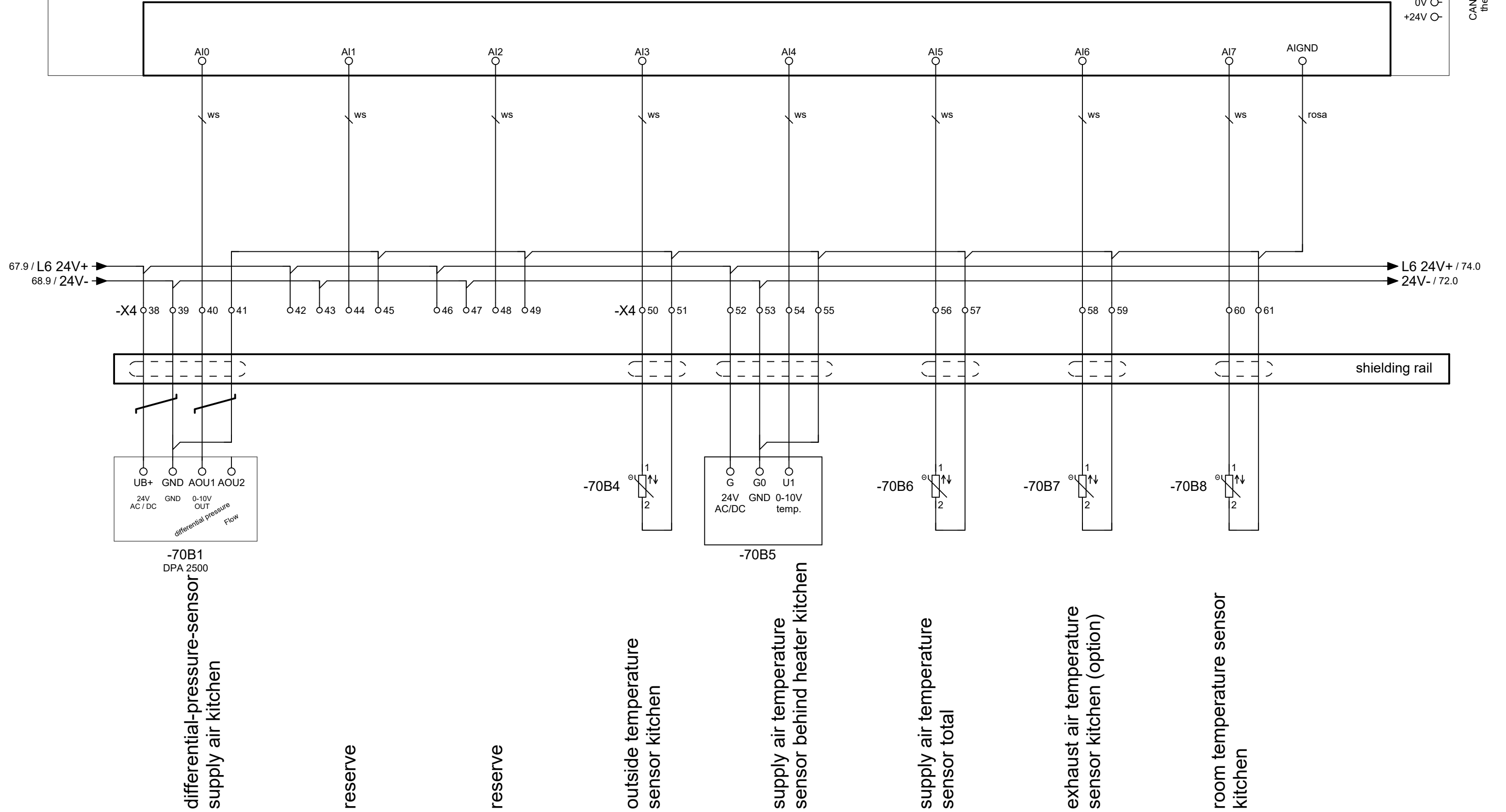
DEOS - 600/5 open EMS  
High Power Controller

