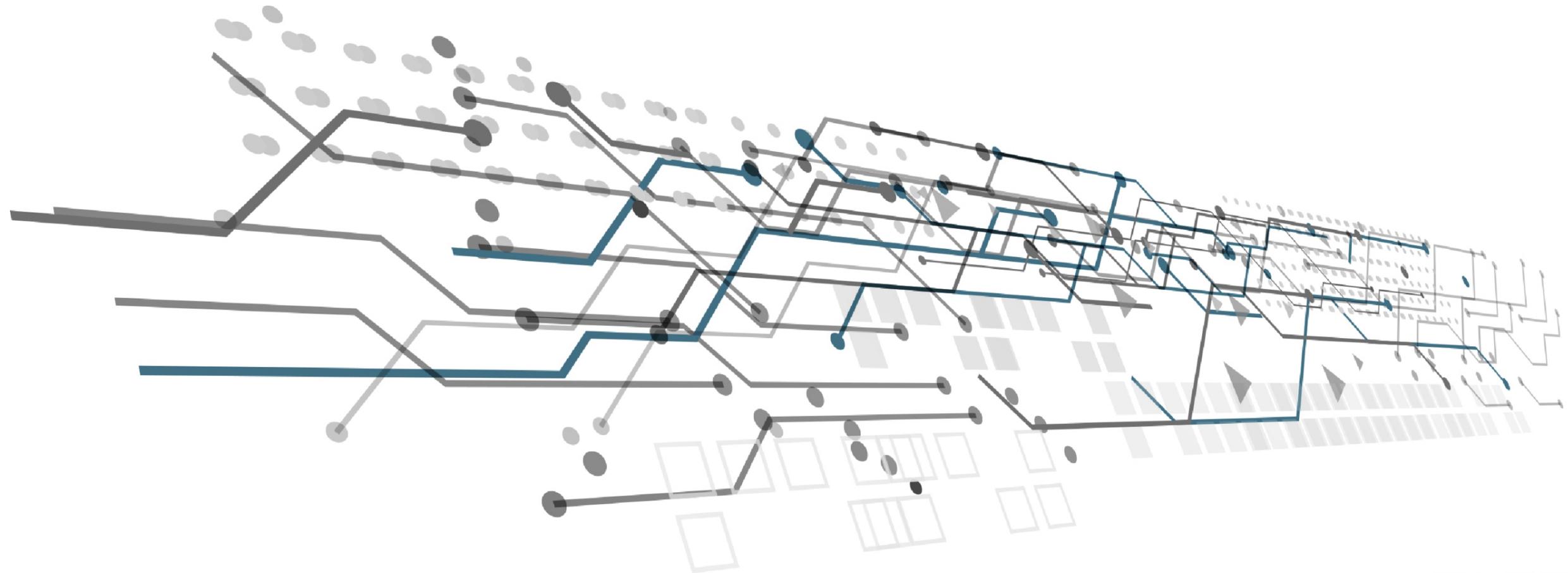


VEX1000 Wiring diagram

EXcon+ automatic

EXcon+ automatik

Systeme de régulation EXcon+



VEX1000 - Customized (230V)

