GB

CX3030-CX3040 Diagramme de câblage

Système de règulation EXcon

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CX3030 & CX3040

0400102

230VAC - Pressure deicing
CX3030: 1400 m³/h
CX3040: 2000 m³/h

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 1
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 0
Drawing number: 0400102	Revision: D	Page Title: Project information	Replaces: Rev. C	Scale: 1:1	Next page: 2
			EC no.:	Format:	Pages in total: 43

aldes	Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 3	
		Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 2	
Drawing number: 0400102	Revision: D	Page Title: Table of Contents	Replaces: Rev. C	Scale: 1:1	Next page: 4
			EC no.:	Format:	Pages in total: 43

Identification of wires by colour

400/230VAC Main current:

Phase:	Black
Neutral:	Blue
Earth:	Green/Yellow

230/24VAC Pilot current:

Phase:	Red
Neutral:	Blue
Earth:	Green/Yellow

24VDC Pilot current:

Positive (+):	Red
Negative (-):	White

Signals:

Temperature:	White
Dry contact:	White
Analog:	White
Digital:	White

Unknown potential:

All:	Orange

Abbreviations of colours (according to IEC 60757)

Black	BK
Brown	BN
Red	RD
Orange	OG
Yellow	YE
Green	GN
Blue	BU
Light Blue	BU
Violet	VT
Gray	GY
White	WH
Pink	PK
Gold	GD
Turquoise	TQ
Silver	SR
Green/Yellow	GNYE

Other standards

Labelling of cables and cores (according to IEC 62491): Method CR

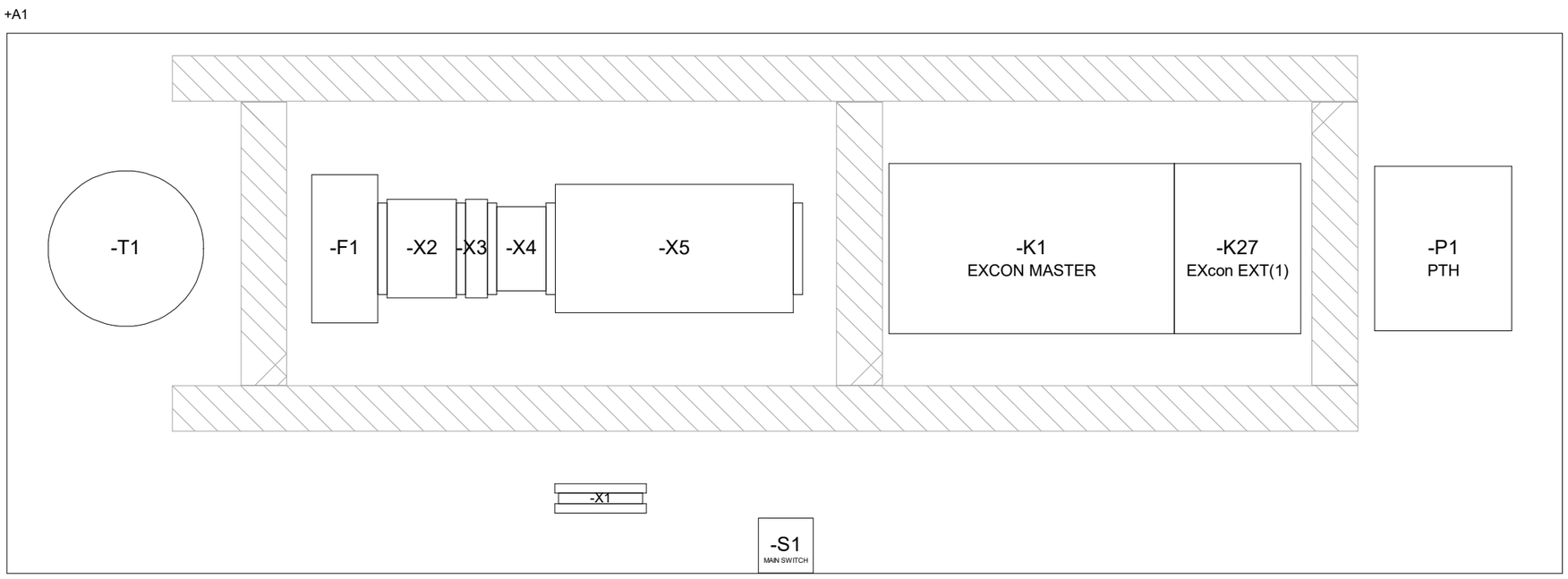
Method	Description
0	No labelling
A	Use of designated cables or cores
R	Identification labelling by means of reference designation (including cable number)
CL	Local-end connection labelling
CR	**Remote-end connection labelling**
CB	Both-end connection labelling
S	Signal labelling

Component	Function	Position
+A1	Control system panel	/10.5
+A2	CX-unit	/10.1
+A3	Coil-box	/10.2
+A4	Customer accessory	/10.2
-BG1	PIR sensor	/37.5
-BQ1	CO2 sensor	/37.6
-BQ2	Air quality sensor	/38.9
-E1	Electrical post-heater	/23.4
-E2	Electrical pre-heater	/25.4
-E3	Combi-coil	/35.4
-F1	Fuse for Main supply	/12.3
-F2	Fuse for EXcon Master	/13.3
-F3	Fuse for external connections	/13.3
-F4	Fuse for Supply fan	/12.5
-F5	Fuse for Exhaust fan	/12.7
-K1	EXcon Master	/14.2
-K27	Extension modul (1)	/15.2
-K30	Extension modul (2)	/16.2
-M1	Supply fan	/12.5
-M2	Exhaust fan	/12.7
-M3	Bypass motor	/14.8
-M4	Circulation pump HCW	/22.0
-M5	Circulation pump CCW	/24.1
-M6	Circulation pump Combi-coil	/35.0
-P1	PTH: Measures pressure over the heat exchanger	/17.2
-P2	DUAL PTH: Supply airflow and extract filter pressure	/17.4
-P3	DUAL PTH: Extract airflow and outdoorfilter pressure	/17.7
-P4	PTH 4000: Constant pressure regulation supply air	/38.5
-P5	PTH 4000: Constant pressure regulation extract air	/38.7

Component	Function	Position
-PH1	HMI standard	/38.1
-PH2	HMI option	/38.7
-S1	Main switch	/12.1
-T1	Power supply 230VAC/2x24VDC	/13.3
-TE1.1	Extract air temperature	/17.5
-TE1.2	Exhaust air temperature	/17.8
-TE2.1	Outdoor air temperature	/17.8
-TE2.1-PRE	Outdoor air temperature	/25.7
-TE2.2	Supply air temperature	/21.7
-TE-OT	Outdoor temperature	/38.3
-TE-RPT	Clamp-on temp. sensor RPT HCW	/22.6
-TE-RPT-CC	Clamp-on temp. sensor RPT Combi-Co	/35.6
-TE-RT	Room temperature	/38.5
-TE-SPT	Clamp-on temp. sensor SPT CCW	/24.7
-W1	Main power supply cable	/12.1
-X1	Terminals for Main supply	/12.1
-X1_EXT(2)	Terminals for Coil-box	/16.2
-X2	Terminals for fans	/12.5
-X3	Terminal for fuses 24V	/13.3
-X4	Terminals for Circulation pumps	/13.8
-X5	Terminals for External customer connections	/15.4
-X_BP	Plug bypass motor	/14.8
-X_FAN EX	Plug Exhaust fan	/12.7
-X_FAN SU	Plug Supply fan	/12.5
-X_RJ12.1	Modbus T-split	/14.8
-X_RJ12.2	Modbus T-split	/17.3
-X_RJ12.3	Modbus T-split	/38.2
-Y1	Valve HCW	/22.2
-Y2	Valve CCW	/24.2

Component	Function	Position
-Y3	Valve Combi-coil	/35.2

+A1



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			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 7
Drawing number: 0400102	Revision: D	Page Title: E-box lay-out	Replaces:	Rev. C	Scale:	1:3	Next page: 11
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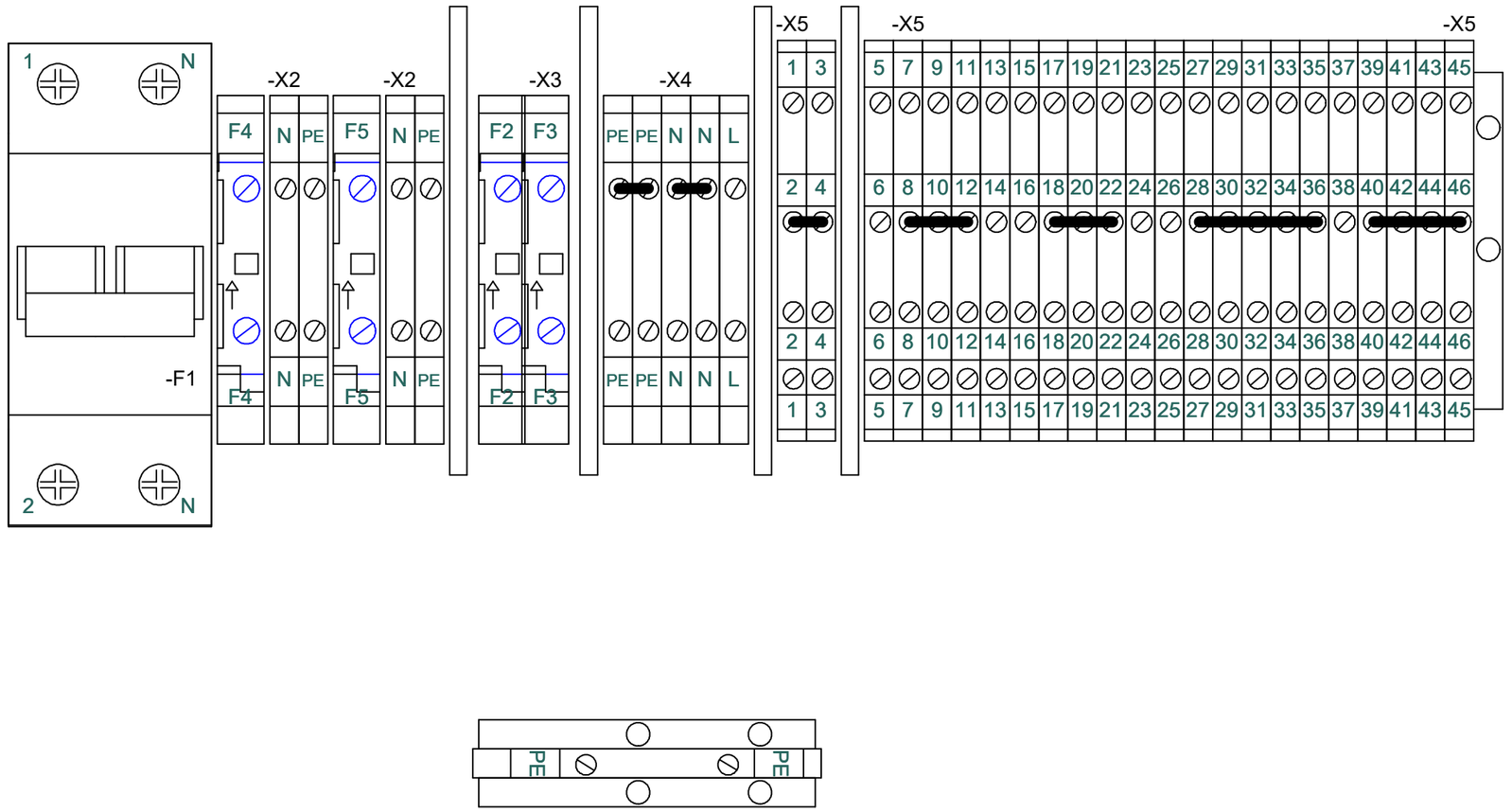

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			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 10
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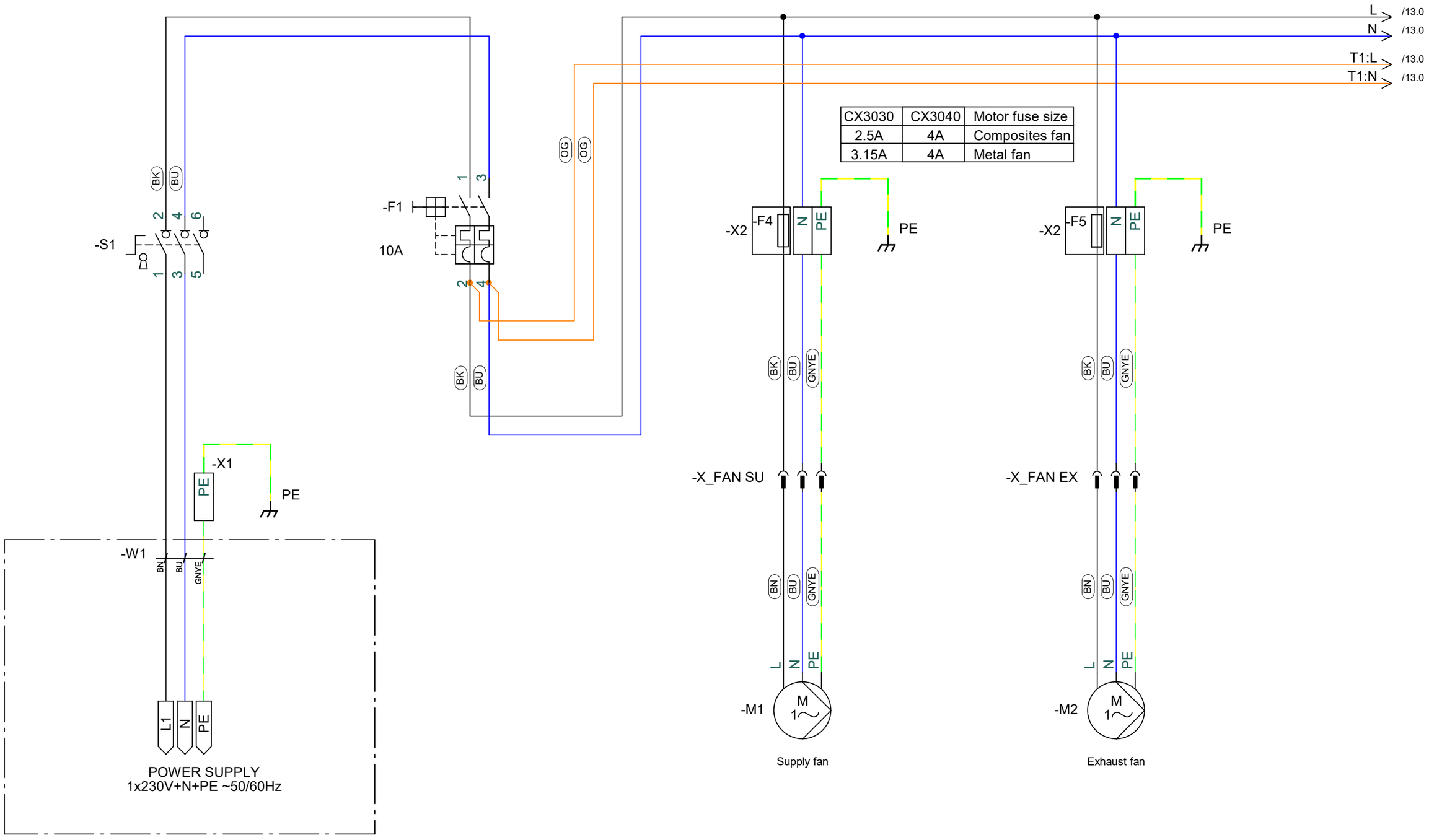

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			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 11	
Drawing number: 0400102	Revision: D	Page Title: Main power	Replaces: Rev. C	Scale: 1:1	Next page: 13	
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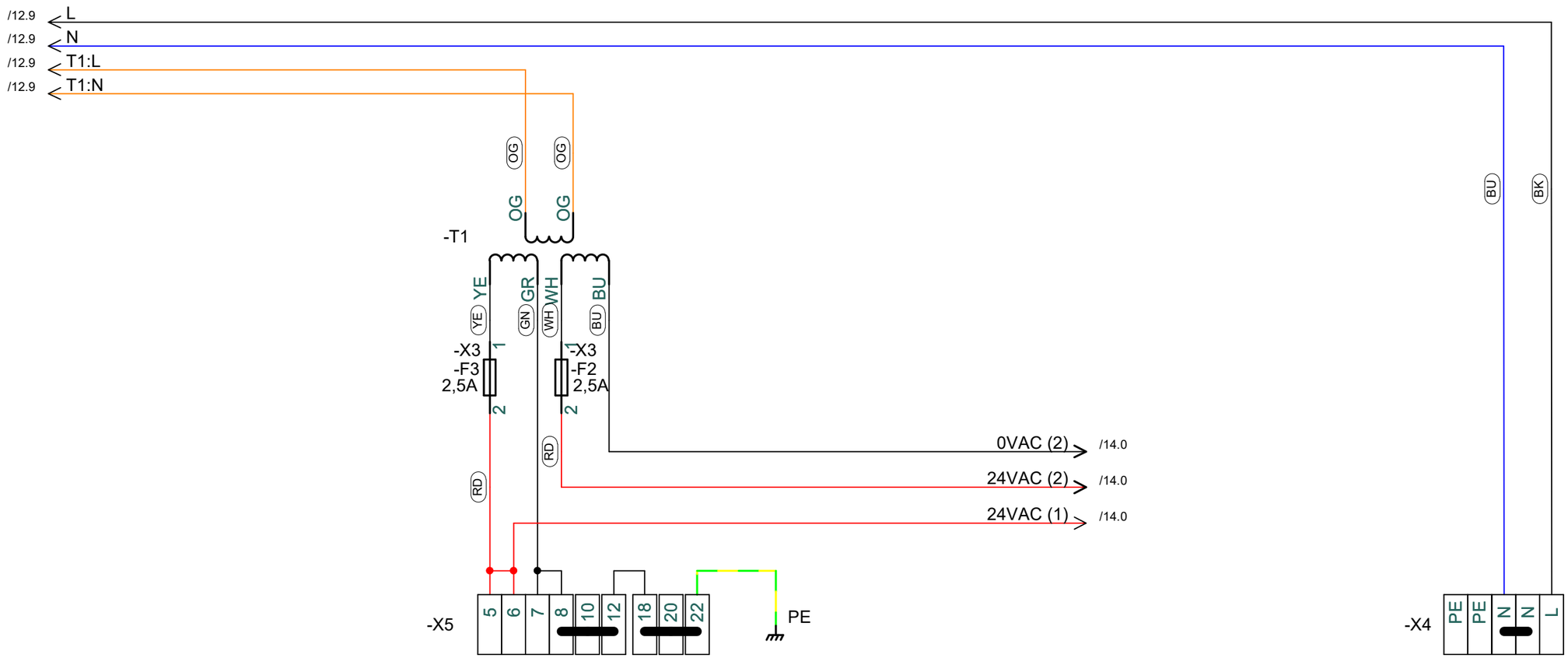