part 5 from 5

universal analog inputs

CG ○  
H ○  
L ○  
0V ○  
+24V ○

CAN bus close  
the moduls

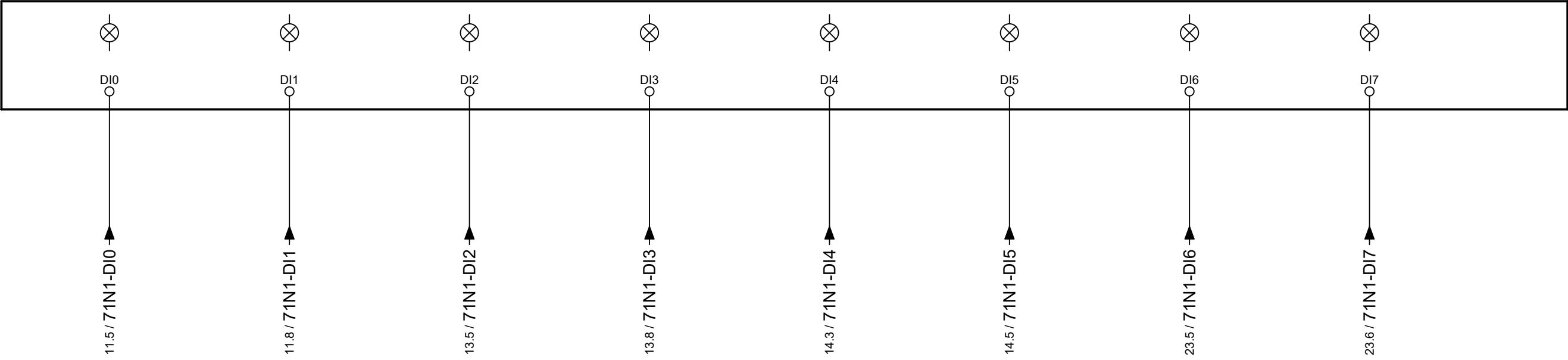


-71N1  
61.0  
64.3  
72.0

DS-C-DI 16  
digital input module 16 x DI

part 1 from 2

digital inputs 24V DC



fault  
supply air fan kitchen

fault  
repair-switch  
supply air fan kitchen

fault  
exhaust fan kitchen

fault  
repair-switch  
exhaust fan kitchen

fault  
exhaust fan dishes

fault  
exhaust fan repair-switch  
dishes

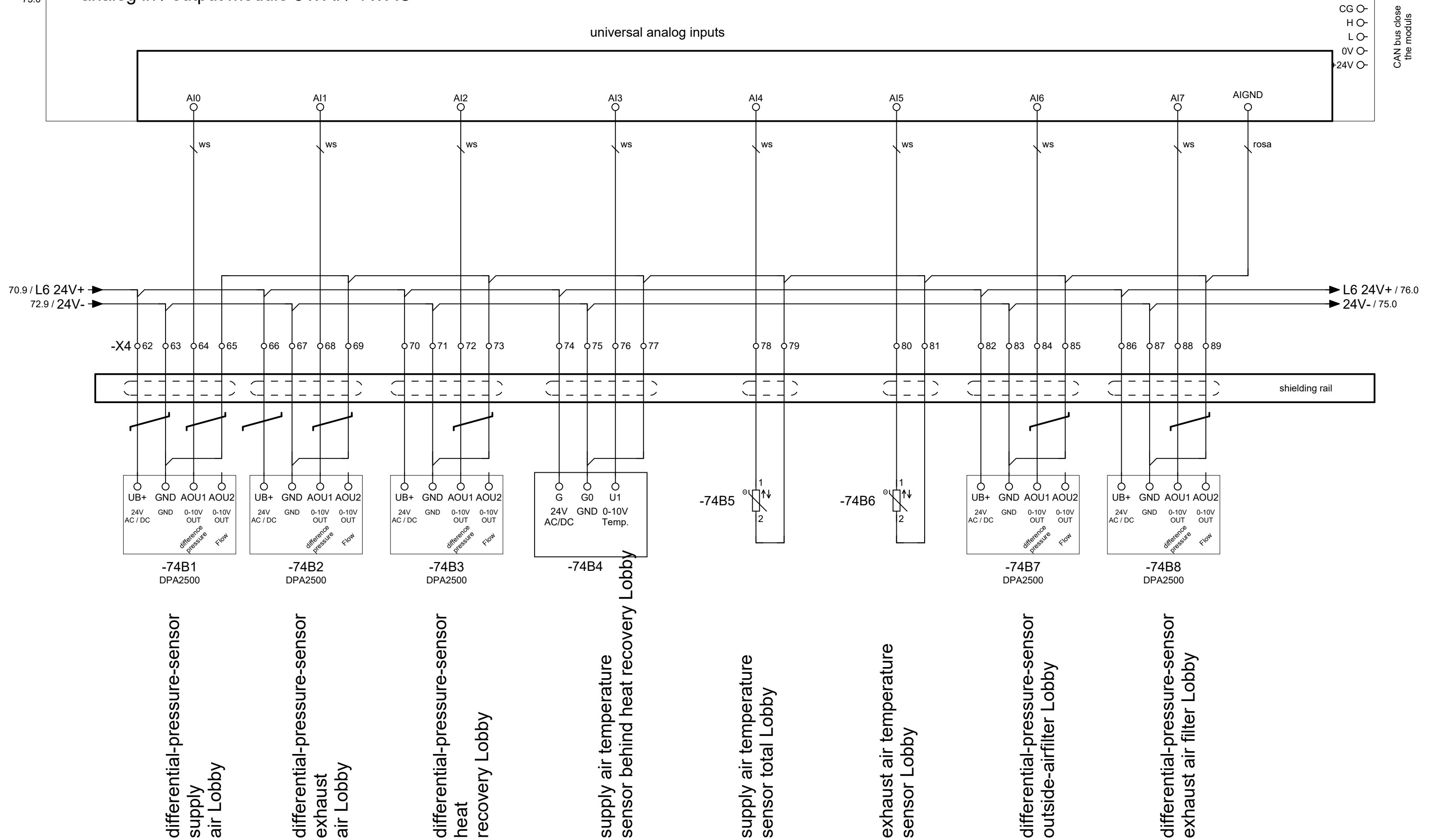
fault  
heatpump 1 kitchen

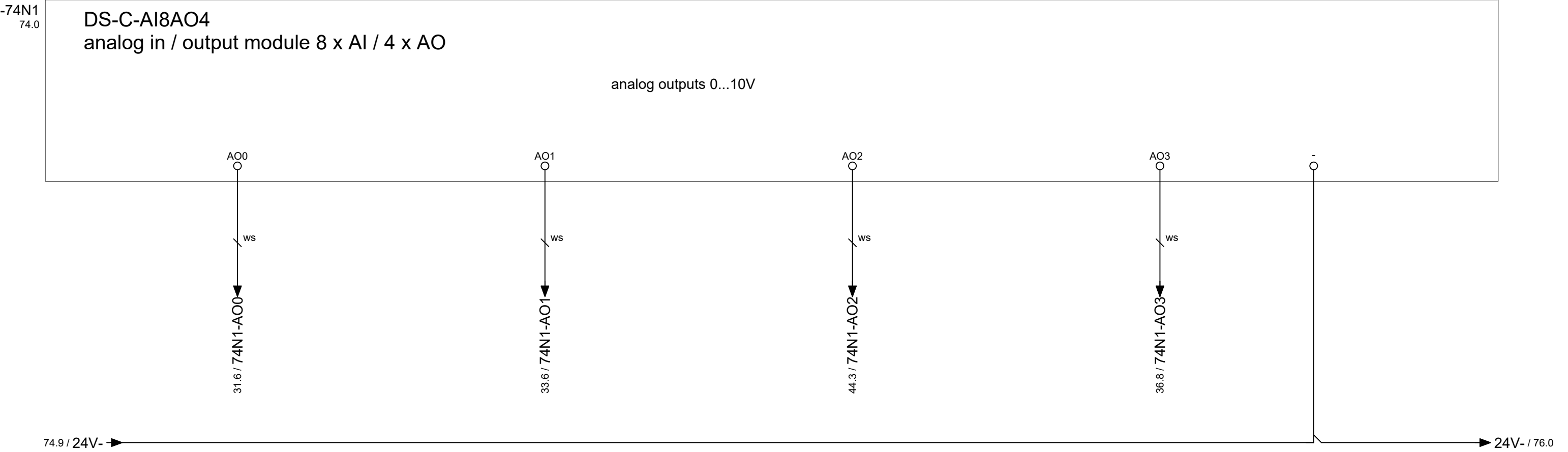
operation  
heatpump 1  
kitchen



-74N1  
61.3  
64.4  
75.0

DS-C-AI8AO4  
analog in / output module 8 x AI / 4 x AO



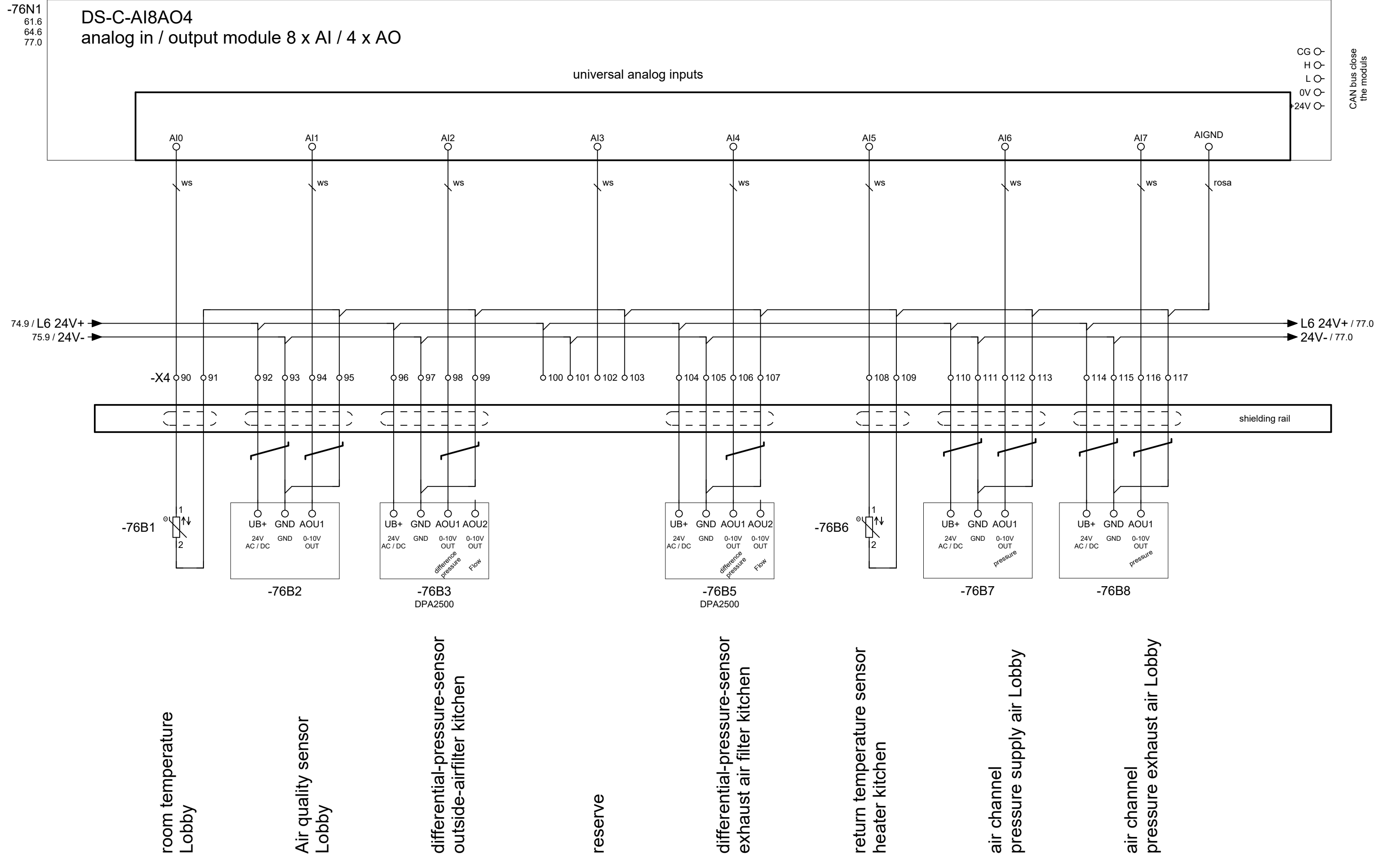


setpoint  
supply air fan Lobby

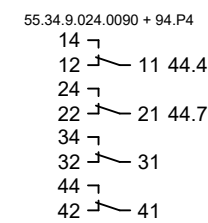
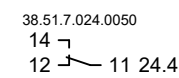
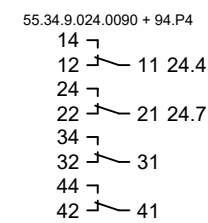
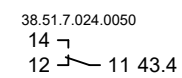
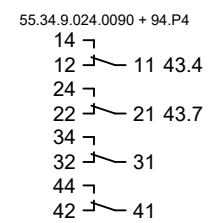
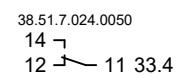
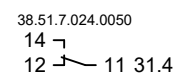
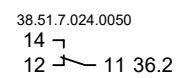
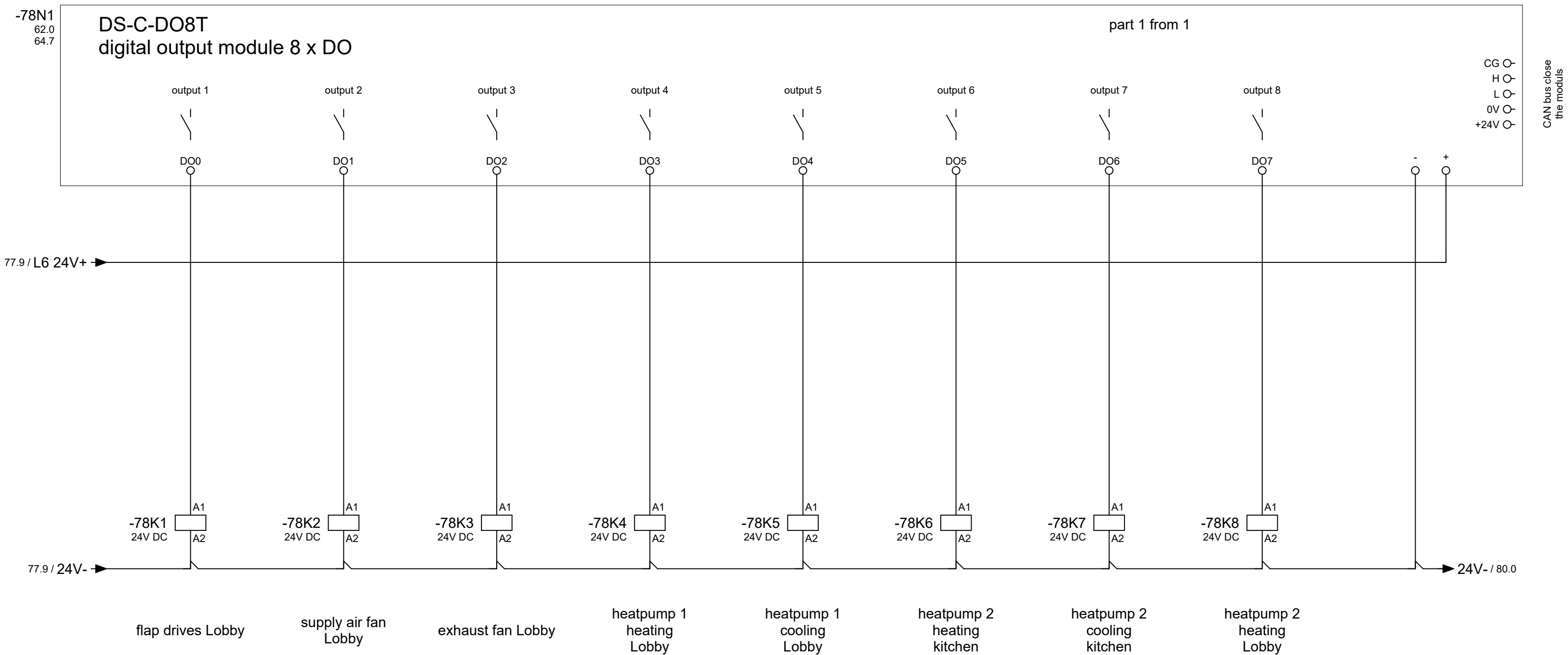
setpoint  
exhaust fan Lobby

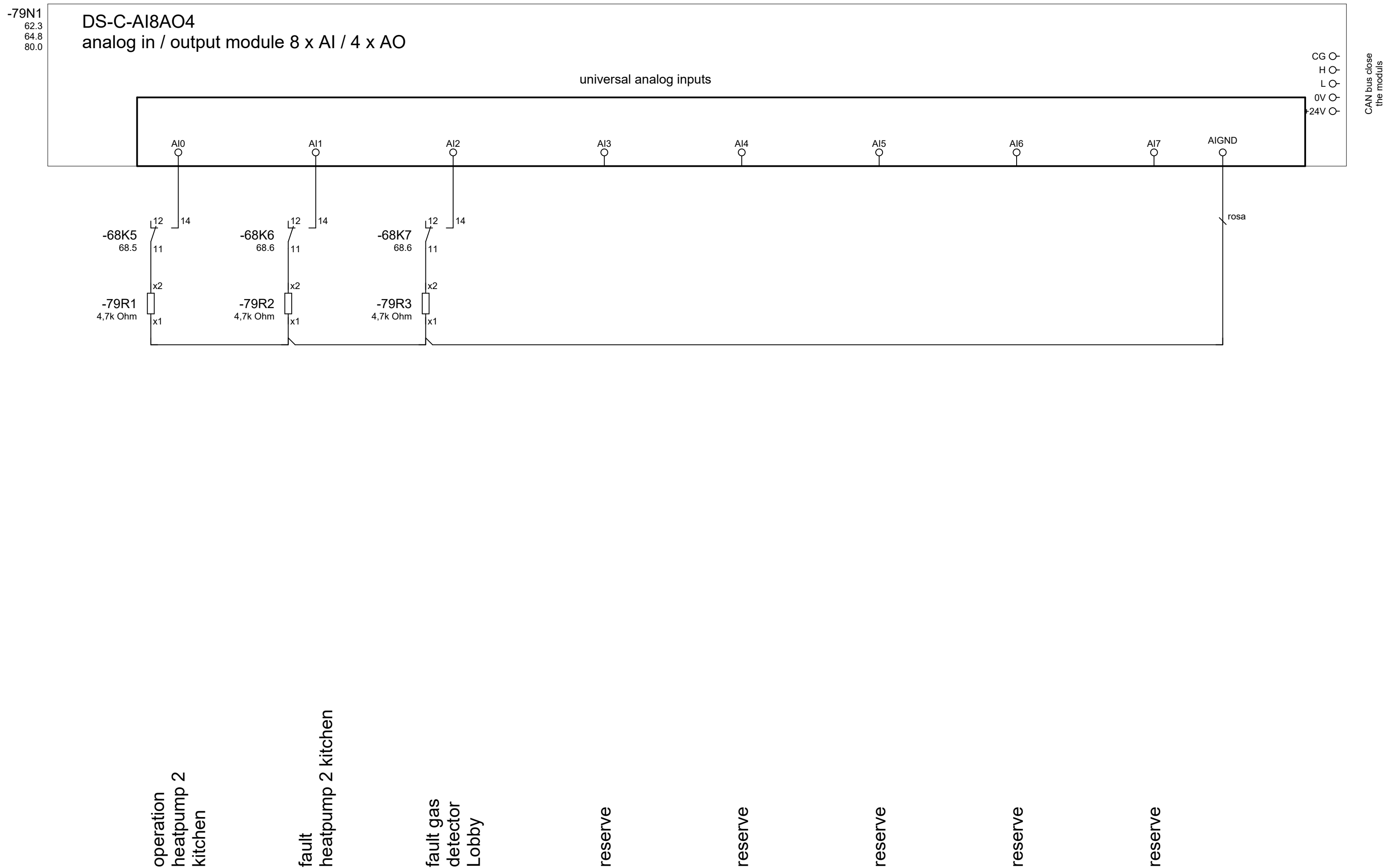
setpoint  
heatpump  
Lobby

setpoint  
actuator heat  
recovery Lobby

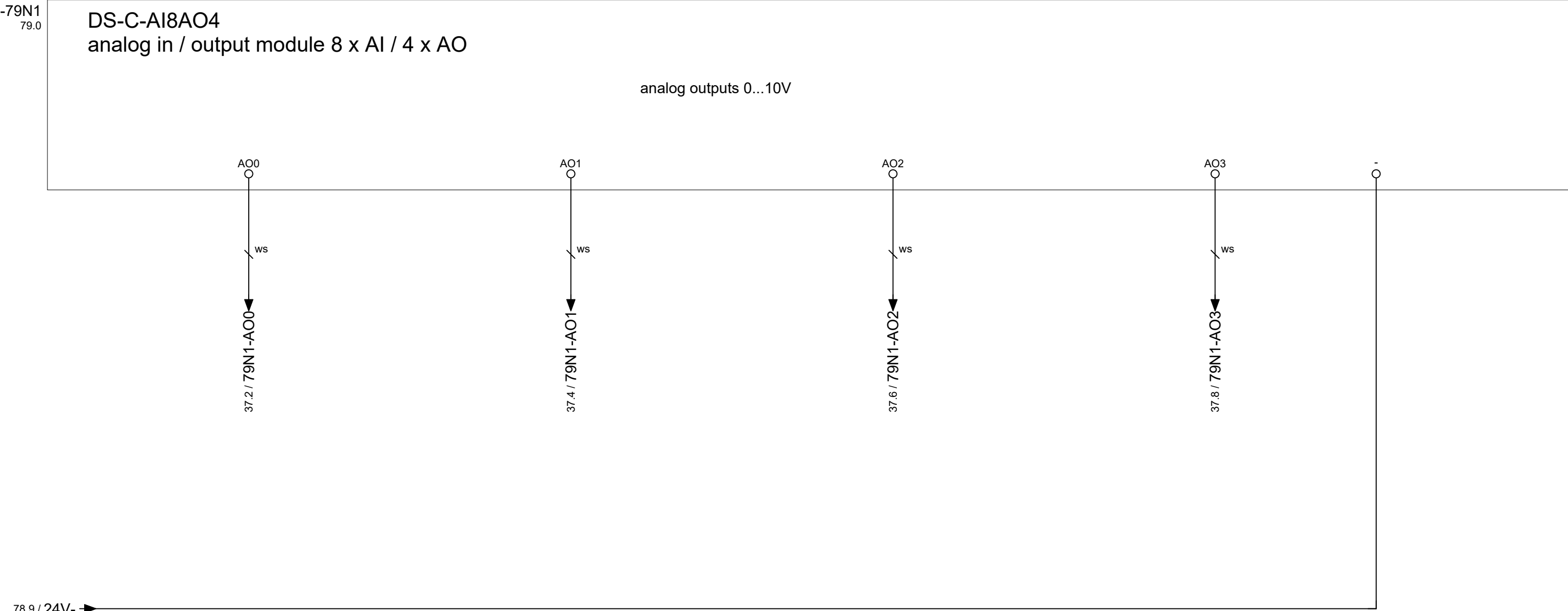








|        |      |      |      |             |                                         |                                                                                       |                                               |                  |             |   |          |
|--------|------|------|------|-------------|-----------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------|------------------|-------------|---|----------|
|        |      |      | Date | 17.Okt.2024 | Mc Donald`s DK - Ronnede<br>ventilation |  | DDC - analog<br>in- / outputs 8 x AI / 4 x AO | Fabr.. Nr. 7296  |             | = | Page 79  |
|        |      |      |      | KW          |                                         |                                                                                       |                                               | +                |             |   |          |
|        |      |      |      |             |                                         |                                                                                       |                                               |                  |             |   |          |
| Change | Date | Name |      |             |                                         |                                                                                       |                                               | Auftr. Nr. 24502 | D.No.: 9804 |   | Page 160 |



volume flow regulator  
1 supply  
air Lobby

volume flow regulator  
1 exhaust  
air Lobby

volume flow regulator  
2 supply  
air Lobby

volume flow regulator  
2 exhaust  
air Lobby



Terminal layout

Mueller

|                                 |  |  |  | ÖLFLEX<br>CLASSIC<br>110 4G4<br>4x4 mm² | OELFLEX<br>110 3G1,5<br>3x1,5 qmm | NYM-J<br>5x1,5 qmm | OELFLEX<br>110 4G1,5<br>4x1,5 qmm | OELFLEX<br>110 4G1,5<br>4x1,5 qmm |   | Strip<br>X1<br>X1 = terminal strip Primary current |            |          |        |        |            |  |  |  |  |      |
|---------------------------------|--|--|--|-----------------------------------------|-----------------------------------|--------------------|-----------------------------------|-----------------------------------|---|----------------------------------------------------|------------|----------|--------|--------|------------|--|--|--|--|------|
|                                 |  |  |  |                                         |                                   |                    |                                   |                                   |   | Finish                                             | Connection | Terminal | Jumper | Finish | Connection |  |  |  |  |      |
| lighting control-cabinet        |  |  |  | W-21A1/1                                | W-20M1                            | W-14M1             | W-13M1/1                          | W-11M1/1                          |   |                                                    |            | 1        |        | 3B1    | 14         |  |  |  |  | 3.8  |
| =                               |  |  |  |                                         |                                   |                    |                                   |                                   |   |                                                    |            | 2        |        |        |            |  |  |  |  | 3.8  |
| =                               |  |  |  |                                         |                                   |                    |                                   |                                   |   |                                                    |            | 3        |        |        |            |  |  |  |  | 3.8  |
| supply air fan kitchen          |  |  |  |                                         |                                   |                    |                                   |                                   | 1 | 11Q1                                               | 1          | 4        |        | 11F1   | 2          |  |  |  |  | 11.1 |
| =                               |  |  |  |                                         |                                   |                    |                                   |                                   | 2 | 11Q1                                               | 3          | 5        |        | 11F1   | 4          |  |  |  |  | 11.2 |
| =                               |  |  |  |                                         |                                   |                    |                                   |                                   | 3 | 11Q1                                               | 5          | 6        |        | 11F1   | 6          |  |  |  |  | 11.2 |
| =                               |  |  |  |                                         |                                   |                    |                                   | gnge                              |   | 11Q1                                               | PE         | 7        |        |        | PE         |  |  |  |  | 11.2 |
| exhaust fan kitchen             |  |  |  |                                         |                                   |                    | 1                                 |                                   |   | 13Q1                                               | 1          | 8        |        | 13F1   | 2          |  |  |  |  | 13.1 |
| =                               |  |  |  |                                         |                                   |                    | 2                                 |                                   |   | 13Q1                                               | 3          | 9        |        | 13F1   | 4          |  |  |  |  | 13.2 |
| =                               |  |  |  |                                         |                                   |                    | 3                                 |                                   |   | 13Q1                                               | 5          | 10       |        | 13F1   | 6          |  |  |  |  | 13.2 |
| =                               |  |  |  |                                         |                                   |                    | gnge                              |                                   |   | 13Q1                                               | PE         | 11       |        |        | PE         |  |  |  |  | 13.2 |
| exhaust fan dishes              |  |  |  |                                         |                                   | br                 |                                   |                                   |   | 14Q1                                               | 1          | 12       |        | 14K1   | 2          |  |  |  |  | 14.2 |
| =                               |  |  |  |                                         |                                   | sw                 |                                   |                                   |   | 14Q1                                               | 5          | 13       |        | 7K2    | A2         |  |  |  |  | 14.2 |
| =                               |  |  |  |                                         |                                   | gn/ge              |                                   |                                   |   | 14Q1                                               | PE         | 14       |        |        |            |  |  |  |  | 14.2 |
| heating pump                    |  |  |  |                                         | 1                                 |                    |                                   |                                   |   | 20M1                                               | L          | 15       |        | 68K4   | 14         |  |  |  |  | 20.2 |
| =                               |  |  |  |                                         | 2                                 |                    |                                   |                                   |   | 20M1                                               | N          | 16       |        |        |            |  |  |  |  | 20.2 |
| =                               |  |  |  |                                         | gnge                              |                    |                                   |                                   |   | 20M1                                               | PE         | 17       |        |        | PE         |  |  |  |  | 20.2 |
| heatpump 1 kitchen outdoor unit |  |  |  | 1                                       |                                   |                    |                                   |                                   |   | 21A1                                               | L          | 18       |        | 21F1   | 2          |  |  |  |  | 21.1 |