2028066

aldes EXHAUSTO	Project: VEX1000 - Customized (230V)	Start date: 17-06-2024	Constructor: DKTSA	Page: 1	
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Page	Title Note #1	(GB)	Titel	(DE)	Titre	(FR)	Last edit
1	Project information		Projektinformationen		Informations sur le projet		08-08-2024
3	Standards		Standard		Normes		04-07-2024
4	Standards		Standard		Normes		15-11-2024
5	Component overview		Komponentenübersicht		Vue d'ensemble des composants		15-11-2024
9	Principles for all configuration options		Prinzipien für alle Konfigurationsoptionen		Principes pour toutes les options de configuration		04-07-2024
10	Basic control panel 3x400V		Basis-Schaltschrank 3x400V		Armoire de commande de base 3x400V		12-11-2024
11	Supplementary selections		Basis-Schaltschrank 3x400V		Armoire de commande de base 3x400V		14-11-2024
12	Control panel terminals		Klemmen des Schaltschranks		Bornes du tableau de commande		12-11-2024
20	Main current		Hauptstrom		Courant principal		09-12-2024
21	Power analyzers - 3 phase		Leistungsanalyatoren - 3 Phasen		Analyseurs de puissance - triphasés		13-11-2024
22	Pilot current		Steuerstrom		Courant pilote		12-11-2024
23	Standard - Modbus connections		Standard – Modbus-Anschlüsse		Standard – Raccordements pour modbus		15-11-2024
24	Standard - Fan & Rotor/Bypass controls		Standard – Ventilator- und Rotor-/Bypass-Steuerungen		Standard – Commandes by-pass / du ventilateur et du rotor		12-11-2024
25	Standard - Dampers		Standard – Register		Standard - Volets		12-11-2024
26	Options - Dampers		Optionen – Register		Options - Volets		12-11-2024
27	Options - Pre-heating controls		Optionen – Vorheizregler		Options – Commandes de préchauffage		12-11-2024
28	Options - Post-heating controls		Optionen – Nachheizregler		Options – Commandes de post-chauffage		14-11-2024
29	Options - HW/CW/CO controls		Optionen – HW/CW/CO-Regler		Options – Commandes HW/CW/CO		12-11-2024
30	Options - Temperature & CO2 sensors		Optionen – Temperatur- und CO2-Sensoren		Options – Capteurs de température et de CO2		12-11-2024
31	Standard - Customer connections		Standard – Kundenseitige Anschlüsse		Standard – Raccordements du client		12-11-2024
40	Standard - Dual PTH 1		Standard – Doppel-PTH 1		Standard – Double PTH 1		12-11-2024
41	Standard - Dual PTH 2		Standard – Doppel-PTH 2		Standard – Double PTH 2		12-11-2024
42	Option - ALC™ - Rotor deicing		Option - ALC™ - Rotorenteisung		Option - ALC™ - Dégivrage du rotor		12-11-2024
50	Option - Combi Coil		Option – Kombiregister (CO)		Option - Serpentin mixte (CO)		12-11-2024
51	Option - Direct Expansion Heat pump		Option – Heizregister für Direkte Expansion (DX)		Option - Batterie de chauffage à détente directe (DX)		12-11-2024
52	Option - Direct Expansion Cooling		Option – Kühlregister für Direkte Expansion (DX)		Option - Batterie de refroidissement à détente directe (DX)		12-11-2024

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Identification of wires by colour (according to EN 60204-1)

Note #2

<u>Main current:</u>	<u>Hauptstrom:</u>	<u>Courant principal:</u>	<u>400/230VAC</u>
Phase:	Phase:	Phase :	BK
Neutral:	Neutral:	Neutre :	BK
Earth:	Erde:	Terre :	GNYE
<u>Pilot current:</u>	<u>Steuerstrom:</u>	<u>Courant pilote:</u>	<u>230/24VAC</u>
Phase:	Phase:	Phase :	RD
Neutral:	Neutral:	Neutre :	RD
Earth:	Erde:	Terre :	GNYE
<u>Pilot current:</u>	<u>Steuerstrom:</u>	<u>Courant pilote:</u>	<u>24VDC</u>
Positive (+):	Positiv (+):	Positif (+) :	BU
Negative (-):	Negativ (-):	Négatif (-) :	BU
<u>Unknown potential:</u>	<u>Unbekanntes Potenzial:</u>	<u>Potentiel inconnu:</u>	
All:	Alle:	Tout:	OG

Abbreviations of colours (according to IEC 60757)

Note #3

Black	Schwarz	Noir	BK
Brown	Braun	Marron	BN
Red	Rot	Rouge	RD
Orange	Orange	Orange	OG
Yellow	Gelb	Jaune	YE
Green	Grün	Vert	GN
Blue	Blau	Bleu	BU
Light Blue	Hellblau	Bleu clair	BU
Violet	Violett	Violet	VT
Gray	Grau	Gris	GY
White	Weiß	Blanc	WH
Pink	Rosa	Rose	PK
Green/Yellow	Grün/Gelb	Vert/Jaune	GNYE
Light-	Hell-	-clair	LT-

Labelling of cables and cores (according to IEC 62491)

Note #4

Method CL

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

Methode	Beschreibung
0	Keine Kennzeichnung
A	Verwendung vorgesehener Kabel oder Adern
R	Identifikationskennzeichnung mittels Referenzbezeichnung (inkl. Kabelnummer)
CL	Kennzeichnung der lokalen Verbindung
CR	Kennzeichnung der Remote-End-Verbindung
CB	Beidseitige Anschlussbeschriftung
S	Signalbeschriftung

Méthode	Description
0	Pas d'étiquetage
A	Utilisation de câbles ou d'âmes désignés
R	Marquage d'identification au moyen d'une désignation de référence
CL	Étiquetage des connexions locales
CR	Étiquetage des connexions distantes
CB	Étiquetage des connexions aux deux extrémités
S	Étiquetage des signaux