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			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 12
Drawing number: 0400102	Revision: D	Page Title: Main power	Replaces:	Rev. C	Scale:	1:1	Next page: 14
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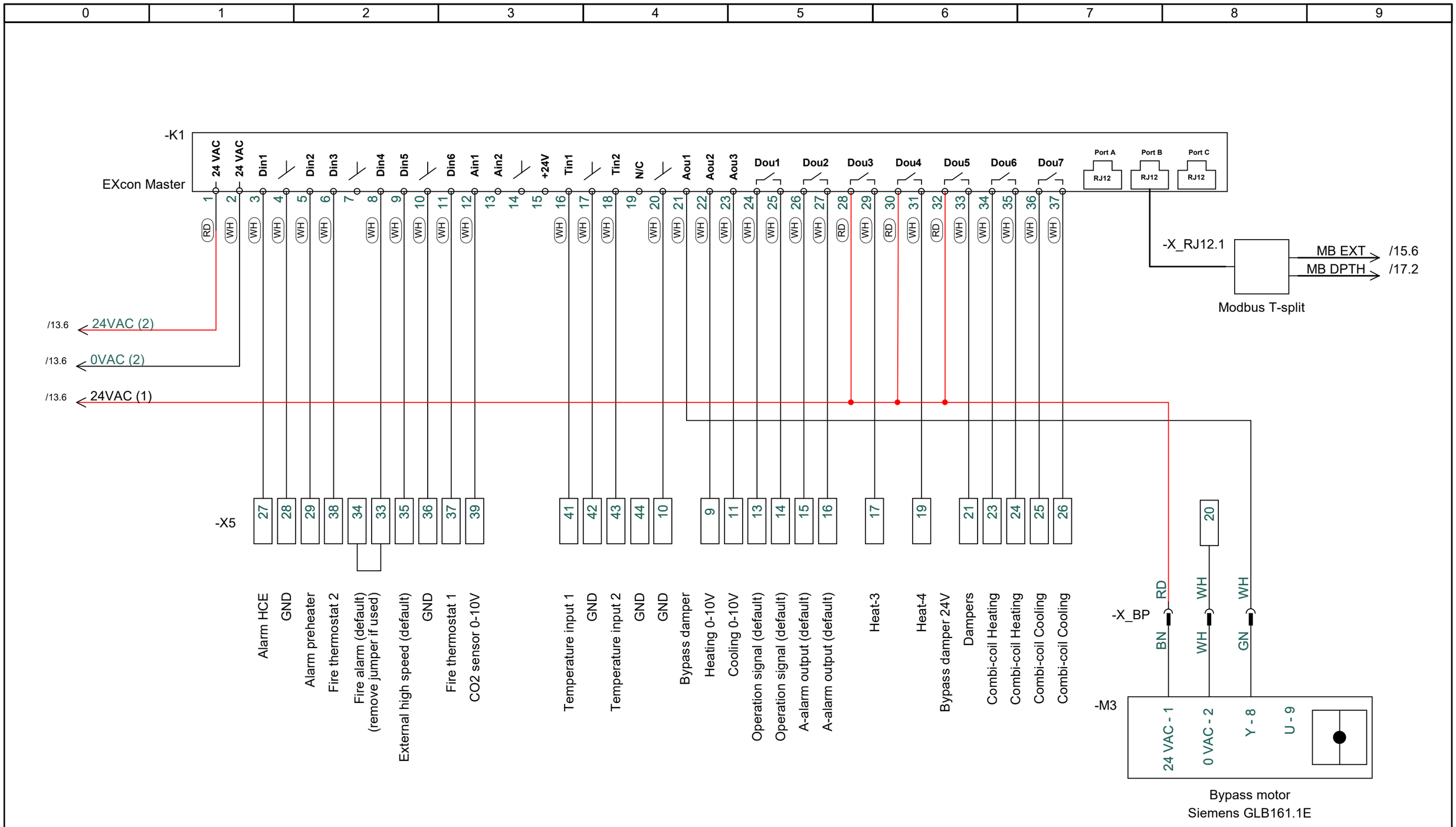

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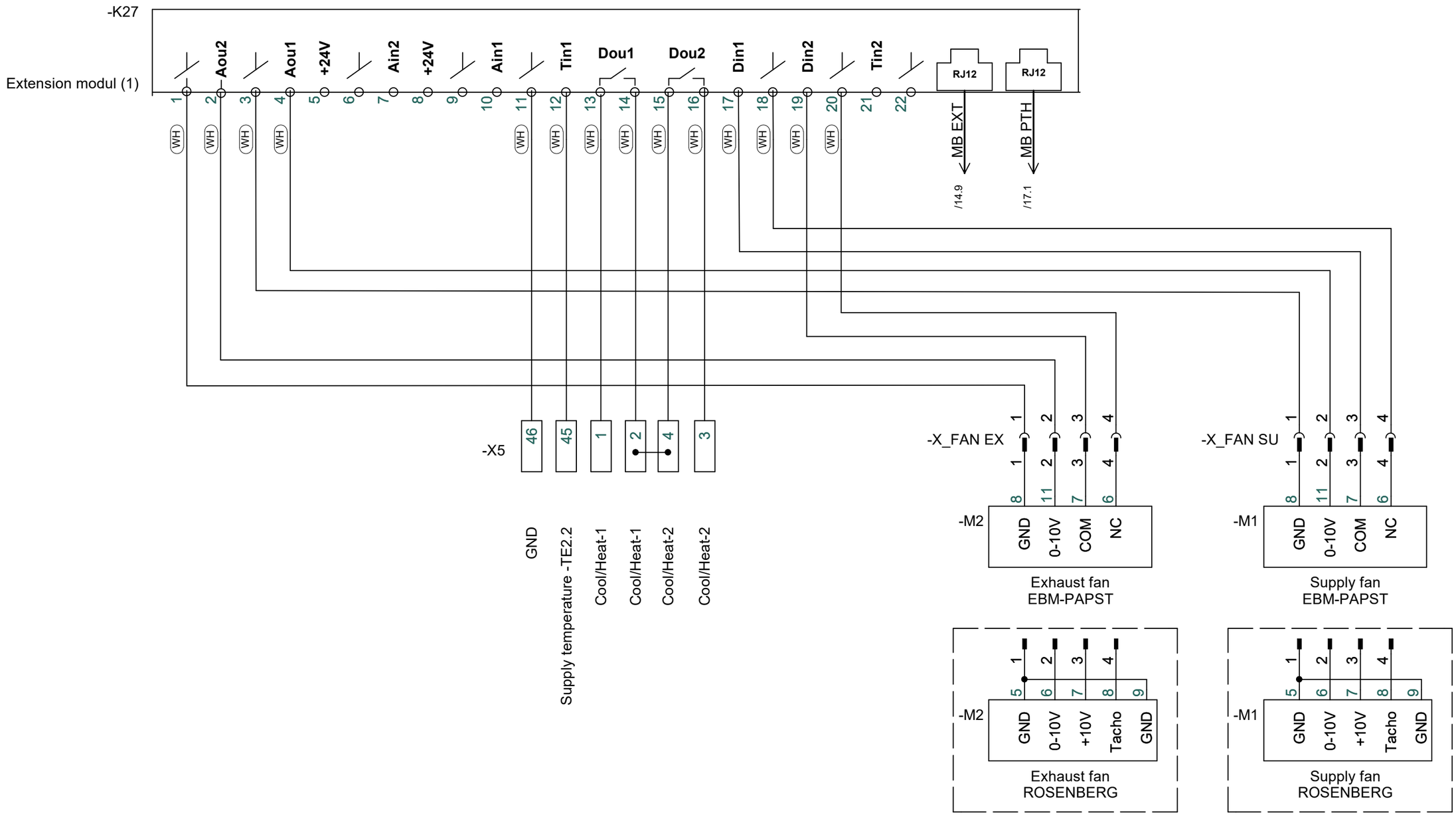
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 13
Drawing number: 0400102	Revision: D	Page Title: Terminal wiring EXcon Master	Replaces: Rev. C	Scale: 1:1	Next page: 15
			EC no.:	Format:	Pages in total: 43



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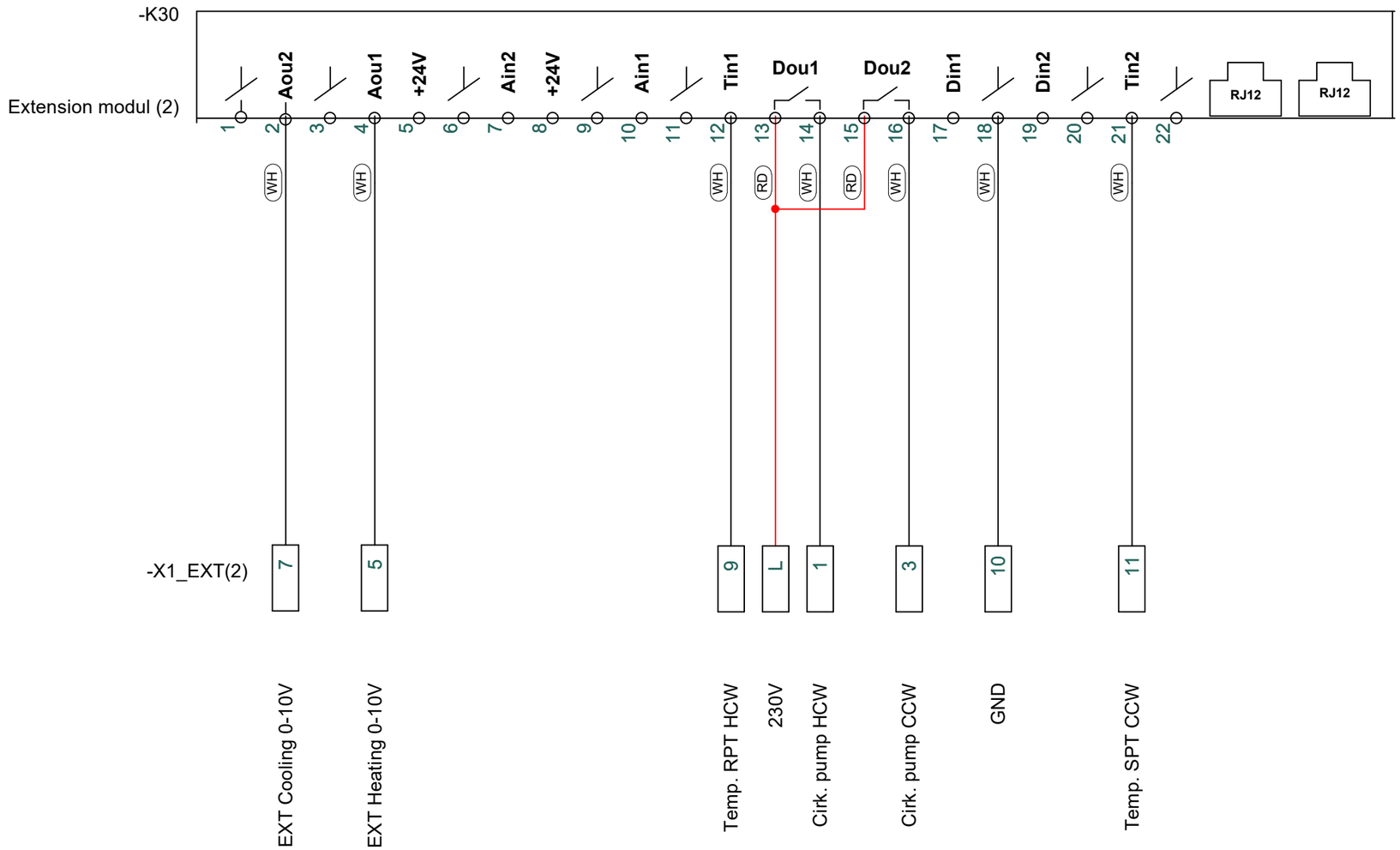
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 14
Drawing number: 0400102	Revision: D	Page Title: Terminal wiring EXT module (1)	Replaces: Rev. C	Scale: 1:1	Next page: 16
			EC no.:	Format:	Pages in total: 43

0	1	2	3	4	5	6	7	8	9

COIL-BOX EXT(2)
Accesory mounted externally



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			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 15
Drawing number: 0400102	Revision: D	Page Title: Terminal wiring EXT module (2)	Replaces:	Rev. C	Scale:	1:1	Next page: 17
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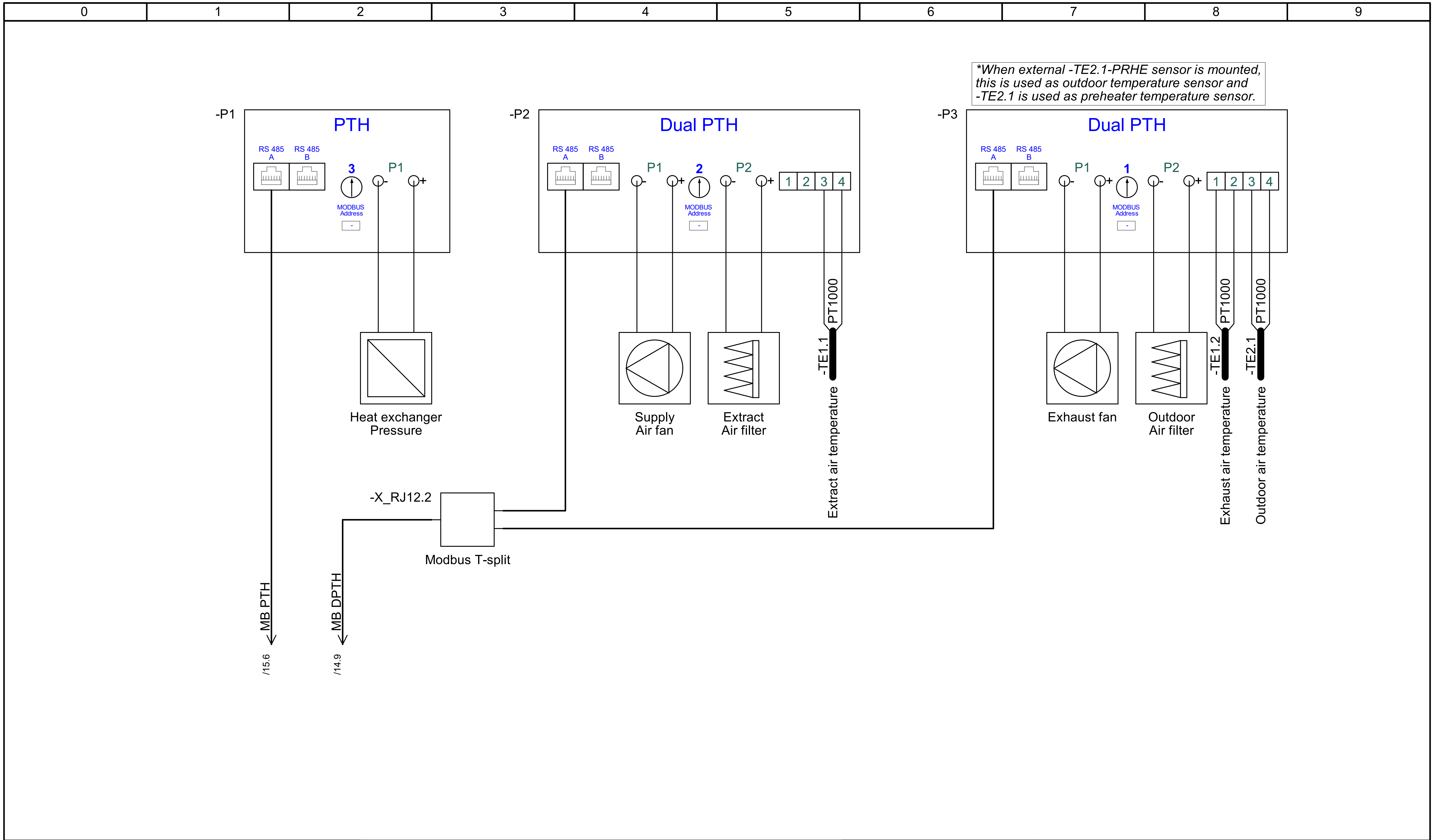

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		Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 16
Drawing number: 0400102 / Revision: D	Page Title: PTH connections	Replaces: Rev. C	Scale: 1:1	Next page: 20
		EC no.:	Format:	Pages in total: 43