Terminal layout

Mueller

|                                 |  |  | OELFLEX<br>110 4G1,5<br>4x1,5 qmm | OELFLEX<br>110 4G1,5<br>4x1,5 qmm | OELFLEX<br>110 3G1,5<br>3x1,5 qmm | ÖLFLEX<br>CLASSIC<br>4x4 mm²<br>110 4G4 | OELFLEX<br>110 3G1,5<br>3x1,5 qmm | ÖLFLEX<br>CLASSIC<br>4x4 mm²<br>110 4G4 | Cable | Strip<br>X1<br>X1 = terminal strip Primary current |            |          |        |        | Cable      |       |  |  |  | Page |
|---------------------------------|--|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------------|-----------------------------------|-----------------------------------------|-------|----------------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|--|------|
|                                 |  |  | W-33M1/1                          | W-31M1/1                          | W-22A2/1                          | W-22A1/1                                | W-21A2/1                          | W-21A1/1                                |       | Finish                                             | Connection | Terminal | Jumper | Finish | Connection | Cable |  |  |  |      |
| heatpump 1 kitchen outdoor unit |  |  |                                   |                                   |                                   |                                         |                                   | 2                                       | GNYE  | 21A1                                               | N          | 19       | •      |        |            |       |  |  |  | 21.2 |
| =                               |  |  |                                   |                                   |                                   |                                         |                                   |                                         |       | 21A1                                               | PE         | 20       |        |        |            |       |  |  |  | 21.2 |
| heatpump 1 kitchen indoor unit  |  |  |                                   |                                   |                                   |                                         | 1                                 |                                         |       | 21A2                                               | L          | 21       |        | 21F2   | 2          |       |  |  |  | 21.4 |
| =                               |  |  |                                   |                                   |                                   |                                         | 2                                 |                                         | PE    | 21A2                                               | N          | 22       | •      |        |            |       |  |  |  | 21.4 |
| =                               |  |  |                                   |                                   |                                   |                                         |                                   |                                         |       | 21A2                                               | PE         | 23       |        |        |            |       |  |  |  | 21.4 |
| heatpump 2 kitchen outdoor unit |  |  |                                   |                                   |                                   | 1                                       |                                   |                                         |       | 22A1                                               | L          | 24       |        | 22F1   | 2          |       |  |  |  | 22.1 |
| =                               |  |  |                                   |                                   |                                   | 2                                       |                                   |                                         | GNYE  | 22A1                                               | N          | 25       | •      |        |            |       |  |  |  | 22.2 |
| =                               |  |  |                                   |                                   |                                   |                                         |                                   |                                         |       | 22A1                                               | PE         | 26       |        |        |            |       |  |  |  | 22.2 |
| heatpump 2 kitchen indoor unit  |  |  |                                   |                                   | 1                                 |                                         |                                   |                                         |       | 22A2                                               | L          | 27       |        | 22F2   | 2          |       |  |  |  | 22.4 |
| =                               |  |  |                                   |                                   | 2                                 |                                         |                                   |                                         | PE    | 22A2                                               | N          | 28       | •      |        |            |       |  |  |  | 22.4 |
| =                               |  |  |                                   |                                   |                                   | PE                                      |                                   |                                         |       | 22A2                                               | PE         | 29       |        |        |            |       |  |  |  | 22.4 |
| supply air fan Lobby            |  |  |                                   | 1                                 |                                   |                                         |                                   |                                         |       | 31Q1                                               | 1          | 30       |        | 31F1   | 2          |       |  |  |  | 31.1 |
| =                               |  |  |                                   | 2                                 |                                   |                                         |                                   |                                         |       | 31Q1                                               | 3          | 31       |        | 31F1   | 4          |       |  |  |  | 31.2 |
| =                               |  |  |                                   | 3                                 |                                   |                                         |                                   |                                         |       | 31Q1                                               | 5          | 32       |        | 31F1   | 6          |       |  |  |  | 31.2 |
| =                               |  |  |                                   | gnge                              |                                   |                                         |                                   |                                         |       | 31Q1                                               | PE         | 33       |        |        | PE         |       |  |  |  | 31.2 |
| exhaust fan Lobby               |  |  | 1                                 |                                   |                                   |                                         |                                   |                                         |       | 33Q1                                               | 1          | 34       |        | 33F1   | 2          |       |  |  |  | 33.1 |
| =                               |  |  | 2                                 |                                   |                                   |                                         |                                   |                                         |       | 33Q1                                               | 3          | 35       |        | 33F1   | 4          |       |  |  |  | 33.2 |
| =                               |  |  | 3                                 |                                   |                                   |                                         |                                   |                                         |       | 33Q1                                               | 5          | 36       |        | 33F1   | 6          |       |  |  |  | 33.2 |

Terminal layout

Mueller

|                               |  |  |  | OELFLEX<br>110 3G1,5<br>3x1,5 qmm | OLFLEX<br>CLASSIC<br>4x4 mm²<br>110 4G4 | OELFLEX<br>110 3G1,5<br>3x1,5 qmm | OLFLEX<br>CLASSIC<br>4x4 mm²<br>110 4G4 | OELFLEX<br>110 4G1,5<br>4x1,5 qmm |       | Strip<br>X1<br>X1 = terminal strip Primary current |            |          |             |        |            |       |  |  |  |  |      |      |
|-------------------------------|--|--|--|-----------------------------------|-----------------------------------------|-----------------------------------|-----------------------------------------|-----------------------------------|-------|----------------------------------------------------|------------|----------|-------------|--------|------------|-------|--|--|--|--|------|------|
|                               |  |  |  | W-42A2/1                          | W-42A1/1                                | W-41A2/1                          | W-41A1/1                                | W-33M1/1                          | Cable | Finish                                             | Connection | Terminal | Jumper      | Finish | Connection | Cable |  |  |  |  | Page |      |
| exhaust fan Lobby             |  |  |  |                                   |                                         |                                   |                                         |                                   | gnge  | 33Q1                                               | PE         | 37       | <div></div> |        | PE         |       |  |  |  |  | 33.2 |      |
| heatpump 1 Lobby outdoor unit |  |  |  |                                   |                                         |                                   | 1                                       |                                   | 41A1  | L                                                  | 38         |          |             | 41F1   | 2          |       |  |  |  |  | 41.1 |      |
| =                             |  |  |  |                                   |                                         |                                   | 2                                       |                                   | 41A1  | N                                                  | 39         |          |             |        |            |       |  |  |  |  | 41.2 |      |
| =                             |  |  |  |                                   |                                         |                                   | GNYE                                    |                                   | 41A1  | PE                                                 | 40         |          |             |        |            |       |  |  |  |  |      | 41.2 |
| heatpump 1 Lobby indoor unit  |  |  |  |                                   |                                         | 1                                 |                                         |                                   | 41A2  | L                                                  | 41         |          |             | 41F2   | 2          |       |  |  |  |  |      | 41.4 |
| =                             |  |  |  |                                   |                                         | 2                                 |                                         |                                   | 41A2  | N                                                  | 42         |          |             |        |            |       |  |  |  |  |      | 41.4 |
| =                             |  |  |  |                                   |                                         | PE                                |                                         |                                   | 41A2  | PE                                                 | 43         |          |             |        |            |       |  |  |  |  |      | 41.4 |
| heatpump 2 Lobby outdoor unit |  |  |  |                                   | 1                                       |                                   |                                         |                                   | 42A1  | L                                                  | 44         |          |             | 42F1   | 2          |       |  |  |  |  |      |      |
| =                             |  |  |  |                                   | 2                                       |                                   |                                         |                                   | 42A1  | N                                                  | 45         |          |             |        |            |       |  |  |  |  |      | 42.2 |
| =                             |  |  |  |                                   | GNYE                                    |                                   |                                         |                                   | 42A1  | PE                                                 | 46         |          |             |        |            |       |  |  |  |  |      |      |
| heatpump 2 Lobby indoor unit  |  |  |  | 1                                 |                                         |                                   |                                         |                                   | 42A2  | L                                                  | 47         |          | 42F2        | 2      |            |       |  |  |  |  |      | 42.4 |
| =                             |  |  |  | 2                                 |                                         |                                   |                                         |                                   | 42A2  | N                                                  | 48         |          |             |        |            |       |  |  |  |  |      | 42.4 |
| =                             |  |  |  | PE                                |                                         |                                   |                                         |                                   | 42A2  | PE                                                 | 49         |          |             |        |            |       |  |  |  |  |      | 42.4 |
|                               |  |  |  |                                   |                                         |                                   |                                         |                                   |       |                                                    |            |          |             |        |            |       |  |  |  |  |      |      |
|                               |  |  |  |                                   |                                         |                                   |                                         |                                   |       |                                                    |            |          |             |        |            |       |  |  |  |  |      |      |
|                               |  |  |  |                                   |                                         |                                   |                                         |                                   |       |                                                    |            |          |             |        |            |       |  |  |  |  |      |      |
|                               |  |  |  |                                   |                                         |                                   |                                         |                                   |       |                                                    |            |          |             |        |            |       |  |  |  |  |      |      |
|                               |  |  |  |                                   |                                         |                                   |                                         |                                   |       |                                                    |            |          |             |        |            |       |  |  |  |  |      |      |

Terminal layout

Mueller

|         |  |  |  |  |  |  |  | 1x16 qmm<br>NYM-J | W-3W1 | Cable | Strip<br>X01<br>X01 = terminal strip before main switch |            |          |        |        |            | Cable |  |  |  |     | Page |     |
|---------|--|--|--|--|--|--|--|-------------------|-------|-------|---------------------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|--|-----|------|-----|
|         |  |  |  |  |  |  |  |                   |       |       | Finish                                                  | Connection | Terminal | Jumper | Finish | Connection |       |  |  |  |     |      |     |
| Feed-in |  |  |  |  |  |  |  |                   |       |       |                                                         |            | 1        |        | 3F1    | N          |       |  |  |  |     | 3.1  |     |
| =       |  |  |  |  |  |  |  |                   |       |       |                                                         |            | 2        |        |        |            |       |  |  |  |     |      | 3.1 |
| =       |  |  |  |  |  |  |  |                   |       |       |                                                         |            | 3        |        |        |            |       |  |  |  |     |      | 3.2 |
| =       |  |  |  |  |  |  |  | PE                |       |       | -PA                                                     | PE         | 4        |        |        |            |       |  |  |  | 3.2 |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |
|         |  |  |  |  |  |  |  |                   |       |       |                                                         |            |          |        |        |            |       |  |  |  |     |      |     |

-> previous page 103

Following page -> 105

Terminal layout

Mueller

|                                |  |  |  |  | OELFLEX<br>110 3G1,5 | OELFLEX<br>110 3G1,5 | OELFLEX<br>110 3G1,5 | OELFLEX<br>110 3G1,5 | Cable | Strip<br>X2<br>X2 = terminal strip control unit 230V |            |          |        |        | Cable      |  |  |  |  | Page |
|--------------------------------|--|--|--|--|----------------------|----------------------|----------------------|----------------------|-------|------------------------------------------------------|------------|----------|--------|--------|------------|--|--|--|--|------|
|                                |  |  |  |  | W-42A2/4             | W-41A2/4             | W-22A2/4             | W-21A2/4             |       | Finish                                               | Connection | Terminal | Jumper | Finish | Connection |  |  |  |  |      |
| heatpump 1 kitchen indoor unit |  |  |  |  |                      |                      |                      | 1                    |       | 21A2                                                 | VD         | 1        |        | 23K1   | A1         |  |  |  |  | 23.8 |
| =                              |  |  |  |  |                      |                      |                      | 2                    |       | 21A2                                                 | VD         | 2        |        | 23K1   | A2         |  |  |  |  | 23.8 |
| =                              |  |  |  |  |                      |                      |                      | PE                   |       | 21A2                                                 | PE         | 3        |        |        | PE         |  |  |  |  | 23.8 |
| heatpump 2 kitchen indoor unit |  |  |  |  |                      |                      | 1                    |                      |       | 22A2                                                 | VD         | 4        |        | 24K1   | A1         |  |  |  |  | 24.8 |
| =                              |  |  |  |  |                      |                      | 2                    |                      |       | 22A2                                                 | VD         | 5        |        | 24K1   | A2         |  |  |  |  | 24.8 |
| =                              |  |  |  |  |                      |                      | PE                   |                      |       | 22A2                                                 | PE         | 6        |        |        | PE         |  |  |  |  | 24.8 |
| heatpump 1 Lobby indoor unit   |  |  |  |  |                      | 1                    |                      |                      |       | 41A2                                                 | VD         | 7        |        | 43K1   | A1         |  |  |  |  | 43.8 |
| =                              |  |  |  |  |                      | 2                    |                      |                      |       | 41A2                                                 | VD         | 8        |        | 43K1   | A2         |  |  |  |  | 43.8 |
| =                              |  |  |  |  |                      | PE                   |                      |                      |       | 41A2                                                 | PE         | 9        |        |        | PE         |  |  |  |  | 43.8 |
| heatpump 2 Lobby indoor unit   |  |  |  |  | 1                    |                      |                      |                      |       | 42A2                                                 | VD         | 10       |        | 44K1   | A1         |  |  |  |  | 44.8 |
| =                              |  |  |  |  | 2                    |                      |                      |                      |       | 42A2                                                 | VD         | 11       |        | 44K1   | A2         |  |  |  |  | 44.8 |
| =                              |  |  |  |  | PE                   |                      |                      |                      |       | 42A2                                                 | PE         | 12       |        |        | PE         |  |  |  |  | 44.8 |
|                                |  |  |  |  |                      |                      |                      |                      |       |                                                      |            |          |        |        |            |  |  |  |  |      |
|                                |  |  |  |  |                      |                      |                      |                      |       |                                                      |            |          |        |        |            |  |  |  |  |      |
|                                |  |  |  |  |                      |                      |                      |                      |       |                                                      |            |          |        |        |            |  |  |  |  |      |
|                                |  |  |  |  |                      |                      |                      |                      |       |                                                      |            |          |        |        |            |  |  |  |  |      |
|                                |  |  |  |  |                      |                      |                      |                      |       |                                                      |            |          |        |        |            |  |  |  |  |      |

Terminal layout

Mueller

|                                      |  |  | 5x1,5 qmm | 2x1 qmm         | 4x1 qmm         | 2x1 qmm         | 4x1 qmm         | 4x2x0,8 qmm |      | Strip<br>X3<br>X3 = terminal strip low voltage |            |          |        |        |            |      |  |  |  |      |      | Page |
|--------------------------------------|--|--|-----------|-----------------|-----------------|-----------------|-----------------|-------------|------|------------------------------------------------|------------|----------|--------|--------|------------|------|--|--|--|------|------|------|
|                                      |  |  | NYM-J     | OELFLEX 110 2X1 | OELFLEX 110 4X1 | OELFLEX 110 2X1 | OELFLEX 110 4X1 | J-Y(ST)-Y   |      | Finish                                         | Connection | Terminal | Jumper | Finish | Connection |      |  |  |  |      |      |      |
|                                      |  |  | W-14M1    | W-13Q1          | W-13M1/2        | W-11Q1          | W-11M1/2        | W-9A1       | rtbl |                                                | 9A1        |          | 1      |        | 5F2        | 2;11 |  |  |  |      | 9.1  |      |
| =                                    |  |  |           |                 |                 |                 |                 | wsge        |      | 9A1                                            |            | 2        |        | 7K1    | 21         |      |  |  |  | 9.1  |      |      |
| =                                    |  |  |           |                 |                 |                 |                 | ws          |      | 9A1                                            |            | 3        |        | 9K1    | 14         |      |  |  |  | 9.2  |      |      |
| =                                    |  |  |           |                 |                 |                 |                 | gn          |      | 9A1                                            |            | 4        |        | 9K1    | 12         |      |  |  |  | 9.2  |      |      |
| =                                    |  |  |           |                 |                 |                 |                 | ws          |      | 9A1                                            |            | 5        |        | 9K1    | A2         |      |  |  |  | 9.3  |      |      |
| supply air fan kitchen               |  |  |           |                 |                 |                 | 1               |             |      | 11M1                                           | +24V       | 6        |        | 9K2    | 11         |      |  |  |  | 11.4 |      |      |
| =                                    |  |  |           |                 |                 |                 | 2               |             |      | 11M1                                           | DIN        | 7        |        | 67K4   | 14         |      |  |  |  | 11.4 |      |      |
| =                                    |  |  |           |                 |                 |                 | 3               |             |      | 11M1                                           | COM        | 8        |        | 9K1    | 11         |      |  |  |  | 11.5 |      |      |
| =                                    |  |  |           |                 |                 | 4               |                 |             | 11M1 | NC                                             | 9          |          |        | 71N1   |            |      |  |  |  | 11.5 |      |      |
| repair-switch supply air fan kitchen |  |  |           |                 |                 | 1               |                 |             | 11Q1 | 13                                             | 10         |          |        |        |            |      |  |  |  | 11.8 |      |      |
| =                                    |  |  |           |                 |                 | 2               |                 |             | 11Q1 | 14                                             | 11         |          |        | 71N1   |            |      |  |  |  | 11.8 |      |      |
| exhaust fan kitchen                  |  |  |           |                 | 1               |                 |                 |             | 13M1 | GND                                            | 12         |          |        | 9K2    | 21         |      |  |  |  |      | 13.4 |      |
| =                                    |  |  |           |                 | 2               |                 |                 |             | 13M1 | D1                                             | 13         |          |        | 67K5   | 14         |      |  |  |  |      | 13.4 |      |
| =                                    |  |  |           |                 | 3               |                 |                 |             | 13M1 | COM                                            | 14         |          |        |        |            |      |  |  |  |      | 13.5 |      |
| =                                    |  |  |           |                 | 4               |                 |                 |             | 13M1 | NC                                             | 15         |          |        | 71N1   |            |      |  |  |  |      | 13.5 |      |
| repair-switch exhaust fan kitchen    |  |  |           | 1               |                 |                 |                 |             | 13Q1 | 13                                             | 16         |          |        | 14F1   | 13         |      |  |  |  |      | 13.8 |      |
| =                                    |  |  |           | 2               |                 |                 |                 |             | 13Q1 | 14                                             | 17         |          |        | 71N1   |            |      |  |  |  |      | 13.8 |      |
| exhaust fan dishes                   |  |  | gr        |                 |                 |                 |                 |             |      | 14M1                                           | TB         | 18       |        | 14F1   | 14         |      |  |  |  |      | 14.3 |      |