GB All "Note #" in this document refer to non-English translations in the electrical installation instructions
 DK Alle "Note #" i dette dokument henviser til den danske oversættelse i elektriske installationsvejledningen
 DE Alle "Note #" in diesem Dokument beziehen sich auf die deutsche Übersetzung in der Elektroinstallationsanleitung
 NO Alle "Note #" i dette dokumentet refererer til den norske oversættelsen i den elektriske installasjonsveiledningen
 SE Alla "Note #" i detta dokument hänvisar till den svenska översättningen i den elektriska installationsanvisningen
 NL Alle "Note #" in dit document verwijzen naar de Nederlandse vertaling in de elektrische installatie-instructies
 FR Tous les "Note #" dans ce document se réfèrent à la traduction française du manuel d'installation électrique

Component	Location <small>Note #5</small>	GB	Standort	DE	Emplacement	FR
+A0	Customer connections		Kundenanschlüsse		Raccordements du client	
+A1	Control Panel		Schaltschrank		Tableau de commande	
+A2	Cable connections to AHU aggregate		Kabelverbindungen zum RLT-Lüftungsgerät		Raccordements de câbles à l'appareil CTA	
+A3	AHU aggregate		RLT-Lüftungsgerät		Appareil CTA	
+A4	Outside AHU aggregate		Außenseite des RLT-Lüftungsgeräts		À l'extérieur de l'appareil CTA	

Component	Object	Examples	Objekt	Beispiele	Objet	Exemples
-B	Sensing	CO2 & temperature sensors	Sensorik	CO2- und Temperatursensoren	Détection	Sondes de CO2 et de température
-E	Emitting	Electric heaters	Emission	Elektrische Heizgeräte	Émetteur	Chauffages électriques
-F	Protecting	Miniature circuit-breaker	Schutz	Miniaturlistungsschalter	Protection	Disjoncteur à maximum miniature
-G	Generating	Circulation pumps	Erzeugung	Umwälzpumpen	Générateur	Pompes de circulation
-K	Information processing	AHU Controller	Informationsverarbeitung	RLT-Lüftungsgerätesteuerung	Traitement de l'information	Cerveau de l'appareil CTA
-M	Driving	Motors	Antrieb	Motoren	Entrainement	Moteurs
-Q	Controlling	Supply disconnecting device	Steuerung	Versorgungstrennvorrichtung	Commande	Dispositif de déconnexion de l'alimentation
-R	Restricting	Valves & dampers	Drosselung	Ventile und Register	Limitation	Vannes et volets
-S	Human interaction	Touch panel	Menschliche Interaktion	Bedienfeld mit Touchscreen	Interaction humaine	Écran tactile
-T	Transforming	Power supply	Transformation	Stromversorgung	Transformation	Alimentation électrique
-U	Holding	Cabinet, wire-duct & DIN-rails	Halten	Schrank, Kabelkanal und DIN-Schienen	Maintien	Cabinet de ventilateur, gaine de câbles et rails DIN
-W	Guiding	Cables, wires & tubes	Führung	Kabel, Drähte und Rohre	Guidage	Câbles, fils & tubes
-X	Interfacing	Terminals & plugs	Schnittstellen	Klemmen und Stecker	Interface	Terminaux & bornes

(=)	Function	Funktion	Fonction
(+)	Location	Standort	Lieu
(-)	Product	Produkt	Produit
(.)	Sub name	Unterbezeichnung	Sous-titre

Principles of structures and reference designations according to ISO/IEC RDS 81346

Grundlagen von Strukturen und Referenzbezeichnungen gemäß ISO/IEC RDS 81346

Principes de structures et désignations de référence selon ISO/IEC RDS 81346

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		EC no.: -	Format: A3	Pages in total: 36	