Configurations

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 20	
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 17	
Drawing number: 0400102	Revision: D	Page Title: Configurations	Replaces: Rev. C	Scale: 1:1	Next page: 21	
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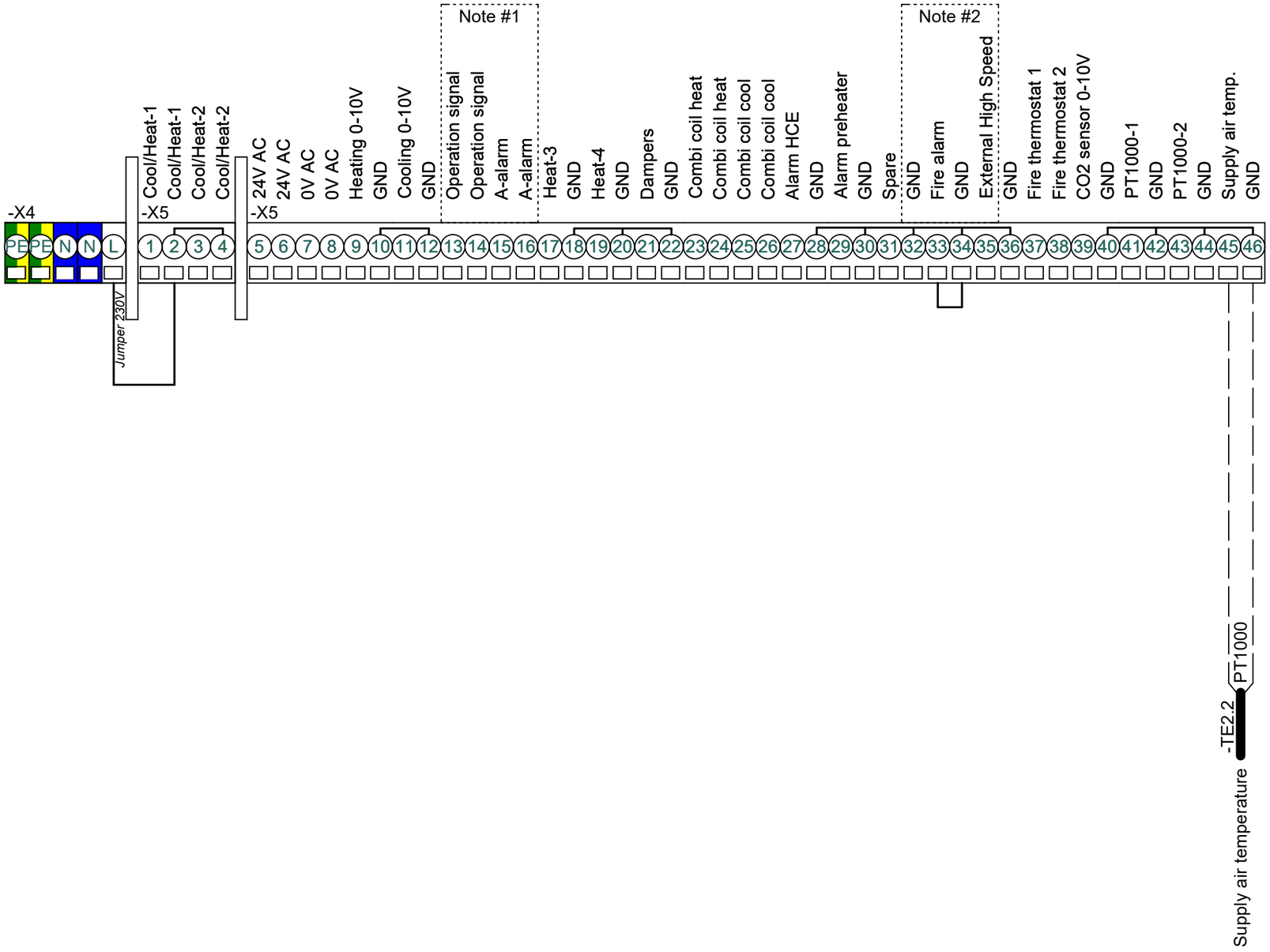
Configuration 1: No Coils



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

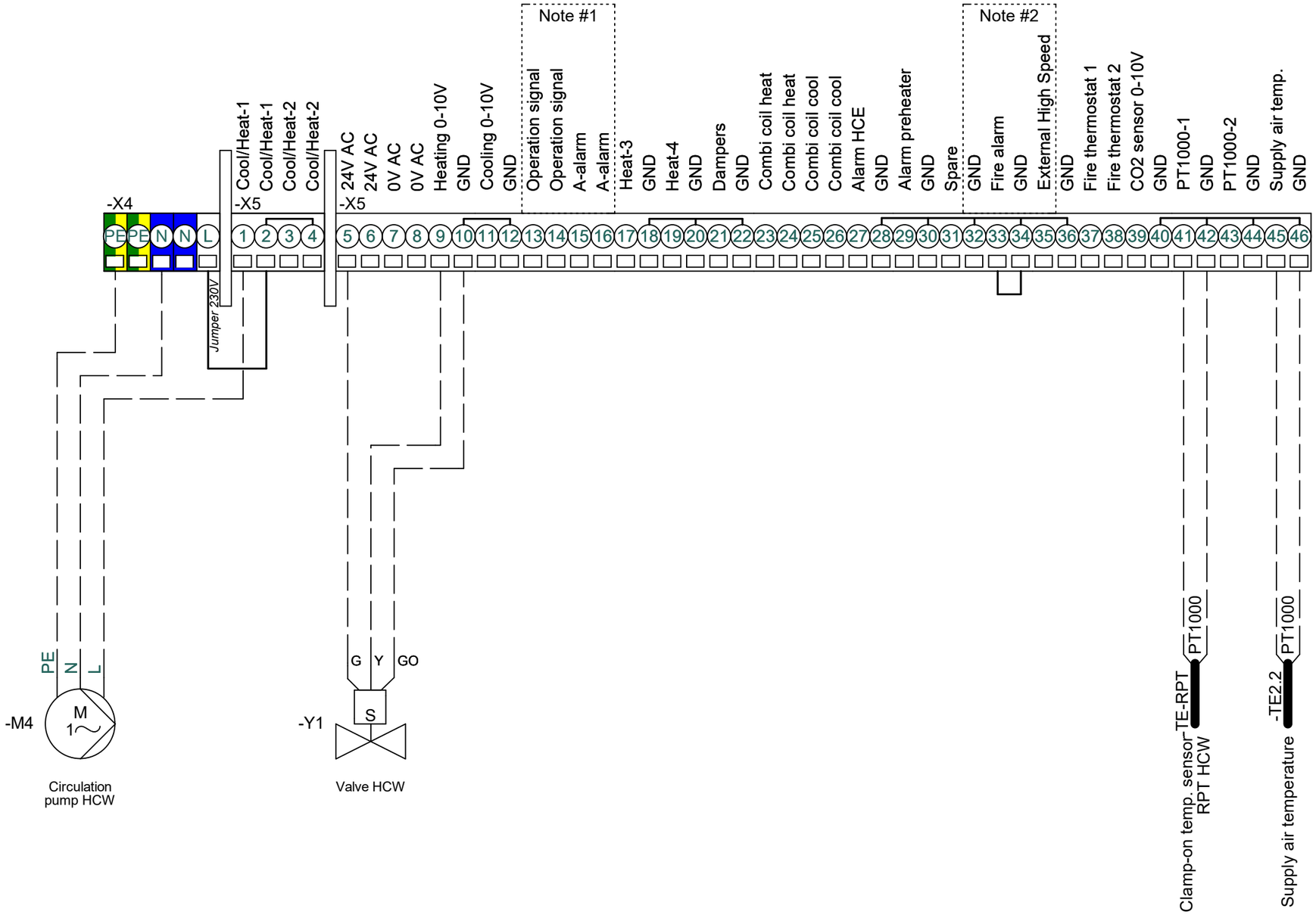
Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 21
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 20
Drawing number: 0400102	Revision: D	Page Title: Configuration 1: No coils	Replaces: Rev. C	Scale: 1:1	Next page: 22
			EC no.:	Format:	Pages in total: 43

Configuration 2: Water Heating Coil



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

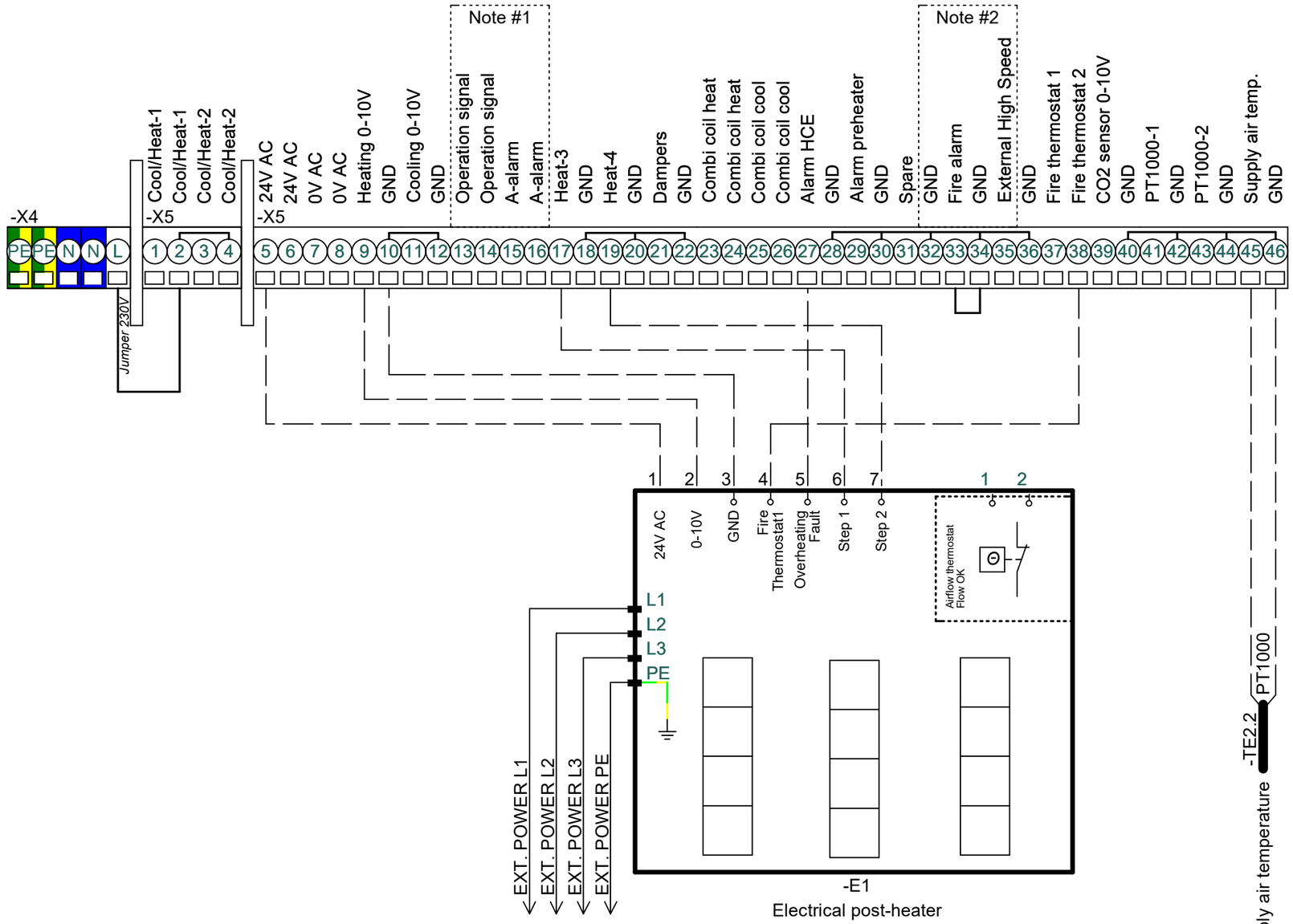
Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page:	22
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page:	21
Drawing number: 0400102	Revision: D	Page Title: Configuration 2: HCW	Replaces: Rev. C	Scale: 1:1	Next page:	23
			EC no.:	Format:	Pages in total:	43

Configuration 3: Electric Heating Coil



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Heater Step 2 are only used in the high performance heaters*

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 23
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 22
Drawing number: 0400102	Revision: D	Page Title: Configuration 3: HCE	Replaces: Rev. C	Scale: 1:1	Next page: 24
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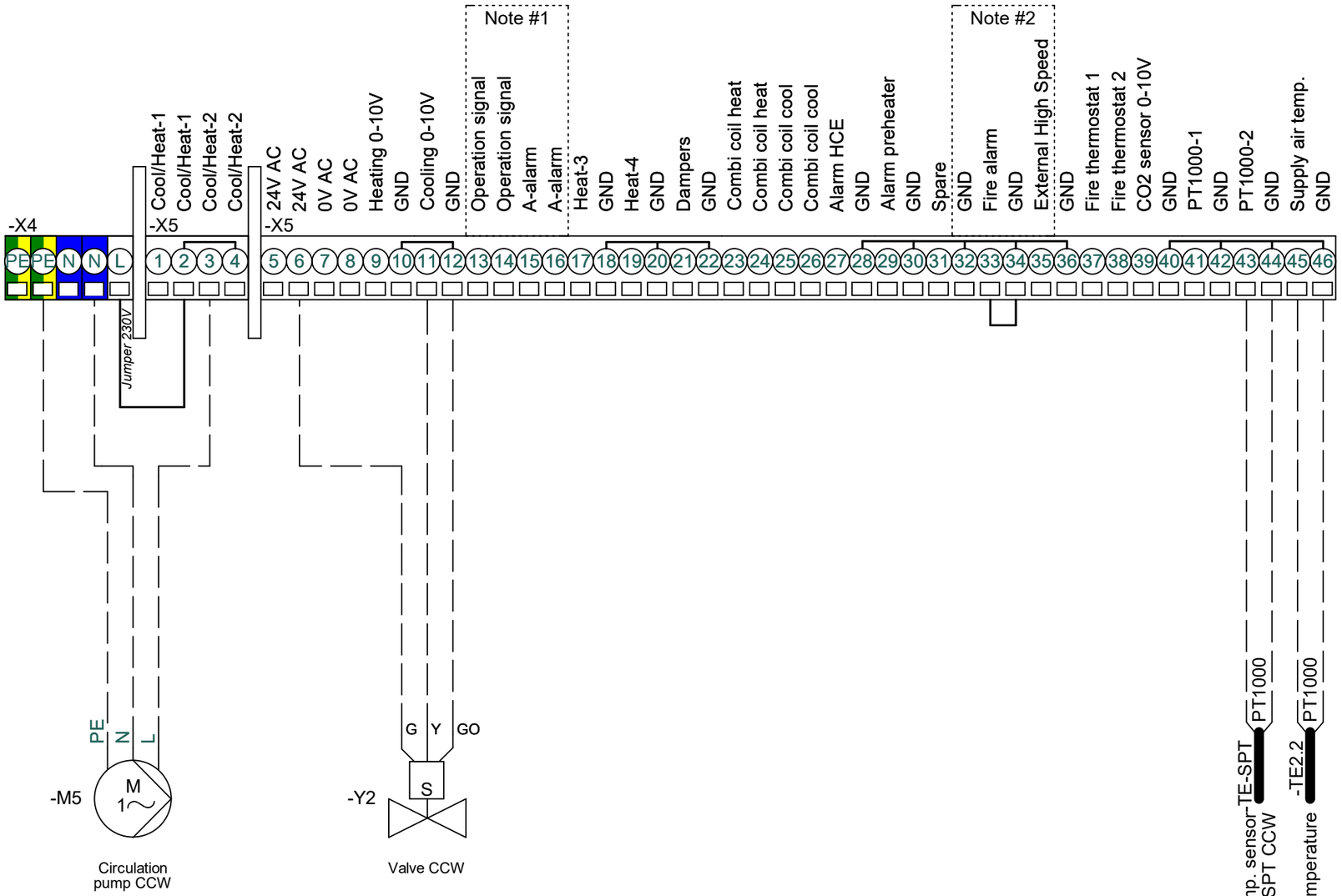
Configuration 4: Water Cooling Coil



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

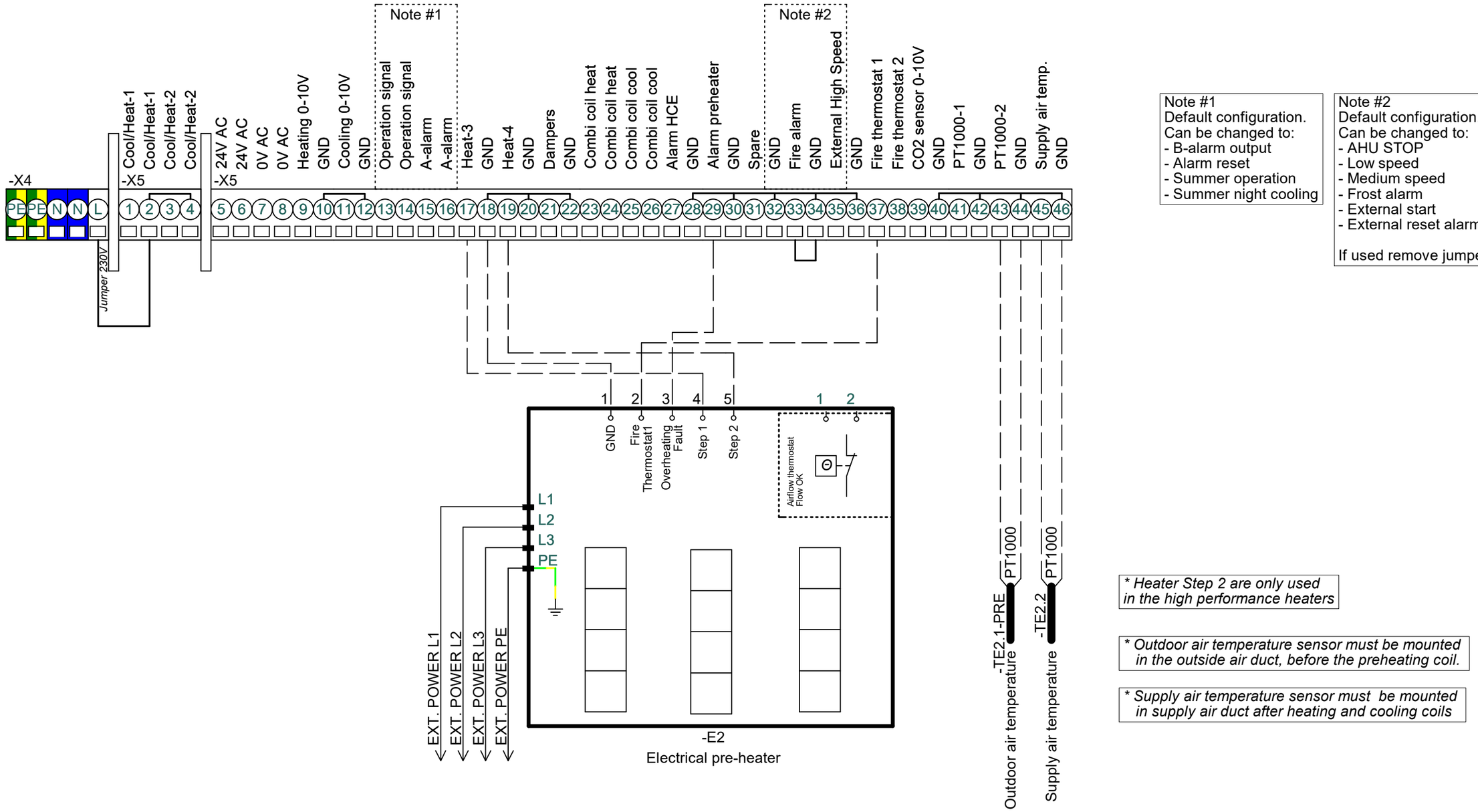
Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date:	24-08-2022	Constructor:	DKTSA	Page: 24
			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 23
Drawing number: 0400102	Revision: D	Page Title: Configuration 4: CCW	Replaces:	Rev. C	Scale:	1:1	Next page: 25
			EC no.:		Format:		Pages in total: 43