Terminal layout

Mueller

|                                |  |  |  |  |  |  |                                 |                                 |    | Strip<br>X3<br>X3 = terminal strip low voltage |            |          |             |        |            |       |  |  |  |  | Page |
|--------------------------------|--|--|--|--|--|--|---------------------------------|---------------------------------|----|------------------------------------------------|------------|----------|-------------|--------|------------|-------|--|--|--|--|------|
|                                |  |  |  |  |  |  | OELFLEX<br>110 10X1<br>10x1 qmm | OELFLEX<br>110 10X1<br>10x1 qmm |    | Finish                                         | Connection | Terminal | Jumper      | Finish | Connection | Cable |  |  |  |  |      |
| heatpump 1 kitchen indoor unit |  |  |  |  |  |  |                                 | W-22A2/3                        | 1  | 21A2                                           | COM        | 37       |             | 68K3   | 11         |       |  |  |  |  | 23.4 |
| =                              |  |  |  |  |  |  |                                 | W-21A2/3                        | 2  | 21A2                                           | HEAT       | 38       |             | 68K2   | 14         |       |  |  |  |  | 23.4 |
| =                              |  |  |  |  |  |  |                                 |                                 | 3  | 21A2                                           | COOL       | 39       |             | 68K3   | 14         |       |  |  |  |  | 23.4 |
| =                              |  |  |  |  |  |  |                                 |                                 | 4  | 21A2                                           | 1          | 40       | <div></div> | 20F1   | 13         |       |  |  |  |  | 23.5 |
| =                              |  |  |  |  |  |  |                                 |                                 | 5  | 21A2                                           | 2          | 41       |             | 71N1   |            |       |  |  |  |  | 23.5 |
| =                              |  |  |  |  |  |  |                                 |                                 | 6  | 21A2                                           | 3          | 42       |             |        |            |       |  |  |  |  | 23.6 |
| =                              |  |  |  |  |  |  |                                 |                                 | 7  | 21A2                                           | 4          | 43       |             | 71N1   |            |       |  |  |  |  | 23.6 |
| =                              |  |  |  |  |  |  |                                 |                                 | 8  | 21A2                                           | TR         | 44       |             | 68K2   | 21         |       |  |  |  |  | 23.6 |
| =                              |  |  |  |  |  |  |                                 |                                 | 9  | 21A2                                           | TR         | 45       |             | 23R1   | 2          |       |  |  |  |  | 23.7 |
| =                              |  |  |  |  |  |  |                                 |                                 | 10 | 21A2                                           | F2         | 46       |             |        |            |       |  |  |  |  | 23.7 |
| heatpump 2 kitchen indoor unit |  |  |  |  |  |  |                                 |                                 | 1  | 22A2                                           | COM        | 47       |             | 78K7   | 11         |       |  |  |  |  | 24.4 |
| =                              |  |  |  |  |  |  |                                 |                                 | 2  | 22A2                                           | HEAT       | 48       | <div></div> | 78K6   | 14         |       |  |  |  |  | 24.4 |
| =                              |  |  |  |  |  |  |                                 |                                 | 3  | 22A2                                           | COOL       | 49       |             | 78K7   | 14         |       |  |  |  |  | 24.4 |
| =                              |  |  |  |  |  |  |                                 |                                 | 4  | 22A2                                           | 1          | 50       |             |        |            |       |  |  |  |  | 24.5 |
| =                              |  |  |  |  |  |  |                                 |                                 | 5  | 22A2                                           | 2          | 51       |             | 68K6   | A1         |       |  |  |  |  | 24.5 |
| =                              |  |  |  |  |  |  |                                 |                                 | 6  | 22A2                                           | 3          | 52       |             |        |            |       |  |  |  |  | 24.6 |
| =                              |  |  |  |  |  |  |                                 |                                 | 7  | 22A2                                           | 4          | 53       |             | 68K5   | A1         |       |  |  |  |  | 24.6 |
| =                              |  |  |  |  |  |  |                                 |                                 | 8  | 22A2                                           | TR         | 54       |             | 78K6   | 21         |       |  |  |  |  | 24.6 |

Terminal layout

Mueller

|                                    |  | OELFLEX<br>110 3X1<br>3x1 qmm | OELFLEX<br>110 3X1<br>3x1 qmm | OELFLEX<br>110 2X1<br>2x1 qmm | OELFLEX<br>110 4X1<br>4x1 qmm | OELFLEX<br>110 2X1<br>2x1 qmm | OELFLEX<br>110 4X1<br>4x1 qmm | OELFLEX<br>110 10X1<br>10x1 qmm | Cable | Strip<br>X3<br>X3 = terminal strip low voltage |            |          |             |        |            | Cable |  |  |  |  | Page |
|------------------------------------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|-------|------------------------------------------------|------------|----------|-------------|--------|------------|-------|--|--|--|--|------|
|                                    |  | W-36Y2                        | W-36Y1                        | W-33Q1                        | W-33M1/2                      | W-31Q1                        | W-31M1/2                      | W-22A2/3                        |       | Finish                                         | Connection | Terminal | Jumper      | Finish | Connection |       |  |  |  |  |      |
| heatpump 2 kitchen indoor unit     |  |                               |                               |                               |                               |                               |                               | 9                               |       | 22A2                                           | TR         | 55       | <div></div> | 23R1   | 6          |       |  |  |  |  | 24.7 |
| =                                  |  |                               |                               |                               |                               |                               |                               | 10                              |       | 22A2                                           | F2         | 56       |             |        |            |       |  |  |  |  | 24.7 |
| supply air fan Lobby               |  |                               |                               |                               |                               |                               | 1                             |                                 |       | 31M1                                           | +24V       | 57       |             | 9K3    | 11         |       |  |  |  |  | 31.4 |
| =                                  |  |                               |                               |                               |                               |                               | 2                             |                                 |       | 31M1                                           | DIN        | 58       | <div></div> | 78K2   | 14         |       |  |  |  |  | 31.4 |
| =                                  |  |                               |                               |                               |                               |                               | 3                             |                                 |       | 31M1                                           | COM        | 59       |             |        |            |       |  |  |  |  | 31.5 |
| =                                  |  |                               |                               |                               |                               |                               | 4                             |                                 |       | 31M1                                           | NC         | 60       |             |        |            |       |  |  |  |  | 31.5 |
| repair-switch supply air fan Lobby |  |                               |                               |                               |                               | 1                             |                               |                                 |       | 31Q1                                           | 13         | 61       |             |        |            |       |  |  |  |  | 31.8 |
| =                                  |  |                               |                               |                               |                               | 2                             |                               |                                 |       | 31Q1                                           | 14         | 62       | <div></div> | 71N1   |            |       |  |  |  |  | 31.8 |
| exhaust fan Lobby                  |  |                               |                               |                               | 1                             |                               |                               |                                 |       | 33M1                                           | +24V       | 63       |             | 9K3    | 21         |       |  |  |  |  | 33.4 |
| =                                  |  |                               |                               |                               | 2                             |                               |                               |                                 |       | 33M1                                           | DIN        | 64       |             | 78K3   | 14         |       |  |  |  |  | 33.4 |
| =                                  |  |                               |                               |                               | 3                             |                               |                               |                                 |       | 33M1                                           | COM        | 65       |             |        |            |       |  |  |  |  | 33.5 |
| =                                  |  |                               |                               |                               | 4                             |                               |                               |                                 |       | 33M1                                           | NC         | 66       |             |        |            |       |  |  |  |  | 33.5 |
| repair-switch exhaust fan Lobby    |  |                               |                               | 1                             |                               |                               |                               |                                 |       | 33Q1                                           | 13         | 67       |             |        |            |       |  |  |  |  | 33.8 |
| =                                  |  |                               |                               | 2                             |                               |                               |                               |                                 |       | 33Q1                                           | 14         | 68       |             | 71N1   |            |       |  |  |  |  | 33.8 |
| outside air damper Lobby           |  |                               | 1                             |                               |                               |                               |                               |                                 |       | 36Y1                                           | 2          | 69       |             | 78K1   | 11         |       |  |  |  |  | 36.2 |
| =                                  |  |                               | 2                             |                               |                               |                               |                               |                                 |       | 36Y1                                           | 1          | 70       |             | X4     | 13         |       |  |  |  |  | 36.2 |
| =                                  |  |                               | 3                             |                               |                               |                               |                               |                                 |       | 36Y1                                           | 3          | 71       |             | 78K1   | 14         |       |  |  |  |  | 36.2 |
| exhaust air flap Lobby             |  | 1                             |                               |                               |                               |                               |                               |                                 |       | 36Y2                                           | 2          | 72       |             | 78K1   | 11;14      |       |  |  |  |  | 36.3 |

Terminal layout

Mueller

|                              |  |  |  | OELFLEX<br>110 10X1<br>10x1 qmm | OELFLEX<br>110 4X1<br>4x1 qmm | OELFLEX<br>110 4X1<br>4x1 qmm | OELFLEX<br>110 3X1<br>3x1 qmm | Strip<br>X3<br>X3 = terminal strip low voltage |        |            |          |        |        |            |       | Page |
|------------------------------|--|--|--|---------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------------------|--------|------------|----------|--------|--------|------------|-------|------|
|                              |  |  |  | W-41A2/3                        | W-38A2                        | W-38A1                        | W-36Y2                        | Cable                                          | Finish | Connection | Terminal | Jumper | Finish | Connection | Cable |      |
| exhaust air flap Lobby       |  |  |  |                                 |                               |                               | 2                             |                                                | 36Y2   | 1          | 73       |        | X4     | 15         |       | 36.4 |
| =                            |  |  |  |                                 |                               |                               | 3                             |                                                | 36Y2   | 3          | 74       |        |        |            |       | 36.4 |
| gas detector kitchen         |  |  |  |                                 |                               | 1                             |                               |                                                | 38A1   | 24V+       | 75       |        | X4     | 30         |       | 38.1 |
| =                            |  |  |  |                                 |                               | 2                             |                               |                                                | 38A1   | 24V-       | 76       |        | X4     | 31         |       | 38.2 |
| =                            |  |  |  |                                 |                               | 3                             |                               |                                                | 38A1   |            | 77       |        |        |            |       | 38.2 |
| =                            |  |  |  |                                 |                               | 4                             |                               |                                                | 38A1   |            | 78       |        | 65N1   |            |       | 38.2 |
| gas detector Lobby           |  |  |  |                                 | 1                             |                               |                               |                                                | 38A2   | 24V+       | 79       |        |        |            |       | 38.3 |
| =                            |  |  |  |                                 | 2                             |                               |                               |                                                | 38A2   | 24V-       | 80       |        | X4     | 35         |       | 38.3 |
| =                            |  |  |  |                                 | 3                             |                               |                               |                                                | 38A2   |            | 81       |        |        |            |       | 38.4 |
| =                            |  |  |  |                                 | 4                             |                               |                               |                                                | 38A2   |            | 82       |        | 68K7   | A1         |       | 38.4 |
| heatpump 1 Lobby indoor unit |  |  |  | 1                               |                               |                               |                               |                                                | 41A2   | COM        | 83       |        | 78K5   | 11         |       | 43.4 |
| =                            |  |  |  | 2                               |                               |                               |                               |                                                | 41A2   | HEAT       | 84       |        | 78K4   | 14         |       | 43.4 |
| =                            |  |  |  | 3                               |                               |                               |                               |                                                | 41A2   | COOL       | 85       |        | 78K5   | 14         |       | 43.4 |
| =                            |  |  |  | 4                               |                               |                               |                               |                                                | 41A2   | 1          | 86       |        |        |            |       | 43.5 |
| =                            |  |  |  | 5                               |                               |                               |                               |                                                | 41A2   | 2          | 87       |        | 71N1   |            |       | 43.5 |
| =                            |  |  |  | 6                               |                               |                               |                               |                                                | 41A2   | 3          | 88       |        |        |            |       | 43.6 |
| =                            |  |  |  | 7                               |                               |                               |                               |                                                | 41A2   | 4          | 89       |        | 71N1   |            |       | 43.6 |
| =                            |  |  |  | 8                               |                               |                               |                               |                                                | 41A2   | TR         | 90       |        | 78K4   | 21         |       | 43.6 |

Terminal layout

Mueller

|                              |  |  |  |  |  |                                       |                                 |                                 |       | Strip<br>X3<br>X3 = terminal strip low voltage |            |          |             |        |            |       |  |  |  |  | Page |
|------------------------------|--|--|--|--|--|---------------------------------------|---------------------------------|---------------------------------|-------|------------------------------------------------|------------|----------|-------------|--------|------------|-------|--|--|--|--|------|
|                              |  |  |  |  |  | J-Y(ST)-Y<br>4x2x0.8<br>qmm<br>W-65A1 | OELFLEX<br>110 10X1<br>W-42A2/3 | OELFLEX<br>110 10X1<br>W-41A2/3 | Cable | Finish                                         | Connection | Terminal | Jumper      | Finish | Connection | Cable |  |  |  |  |      |
| heatpump 1 Lobby indoor unit |  |  |  |  |  |                                       |                                 | 9                               |       | 41A2                                           | TR         | 91       | <div></div> | 23R1   | 10         |       |  |  |  |  | 43.7 |
| =                            |  |  |  |  |  |                                       |                                 | 10                              |       | 41A2                                           | F2         | 92       |             |        |            |       |  |  |  |  | 43.7 |
| heatpump 2 Lobby indoor unit |  |  |  |  |  |                                       | 1                               |                                 |       | 42A2                                           | COM        | 93       |             | 67K2   | 11         |       |  |  |  |  | 44.4 |
| =                            |  |  |  |  |  |                                       | 2                               |                                 |       | 42A2                                           | HEAT       | 94       |             | 78K8   | 14         |       |  |  |  |  | 44.4 |
| =                            |  |  |  |  |  |                                       | 3                               |                                 |       | 42A2                                           | COOL       | 95       | <div></div> | 67K2   | 14         |       |  |  |  |  | 44.4 |
| =                            |  |  |  |  |  |                                       | 4                               |                                 |       | 42A2                                           | 1          | 96       |             |        |            |       |  |  |  |  | 44.5 |
| =                            |  |  |  |  |  |                                       | 5                               |                                 |       | 42A2                                           | 2          | 97       |             | 65N1   |            |       |  |  |  |  | 44.5 |
| =                            |  |  |  |  |  |                                       | 6                               |                                 |       | 42A2                                           | 3          | 98       |             | 66S1   | 13         |       |  |  |  |  | 44.6 |
| =                            |  |  |  |  |  |                                       | 7                               |                                 |       | 42A2                                           | 4          | 99       | <div></div> | 65N1   |            |       |  |  |  |  | 44.6 |
| =                            |  |  |  |  |  |                                       | 8                               |                                 |       | 42A2                                           | TR         | 100      |             | 78K8   | 21         |       |  |  |  |  | 44.6 |
| =                            |  |  |  |  |  |                                       | 9                               |                                 |       | 42A2                                           | TR         | 101      |             | 23R1   | 14         |       |  |  |  |  | 44.7 |
| =                            |  |  |  |  |  |                                       | 10                              |                                 |       | 42A2                                           | F2         | 102      |             |        |            |       |  |  |  |  | 44.7 |
| operating panel              |  |  |  |  |  | rt                                    |                                 |                                 |       | 65A1                                           | 24V+       | 103      |             | 65F1   | 1;+        |       |  |  |  |  | 65.4 |
| =                            |  |  |  |  |  | bl                                    |                                 |                                 |       | 65A1                                           | 24V-       | 104      |             | 65N1   | 0V         |       |  |  |  |  | 65.4 |
| =                            |  |  |  |  |  | ws                                    |                                 |                                 |       | 65A1-65H1                                      | +          | 105      | <div></div> | 65N1   | DI         |       |  |  |  |  | 65.5 |
| =                            |  |  |  |  |  | ge                                    |                                 |                                 |       | 65A1-65H1                                      | -          | 106      |             |        |            |       |  |  |  |  | 65.5 |
| =                            |  |  |  |  |  | ws                                    |                                 |                                 |       | 65A1-65H2                                      | +          | 107      |             | 65N1   |            |       |  |  |  |  | 65.5 |
| =                            |  |  |  |  |  | gn                                    |                                 |                                 |       | 65A1-65H2                                      | -          | 108      |             | XR     | -          |       |  |  |  |  | 65.5 |

Terminal layout

Mueller

|                |  |  |  |  |  |  |  |  |  | Cable | Strip<br>X3<br>X3 = terminal strip low voltage |            |          |        |        |            | Cable |  |  |  |      | Page |
|----------------|--|--|--|--|--|--|--|--|--|-------|------------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|--|------|------|
|                |  |  |  |  |  |  |  |  |  |       | Finish                                         | Connection | Terminal | Jumper | Finish | Connection |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
| term extension |  |  |  |  |  |  |  |  |  |       | 72W1                                           |            | 109      |        | 44K1   | 41         |       |  |  |  | 72.8 |      |
| =              |  |  |  |  |  |  |  |  |  |       | 72W1                                           |            | 110      |        | 71N1   |            |       |  |  |  | 72.8 |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |
|                |  |  |  |  |  |  |  |  |  |       |                                                |            |          |        |        |            |       |  |  |  |      |      |