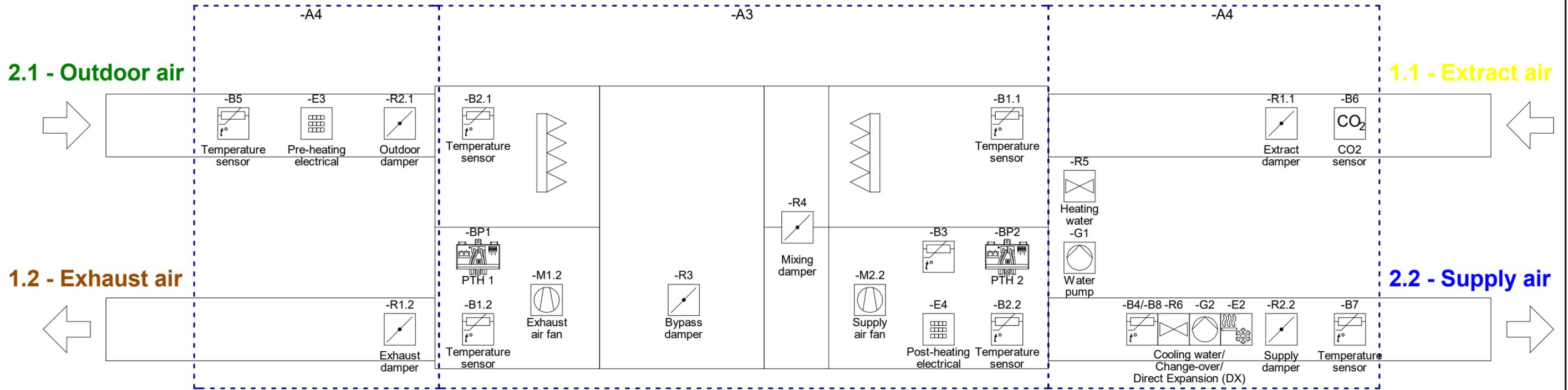
Component	Function <small>Note #6</small>	GB	Funktion	DE	Fonction	FR
-0V	Terminals for 0VDC		Anschlüsse für 0 V DC		Bornes pour 0VDC	
-24V	Terminals for 24VDC		Anschlüsse für 24 V DC		Bornes pour 24VDC	
-B1.1	Extract air temperature		Außenlufttemperatur		Température de l'air extrait	
-B1.2	Exhaust air temperature		Fortlufttemperatur		Température de l'air rejeté	
-B2.1	Outdoor air temperature		Außenlufttemperatur		Température de l'air extérieur	
-B2.2	Supply air temperature		Zulufttemperatur		Température de l'air soufflé	
-B3	Heating return water temperature sensor		Temperatursensor Heizungsrücklaufwasser		Capteur thermique de l'eau de retour du chauffage	
-B4	CO/CW return water temperature sensor		CO/CW-Rücklauf-Temperatursensor		Capteur thermique de retour CO/CW	
-B5	Outdoor air temperature sensor (Pre-heater)		Außenluft-Temperatursensor (Vorwärmgerät)		Capteur thermique d'air extérieur (préchauffage)	
-B6	CO2 sensor		CO2-Sensor		Capteur CO2	
-B7	Duct temperature sensor		Kanaltemperatursensor		Capteur de température de conduit	
-B8	CO supply water temperature sensor		CO-Vorlauf-Temperatursensor		Capteur thermique d'alimentation en CO	
-BP1	DualPTH 1		DualPTH 1		DualPTH 1	
-BP2	DualPTH 2		DualPTH 2		DualPTH 2	
-BP3	DualPTH 3		DualPTH 3		DualPTH 3	
-E1	Cabinet heater		Schaltschrankheizung		Chauffage de l'armoire	
-E2	Change over coils		Change-Over-Register		Serpentin de commutation	
-E3	Electric pre-heating		Elektrisches Vorheizen		Préchauffage électrique	
-E4	Electric post-heating		Elektrisches Nachheizen		Post-chauffage électrique	
-F1	MCB for Exhaust air fan		Miniaturleistungsschalter für Fortluftventilator		MCB pour ventilateur de rejet extérieur	
-F2	MCB for Supply air fan		Miniaturleistungsschalter für Zuluftventilator		MCB pour ventilateur d'air soufflé	
-F3	MCB for Rotor/Control systems		Miniaturleistungsschalter für Rotor-/Reglersysteme		MCB pour rotor/systèmes de régulation	
-F4	MCB for Circulation pumps		Miniaturleistungsschalter für Umwälzpumpe		MCB pour pompe de circulation	
-F5	MCB for Power analyzer		Miniaturleistungsschalter für Leistungsanalysator		MCB pour analyseur de puissance	
-F10	MCB for Electric post-heating		Miniaturleistungsschalter für Elektrisches Vorheizen		MCB pour préchauffage électrique	
-G1	Heating circulation pump		Heizungsumwälzpumpe		Pompe de circulation du chauffage	
-G2	CW/CO/DX circulation pump		CW/CO/DX-Umwälzpumpe		Pompe de circulation CW/CO/DX	
-K1	AHU Controller		Regler für RLT		Contrôleur CTA	
-K2	EXT module for Change over		EXT-Modul für Change-Over		Module EXT pour inversion	