Configuration 5: Electric Pre-heater



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

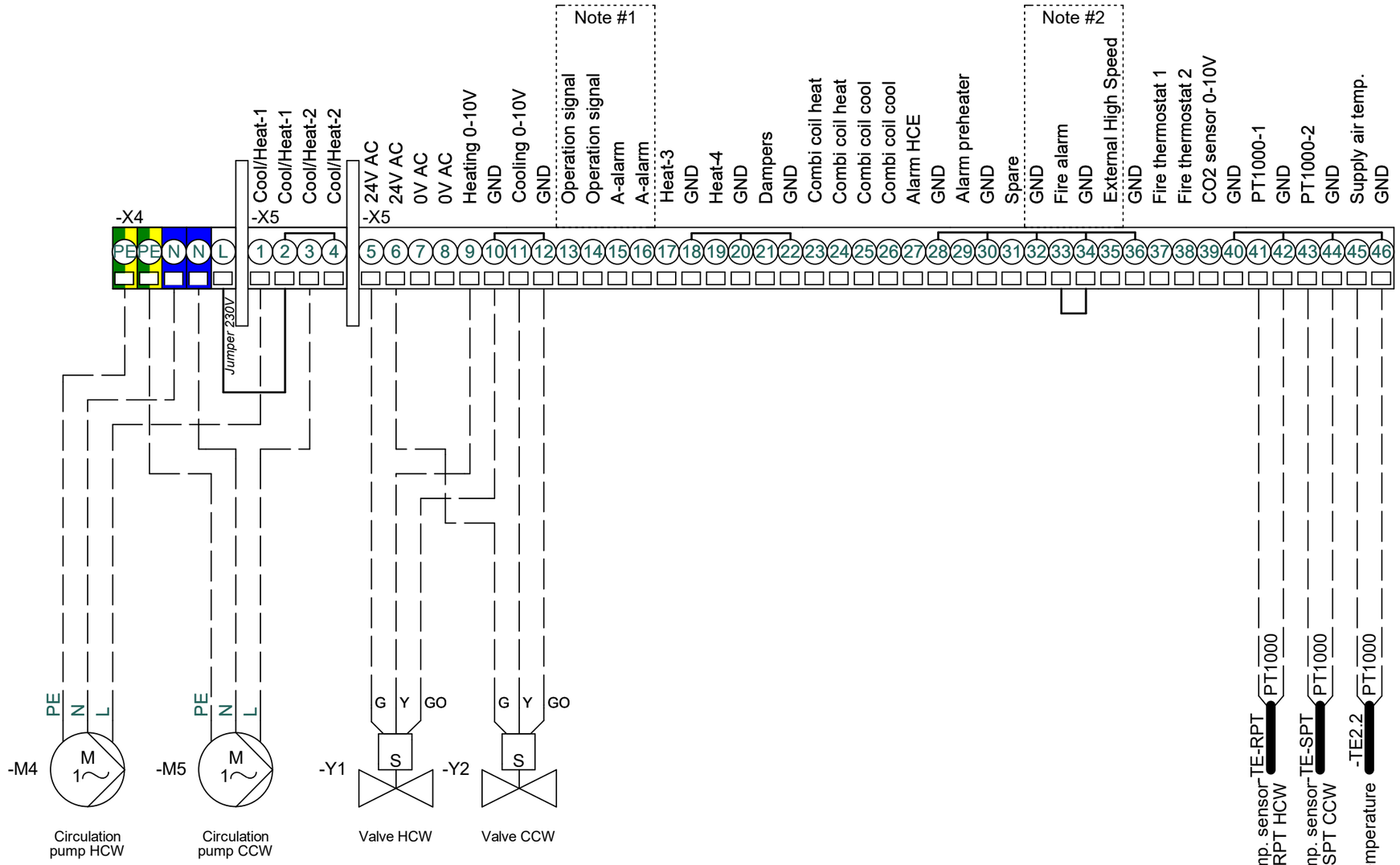
** Heater Step 2 are only used in the high performance heaters*

** Outdoor air temperature sensor must be mounted in the outside air duct, before the preheating coil.*

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 25	
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 24	
Drawing number: 0400102	Revision: D	Page Title: Configuration 5: Preheater	Replaces: Rev. C	Scale: 1:1	Next page: 26	
			EC no.:	Format:	Pages in total: 43	

Configuration 6: Water Heating Coil + Water cooling coil



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

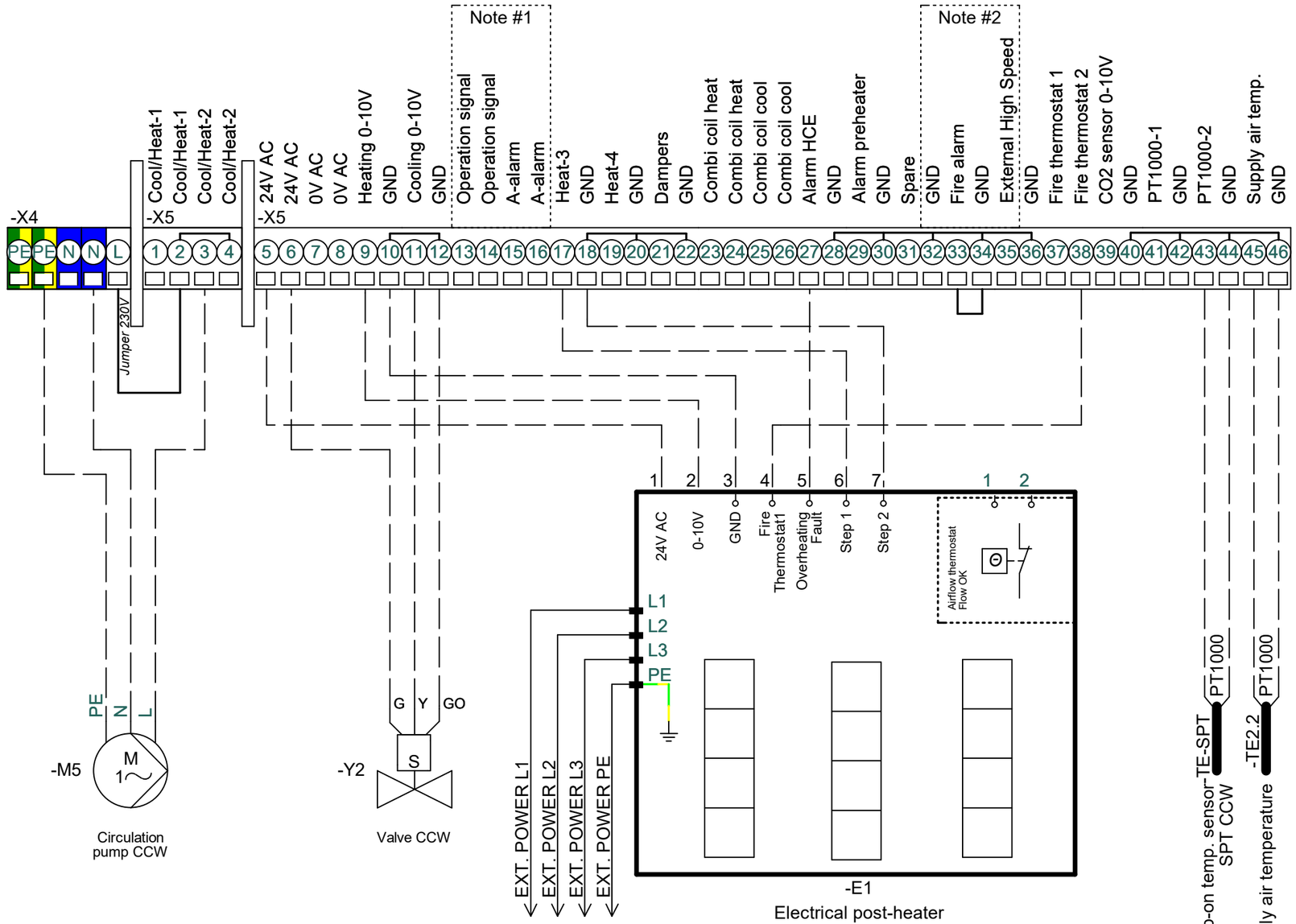
Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page:	26
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page:	25
Drawing number: 0400102	Revision: D	Page Title: Configuration 6: HCW+CCW	Replaces: Rev. C	Scale: 1:1	Next page:	27
			EC no.:	Format:	Pages in total:	43

Connections configuration 7: Electric Heating Coil + Water Cooling Coil



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Heater Step 2 are only used in the high performance heaters*

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 27
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 26
Drawing number: 0400102	Revision: D	Page Title: Configuration 7: HCE+CCW	Replaces: Rev. C	Scale: 1:1	Next page: 28
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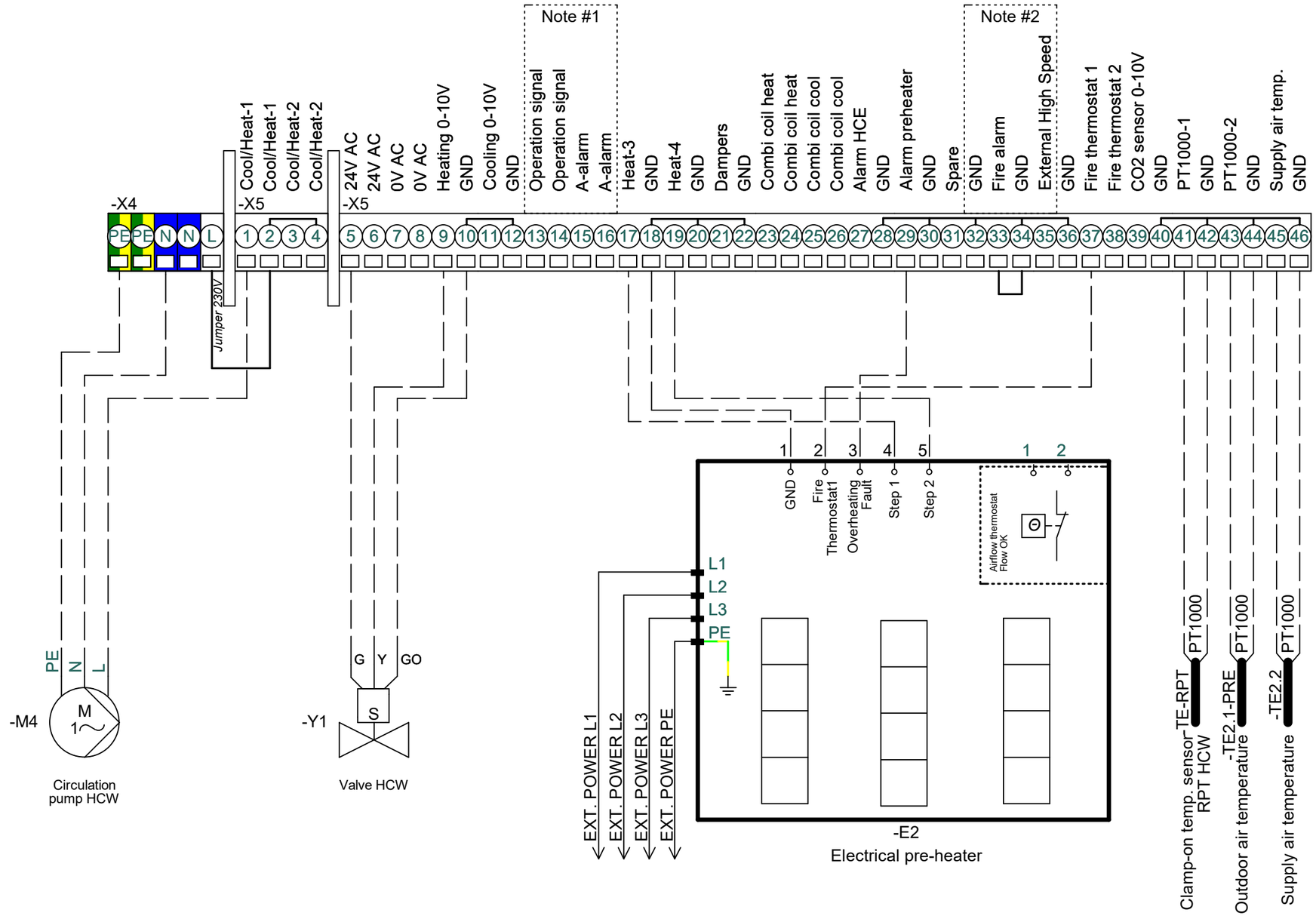
Connections configuration 8: Electric Preheating Coil + Water Heating Coil



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Heater Step 2 are only used in the high performance heaters*

** Outdoor air temperature sensor must be mounted in the outside air duct, before the preheating coil.*

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date:	24-08-2022	Constructor:	DKTSA	Page: 28
			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 27
Drawing number: 0400102	Revision: D	Page Title: Configuration 8: Preheater+HCW	Replaces:	Rev. C	Scale:	1:1	Next page: 29
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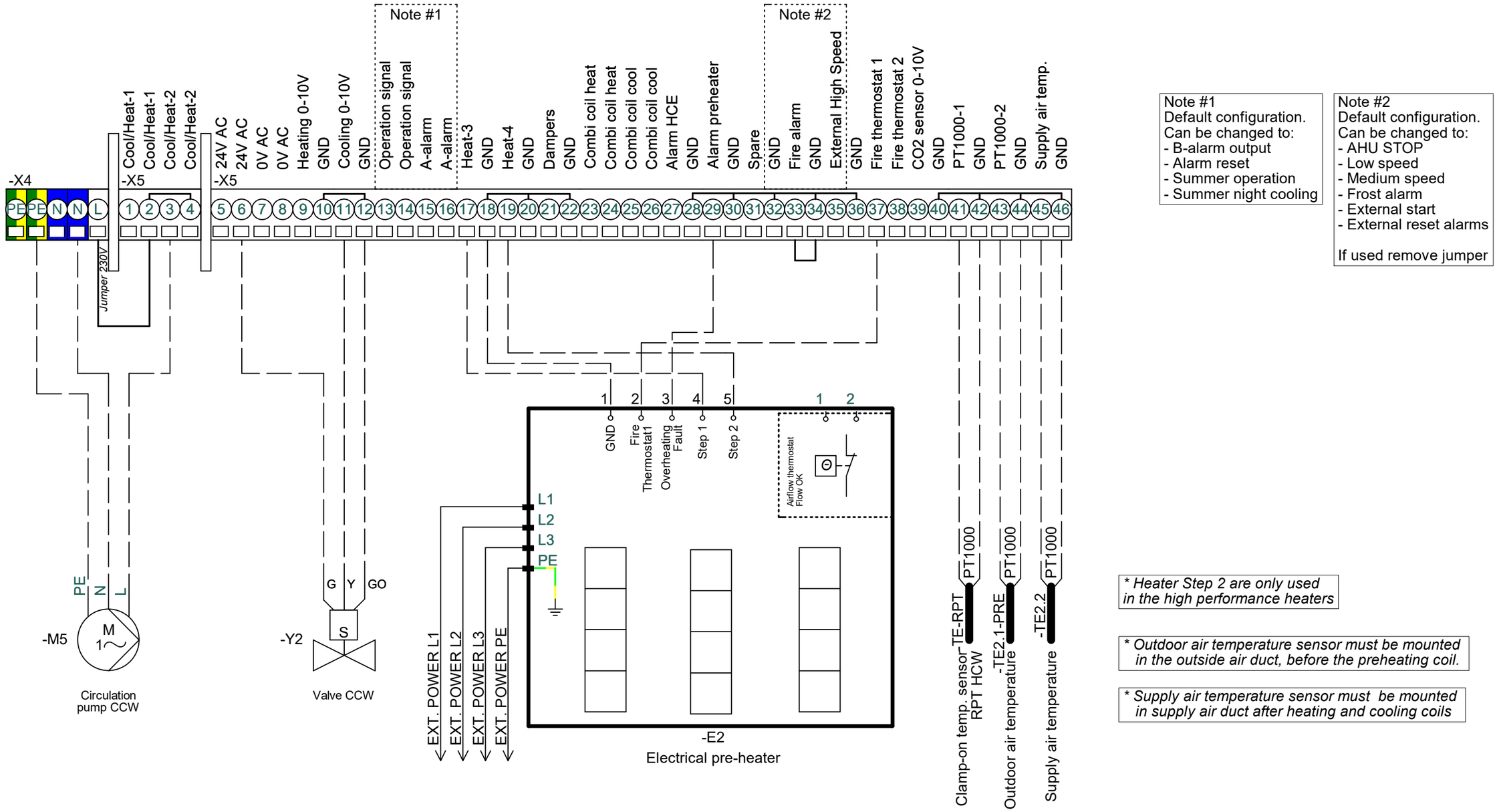
Connections configuration 9: Electric Preheating Coil + Water Cooling Coil