Terminal layout

Mueller

|                                          | 4x2x0.8<br>qmm      | 4x0.5 qmm       | 2x0.5 qmm         | 2x0.5 qmm         | 4x0.5 qmm         | 4x0.5 qmm         | 3x0.5 qmm         | 2x0.5 qmm         | Cable | Strip<br>X4<br>X4 = terminal strip signals |            |          |        |        |            | Cable |  |  |  |  | Page |
|------------------------------------------|---------------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|--------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|--|--|------|
|                                          | J-Y(ST)-Y<br>W-37Y1 | LIYCY<br>W-36Y3 | LIYCY<br>W-33M1/3 | LIYCY<br>W-31M1/3 | LIYCY<br>W-22A2/2 | LIYCY<br>W-21A2/2 | LIYCY<br>W-13M1/3 | LIYCY<br>W-11M1/3 |       | Finish                                     | Connection | Terminal | Jumper | Finish | Connection | Cable |  |  |  |  |      |
| supply air fan kitchen                   |                     |                 |                   |                   |                   |                   | ws                |                   |       | 11M1                                       |            | 1        |        | 65N1   |            |       |  |  |  |  | 11.6 |
| =                                        |                     |                 |                   |                   |                   |                   | br                |                   |       | 11M1                                       | GND        | 2        | ┌      | 9K3    | A2         |       |  |  |  |  | 11.7 |
| exhaust fan kitchen                      |                     |                 |                   |                   |                   |                   | ws                |                   |       | 13M1                                       |            | 3        | └      | 67K6   | 21         |       |  |  |  |  | 13.6 |
| =                                        |                     |                 |                   |                   |                   |                   | br                |                   |       | 13M1                                       | GND        | 4        | ┌      | 14K1   | A2         |       |  |  |  |  | 13.7 |
| =                                        |                     |                 |                   |                   |                   |                   | gn                |                   |       | 13M1                                       |            | 5        |        | 67K6   | 24         |       |  |  |  |  | 13.7 |
| heatpump 1 kitchen indoor unit           |                     |                 |                   |                   |                   | ws                |                   |                   |       | 21A2                                       | Av1        | 6        | ┌      |        |            |       |  |  |  |  | 23.2 |
| =                                        |                     |                 |                   |                   |                   | br                |                   |                   |       | 21A2                                       | Av2        | 7        | ┌      | 19K2   | A2         |       |  |  |  |  | 23.3 |
| heatpump 2 kitchen indoor unit           |                     |                 |                   |                   | ws                |                   |                   |                   |       | 22A2                                       | Av1        | 8        | └      | 65N1   |            |       |  |  |  |  | 24.2 |
| =                                        |                     |                 |                   |                   | br                |                   |                   |                   |       | 22A2                                       | Av2        | 9        | ┌      |        |            |       |  |  |  |  | 24.3 |
| supply air fan Lobby                     |                     |                 |                   | ws                |                   |                   |                   |                   |       | 31M1                                       |            | 10       |        | 74N1   |            |       |  |  |  |  | 31.6 |
| =                                        |                     |                 |                   | br                |                   |                   |                   |                   |       | 31M1                                       | GND        | 11       | ┌      |        |            |       |  |  |  |  | 31.7 |
| exhaust fan Lobby                        |                     |                 | ws                |                   |                   |                   |                   |                   |       | 33M1                                       |            | 12       |        | 74N1   |            |       |  |  |  |  | 33.6 |
| =                                        |                     |                 | br                |                   |                   |                   |                   |                   |       | 33M1                                       | GND        | 13       | └      | X3     | 70         |       |  |  |  |  | 33.7 |
| actuator plate heat exchanger Lobby      |                     | ws              |                   |                   |                   |                   |                   |                   |       | 36Y3                                       | 1          | 14       | ┌      | X3     | 72         |       |  |  |  |  | 36.7 |
| =                                        |                     | br              |                   |                   |                   |                   |                   |                   |       | 36Y3                                       | 2          | 15       | ┌      | X3     | 73         |       |  |  |  |  | 36.7 |
| =                                        |                     | gn              |                   |                   |                   |                   |                   |                   |       | 36Y3                                       | 8          | 16       |        | 74N1   |            |       |  |  |  |  | 36.8 |
| =                                        |                     | ge              |                   |                   |                   |                   |                   |                   |       | 36Y3                                       | 9          | 17       |        |        |            |       |  |  |  |  | 36.8 |
| volume flow regulator 1 supply air Lobby | rtbl                |                 |                   |                   |                   |                   |                   |                   |       | 37Y1                                       | 2          | 18       | ┌      |        |            |       |  |  |  |  | 37.2 |

Terminal layout

Mueller

|                                           |  |  | 4x0,5 qmm | 4x0,5 qmm | 4x2x0,8 qmm | 4x2x0,8 qmm | 4x2x0,8 qmm | 4x2x0,8 qmm | Strip<br>X4<br>X4 = terminal strip signals |            |          |        |        |            |       |  |  |  |  | Page |
|-------------------------------------------|--|--|-----------|-----------|-------------|-------------|-------------|-------------|--------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|--|--|------|
|                                           |  |  | LIYCY     | LIYCY     | J-Y(ST)-Y   | J-Y(ST)-Y   | J-Y(ST)-Y   | J-Y(ST)-Y   | Finish                                     | Connection | Terminal | Jumper | Finish | Connection | Cable |  |  |  |  |      |
| volume flow regulator 1 supply air Lobby  |  |  | W-42A2/2  | W-41A2/2  | W-37Y4      | W-37Y3      | W-37Y2      | W-37Y1      | wsge                                       | 37Y1       | 1        | 19     |        |            |       |  |  |  |  | 37.2 |
| =                                         |  |  |           |           |             |             |             |             | wsgn                                       | 37Y1       | 3        | 20     |        | 79N1       |       |  |  |  |  | 37.2 |
| =                                         |  |  |           |           |             |             |             |             | wsbn                                       | 37Y1       | 4        | 21     |        |            |       |  |  |  |  | 37.2 |
| volume flow regulator 1 exhaust air Lobby |  |  |           |           |             |             | rtbl        |             |                                            | 37Y2       | 2        | 22     |        |            |       |  |  |  |  | 37.3 |
| =                                         |  |  |           |           |             |             | wsge        |             |                                            | 37Y2       | 1        | 23     |        |            |       |  |  |  |  | 37.4 |
| =                                         |  |  |           |           |             |             | wsgn        |             |                                            | 37Y2       | 3        | 24     |        | 79N1       |       |  |  |  |  | 37.4 |
| =                                         |  |  |           |           |             |             | wsbn        |             |                                            | 37Y2       | 4        | 25     |        |            |       |  |  |  |  | 37.4 |
| volume flow regulator 2 supply air Lobby  |  |  |           |           |             | rtbl        |             |             |                                            | 37Y3       | 2        | 26     |        |            |       |  |  |  |  | 37.5 |
| =                                         |  |  |           |           |             | wsge        |             |             |                                            | 37Y3       | 1        | 27     |        |            |       |  |  |  |  | 37.6 |
| =                                         |  |  |           |           |             | wsgn        |             |             |                                            | 37Y3       | 3        | 28     |        | 79N1       |       |  |  |  |  | 37.6 |
| =                                         |  |  |           |           |             | wsbn        |             |             |                                            | 37Y3       | 4        | 29     |        |            |       |  |  |  |  | 37.6 |
| volume flow regulator 2 exhaust air Lobby |  |  |           |           | rtbl        |             |             |             |                                            | 37Y4       | 2        | 30     |        | X3         | 75    |  |  |  |  | 37.7 |
| =                                         |  |  |           |           | wsge        |             |             |             |                                            | 37Y4       | 1        | 31     |        | X3         | 76    |  |  |  |  | 37.8 |
| =                                         |  |  |           |           | wsgn        |             |             |             |                                            | 37Y4       | 3        | 32     |        | 79N1       |       |  |  |  |  | 37.8 |
| =                                         |  |  |           |           | wsbn        |             |             |             |                                            | 37Y4       | 4        | 33     |        |            |       |  |  |  |  | 37.8 |
| heatpump 1 Lobby indoor unit              |  |  |           | ws        |             |             |             |             |                                            | 41A2       | Av1      | 34     |        |            |       |  |  |  |  | 43.2 |
| =                                         |  |  |           | br        |             |             |             |             |                                            | 41A2       | Av2      | 35     |        | X3         | 80    |  |  |  |  | 43.3 |
| heatpump 2 Lobby indoor unit              |  |  | ws        |           |             |             |             |             |                                            | 42A2       | Av1      | 36     |        | 74N1       |       |  |  |  |  | 44.2 |

Terminal layout

Mueller

|                                                     |  |  |  | 4x0,5 qmm | 2x0,5 qmm | 2x2x0,75 qmm | 4x0,5 qmm | Strip<br>X4<br>X4 = terminal strip signals |        |            |          |        |        |            |       |  |  |  |  |  |  | Page |
|-----------------------------------------------------|--|--|--|-----------|-----------|--------------|-----------|--------------------------------------------|--------|------------|----------|--------|--------|------------|-------|--|--|--|--|--|--|------|
|                                                     |  |  |  | LIYC      | LIYC      | LIYC-TP      | LIYC      |                                            | Finish | Connection | Terminal | Jumper | Finish | Connection | Cable |  |  |  |  |  |  |      |
| heatpump 2 Lobby indoor unit                        |  |  |  |           |           |              | br        | Cable                                      | 42A2   | Av2        | 37       |        | 65N1   | 0V         | Cable |  |  |  |  |  |  | 44.3 |
| differential-pressure-sensor supply air kitchen     |  |  |  |           |           |              | ws        |                                            | 70B1   | UB+        | 38       |        |        |            |       |  |  |  |  |  |  | 70.1 |
| =                                                   |  |  |  |           |           |              | br        |                                            | 70B1   | GND        | 39       |        |        |            |       |  |  |  |  |  |  | 70.1 |
| =                                                   |  |  |  |           |           |              | gn        | Cable                                      | 70B1   | AOU1       | 40       |        | 65N1   |            | Cable |  |  |  |  |  |  | 70.1 |
| =                                                   |  |  |  |           |           |              | ge        |                                            | 70B1   | GND        | 41       |        |        |            |       |  |  |  |  |  |  | 70.1 |
| reserve                                             |  |  |  |           |           |              |           |                                            |        |            | 42       |        |        |            |       |  |  |  |  |  |  | 70.2 |
| =                                                   |  |  |  |           |           |              |           |                                            |        |            | 43       |        |        |            |       |  |  |  |  |  |  | 70.2 |
| reserve                                             |  |  |  |           |           |              |           |                                            |        |            | 44       |        | 65N1   |            |       |  |  |  |  |  |  | 70.2 |
| =                                                   |  |  |  |           |           |              |           | Cable                                      |        |            | 45       |        |        |            | Cable |  |  |  |  |  |  | 70.2 |
| reserve                                             |  |  |  |           |           |              |           |                                            |        |            | 46       |        |        |            |       |  |  |  |  |  |  | 70.2 |
| =                                                   |  |  |  |           |           |              |           |                                            |        |            | 47       |        |        |            |       |  |  |  |  |  |  | 70.3 |
| reserve                                             |  |  |  |           |           |              |           |                                            |        |            | 48       |        | 65N1   |            |       |  |  |  |  |  |  | 70.3 |
| =                                                   |  |  |  |           |           |              |           |                                            |        |            | 49       |        |        |            |       |  |  |  |  |  |  | 70.3 |
| outside temperature sensor kitchen                  |  |  |  |           |           |              | ws        | Cable                                      | 70B4   | 1          | 50       |        | 65N1   |            | Cable |  |  |  |  |  |  | 70.4 |
| =                                                   |  |  |  |           |           |              | br        |                                            | 70B4   | 2          | 51       |        |        |            |       |  |  |  |  |  |  | 70.4 |
| supply air temperature sensor behind heater kitchen |  |  |  |           |           |              | ws        |                                            | 70B5   | G          | 52       |        |        |            |       |  |  |  |  |  |  | 70.4 |
| =                                                   |  |  |  |           |           |              | br        |                                            | 70B5   | G0         | 53       |        |        |            |       |  |  |  |  |  |  | 70.5 |
| supply air temperature sensor behind heater kitchen |  |  |  |           |           |              | gn        |                                            | 70B5   | U1         | 54       |        | 65N1   |            |       |  |  |  |  |  |  | 70.5 |

Terminal layout

Mueller

|                                                     |  | 2x2x0,75<br>qmm<br>LIYCY-TP | 2x2x0,75<br>qmm<br>LIYCY-TP | 2x2x0,75<br>qmm<br>LIYCY-TP | 2x0,5 qmm<br>LIYCY | 2x0,5 qmm<br>LIYCY | 2x0,5 qmm<br>LIYCY | 4x0,5 qmm<br>LIYCY |       | Strip<br>X4<br>X4 = terminal strip signals |            |          |        |        |            |       |  |  |      |      | Page |
|-----------------------------------------------------|--|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|-------|--------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|------|------|------|
|                                                     |  | W-74B3                      | W-74B2                      | W-74B1                      | W-70B8             | W-70B7             | W-70B6             | W-70B5             | Cable | Finish                                     | Connection | Terminal | Jumper | Finish | Connection | Cable |  |  |      |      |      |
| supply air temperature sensor behind heater kitchen |  |                             |                             |                             |                    |                    |                    | ge                 |       | 70B5                                       | G0         | 55       |        |        |            |       |  |  | 70.5 |      |      |
| supply air temperature sensor total                 |  |                             |                             |                             |                    |                    | ws                 |                    |       | 70B6                                       | 1          | 56       |        | 65N1   |            |       |  |  |      |      | 70.6 |
| =                                                   |  |                             |                             |                             |                    |                    | br                 |                    |       | 70B6                                       | 2          | 57       |        |        |            |       |  |  |      |      | 70.6 |
| exhaust air temperature sensor kitchen (option)     |  |                             |                             |                             |                    | ws                 |                    |                    |       | 70B7                                       | 1          | 58       |        | 65N1   |            |       |  |  |      | 70.7 |      |
| =                                                   |  |                             |                             |                             |                    | br                 |                    |                    |       | 70B7                                       | 2          | 59       |        |        |            |       |  |  |      |      | 70.7 |
| room temperature sensor kitchen                     |  |                             |                             |                             | ws                 |                    |                    |                    |       | 70B8                                       | 1          | 60       |        | 65N1   |            |       |  |  |      |      | 70.8 |
| =                                                   |  |                             |                             |                             | br                 |                    |                    |                    |       | 70B8                                       | 2          | 61       |        | 65N1   | AIGND      |       |  |  |      | 70.8 |      |
| differential-pressure-sensor supply air Lobby       |  |                             |                             | ws                          |                    |                    |                    |                    |       | 74B1                                       | UB+        | 62       |        |        |            |       |  |  |      |      | 74.1 |
| =                                                   |  |                             |                             | br                          |                    |                    |                    |                    |       | 74B1                                       | GND        | 63       |        |        |            |       |  |  |      |      | 74.1 |
| =                                                   |  |                             |                             | gn                          |                    |                    |                    |                    |       | 74B1                                       | AOU1       | 64       |        | 74N1   |            |       |  |  |      | 74.1 |      |
| =                                                   |  |                             |                             | ge                          |                    |                    |                    |                    |       | 74B1                                       | GND        | 65       |        |        |            |       |  |  |      |      | 74.1 |
| differential-pressure-sensor exhaust air Lobby      |  |                             | ws                          |                             |                    |                    |                    |                    |       | 74B2                                       | UB+        | 66       |        |        |            |       |  |  |      |      | 74.1 |
| =                                                   |  |                             | br                          |                             |                    |                    |                    |                    |       | 74B2                                       | GND        | 67       |        |        |            |       |  |  |      | 74.2 |      |
| =                                                   |  |                             | gn                          |                             |                    |                    |                    |                    |       | 74B2                                       | AOU1       | 68       |        | 74N1   |            |       |  |  |      |      | 74.2 |
| =                                                   |  |                             | ge                          |                             |                    |                    |                    |                    |       | 74B2                                       | GND        | 69       |        |        |            |       |  |  |      |      | 74.2 |
| differential-pressure-sensor heat recovery Lobby    |  |                             | ws                          |                             |                    |                    |                    |                    |       | 74B3                                       | UB+        | 70       |        |        |            |       |  |  |      | 74.2 |      |
| =                                                   |  |                             | br                          |                             |                    |                    |                    |                    |       | 74B3                                       | GND        | 71       |        |        |            |       |  |  |      |      | 74.3 |
| =                                                   |  |                             | gn                          |                             |                    |                    |                    |                    |       | 74B3                                       | AOU1       | 72       |        | 74N1   |            |       |  |  |      |      | 74.3 |