Component	Function <small>Note #6</small>	GB	Funktion	DE	Fonction	FR
-K10	Power analyzer main power		Leistungsanalysator Hauptstromversorgung		Analyseur de puissance alimentation principale	
-K11	Power analyzer electric heater		Leistungsanalysator elektrische Heizung		Analyseur de puissance de chauffage électrique	
-M1.2	Exhaust air fan		Fortluftventilator		Ventilateur d'évacuation de l'air	
-M2.2	Supply air fan		Zuluftventilator		Ventilateur d'air soufflé	
-M3	Rotor		Rotor		Rotor	
-Q1	Supply disconnecting device		Versorgungstrennvorrichtung		Dispositif de coupure de l'alimentation	
-R1.1	Extract air damper		Abluftregister		Volet d'air extrait	
-R1.2	Exhaust air damper		Fortluftregister		Volet d'air rejeté	
-R2.1	Outdoor air damper		Außenluftregister		Volet d'air extérieur	
-R2.2	Supply air damper		Zuluftregister		Volet d'air soufflé	
-R3	Bypass damper		Bypassregister		Volet de dérivation	
-R4	Mixing air damper		Mischluftregister		Volets d'air de recirculation	
-R5	Valve HW		Ventil HW		Vanne HW	
-R6	Valve CW		Ventil CW		Vanne CW	
-R7	Valve CO/DX		Ventil CO/DX		Vanne CO/DX	
-S1	Touch panel		Bedienfeld mit Touchscreen		Écran tactile	
-S2	CO system alarm		CO-Systemalarm		Système d'alarme CO	
-S3	DX control Heat pump		DX-Steuerung Wärmepumpe		Pompe à chaleur à régulation DX	
-T1	Power supply 230VAC/24VDC		Stromversorgung 230 V AC/24 V DC		Alimentation 230 V CA/24 V CC	
-T10	Current transformer main power		Stromtransformator Hauptstromversorgung		Transformateur de courant alimentation principale	
-T11	Current transformer electric heater		Stromtransformator für elektrische Heizung		Transformateur de courant chauffage électrique	
-X1.1	Aggregate power terminals		Klemmen für Gerätestrom		Bornes de puissance agrégées	
-X1.2	Aggregate signal terminals		Klemmen für Gerätesignal		Bornes de signal agrégées	
-X1.3	Modbus splitter 9 x Molex		Modbus-Splitter 9 x Molex		Répartiteur Modbus 9 x Molex	
-X1	Aggregate power & signal terminals		Klemmen für Gerätestrom und -signal		Bornes d'alimentation et de signal agrégées	
-X2	Air dampers terminals		Klemmen für Luftklappen		Bornes des volets d'air	
-X3	Pre-HE signal terminals		Vor-HE-Signalklemmen		Bornes de signal de pré-CH	
-X4	Post-HE power terminals		Post-HE Stromklemmen		Bornes d'alimentation de post-CH	
-X5	HW - Power & signal terminals		HW – Strom- und Signalklemmen		HW – Bornes d'alimentation et de signal	