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

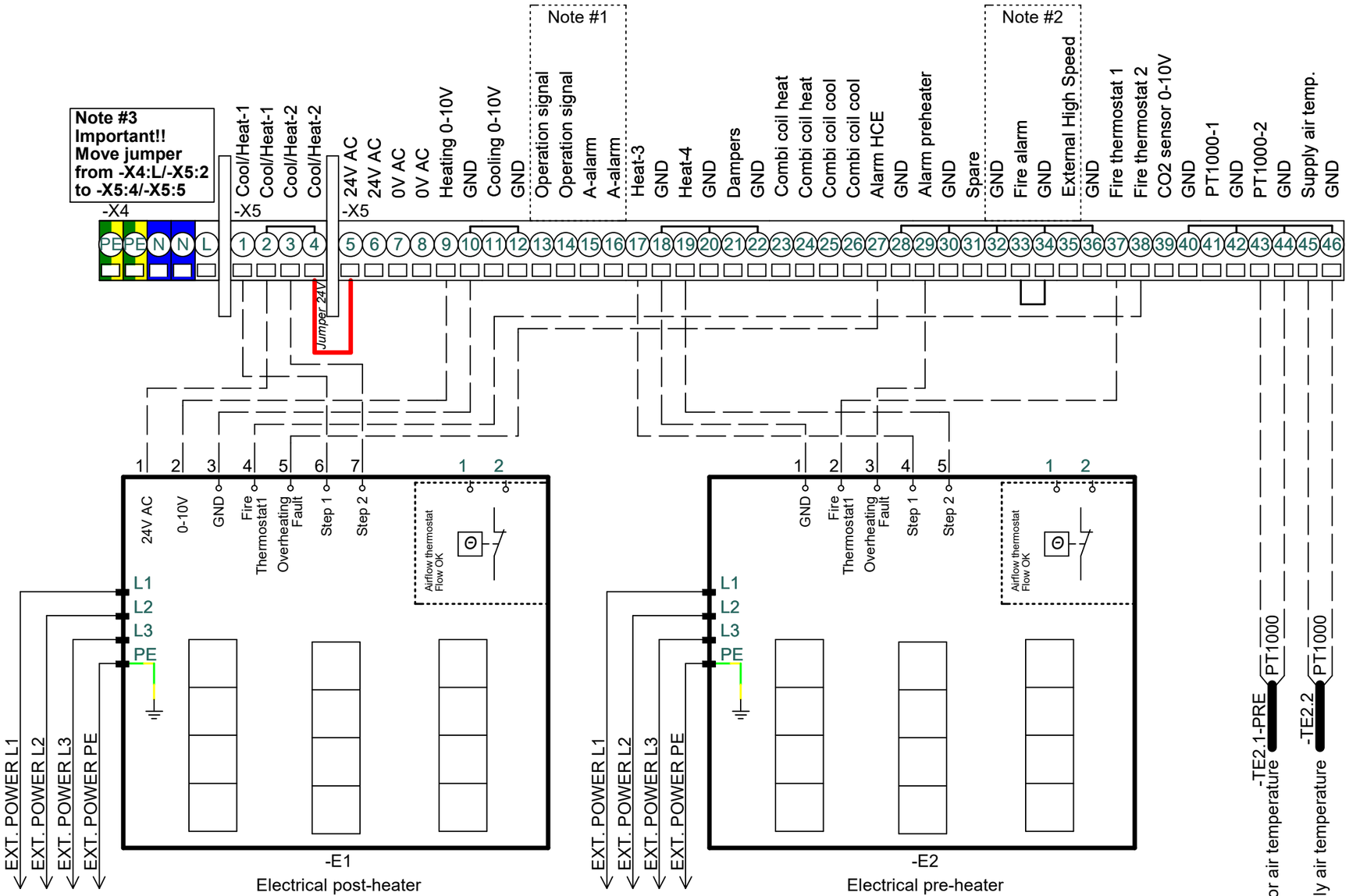
** Heater Step 2 are only used in the high performance heaters*

** Outdoor air temperature sensor must be mounted in the outside air duct, before the preheating coil.*

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 29	
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 28	
Drawing number: 0400102	Revision: D	Page Title: Configuration 9: Preheater+CCW	Replaces: Rev. C	Scale: 1:1	Next page: 30	
			EC no.:	Format:	Pages in total: 43	

Connections configuration 10: Electric Preheating Coil + Electric Postheating Coil



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Heater Step 2 are only used in the high performance heaters*

** Outdoor air temperature sensor must be mounted in the outside air duct, before the preheating coil.*

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 30
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 29
Drawing number: 0400102	Revision: D	Page Title: Configuration 10: Preheater+HCE	Replaces: Rev. C	Scale: 1:1	Next page: 31
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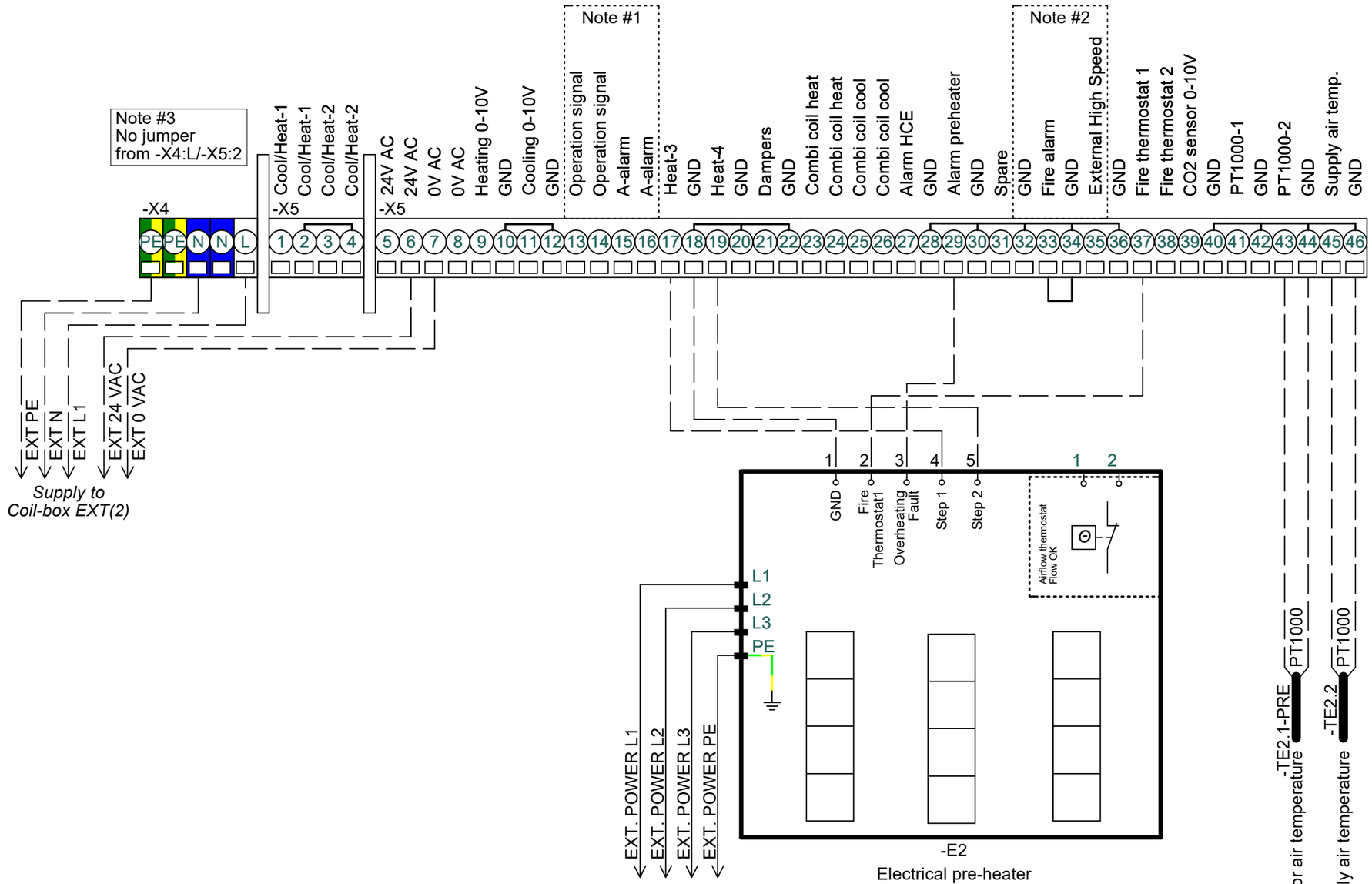
Configuration 11: Preheater + Water Heating Coil + Water Cooling Coil

Continued on page 32



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Heater Step 2 are only used in the high performance heaters*

** Outdoor air temperature sensor must be mounted in the outside air duct, before the preheating coil.*

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

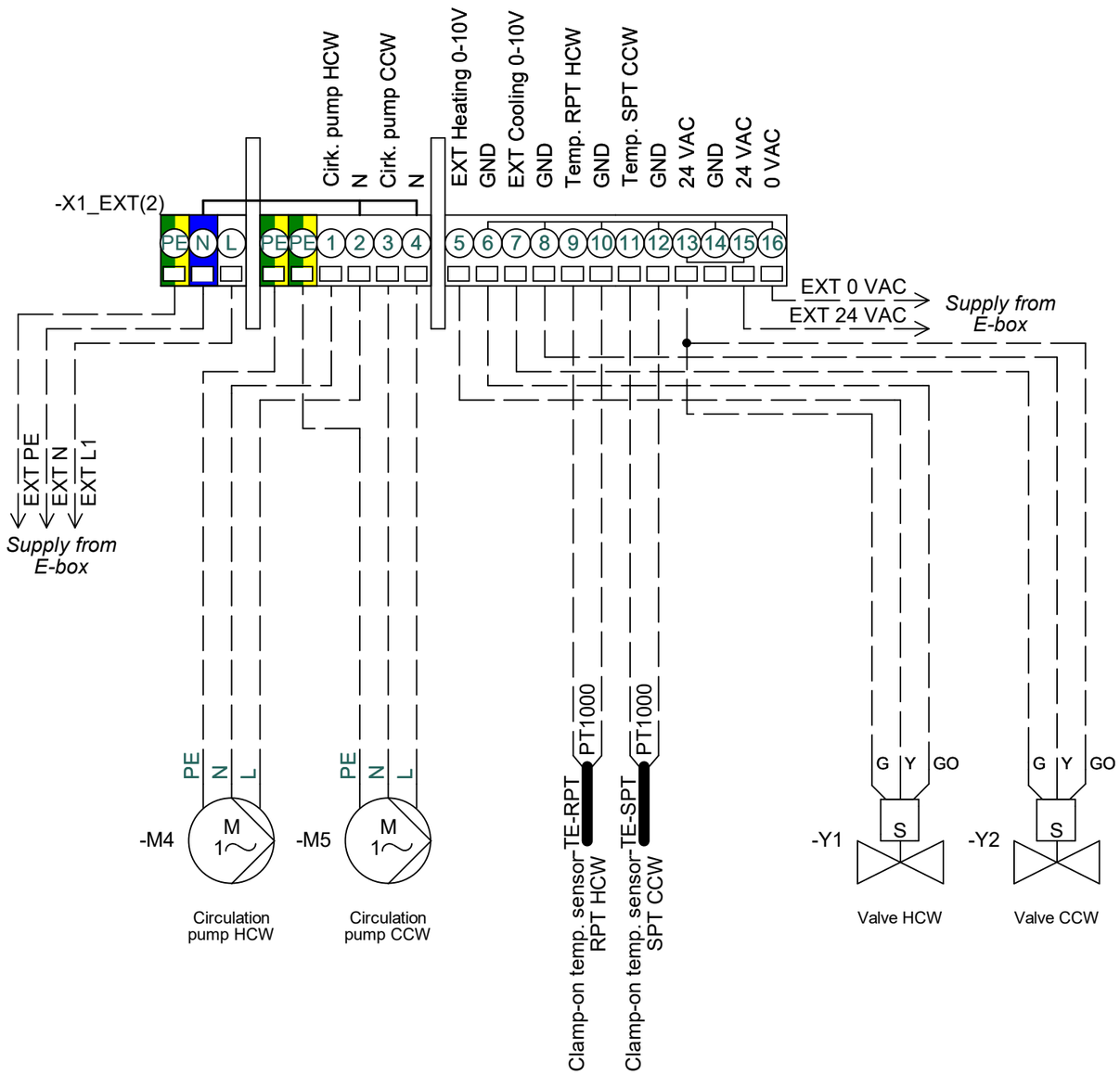
** For connecting 3 heating/cooling coils an additional EXT Module is needed. This is addressed with Modbus ID #2. For connecting HCW and CCW please see next page*

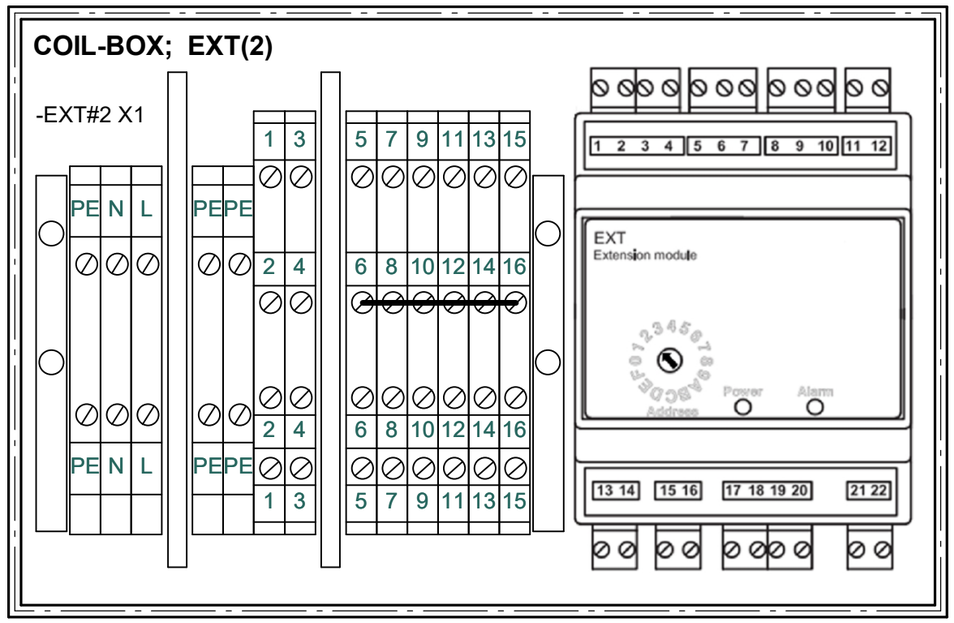
aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 31
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 30
Drawing number: 0400102	Revision: D	Page Title: Configuration 11: Preheater+HCW+CCW	Replaces: Rev. C	Scale: 1:1	Next page: 32
			EC no.:	Format:	Pages in total: 43

0	1	2	3	4	5	6	7	8	9

Configuration 11: Preheater + Water Heating Coil + Water Cooling Coil

Continued from page 31



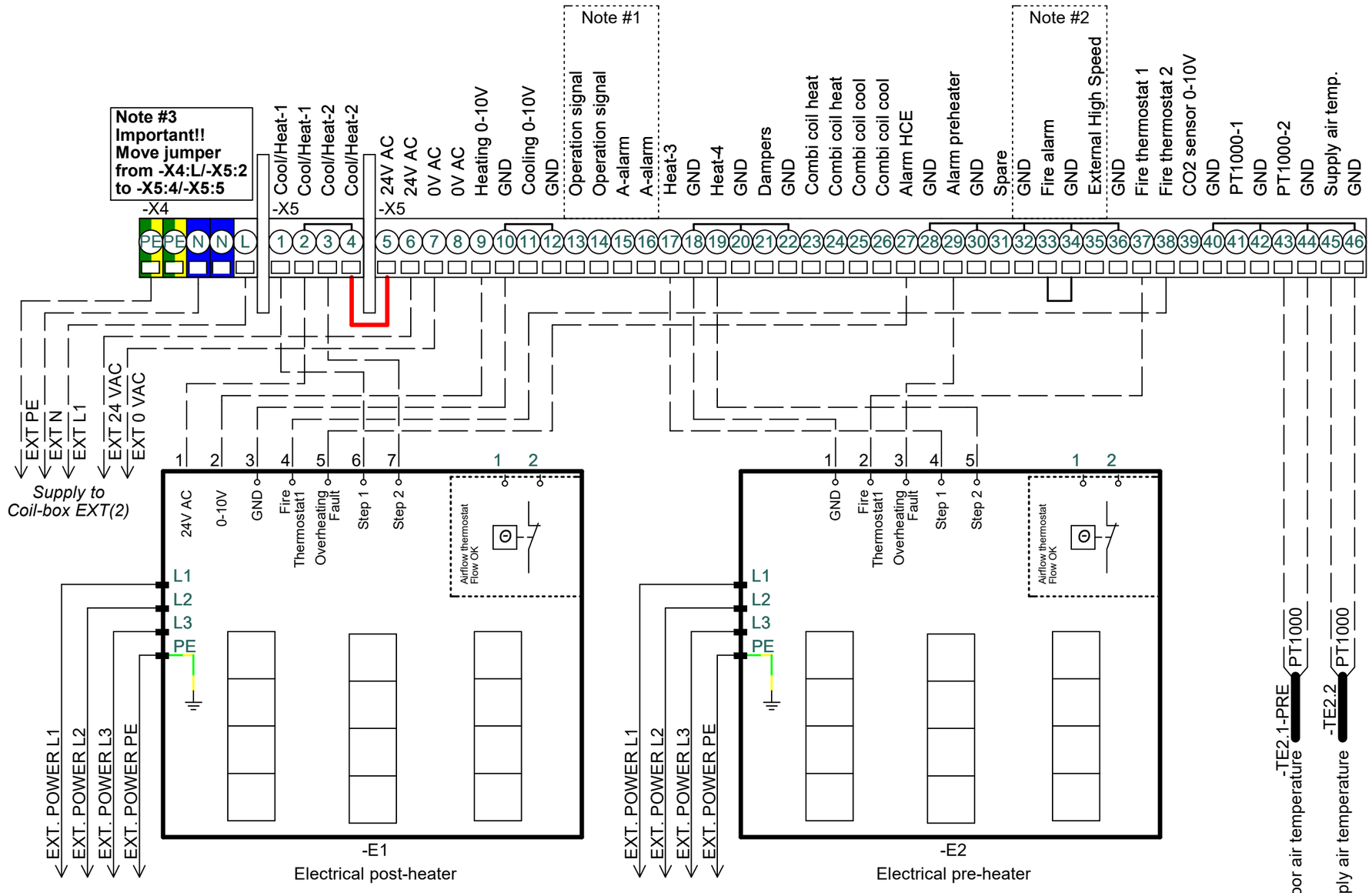


Note #1
Modbus connection to EXcon Master in E-box

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 32
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 31
Drawing number: 0400102	Revision: D	Page Title: Configuration 11: Preheater+HCW+CCW	Replaces: Rev. C	Scale: 1:1	Next page: 33
			EC no.:	Format:	Pages in total: 43