Terminal layout

Mueller

|                                                          |  | 2x0,5 qmm<br>LIYCY | 2x2x0,75 qmm<br>LIYCY-TP | 2x2x0,75 qmm<br>LIYCY-TP | 2x0,5 qmm<br>LIYCY | 2x0,5 qmm<br>LIYCY | 4x0,5 qmm<br>LIYCY | 2x2x0,75 qmm<br>LIYCY-TP |       | Strip<br>X4<br>X4 = terminal strip signals |            |          |        |        |            |       |  |  |  |      | Page |
|----------------------------------------------------------|--|--------------------|--------------------------|--------------------------|--------------------|--------------------|--------------------|--------------------------|-------|--------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|--|------|------|
|                                                          |  | W-76B1             | W-74B8                   | W-74B7                   | W-74B6             | W-74B5             | W-74B4             | W-74B3                   | Cable | Finish                                     | Connection | Terminal | Jumper | Finish | Connection | Cable |  |  |  |      |      |
| differential-pressure-sensor heat recovery Lobby         |  |                    |                          |                          |                    |                    |                    | ge                       |       | 74B3                                       | GND        | 73       |        |        |            |       |  |  |  | 74.3 |      |
| supply air temperature sensor behind heat recovery Lobby |  |                    |                          |                          |                    |                    | ws                 |                          |       | 74B4                                       | G          | 74       |        |        |            |       |  |  |  | 74.3 |      |
| =                                                        |  |                    |                          |                          |                    |                    | br                 |                          |       | 74B4                                       | G0         | 75       |        |        |            |       |  |  |  | 74.4 |      |
| =                                                        |  |                    |                          |                          |                    |                    | gn                 |                          |       | 74B4                                       | U1         | 76       |        | 74N1   |            |       |  |  |  | 74.4 |      |
| =                                                        |  |                    |                          |                          |                    |                    | ge                 |                          |       | 74B4                                       | G0         | 77       |        |        |            |       |  |  |  | 74.4 |      |
| supply air temperature sensor total Lobby                |  |                    |                          |                          |                    | ws                 |                    |                          |       | 74B5                                       | 1          | 78       |        | 74N1   |            |       |  |  |  | 74.5 |      |
| =                                                        |  |                    |                          |                          |                    | br                 |                    |                          |       | 74B5                                       | 2          | 79       |        |        |            |       |  |  |  | 74.5 |      |
| exhaust air temperature sensor Lobby                     |  |                    |                          |                          | ws                 |                    |                    |                          |       | 74B6                                       | 1          | 80       |        | 74N1   |            |       |  |  |  | 74.6 |      |
| =                                                        |  |                    |                          |                          | br                 |                    |                    |                          |       | 74B6                                       | 2          | 81       |        |        |            |       |  |  |  | 74.6 |      |
| differential-pressure-sensor outside-airfilter Lobby     |  |                    |                          | ws                       |                    |                    |                    |                          |       | 74B7                                       | UB+        | 82       |        |        |            |       |  |  |  | 74.6 |      |
| =                                                        |  |                    |                          | br                       |                    |                    |                    |                          |       | 74B7                                       | GND        | 83       |        |        |            |       |  |  |  | 74.6 |      |
| =                                                        |  |                    |                          | gn                       |                    |                    |                    |                          |       | 74B7                                       | AOU1       | 84       |        | 74N1   |            |       |  |  |  | 74.7 |      |
| =                                                        |  |                    |                          | ge                       |                    |                    |                    |                          |       | 74B7                                       | GND        | 85       |        |        |            |       |  |  |  | 74.7 |      |
| differential-pressure-sensor exhaust air filter Lobby    |  | ws                 |                          |                          |                    |                    |                    |                          |       | 74B8                                       | UB+        | 86       |        |        |            |       |  |  |  | 74.7 |      |
| =                                                        |  |                    | br                       |                          |                    |                    |                    |                          |       | 74B8                                       | GND        | 87       |        | 74N1   | -          |       |  |  |  | 74.7 |      |
| =                                                        |  |                    | gn                       |                          |                    |                    |                    |                          |       | 74B8                                       | AOU1       | 88       |        | 74N1   |            |       |  |  |  | 74.8 |      |
| =                                                        |  |                    | ge                       |                          |                    |                    |                    |                          |       | 74B8                                       | GND        | 89       |        | 74N1   | AIGND      |       |  |  |  | 74.8 |      |
| room temperature Lobby                                   |  | ws                 |                          |                          |                    |                    |                    |                          |       | 76B1                                       | 1          | 90       |        | 76N1   |            |       |  |  |  | 76.1 |      |



Terminal layout

Mueller

|                                          |  |  |  |  | LIYCY<br>4x0,5 qmm | LIYCY-TP<br>2x2x0,75 qmm | LIYCY-TP<br>2x2x0,75 qmm | LIYCY<br>2x0,5 qmm |       | Strip<br>X4<br>X4 = terminal strip signals |            |          |        |        |            |       |  |  |      |      | Page |
|------------------------------------------|--|--|--|--|--------------------|--------------------------|--------------------------|--------------------|-------|--------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|------|------|------|
|                                          |  |  |  |  | W-55Y1             | W-76B8                   | W-76B7                   | W-76B6             | Cable | Finish                                     | Connection | Terminal | Jumper | Finish | Connection | Cable |  |  |      |      |      |
| return temperature sensor heater kitchen |  |  |  |  |                    |                          |                          | br                 |       | 76B6                                       | 2          | 109      |        |        |            |       |  |  | 76.6 |      |      |
| air channel pressure supply air Lobby    |  |  |  |  |                    |                          | ws                       |                    |       | 76B7                                       | UB+        | 110      |        |        |            |       |  |  |      |      | 76.6 |
| =                                        |  |  |  |  |                    |                          | br                       |                    |       | 76B7                                       | GND        | 111      |        |        |            |       |  |  |      |      | 76.6 |
| =                                        |  |  |  |  |                    |                          | gn                       |                    |       | 76B7                                       | AOU1       | 112      |        | 76N1   |            |       |  |  |      | 76.7 |      |
| =                                        |  |  |  |  |                    |                          | ge                       |                    |       | 76B7                                       | GND        | 113      |        |        |            |       |  |  |      |      | 76.7 |
| air channel pressure exhaust air Lobby   |  |  |  |  |                    | ws                       |                          |                    |       | 76B8                                       | UB+        | 114      |        | 77N1   | 7          |       |  |  |      |      | 76.7 |
| =                                        |  |  |  |  |                    | br                       |                          |                    |       | 76B8                                       | GND        | 115      |        |        |            |       |  |  |      |      | 76.7 |
| =                                        |  |  |  |  |                    | gn                       |                          |                    |       | 76B8                                       | AOU1       | 116      |        | 76N1   |            |       |  |  |      | 76.8 |      |
| =                                        |  |  |  |  |                    | ge                       |                          |                    |       | 76B8                                       | GND        | 117      |        | 76N1   | AIGND      |       |  |  |      | 76.8 |      |
| heater valve kitchen                     |  |  |  |  | ws                 |                          |                          |                    |       | 77Y1                                       | 24V        | 118      |        | 77N1   | 7          |       |  |  |      |      | 77.1 |
| =                                        |  |  |  |  | br                 |                          |                          |                    |       | 77Y1                                       | 0V         | 119      |        | 77N1   | 8          |       |  |  |      |      | 77.1 |
| =                                        |  |  |  |  | gn                 |                          |                          |                    |       | 77Y1                                       | Y          | 120      |        | 19K1   | 11         |       |  |  |      |      | 77.1 |
| =                                        |  |  |  |  | ge                 |                          |                          |                    |       | 77Y1                                       | U          | 121      |        |        |            |       |  |  |      |      | 77.1 |
|                                          |  |  |  |  |                    |                          |                          |                    |       |                                            |            |          |        |        |            |       |  |  |      |      |      |
|                                          |  |  |  |  |                    |                          |                          |                    |       |                                            |            |          |        |        |            |       |  |  |      |      |      |
|                                          |  |  |  |  |                    |                          |                          |                    |       |                                            |            |          |        |        |            |       |  |  |      |      |      |
|                                          |  |  |  |  |                    |                          |                          |                    |       |                                            |            |          |        |        |            |       |  |  |      |      |      |
|                                          |  |  |  |  |                    |                          |                          |                    |       |                                            |            |          |        |        |            |       |  |  |      |      |      |

Terminal layout

Mueller

|                                 | LIYCY    | 4x0,5 qmm | LIYCY    | 4x0,5 qmm | LIYCY    | 2x0,5 qmm | LIYCY    | 2x0,5 qmm | LIYCY | 4x0,5 qmm | LIYCY      | 4x0,5 qmm | LIYCY                                                                                 | 2x0,5 qmm                                                                           | LIYCY      | 2x0,5 qmm |  | Strip<br>X6<br>X6 = terminal strip bus cable |  |  |  |  |  |  |      |      |  |  |  | Page |  |  |  |
|---------------------------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|-------|-----------|------------|-----------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|-----------|--|----------------------------------------------|--|--|--|--|--|--|------|------|--|--|--|------|--|--|--|
|                                 | W-42A2/2 | W-41A2/2  | W-42A1/2 | W-41A1/2  | W-22A2/2 | W-21A2/2  | W-22A1/2 | W-21A1/2  | Cable | Finish    | Connection | Terminal  | Jumper                                                                                | Finish                                                                              | Connection | Cable     |  |                                              |  |  |  |  |  |  |      |      |  |  |  |      |  |  |  |
|                                 |          |           |          |           |          |           |          |           |       |           |            |           |                                                                                       |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      |      |  |  |  |      |  |  |  |
| heatpump 1 kitchen outdoor unit |          |           |          |           |          |           |          |           | ws    |           | 21A1       | F1        | 1                                                                                     |  |            |           |  |                                              |  |  |  |  |  |  |      | 21.2 |  |  |  |      |  |  |  |
| =                               |          |           |          |           |          |           |          | br        | 21A1  |           | F2         | 2         |    |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 21.3 |  |  |  |      |  |  |  |
| heatpump 2 kitchen outdoor unit |          |           |          |           |          |           |          | ws        | 22A1  |           | F1         | 3         |    |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 22.2 |  |  |  |      |  |  |  |
| =                               |          |           |          |           |          |           |          | br        |       | 22A1      | F2         | 4         |    |                                                                                     |            |           |  |                                              |  |  |  |  |  |  | 22.3 |      |  |  |  |      |  |  |  |
| heatpump 1 kitchen indoor unit  |          |           |          |           |          |           | gn       |           |       | 21A2      | F1         | 5         |    |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 23.1 |  |  |  |      |  |  |  |
| =                               |          |           |          |           |          |           | ge       |           |       | 21A2      | F2         | 6         |   |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 23.1 |  |  |  |      |  |  |  |
| heatpump 2 kitchen indoor unit  |          |           |          |           |          | gn        |          |           |       | 22A2      | F1         | 7         |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 24.1 |  |  |  |      |  |  |  |
| =                               |          |           |          |           |          | ge        |          |           |       | 22A2      | F2         | 8         |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 24.1 |  |  |  |      |  |  |  |
| heatpump 1 Lobby outdoor unit   |          |           |          |           | ws       |           |          |           |       | 41A1      | F1         | 9         |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  | 41.2 |      |  |  |  |      |  |  |  |
| =                               |          |           |          |           | br       |           |          |           |       | 41A1      | F2         | 10        |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 41.3 |  |  |  |      |  |  |  |
| heatpump 2 Lobby outdoor unit   |          |           |          | ws        |          |           |          |           |       | 42A1      | F1         | 11        |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 42.2 |  |  |  |      |  |  |  |
| =                               |          |           |          | br        |          |           |          |           |       | 42A1      | F2         | 12        |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 42.3 |  |  |  |      |  |  |  |
| heatpump 1 Lobby indoor unit    |          |           | gn       |           |          |           |          |           |       | 41A2      | F1         | 13        |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 43.1 |  |  |  |      |  |  |  |
| =                               |          |           | ge       |           |          |           |          |           |       | 41A2      | F2         | 14        |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  | 43.1 |      |  |  |  |      |  |  |  |
| heatpump 2 Lobby indoor unit    |          | gn        |          |           |          |           |          |           |       | 42A2      | F1         | 15        |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 44.1 |  |  |  |      |  |  |  |
| =                               |          | ge        |          |           |          |           |          |           |       | 42A2      | F2         | 16        |  |                                                                                     |            |           |  |                                              |  |  |  |  |  |  |      | 44.1 |  |  |  |      |  |  |  |
| Modbus                          |          |           |          |           |          |           |          |           |       |           |            | 17        | '                                                                                     | 65N1                                                                                | A+         |           |  |                                              |  |  |  |  |  |  | 65.8 |      |  |  |  |      |  |  |  |
| =                               |          |           |          |           |          |           |          |           |       |           |            | 18        | '                                                                                     | 65N1                                                                                | B-         |           |  |                                              |  |  |  |  |  |  | 65.8 |      |  |  |  |      |  |  |  |

Terminal layout

Mueller

|        |  |  |  |  |  |  |  |  |       | Strip<br>X6<br>X6 = terminal strip bus cable |            |          |        |        |            |       |  |  |  |      | Page |
|--------|--|--|--|--|--|--|--|--|-------|----------------------------------------------|------------|----------|--------|--------|------------|-------|--|--|--|------|------|
|        |  |  |  |  |  |  |  |  | Cable | Finish                                       | Connection | Terminal | Jumper | Finish | Connection | Cable |  |  |  |      |      |
| Modbus |  |  |  |  |  |  |  |  |       |                                              |            | 19       | .      | 65N1   | SG         |       |  |  |  | 65.8 |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |
|        |  |  |  |  |  |  |  |  |       |                                              |            |          |        |        |            |       |  |  |  |      |      |





Cable overview

Mueller

| Cable    | Source<br>from | Finish<br>to | Cable                  | Quantity<br>cores | Cross-section | Remark                               |
|----------|----------------|--------------|------------------------|-------------------|---------------|--------------------------------------|
| W-3W1    | X01            | -PA          | NYM-J                  | 1                 | 16 qmm        | equipotential busbar                 |
| W-9A1    | X3             | 9A1          | J-Y(ST)-Y              | 4x2x              | 0,8 qmm       | Fire emergency shutdown              |
| W-11M1/1 | X1             | 11Q1         | OELFLEX 110 4G1,5      | 4                 | 1,5 qmm       | supply air fan kitchen               |
| W-11M1/2 | X3             | 11M1         | OELFLEX 110 4X1        | 4                 | 1 qmm         | =                                    |
| W-11M1/3 | X4             | 11M1         | LIYCY                  | 2                 | 0,5 qmm       | =                                    |
| W-11Q1   | X3             | 11Q1         | OELFLEX 110 2X1        | 2                 | 1 qmm         | repair-switch supply air fan kitchen |
| W-13M1/1 | X1             | 13Q1         | OELFLEX 110 4G1,5      | 4                 | 1,5 qmm       | exhaust fan kitchen                  |
| W-13M1/2 | X3             | 13M1         | OELFLEX 110 4X1        | 4                 | 1 qmm         | =                                    |
| W-13M1/3 | X4             | 13M1         | LIYCY                  | 3                 | 0,5 qmm       | =                                    |
| W-13Q1   | X3             | 13Q1         | OELFLEX 110 2X1        | 2                 | 1 qmm         | repair-switch exhaust fan kitchen    |
| W-14M1   | X1             | 14Q1         | NYM-J                  | 5                 | 1,5 qmm       | exhaust fan dishes                   |
| W-14Q1   | X3             | 14Q1         | OELFLEX 110 2X1        | 2                 | 1 qmm         | repair-switch exhaust fan dishes     |
| W-16Y1   | X3             | 16Y1         | OELFLEX 110 3X1        | 3                 | 1 qmm         | outside air damper kitchen           |
| W-16Y2   | X3             | 16Y2         | OELFLEX 110 3X1        | 3                 | 1 qmm         | exhaust air flap kitchen             |
| W-16Y3   | X3             | 16Y3         | OELFLEX 110 3X1        | 3                 | 1 qmm         | exhaust air flap dishes              |
| W-19B1   | X3             | 19B1         | OELFLEX 110 4X1        | 4                 | 1 qmm         | antifreeze thermostat                |
| W-20M1   | X1             | 20M1         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | heating pump                         |
| W-21A1/1 | X1             | 21A1         | ÖLFLEX CLASSIC 110 4G4 | 4                 | 4 mm²         | heatpump 1 kitchen outdoor unit      |
| W-21A1/2 | X6             | 21A1         | LIYCY                  | 2                 | 0,5 qmm       | =                                    |
| W-21A2/1 | X1             | 21A2         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | heatpump 1 kitchen indoor unit       |
| W-21A2/2 | X4             | 21A2         | LIYCY                  | 4                 | 0,5 qmm       | =                                    |
| W-21A2/3 | X3             | 21A2         | OELFLEX 110 10X1       | 10                | 1 qmm         | =                                    |
| W-21A2/4 | X2             | 21A2         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | =                                    |

1. the quality and the requirements for the cable must be requested from the client or the construction site supervision. (e.g. halogen-free, etc.)