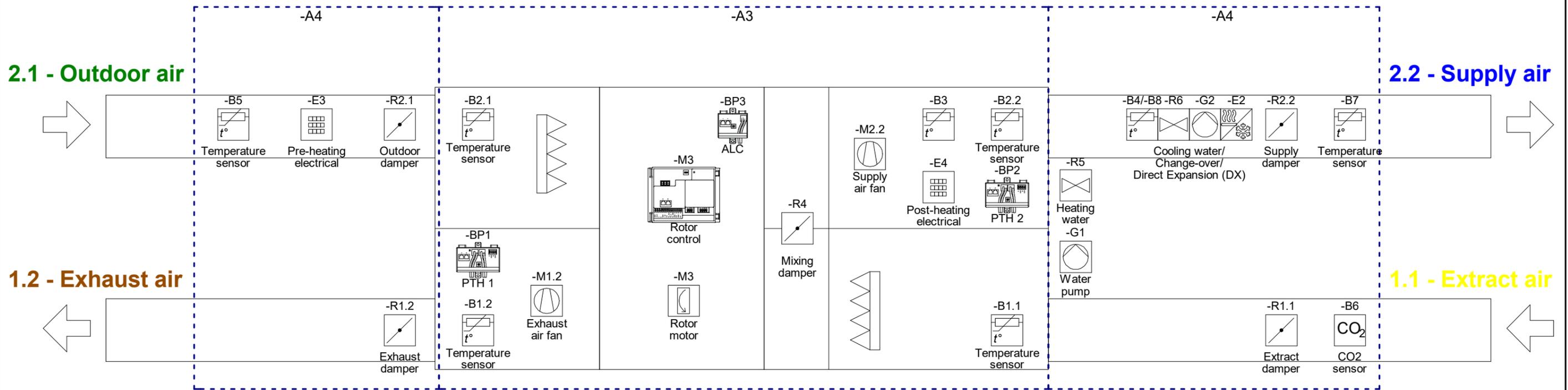
Principles

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COUNTER-FLOW



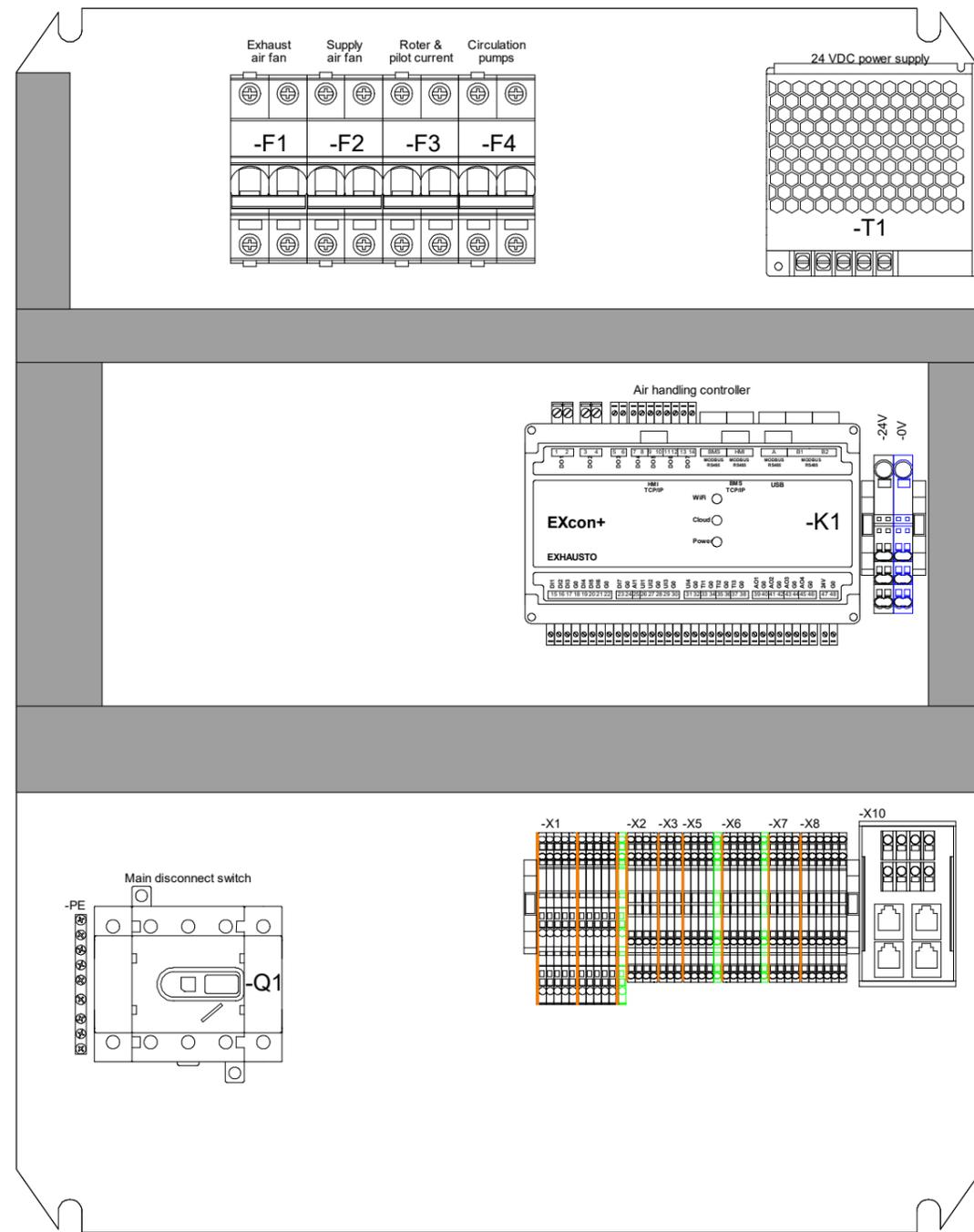
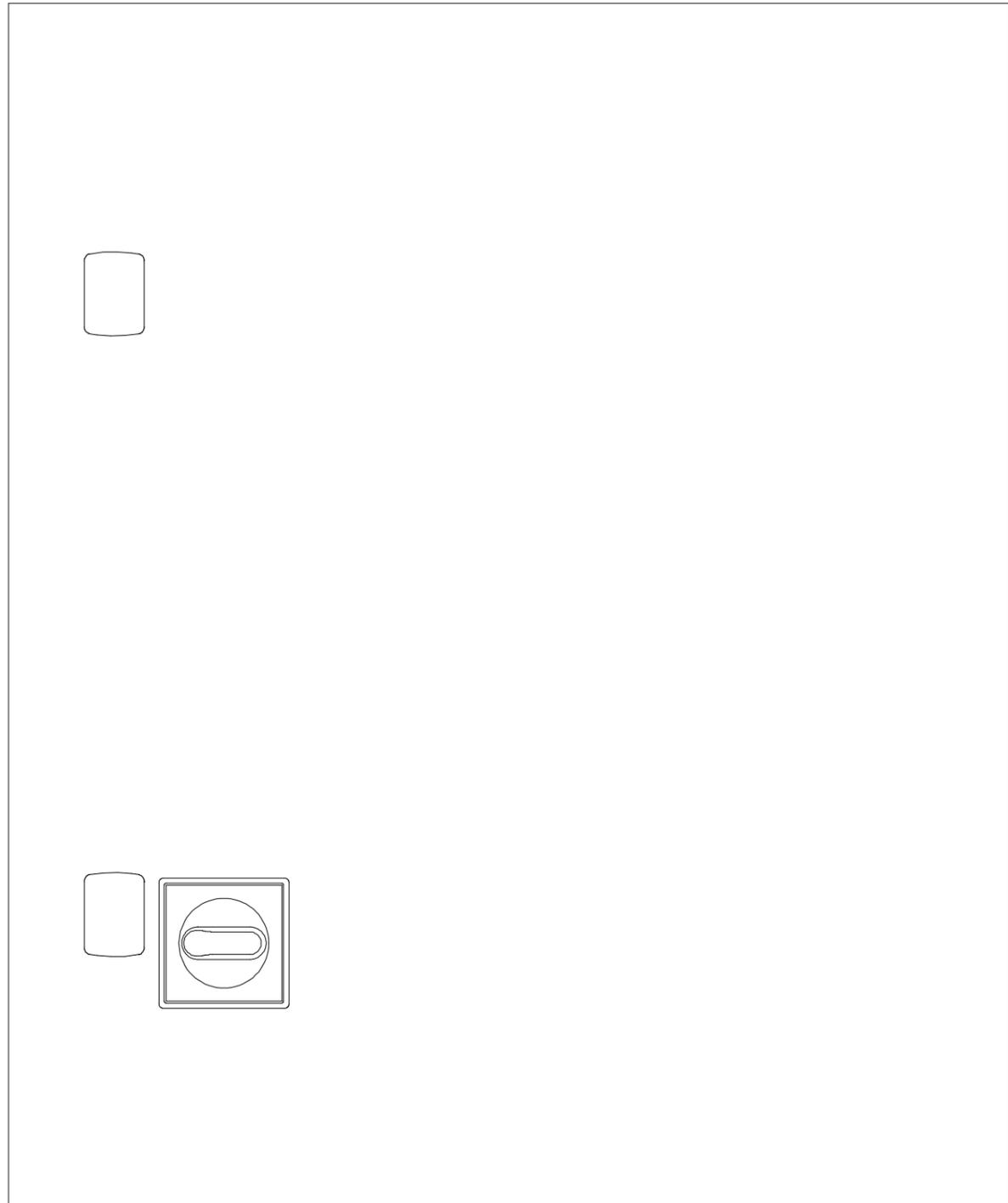
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	Project:	VEX1000 - Customized (230V)	Start date:	17-06-2024	Constructor:	DKTSA	Page:	9
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Arrangement drawings