Connections configuration 12: Electric Preheating Coil + Electric Postheating Coil + Water Cooling Coil

Continued on page 34



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Heater Step 2 are only used in the high performance heaters*

** Outdoor air temperature sensor must be mounted in the outside air duct, before the preheating coil.*

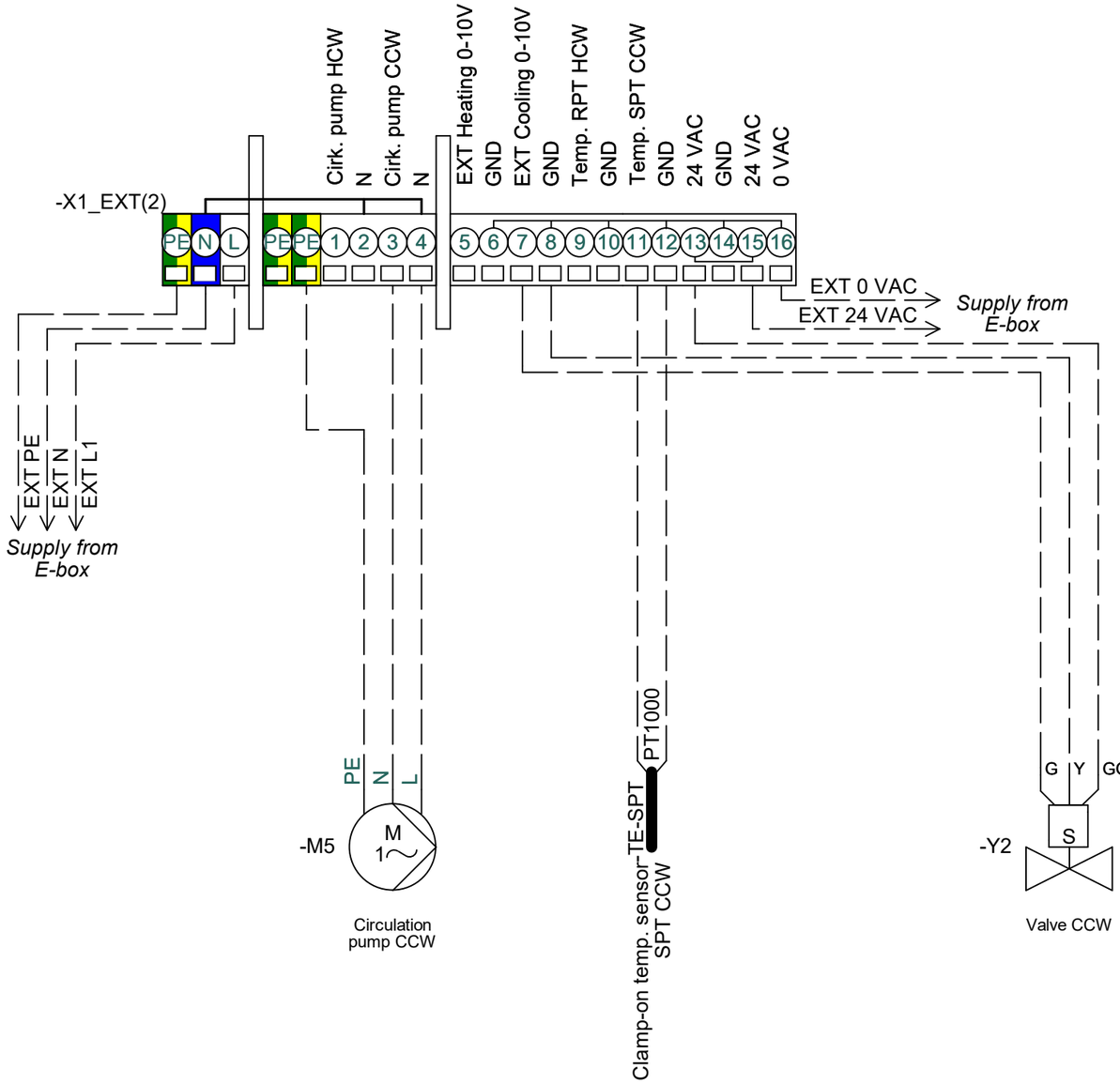
** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

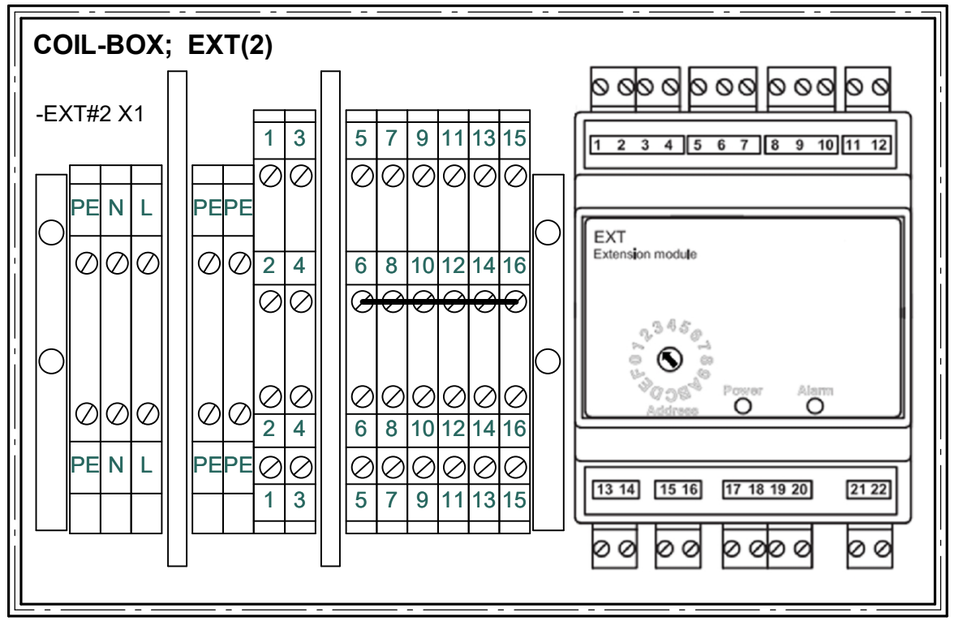
** For connecting 3 heating/cooling coils an additional EXT Module is needed. This is addressed with Modbus ID #2. For connecting HCW and CCW please see next page*

aldes		Project: CX3030 & CX3040	Start date:	24-08-2022	Constructor:	DKTSA	Page: 33
			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 32
Drawing number: 0400102	Revision: D	Page Title: Configuration 12: Preheater+HCE+CCW	Replaces:	Rev. C	Scale:	1:1	Next page: 34
			EC no.:		Format:		Pages in total: 43

Connections configuration 12: Electric Preheating Coil + Electric Heating Coil + Water Cooling Coil

Continued from page 33

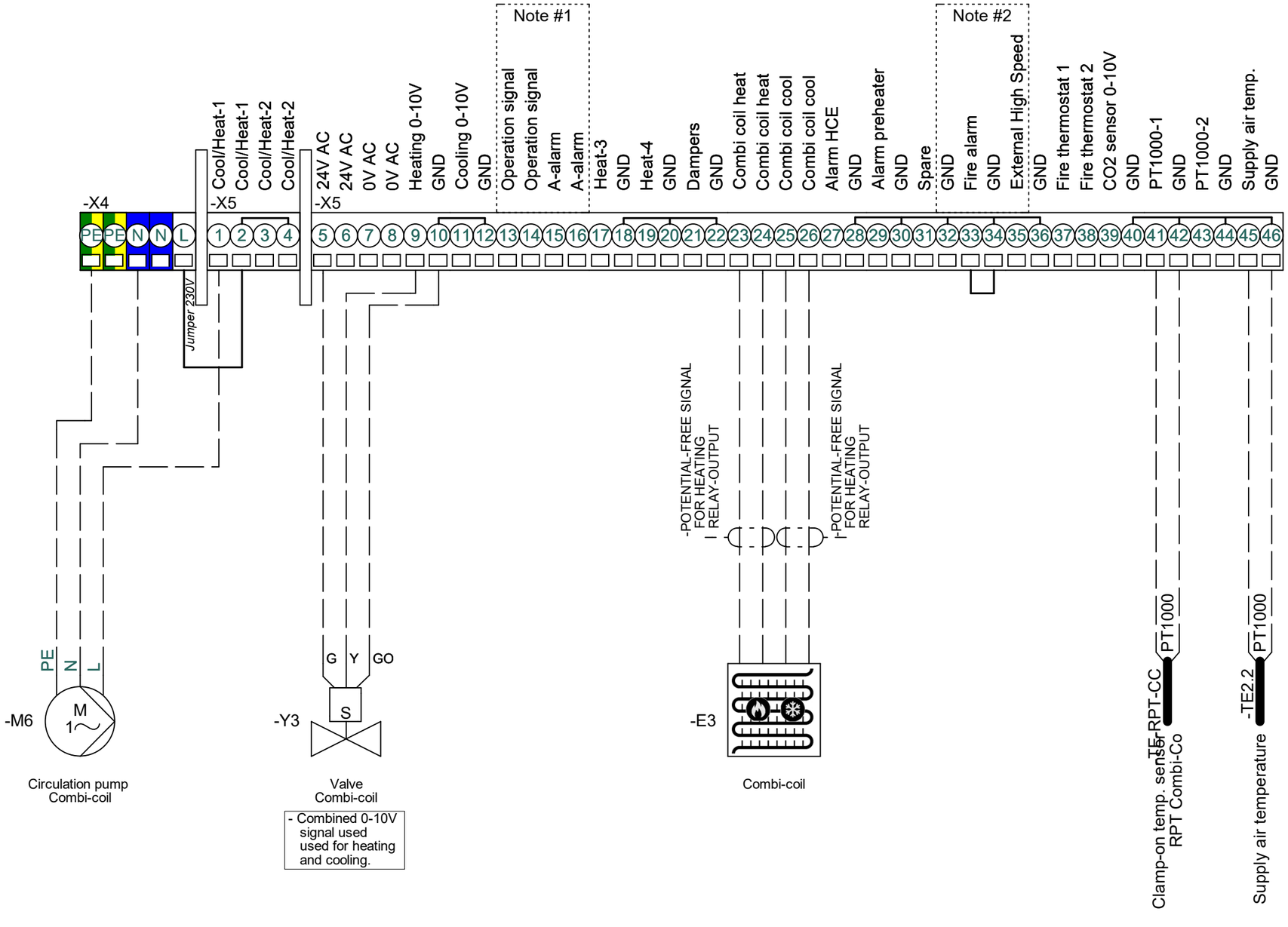




Note #1
Modbus connection to EXcon Master in E-box

aldes		Project: CX3030 & CX3040	Start date:	24-08-2022	Constructor:	DKTSA	Page: 34
			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 33
Drawing number: 0400102	Revision: D	Page Title: Configuration 12: Preheater+HCE+CCW	Replaces:	Rev. C	Scale:	1:1	Next page: 35
			EC no.:		Format:		Pages in total: 43

Configuration 13: Change-Over CW (Combi-Coil)



Circulation pump
Combi-coil

Valve
Combi-coil

- Combined 0-10V signal used used for heating and cooling.

Combi-coil

Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

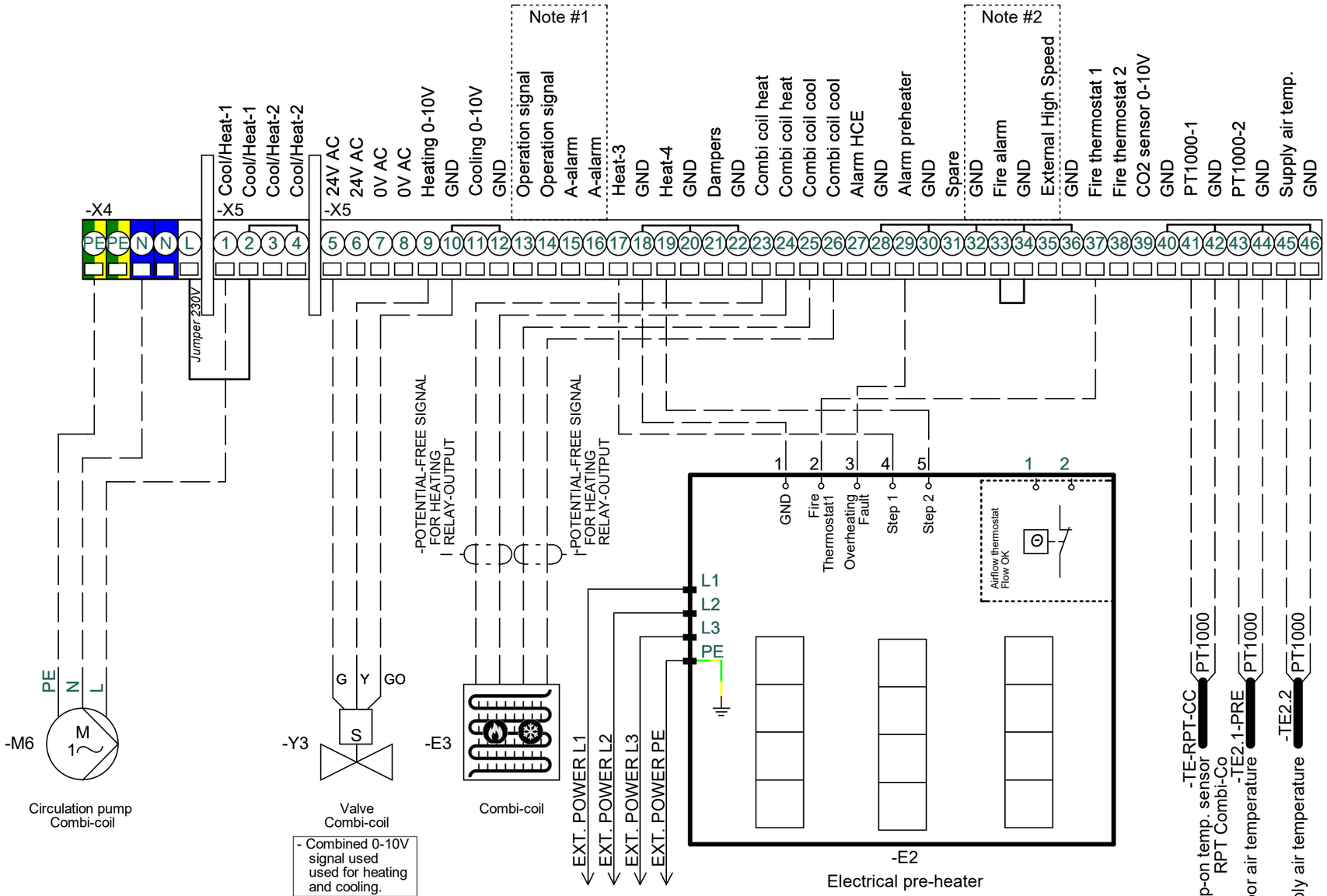
Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 35
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 34
Drawing number: 0400102	Revision: D	Page Title: Configuration 13: C-O CW (Combi-Coil)	Replaces: Rev. C	Scale: 1:1	Next page: 36
			EC no.:	Format:	Pages in total: 43

Connections configuration 14: Preheater + C-O CW (Combi-Coil)



Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

** Heater Step 2 are only used in the high performance heaters*

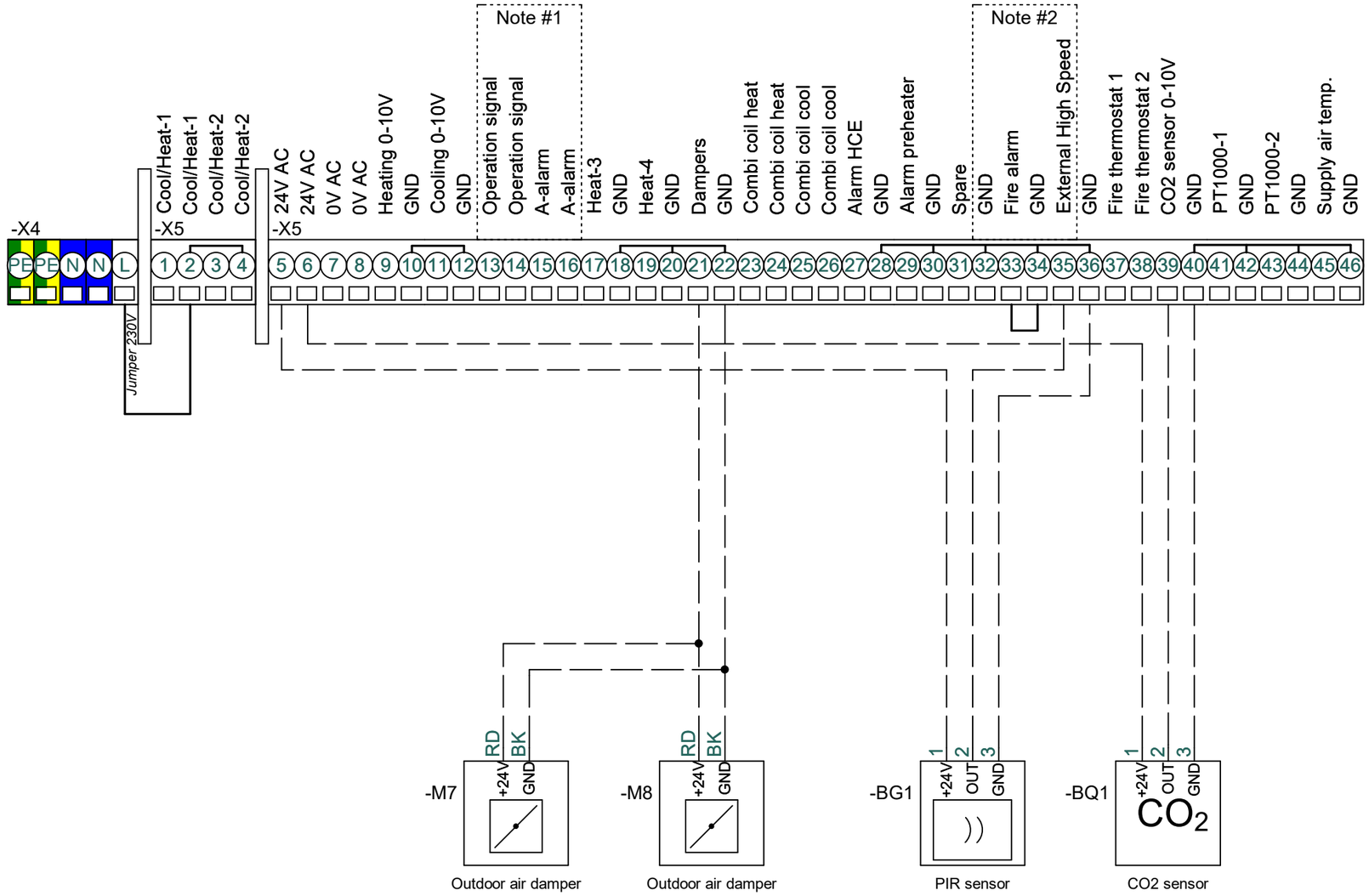
** Outdoor air temperature sensor must be mounted in the outside air duct, before the preheating coil.*

** Supply air temperature sensor must be mounted in supply air duct after heating and cooling coils*

aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 36
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 35
Drawing number: 0400102	Revision: D	Page Title: Configuration 14: Preheater+Combi-Coil	Replaces: Rev. C	Scale: 1:1	Next page: 37
			EC no.:	Format:	Pages in total: 43

0	1	2	3	4	5	6	7	8	9

Optional accessories



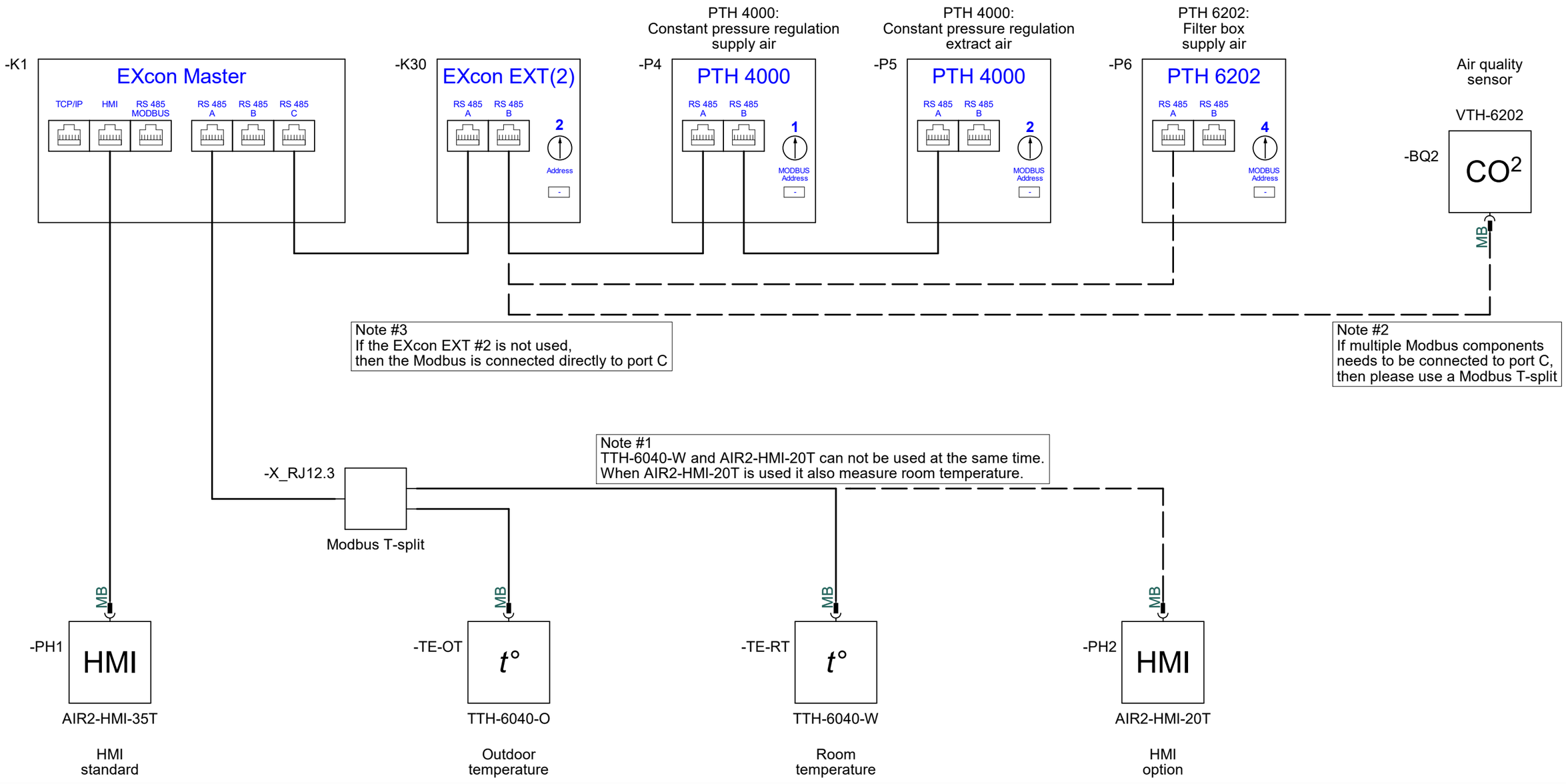
Note #1
Default configuration.
Can be changed to:
- B-alarm output
- Alarm reset
- Summer operation
- Summer night cooling

Note #2
Default configuration.
Can be changed to:
- AHU STOP
- Low speed
- Medium speed
- Frost alarm
- External start
- External reset alarms

If used remove jumper

EXHAUSTO		Project: CX3030 & CX3040	Start date:	24-08-2022	Constructor:	DKTSA	Page: 37
			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 36
Drawing number: 0400102	Revision: D	Page Title: Optional accessories	Replaces:	Rev. C	Scale:	1:1	Next page: 38
			EC no.:		Format:		Pages in total: 43

Optional accessories MODBUS



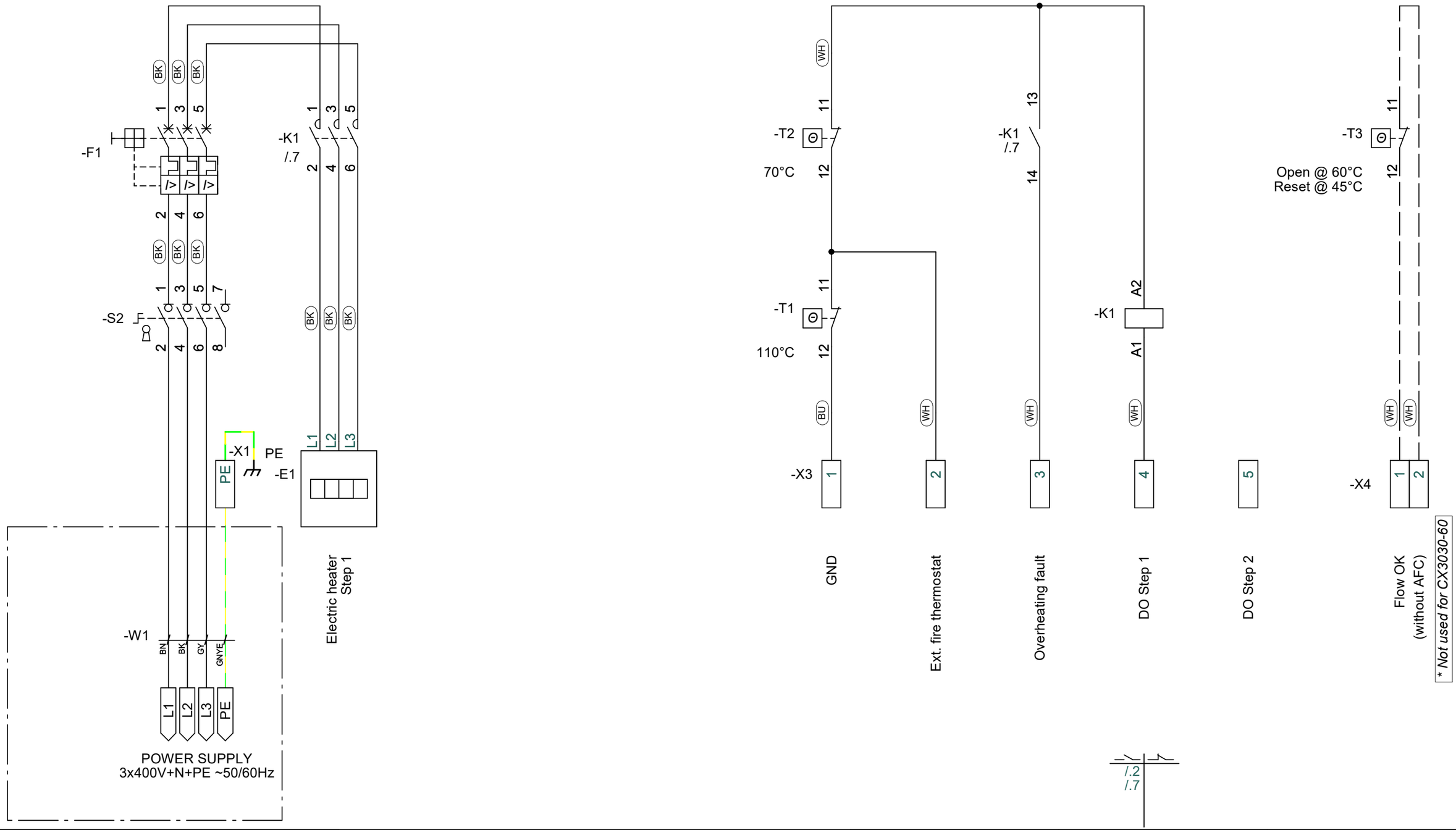
aldes		Project: CX3030 & CX3040	Start date:	24-08-2022	Constructor:	DKTSA	Page: 38
			Revision date:	08-11-2023	Approved by:	DKLEG	Previous page: 37
Drawing number: 0400102	Revision: D	Page Title: Optional accessories MODBUS	Replaces:	Rev. C	Scale:	1:1	Next page: 40
			EC no.:		Format:		Pages in total: 43

Electric heaters

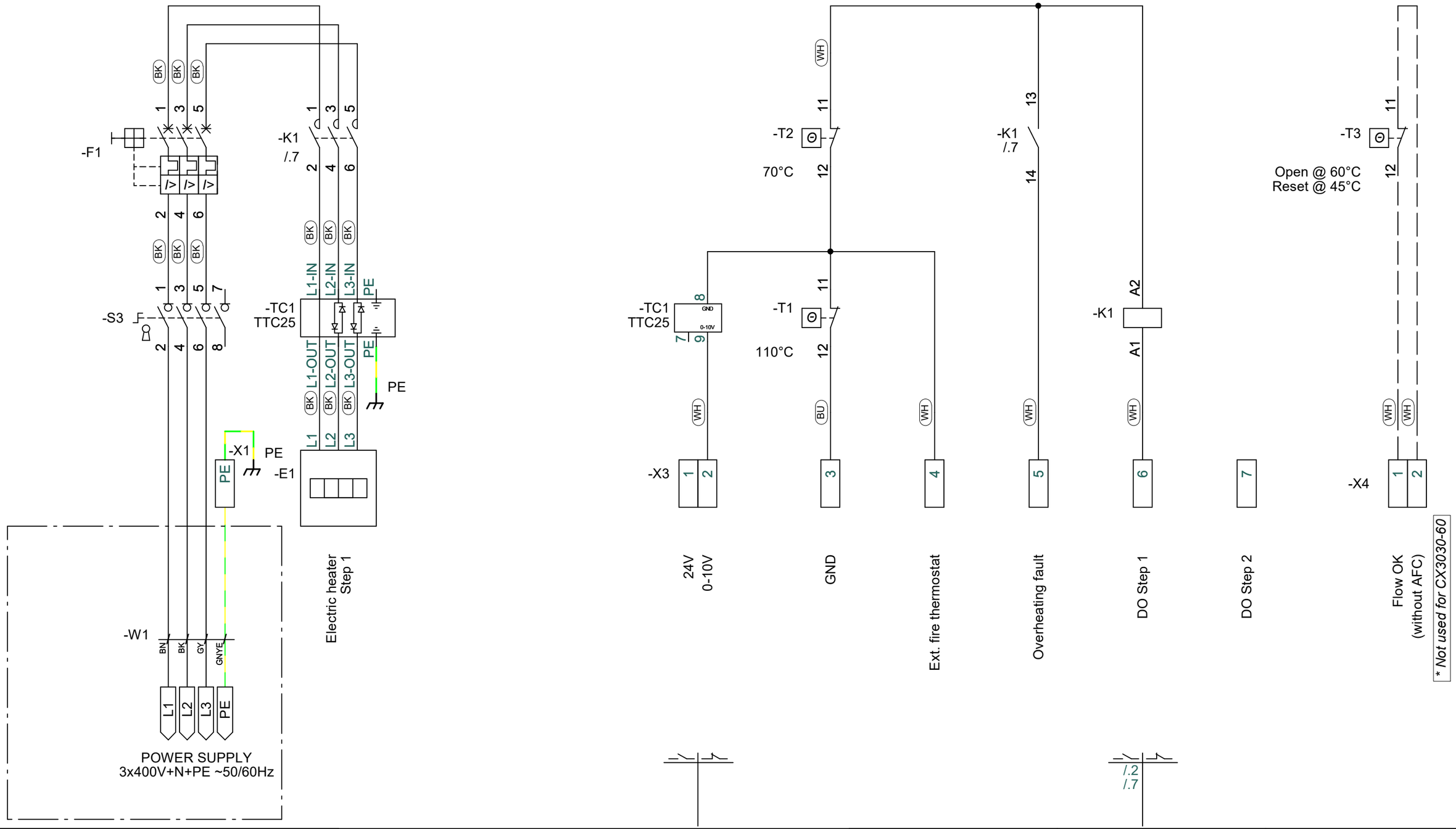
aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 40
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 38
Drawing number: 0400102	Revision: D	Page Title: Electric heaters	Replaces: Rev. C	Scale: 1:1	Next page: 41
			EC no.:	Format:	Pages in total: 43

Component	Function	Position
+A4.1/-E1	Electric heater Step 1	/43.2
+A4.1/-F1	Main fuse	/43.1
+A4.1/-K1	Contactor HE 1	/43.7
+A4.1/-S2	Main switch pre-heater	/43.1
+A4.1/-T1	Fire thermostat 110°C	/43.5
+A4.1/-T2	Overheating thermostat 70°C	/43.5
+A4.1/-T3	Air flow thermostat Open@60°C/Reset@45°C	/43.9
+A4.1/-W1	Main power supply cable	/43.1
+A4.1/-X1	Terminals for Main supply	/43.1
+A4.1/-X3	Terminals for Control signals	/43.5
+A4.1/-X4	Terminals for Air flow OK	/43.9
+A4.2/-E1	Electric heater Step 1	/44.2
+A4.2/-F1	Main fuse	/44.1
+A4.2/-K1	Contactor HE 1	/44.7
+A4.2/-S3	Main switch heater	/44.1
+A4.2/-T1	Fire thermostat 110°C	/44.5
+A4.2/-T2	Overheating thermostat 70°C	/44.5
+A4.2/-T3	Air flow thermostat Open@60°C/Reset@45°C	/44.9
+A4.2/-TC1	Triac HE 1	/44.4
+A4.2/-W1	Main power supply cable	/44.1
+A4.2/-X1	Terminals for Main supply	/44.1
+A4.2/-X3	Terminals for Control signals	/44.4
+A4.2/-X4	Terminals for Air flow OK	/44.9
+A4.3/-E1	Electric heater Step 1	/45.2
+A4.3/-E2	Electric heater Step 2	/45.3
+A4.3/-F1	Main fuse	/45.1
+A4.3/-K1	Contactor HE 1	/45.7
+A4.3/-K2	Contactor HE 2	/45.8
+A4.3/-S2	Main switch pre-heater	/45.1