Cable overview

Mueller

| Cable    | Source<br>from | Finish<br>to | Cable                  | Quantity<br>cores | Cross-section | Remark                                    |
|----------|----------------|--------------|------------------------|-------------------|---------------|-------------------------------------------|
| W-22A1/1 | X1             | 22A1         | ÖLFLEX CLASSIC 110 4G4 | 4                 | 4 mm²         | heatpump 2 kitchen outdoor unit           |
| W-22A1/2 | X6             | 22A1         | LIYCY                  | 2                 | 0,5 qmm       | =                                         |
| W-22A2/1 | X1             | 22A2         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | heatpump 2 kitchen indoor unit            |
| W-22A2/2 | X4             | 22A2         | LIYCY                  | 4                 | 0,5 qmm       | =                                         |
| W-22A2/3 | X3             | 22A2         | OELFLEX 110 10X1       | 10                | 1 qmm         | =                                         |
| W-22A2/4 | X2             | 22A2         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | =                                         |
| W-31M1/1 | X1             | 31Q1         | OELFLEX 110 4G1,5      | 4                 | 1,5 qmm       | supply air fan Lobby                      |
| W-31M1/2 | X3             | 31M1         | OELFLEX 110 4X1        | 4                 | 1 qmm         | =                                         |
| W-31M1/3 | X4             | 31M1         | LIYCY                  | 2                 | 0,5 qmm       | =                                         |
| W-31Q1   | X3             | 31Q1         | OELFLEX 110 2X1        | 2                 | 1 qmm         | repair-switch supply air fan Lobby        |
| W-33M1/1 | X1             | 33Q1         | OELFLEX 110 4G1,5      | 4                 | 1,5 qmm       | exhaust fan Lobby                         |
| W-33M1/2 | X3             | 33M1         | OELFLEX 110 4X1        | 4                 | 1 qmm         | =                                         |
| W-33M1/3 | X4             | 33M1         | LIYCY                  | 2                 | 0,5 qmm       | =                                         |
| W-33Q1   | X3             | 33Q1         | OELFLEX 110 2X1        | 2                 | 1 qmm         | repair-switch exhaust fan Lobby           |
| W-36Y1   | X3             | 36Y1         | OELFLEX 110 3X1        | 3                 | 1 qmm         | outside air damper Lobby                  |
| W-36Y2   | X3             | 36Y2         | OELFLEX 110 3X1        | 3                 | 1 qmm         | exhaust air flap Lobby                    |
| W-36Y3   | X4             | 36Y3         | LIYCY                  | 4                 | 0,5 qmm       | actuator plate heat exchanger Lobby       |
| W-37Y1   | X4             | 37Y1         | J-Y(ST)-Y              | 4x2x              | 0,8 qmm       | volume flow regulator 1 supply air Lobby  |
| W-37Y2   | X4             | 37Y2         | J-Y(ST)-Y              | 4x2x              | 0,8 qmm       | volume flow regulator 1 exhaust air Lobby |
| W-37Y3   | X4             | 37Y3         | J-Y(ST)-Y              | 4x2x              | 0,8 qmm       | volume flow regulator 2 supply air Lobby  |
| W-37Y4   | X4             | 37Y4         | J-Y(ST)-Y              | 4x2x              | 0,8 qmm       | volume flow regulator 2 exhaust air Lobby |
| W-38A1   | X3             | 38A1         | OELFLEX 110 4X1        | 4                 | 1 qmm         | gas detector kitchen                      |
| W-38A2   | X3             | 38A2         | OELFLEX 110 4X1        | 4                 | 1 qmm         | gas detector Lobby                        |

1. the quality and the requirements for the cable must be requested from the client or the construction site supervision. (e.g. halogen-free, etc.)

Cable overview

Mueller

| Cable    | Source<br>from | Finish<br>to | Cable                  | Quantity<br>cores | Cross-section | Remark                                              |
|----------|----------------|--------------|------------------------|-------------------|---------------|-----------------------------------------------------|
| W-41A1/1 | X1             | 41A1         | ÖLFLEX CLASSIC 110 4G4 | 4                 | 4 mm²         | heatpump 1 Lobby outdoor unit                       |
| W-41A1/2 | X6             | 41A1         | LIYCY                  | 2                 | 0,5 qmm       | =                                                   |
| W-41A2/1 | X1             | 41A2         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | heatpump 1 Lobby indoor unit                        |
| W-41A2/2 | X4             | 41A2         | LIYCY                  | 4                 | 0,5 qmm       | =                                                   |
| W-41A2/3 | X3             | 41A2         | OELFLEX 110 10X1       | 10                | 1 qmm         | =                                                   |
| W-41A2/4 | X2             | 41A2         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | =                                                   |
| W-42A1/1 | X1             | 42A1         | ÖLFLEX CLASSIC 110 4G4 | 4                 | 4 mm²         | heatpump 2 Lobby outdoor unit                       |
| W-42A1/2 | X6             | 42A1         | LIYCY                  | 2                 | 0,5 qmm       | =                                                   |
| W-42A2/1 | X1             | 42A2         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | heatpump 2 Lobby indoor unit                        |
| W-42A2/2 | X4             | 42A2         | LIYCY                  | 4                 | 0,5 qmm       | =                                                   |
| W-42A2/3 | X3             | 42A2         | OELFLEX 110 10X1       | 10                | 1 qmm         | =                                                   |
| W-42A2/4 | X2             | 42A2         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | =                                                   |
| W-51A1   | X7             | 51A1         | OELFLEX 110 3G1,5      | 3                 | 1,5 qmm       | release kitchen ware                                |
| W-55Y1   | X4             | 77Y1         | LIYCY                  | 4                 | 0,5 qmm       | heater valve kitchen                                |
| W-65A1   | X3             | 65A1         | J-Y(ST)-Y              | 4x2x              | 0,8 qmm       | operating panel                                     |
| W-70B1   | X4             | 70B1         | LIYCY-TP               | 2x2x              | 0,75 qmm      | differential-pressure-sensor supply air kitchen     |
| W-70B4   | X4             | 70B4         | LIYCY                  | 2                 | 0,5 qmm       | outside temperature sensor kitchen                  |
| W-70B5   | X4             | 70B5         | LIYCY                  | 4                 | 0,5 qmm       | supply air temperature sensor behind heater kitchen |
| W-70B6   | X4             | 70B6         | LIYCY                  | 2                 | 0,5 qmm       | supply air temperature sensor total                 |
| W-70B7   | X4             | 70B7         | LIYCY                  | 2                 | 0,5 qmm       | exhaust air temperature sensor kitchen (option)     |
| W-70B8   | X4             | 70B8         | LIYCY                  | 2                 | 0,5 qmm       | room temperature sensor kitchen                     |
| W-74B1   | X4             | 74B1         | LIYCY-TP               | 2x2x              | 0,75 qmm      | differential-pressure-sensor supply air Lobby       |
| W-74B2   | X4             | 74B2         | LIYCY-TP               | 2x2x              | 0,75 qmm      | differential-pressure-sensor exhaust air Lobby      |

1. the quality and the requirements for the cable must be requested from the client or the construction site supervision. (e.g. halogen-free, etc.)



Bill of material

Mueller

| Component designation | Wiring diagram position | Qty. | Manufacturer's designation         | Manufacturer's type No. | Manufacturer    | Pos |
|-----------------------|-------------------------|------|------------------------------------|-------------------------|-----------------|-----|
| X1                    |                         | 4    | Installation level terminal block  | PTI 2,5-L/L             | Phoenix Contact |     |
| X1                    |                         | 2    | Installation ground terminal block | PTI 2,5-PE/L/L          | Phoenix Contact |     |
| X1                    |                         | 6    | Three-tier terminal L / N / PE     | PTI 2,5-PE/L/NT         | Phoenix Contact |     |
| X1                    |                         | 4    | Installation terminal block        | PTI 16/S                | Phoenix Contact |     |
| X1                    |                         | 4    | N disconnect terminal block        | PTN 16/S                | Phoenix Contact |     |
| X1                    |                         | 4    | Installation ground terminal block | PTI 16/S-PE             | Phoenix Contact |     |
| X1                    |                         | 1    | Installation terminal block        | PTI 2,5                 | Phoenix Contact |     |
| X1                    |                         | 1    | Installation terminal block        | PTI 2,5 BU              | Phoenix Contact |     |
| X1                    |                         | 1    | Installation ground terminal block | PTI 2,5-PE              | Phoenix Contact |     |
| X01                   |                         | 1    | High-current terminal block        | UKH 50 BU               | Phoenix Contact |     |
| X01                   |                         | 2    | PE - Terminal 50 qmm               | USLKG 50                | Phoenix Contact |     |
| X01                   |                         | 1    | Ground modular terminal block      | USLKG 16                | Phoenix Contact |     |
| X2                    |                         | 4    | Installation terminal block        | PTI 2,5                 | Phoenix Contact |     |
| X2                    |                         | 4    | Installation terminal block        | PTI 2,5 BU              | Phoenix Contact |     |
| X2                    |                         | 4    | Installation ground terminal block | PTI 2,5-PE              | Phoenix Contact |     |
| X3                    |                         | 110  | Installation terminal block        | PTI 2,5                 | Phoenix Contact |     |
| X4                    |                         | 61   | Two-tier terminal 2,5 qmm          | PTTBS 2,5               | Phoenix Contact |     |
| X6                    |                         | 10   | Two-tier terminal 2,5 qmm          | PTTBS 2,5               | Phoenix Contact |     |
| XL                    |                         | 1    | Installation terminal block        | PTI 2,5                 | Phoenix Contact |     |

Bill of material

Mueller

| Component designation | Wiring diagram position | Qty. | Manufacturer´s designation                      | Manufacturer´s type No. | Manufacturer               | Pos |
|-----------------------|-------------------------|------|-------------------------------------------------|-------------------------|----------------------------|-----|
| XL                    |                         | 1    | Installation terminal block                     | PTI 2,5 BU              | Phoenix Contact            |     |
| XR                    |                         | 3    | Installation terminal block                     | PTI 2,5                 | Phoenix Contact            |     |
| 3B1                   | 3.8                     | 1    | cabinet temperature sensor cooling              | 7T.81.0.000.2303        | Finder Relais              |     |
| 3F1                   | 3.3                     | 1    | FI / LS - Switch 30 mA - B10                    | 5SU1 356-6KK10          | Siemens                    |     |
| 3Q1                   | 3.0                     | 1    | main switch 100 A 3 pole                        | PN1-100                 | Eaton Electric Gmbh        |     |
| 3Q1                   | 3.0                     | 1    | turning handle red - yellow for NZMN 1          | NZM1-XTVDVR             | Eaton Electric Gmbh        |     |
| 3Q1                   | 3.0                     | 1    | finger protection for NZM 1                     | NZM1-XIPK               | Eaton Electric Gmbh        |     |
| 3Q1                   | 3.0                     | 1    | cover screw                                     | NZM1-XKSA               | Eaton Electric Gmbh        |     |
| 3S1                   | 3.4                     | 1    | Selector switch, 1N/O, 2 positions, front mount | M22-WRK+K10             | Eaton Electric Gmbh        |     |
| 3X1                   | 3.4                     | 1    | plug socket 230V / 10 A grey                    | 7U.00.8.230.0010        | Finder Relais              |     |
| 3X2                   | 3.5                     | 1    | plug socket 230V / 10 A grey                    | 7U.00.8.230.0010        | Finder Relais              |     |
| Schrank               | 3.4                     | 1    | subplate / door                                 | MONTAGEPLATTE           | Rox Klimatechnik           |     |
| Schrank               | 3.4                     | 1    | operating panel 250 x 180 mm                    | Schaltpanel             | Mueller Schaltanlagen GmbH |     |
| Schrank               | 3.4                     | 5    | Feed-through terminal                           | PT 2,5-QUATTRO          | Phoenix Contact            |     |
| Schrank               | 3.4                     | 9    | Feed-through terminal                           | PT 2,5-QUATTRO BU       | Phoenix Contact            |     |
| Schrank               | 3.4                     | 1    | Installation ground terminal block              | PTI 16/S-PE             | Phoenix Contact            |     |
| 4F1                   | 4.3                     | 1    | Automatic circuit breaker B - 6A 1 pole 10 KA   | FAZ-B6/1                | Eaton Electric Gmbh        |     |
| 4F2                   | 4.4                     | 1    | Automatic circuit breaker B - 6A 1 pole 10 KA   | FAZ-B6/1                | Eaton Electric Gmbh        |     |
| 4F3                   | 4.4                     | 1    | Automatic circuit breaker B - 6A 1 pole 10 KA   | FAZ-B6/1                | Eaton Electric Gmbh        |     |

Bill of material

Mueller

| Component designation | Wiring diagram position | Qty. | Manufacturer´s designation                         | Manufacturer´s type No.  | Manufacturer          | Pos |
|-----------------------|-------------------------|------|----------------------------------------------------|--------------------------|-----------------------|-----|
| 4H1                   | 4.5                     | 1    | Indicator light white 230V                         | M22-L-W+M22-A+LED230-W   | Eaton Electric Gmbh   |     |
| 4H2                   | 4.6                     | 1    | Indicator light white 230V                         | M22-L-W+M22-A+LED230-W   | Eaton Electric Gmbh   |     |
| 4H3                   | 4.7                     | 1    | Indicator light white 230V                         | M22-L-W+M22-A+LED230-W   | Eaton Electric Gmbh   |     |
| 4K1                   | 4.3                     | 1    | Phase monitoring, 2 changeover contacts            | PFD2-E12                 | BTR Metz Connect GMBH |     |
| 5F1                   | 5.2                     | 1    | Automatic circuit breaker B - 6A 1 pole 10 KA      | FAZ-B6/1                 | Eaton Electric Gmbh   |     |
| 5F2                   | 5.3                     | 1    | Automatic circuit breaker C - 4A 1 pole 10 kA      | FAZ-C4/1                 | Eaton Electric Gmbh   |     |
| 5F3                   | 5.4                     | 1    | Automatic circuit breaker C - 4A 1 pole 10 kA      | FAZ-C4/1                 | Eaton Electric Gmbh   |     |
| 5G1                   | 5.2                     | 1    | power adapter 230V AC / 24V DC - 10A               | NDR-240-24               | MeanWell              |     |
| 7K1                   | 7.1                     | 1    | timing relays 230V AC 4 changeover contact         | 85.04.8.240.0000 + 94.P4 | Finder Relais         |     |
| 7K2                   | 7.2                     | 1    | Relay 4 changeover contact 230 V AC                | 55.34.8.230.0040 + 94.P4 | Finder Relais         |     |
| 7S1                   | 7.1                     | 1    | push button black with 1 Ö                         | M22-D-S+K01              | Eaton Electric Gmbh   |     |
| 9K1                   | 9.4                     | 1    | Relay 4 changeover contact 24 V DC                 | 55.34.9.024.0090 + 94.P4 | Finder Relais         |     |
| 9K2                   | 9.6                     | 1    | Relay 4 changeover contact 24 V DC                 | 55.34.9.024.0090 + 94.P4 | Finder Relais         |     |
| 9K3                   | 9.8                     | 1    | Relay 4 changeover contact 24 V DC                 | 55.34.9.024.0090 + 94.P4 | Finder Relais         |     |
| 11F1                  | 11.1                    | 1    | Automatic circuit breaker B - 10A 3 pole 10 kA     | FAZ-B10/3                | Eaton Electric Gmbh   |     |
| 13F1                  | 13.1                    | 1    | Automatic circuit breaker B - 10A 3 pole 10 kA     | FAZ-B10/3                | Eaton Electric Gmbh   |     |
| 14F1                  | 14.2                    | 1    | Automatic circuit breaker B - 6A 1 pole 10 KA      | FAZ-B6/1                 | Eaton Electric Gmbh   |     |
| 14F1                  | 14.2                    | 1    | Auxiliary contact, for FAZ, PKNM, 1N/O+1N/C, 0.5HP | FAZ-XHIN11               | Eaton Electric Gmbh   |     |
| 14K1                  | 14.4                    | 1    | contactor 4kW 24V DC 1S                            | DIL M9-10 (24VDC)-PI     | Eaton Electric Gmbh   | 43  |

Bill of material

Mueller

| Component designation | Wiring diagram position | Qty. | Manufacturer´s designation                         | Manufacturer´s type No.  | Manufacturer        | Pos |
|-----------------------|-------------------------|------|----------------------------------------------------|--------------------------|---------------------|-----|
| 19K1                  | 19.4                    | 1    | Relay 4 changeover contact 24 V DC                 | 55.34.9.024.0090 + 94.P4 | Finder Relais       |     |
| 19K2                  | 19.5                    | 1    | Relay 4 changeover contact 24 V DC                 | 55.34.9.024.0090 + 94.P4 | Finder Relais       |     |
| 20F1                  | 20.1                    | 1    | Automatic circuit breaker B - 6A 1 pole 10 KA      | FAZ-B6/1                 | Eaton Electric Gmbh |     |
| 20F1                  | 20.1                    | 1    | Auxiliary contact, for FAZ, PKNM, 1N/O+1N/C, 0.5HP | FAZ-XHIN11               | Eaton Electric Gmbh |     |
| 21F1                  | 21.1                    | 1    | Automatic circuit breaker C - 32A 1 pole 10 kA     | FAZ-C32/1                | Eaton Electric Gmbh |     |
| 21F2                  | 21.4                    | 1    | Automatic circuit breaker B - 10A 1 pole 10 kA     | FAZ-B10/1                | Eaton Electric Gmbh |     |
| 22F1                  | 22.1                    | 1    | Automatic circuit breaker C - 32A 1 pole 10 kA     | FAZ-C32/1                | Eaton Electric Gmbh |     |
| 22F2                  | 22.4                    | 1    | Automatic circuit breaker B - 10A 1 pole 10 kA     | FAZ-B10/1                | Eaton Electric Gmbh |     |
| 23K1                  | 23.8                    | 1    | Relay 4 changeover contact 230 V AC                | 55.34.8.230.0040 + 94.P4 | Finder Relais       |     |
| 23R1                  | 23.7                    | 1    | subplate with 16 solder points                     | MP 16                    | Murr Elektronik     |     |
| 24K1                  | 24.8                    | 1    | Relay 4 changeover contact 230 V AC                | 55.34.8.230.0040 + 94.P4 | Finder Relais       |     |
| 31F1                  | 31.1                    | 1    | Automatic circuit breaker B - 10A 3 pole 10 kA     | FAZ-B10/3                | Eaton Electric Gmbh |     |
| 33F1                  | 33.1                    | 1    | Automatic circuit breaker B - 10A 3 pole 10 kA     | FAZ-B10/3                | Eaton Electric Gmbh |     |
| 41F1                  | 41.1                    | 1    | Automatic circuit breaker C - 32A 1 pole 10 kA     | FAZ-C32/1                | Eaton Electric Gmbh |     |
| 41F2                  | 41.4                    | 1    | Automatic circuit breaker B - 10A 1 pole 10 kA     | FAZ-B10/1                | Eaton Electric Gmbh |     |
| 42F1                  | 42.1                    | 1    | Automatic circuit breaker C - 32A 1 pole 10 kA     | FAZ-C32/1                | Eaton Electric Gmbh |     |
| 42F2                  | 42.4                    | 1    | Automatic circuit breaker B - 10A 1 pole 10 kA     | FAZ-B10/1                | Eaton Electric Gmbh |     |
| 43K1                  | 43.8                    | 1    | Relay 4 changeover contact 230 V AC                | 55.34.8.230.0040 + 94.P4 | Finder Relais       |     |
| 44K1                  | 44.8                    | 1    | Relay 4 changeover contact 230 V AC                | 55.34.8.230.0040 + 94.P4 | Finder Relais       |     |

Bill of material

Mueller

| Component designation | Wiring diagram position | Qty. | Manufacturer´s designation                                       | Manufacturer´s type No.  | Manufacturer        | Pos |
|-----------------------|-------------------------|------|------------------------------------------------------------------|--------------------------|---------------------|-----|
| 65F1                  | 65.1                    | 1    | Fuse modular terminal block                                      | USIG + ST-SI             | Phoenix Contact     |     |
| 65N1                  | 65.0                    | 1    | High Power Controller                                            | DEOS - 600/5 open EMS    | DEOS AG             |     |
| 65N2                  | 65.7                    | 1    | power supply module 24V and Bus                                  | PKM                      | DEOS AG             |     |
| 65U1                  | 65.6                    | 1    | IXrouter3 Ethernet                                               | IX2400                   | IXON                |     |
| 66S1                  | 66.1                    | 1    | Selector switch, 1N/O, 2 positions, front mount                  | M22-WRK+K10              | Eaton Electric Gmbh |     |
| 67H1                  | 67.1                    | 1    | indicator light green 24V                                        | M22-L-G+M22-A+LED-W      | Eaton Electric Gmbh |     |
| 67H2                  | 67.1                    | 1    | indicator light red 24V                                          | M22-L-R+M22-A+LED-W      | Eaton Electric Gmbh |     |
| 67H3                  | 67.2                    | 1    | indicator light yellow 24V                                       | M22-L-Y+M22-A+LED-W      | Eaton Electric Gmbh |     |
| 67K1                  | 67.4                    | 1    | Coupling relay 24V DC 1W with led                                | 38.51.7.024.0050         | Finder Relais       |     |
| 67K2                  | 67.5                    | 1    | Coupling relay 24V DC 1W with led                                | 38.51.7.024.0050         | Finder Relais       |     |
| 67K3                  | 67.6                    | 1    | Coupling relay 24V DC 1W with led                                | 38.51.7.024.0050         | Finder Relais       |     |
| 67K4                  | 67.6                    | 1    | Coupling relay 24V DC 1W with led                                | 38.51.7.024.0050         | Finder Relais       |     |
| 67K5                  | 67.7                    | 1    | Relay 2 changeover contact 24 V DC                               | 46.52.9.024.0074 + 97.P2 | Finder Relais       |     |
| 67K6                  | 67.9                    | 1    | Relay 4 changeover contact 24 V DC                               | 55.34.9.024.0090 + 94.P4 | Finder Relais       |     |
| 67S1                  | 67.7                    | 1    | Selector switch, toggle, 3 positions, black, maintained          | M22-WRK3+K10+K10         | Eaton Electric Gmbh |     |
| 67S1                  | 67.7                    | 1    | Contact element, 1N/O, front mount, 6. contact, screw connection | M22-K10                  | Eaton Electric Gmbh |     |
| 68K1                  | 68.1                    | 1    | Coupling relay 24V DC 1W with led                                | 38.51.7.024.0050         | Finder Relais       |     |
| 68K2                  | 68.2                    | 1    | Relay 4 changeover contact 24 V DC                               | 55.34.9.024.0090 + 94.P4 | Finder Relais       |     |
| 68K3                  | 68.3                    | 1    | Coupling relay 24V DC 1W with led                                | 38.51.7.024.0050         | Finder Relais       |     |

Bill of material

Mueller

| Component designation | Wiring diagram position | Qty. | Manufacturer´s designation                | Manufacturer´s type No.  | Manufacturer    | Pos |
|-----------------------|-------------------------|------|-------------------------------------------|--------------------------|-----------------|-----|
| 68K4                  | 68.4                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 68K5                  | 68.5                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 68K6                  | 68.6                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 68K7                  | 68.6                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 71N1                  | 71.0                    | 1    | digital input module 16 x DI              | DS-C-DI 16               | DEOS AG         |     |
| 74N1                  | 74.0                    | 1    | analog in / output module 8 x AI / 4 x AO | DS-C-AI8AO4              | DEOS AG         |     |
| 76N1                  | 76.0                    | 1    | analog in / output module 8 x AI / 4 x AO | DS-C-AI8AO4              | DEOS AG         |     |
| 77N1                  | 77.2                    | 1    | signal transmitter                        | MV-REF 10V               | RINCK           |     |
| 78K1                  | 78.1                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 78K2                  | 78.2                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 78K3                  | 78.3                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 78K4                  | 78.4                    | 1    | Relay 4 changeover contact 24 V DC        | 55.34.9.024.0090 + 94.P4 | Finder Relais   |     |
| 78K5                  | 78.5                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 78K6                  | 78.6                    | 1    | Relay 4 changeover contact 24 V DC        | 55.34.9.024.0090 + 94.P4 | Finder Relais   |     |
| 78K7                  | 78.7                    | 1    | Coupling relay 24V DC 1W with led         | 38.51.7.024.0050         | Finder Relais   |     |
| 78K8                  | 78.8                    | 1    | Relay 4 changeover contact 24 V DC        | 55.34.9.024.0090 + 94.P4 | Finder Relais   |     |
| 78N1                  | 78.0                    | 1    | digital output module 8 x DO              | DS-C-DO8T                | DEOS AG         |     |
| 79N1                  | 79.0                    | 1    | analog in / output module 8 x AI / 4 x AO | DS-C-AI8AO4              | DEOS AG         |     |
| 79R1                  | 79.1                    | 1    | Disconnect Terminal with resistance 0,5 W | P-CO                     | Phoenix Contact |     |



Summarized parts list

Mueller

| supplier              | Order number | designation                                                      | Type number            | Quantity | unit price | total price |
|-----------------------|--------------|------------------------------------------------------------------|------------------------|----------|------------|-------------|
| BTR Metz Connect GMBH |              |                                                                  |                        |          |            |             |
|                       | 110292032215 | Phase monitoring, 2 changeover contacts                          | PFD2-E12               | 1        |            |             |
| DEOS AG               |              |                                                                  |                        |          |            |             |
|                       |              | High Power Controller                                            | DEOS - 600/5 open EMS  | 1        |            |             |
|                       |              | power supply module 24V and Bus                                  | PKM                    | 1        |            |             |
|                       |              | digital input module 16 x DI                                     | DS-C-DI 16             | 1        |            |             |
|                       |              | analog in / output module 8 x AI / 4 x AO                        | DS-C-AI8AO4            | 3        |            |             |
|                       |              | digital output module 8 x DO                                     | DS-C-DO8T              | 1        |            |             |
| Eaton Electric Gmbh   |              |                                                                  |                        |          |            |             |
|                       | 278529       | Automatic circuit breaker B - 6A 1 pole 10 KA                    | FAZ-B6/1               | 6        |            |             |
|                       | 278553       | Automatic circuit breaker C - 4A 1 pole 10 kA                    | FAZ-C4/1               | 2        |            |             |
|                       | 278843       | Sicherungsautomat B - 10A 3 polig 10 kA                          | FAZ-B10/3              | 4        |            |             |
|                       | 286054       | Auxiliary contact, for FAZ, PKNM, 1N/O+1N/C, 0.5HP               | FAZ-XHIN11             | 2        |            |             |
|                       | 278564       | Sicherungsautomat C - 32A 1 polig 10 kA                          | FAZ-C32/1              | 4        |            |             |
|                       | 278531       | Automatic circuit breaker B - 10A 1 pole 10 kA                   | FAZ-B10/1              | 4        |            |             |
|                       |              | xxxxxxxxxxxxxxxxxx                                               | M22-L-W+M22-A+LED230-W | 3        |            |             |
|                       |              | indicator light green 24V                                        | M22-L-G+M22-A+LED-W    | 1        |            |             |
|                       |              | indicator light red 24V                                          | M22-L-R+M22-A+LED-W    | 1        |            |             |
|                       |              | indicator light yellow 24V                                       | M22-L-Y+M22-A+LED-W    | 1        |            |             |
|                       | 199233       | Schuetz 4 KW 24V DC 1S                                           | DIL M9-10 (24VDC)-PI   | 1        |            |             |
|                       | 259141       | Hauptschalter 100 A 3 polig                                      | PN1-100                | 1        |            |             |
|                       |              | turning handle red - yellow for NZMN 1                           | NZM1-XTVDVR            | 1        |            |             |
|                       |              | finger protection for NZM 1                                      | NZM1-XIPK              | 1        |            |             |
|                       |              | cover screw                                                      | NZM1-XKSA              | 1        |            |             |
|                       | 216518       | Selector switch, 1N/O, 2 positions, front mount                  | M22-WRK+K10            | 2        |            |             |
|                       |              | push button black with 1 Ö                                       | M22-D-S+K01            | 1        |            |             |
|                       | 216872       | Selector switch, toggle, 3 positions, black, maintained          | M22-WRK3+K10+K10       | 1        |            |             |
|                       | 216376       | Contact element, 1N/O, front mount, 6. contact, screw connection | M22-K10                | 1        |            |             |

Summarized parts list

Mueller

| supplier                   | Order number     | designation                                                                                         | Type number              | Quantity | unit price | total price |
|----------------------------|------------------|-----------------------------------------------------------------------------------------------------|--------------------------|----------|------------|-------------|
| Finder Relais              |                  |                                                                                                     |                          |          |            |             |
|                            | 7T.81.0.000.2303 | cabinet temperature sensor cooling                                                                  | 7T.81.0.000.2303         | 1        |            |             |
|                            | 85.04.8.240.0000 | Miniature Plug-in timer, Multi-function (AI, DI, GI, SW) - 4 pole, 7 A - AC (50/60Hz) - 230...240 V | 85.04.8.240.0000 + 94.P4 | 1        |            |             |
|                            | 55.34.8.230.0040 | Miniaturrelais 4 Wechsler 230 V AC                                                                  | 55.34.8.230.0040 + 94.P4 | 5        |            |             |
|                            | 55.34.9.024.0090 | Relay 4 changeover contact 24 V DC                                                                  | 55.34.9.024.0090 + 94.P4 | 10       |            |             |
|                            | 38.51.7.024.0050 | Koppelrelais 24V DC 1W mit LED                                                                      | 38.51.7.024.0050         | 15       |            |             |
|                            | 46.52.9.024.0074 | Miniaturrelais 2 Wechsler 24 V DC                                                                   | 46.52.9.024.0074 + 97.P2 | 1        |            |             |
|                            | 7U.00.8.230.0010 | plug socket 230V / 10 A grey                                                                        | 7U.00.8.230.0010         | 2        |            |             |
|                            |                  |                                                                                                     |                          |          |            |             |
|                            | IX2400           | IXrouter3 Ethernet                                                                                  | IX2400                   | 1        |            |             |
| MeanWell                   |                  |                                                                                                     |                          |          |            |             |
|                            | NDR-240-24       | power adapter 230V AC / 24V DC - 10A                                                                | NDR-240-24               | 1        |            |             |
| Mueller Schaltanlagen GmbH |                  |                                                                                                     |                          |          |            |             |
|                            |                  | operating panel 250 x 180 mm                                                                        | Schaltpanel              | 1        |            |             |
| Murr Elektronik            |                  |                                                                                                     |                          |          |            |             |
|                            |                  | subplate with 16 solder points                                                                      | MP 16                    | 1        |            |             |
| Phoenix Contact            |                  |                                                                                                     |                          |          |            |             |
|                            | 0920083          | Fuse modular terminal block                                                                         | USIG + ST-SI             | 1        |            |             |
|                            |                  | Disconnect Terminal with resistance 0,5 W                                                           | P-CO                     | 3        |            |             |
|                            | 3210185          | Disconnect and test disconnect rail-mount terminal block                                            | PT 2,5-TG                | 3        |            |             |
|                            | 3209578          | Feed-through terminal                                                                               | PT 2,5-QUATTRO           | 5        |            |             |
|                            | 3209581          | Feed-through terminal                                                                               | PT 2,5-QUATTRO BU        | 9        |            |             |
|                            | 3214024          | Installation ground terminal block                                                                  | PTI 16/S-PE              | 5        |            |             |
|                            | 3213953          | Installation level terminal block                                                                   | PTI 2,5-L/L              | 4        |            |             |
|                            | 3213949          | Installation ground terminal block                                                                  | PTI 2,5-PE/L/L           | 2        |            |             |
|                            | 32 13 946        | Three-tier terminal L / N / PE                                                                      | PTI 2,5-PE/L/NT          | 6        |            |             |
|                            | 3214029          | Installation terminal block                                                                         | PTI 16/S                 | 4        |            |             |
|                            | 3214025          | N disconnect terminal block                                                                         | PTN 16/S                 | 4        |            |             |

Summarized parts list

Mueller

| supplier         | Order number  | designation                        | Type number    | Quantity | unit price | total price |
|------------------|---------------|------------------------------------|----------------|----------|------------|-------------|
| Phoenix Contact  |               |                                    |                |          |            |             |
|                  | 3213968       | Installation terminal block        | PTI 2,5        | 119      |            |             |
|                  | 3213969       | Installation terminal block        | PTI 2,5 BU     | 6        |            |             |
|                  | 3213962       | Installation ground terminal block | PTI 2,5-PE     | 5        |            |             |
|                  | 3009105       | High-current terminal block        | UKH 50 BU      | 1        |            |             |
|                  | 0443049       | xxxxxxxxxxxxxxxxxx                 | USLKG 50       | 2        |            |             |
|                  | 0443010       | Ground modular terminal block      | USLKG 16       | 1        |            |             |
|                  | 3209604       | Two-tier terminal 2,5 qmm          | PTTBS 2,5      | 71       |            |             |
| RINCK            |               |                                    |                |          |            |             |
|                  |               | signal transmitter                 | MV-REF 10V     | 1        |            |             |
| Rox Klimatechnik |               |                                    |                |          |            |             |
|                  |               | subplate / door                    | MONTAGEPLATTE  | 1        |            |             |
| Siemens          |               |                                    |                |          |            |             |
|                  | 5SU1356-6KK10 | FI / LS - Switch 30 mA - B10       | 5SU1 356-6KK10 | 1        |            |             |