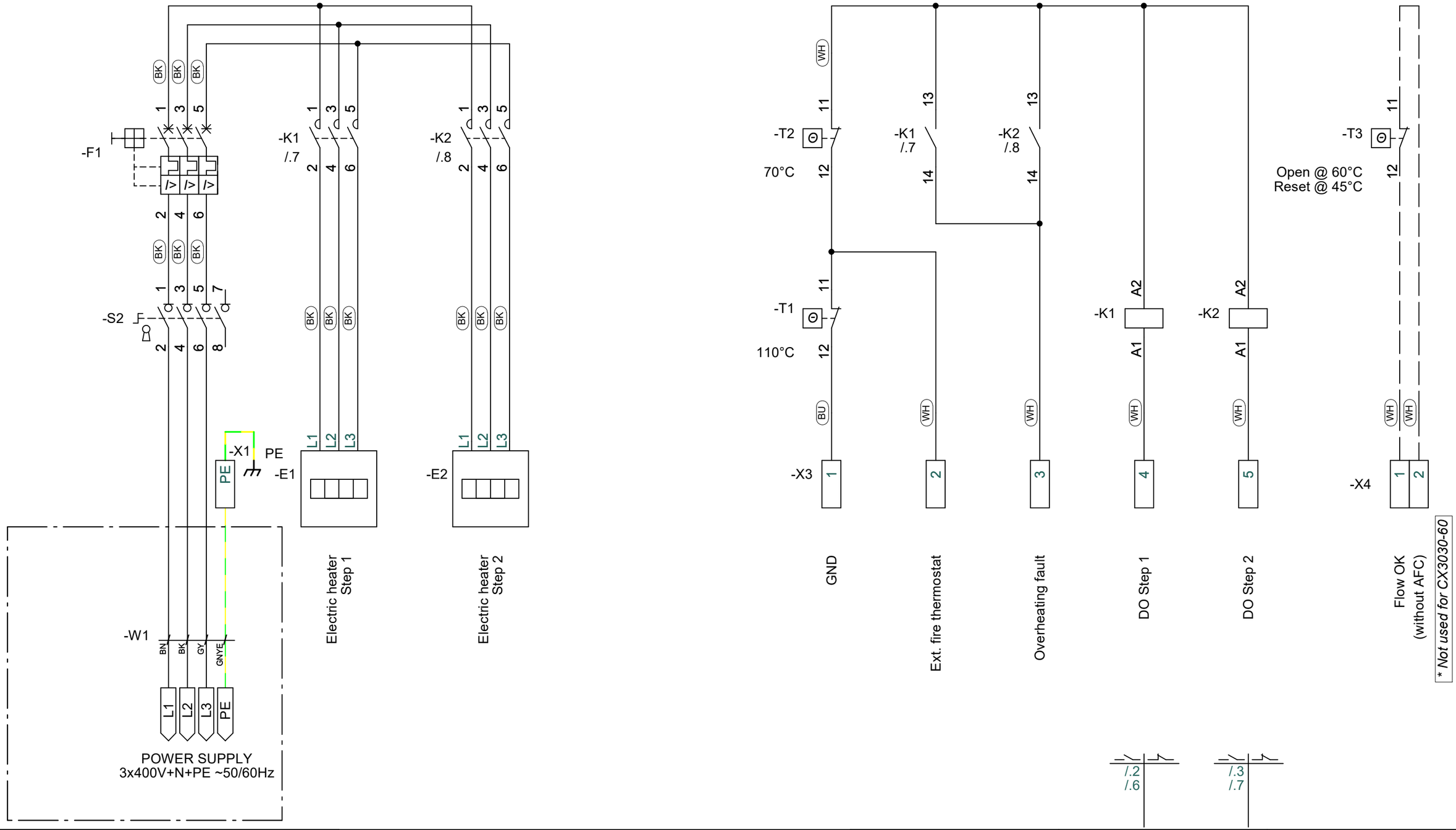
Component	Function	Position
+A4.3/-T1	Fire thermostat 110°C	/45.5
+A4.3/-T2	Overheating thermostat 70°C	/45.5
+A4.3/-T3	Air flow thermostat Open@60°C/Reset@45°C	/45.9
+A4.3/-W1	Main power supply cable	/45.1
+A4.3/-X1	Terminals for Main supply	/45.1
+A4.3/-X3	Terminals for Control signals	/45.5
+A4.3/-X4	Terminals for Air flow OK	/45.9
+A4.4/-E1	Electric heater Step 1	/46.2
+A4.4/-E2	Electric heater Step 2	/46.3
+A4.4/-F1	Main fuse	/46.1
+A4.4/-K1	Contactor HE 1	/46.7
+A4.4/-K2	Contactor HE 2	/46.8
+A4.4/-S3	Main switch heater	/46.1
+A4.4/-T1	Fire thermostat 110°C	/46.5
+A4.4/-T2	Overheating thermostat 70°C	/46.5
+A4.4/-T3	Air flow thermostat Open@60°C/Reset@45°C	/46.9
+A4.4/-TC1	Triac HE 1	/46.4
+A4.4/-W1	Main power supply cable	/46.1
+A4.4/-X1	Terminals for Main supply	/46.1
+A4.4/-X3	Terminals for Control signals	/46.4
+A4.4/-X4	Terminals for Air flow OK	/46.9



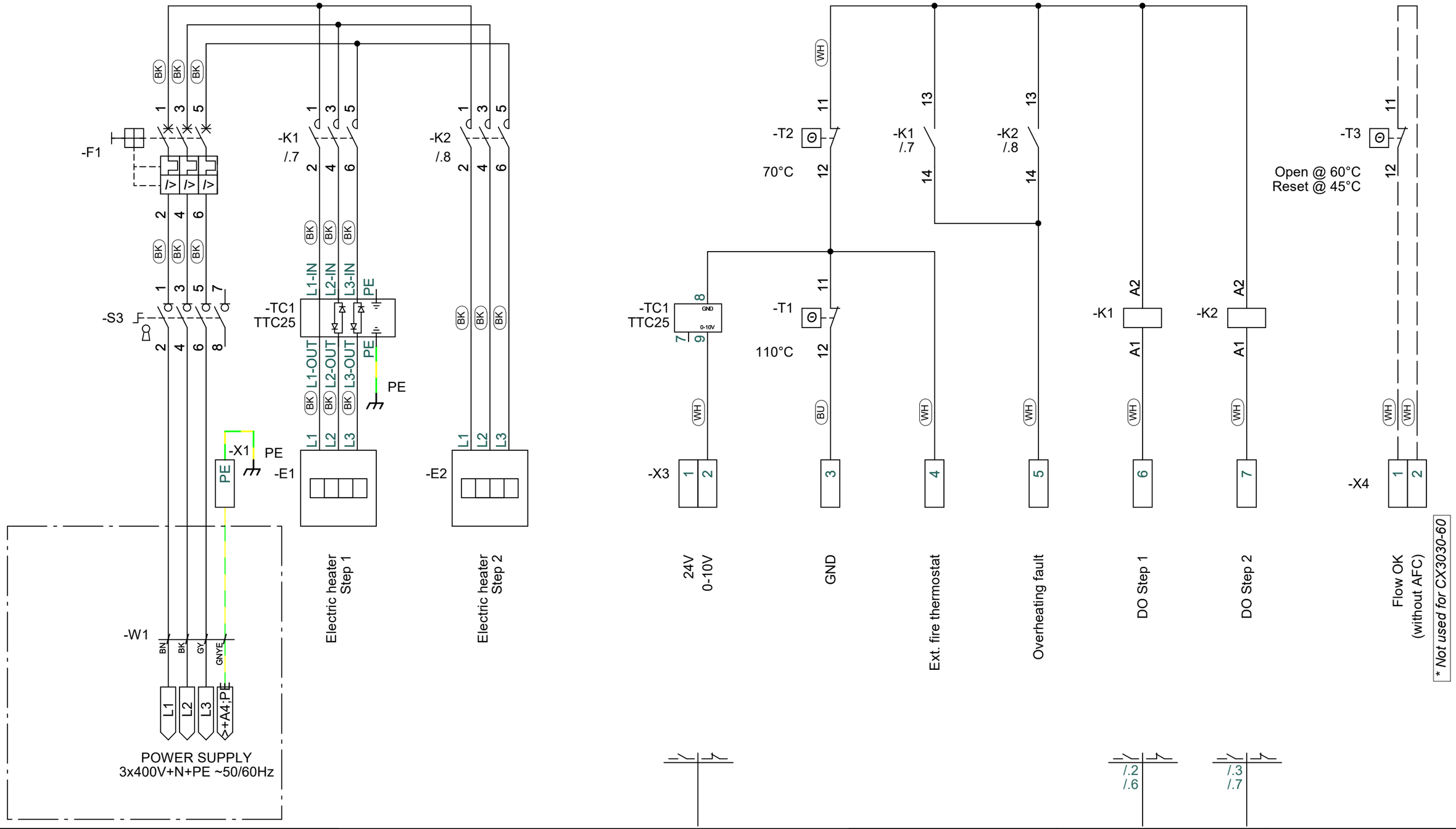
aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 43	
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 42	
Drawing number: 0400102	Revision: D	Page Title: Electric pre-heater Step 1	Replaces: Rev. C	Scale: 1:1	Next page: 44	
			EC no.:	Format:	Pages in total: 43	



aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 44	
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 43	
Drawing number: 0400102	Revision: D	Page Title: Electric heater Step 1	Replaces: Rev. C	Scale: 1:1	Next page: 45	
			EC no.:	Format:	Pages in total: 43	



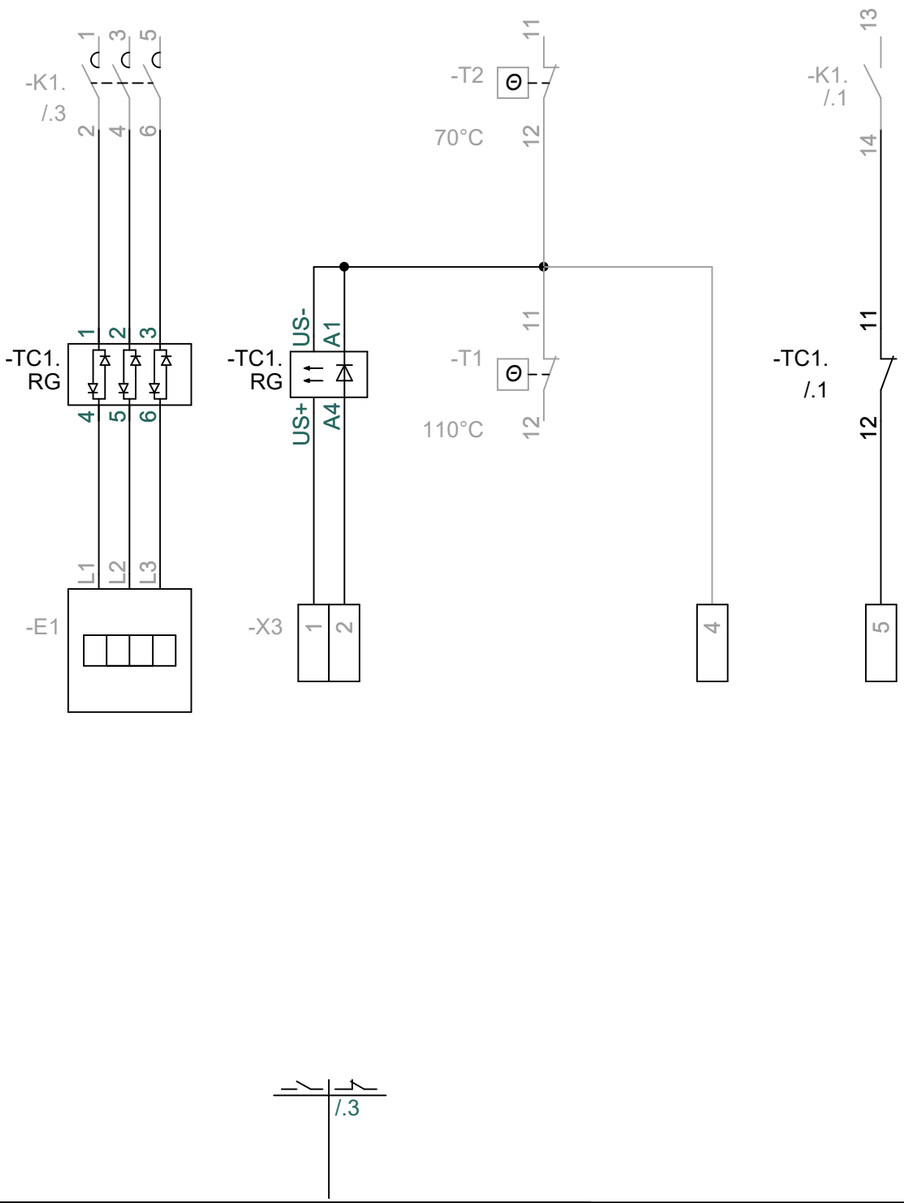
aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 45
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 44
Drawing number: 0400102	Revision: D	Page Title: Electric pre-heater Step 1 & 2	Replaces: Rev. C	Scale: 1:1	Next page: 46
			EC no.:	Format:	Pages in total: 43



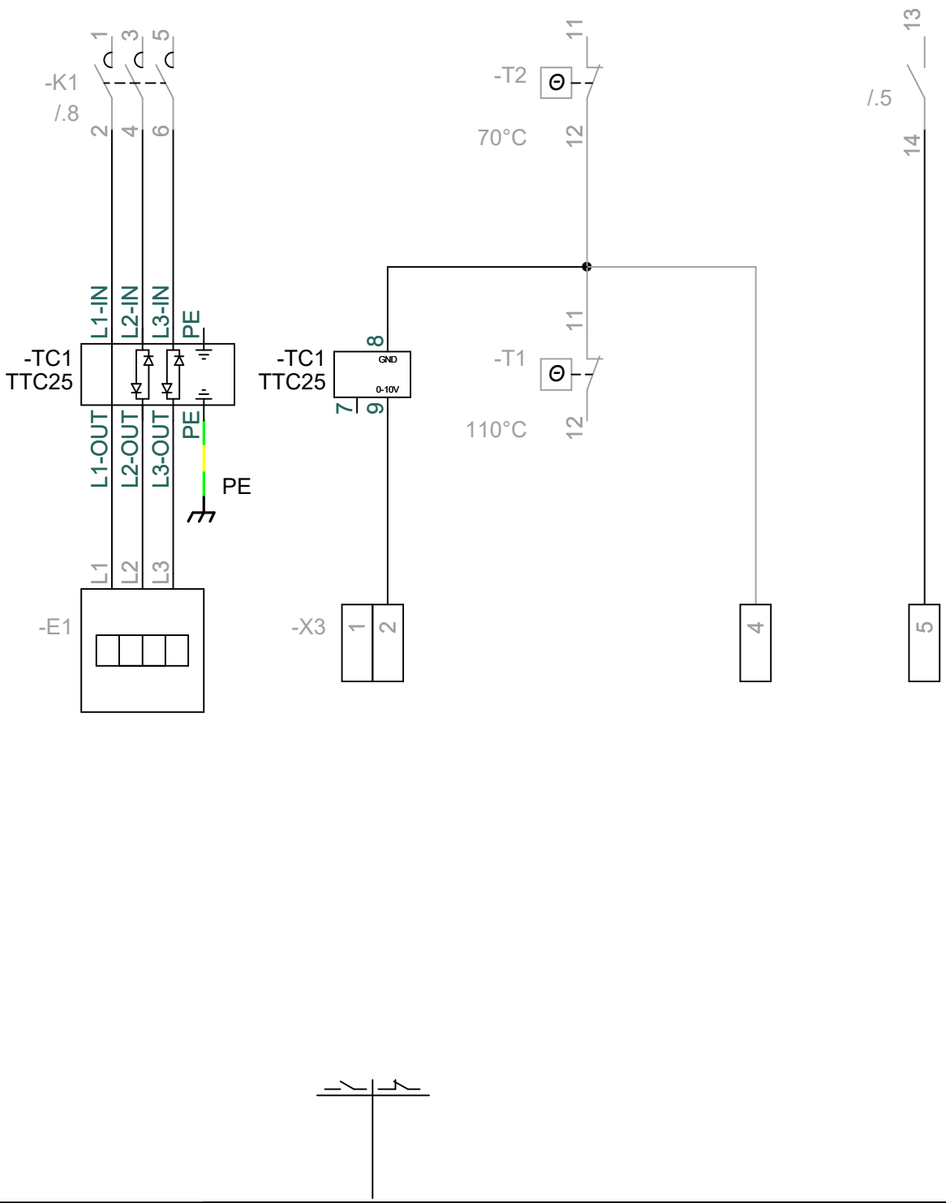
aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 46	
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 45	
Drawing number: 0400102	Revision: D	Page Title: Electric heater Step 1 & 2	Replaces: Rev. C	Scale: 1:1	Next page: 47	
			EC no.:	Format:	Pages in total: 43	

0	1	2	3	4	5	6	7	8	9

Carlo Gavazzi RG controller



Regin TTC25 controller



aldes		Project: CX3030 & CX3040	Start date: 24-08-2022	Constructor: DKTSA	Page: 47		
			Revision date: 08-11-2023	Approved by: DKLEG	Previous page: 46		
Drawing number: 0400102	Revision: D	Page Title: Carlo Gavazzi RG vs Regin TTC25	Replaces: Rev. C	Scale: 1:1	Next page:		
			EC no.:	Format:	Pages in total: 43		