aldes EXHAUSTO	Project: VEX1000 - Customized (230V)	Start date: 17-06-2024	Constructor: DKTSA	Page: Arrangement	
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Supplementary selections

Option 1: Power supply Electric heater

- F10 Circuit breaker 4P
- X4 Wire terminals

Option 2: Power analyser Main power

- K10 Three-phase power analyser
- T10 Three-phase current transformers 125A
- F5 Circuit breaker 4P C2A

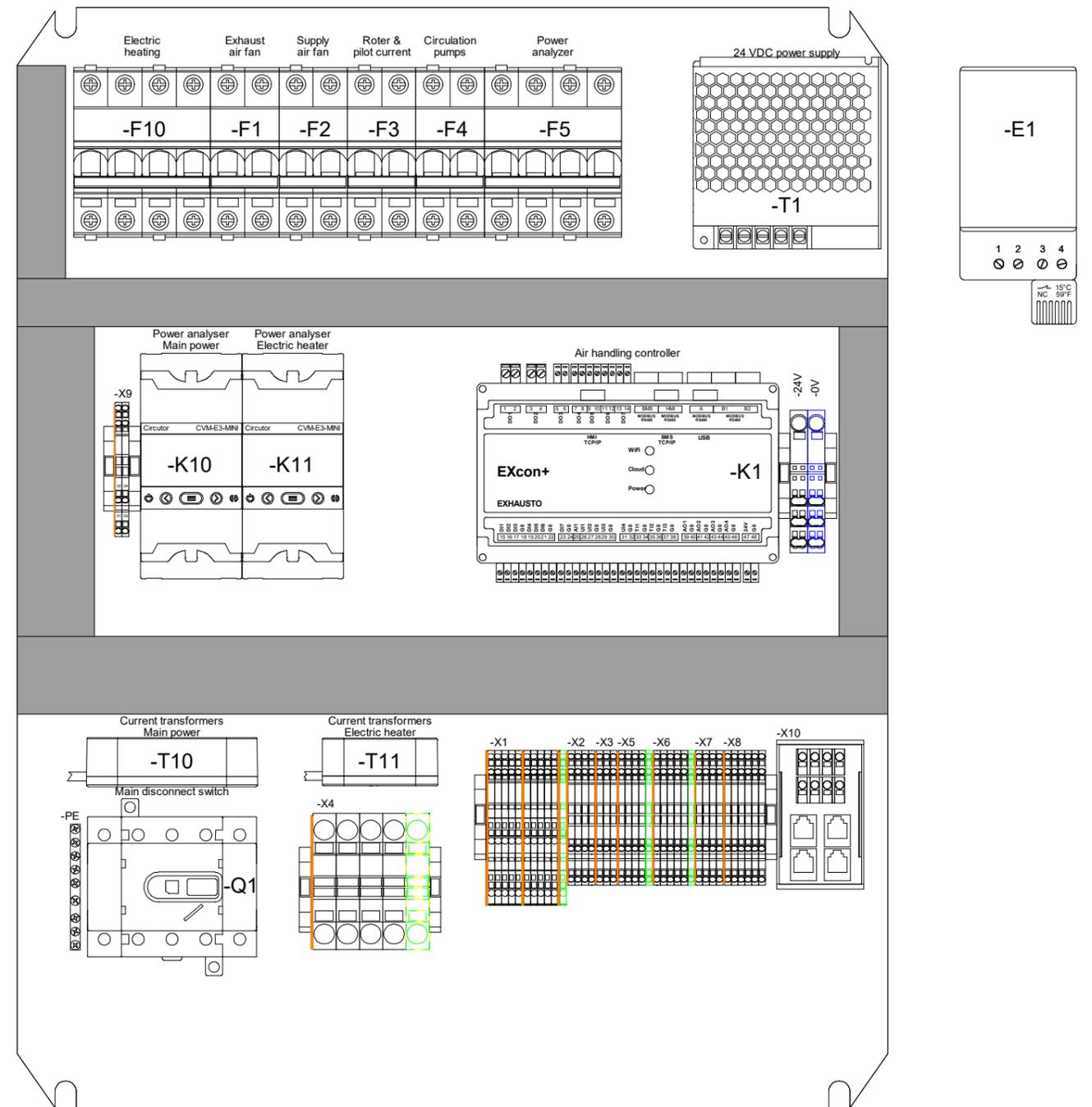
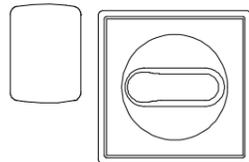
Option 3: Power analyser Electric heater

- K11 Three-phase power analyser
- T11 Three-phase current transformers 63A

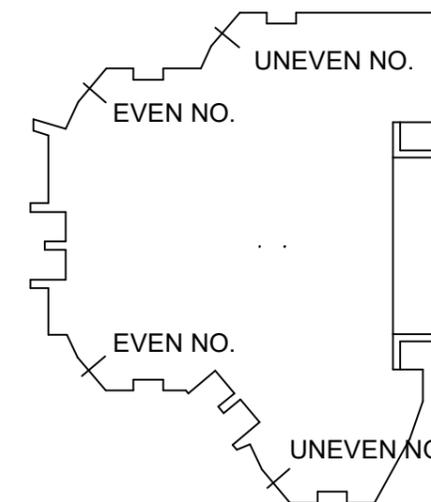
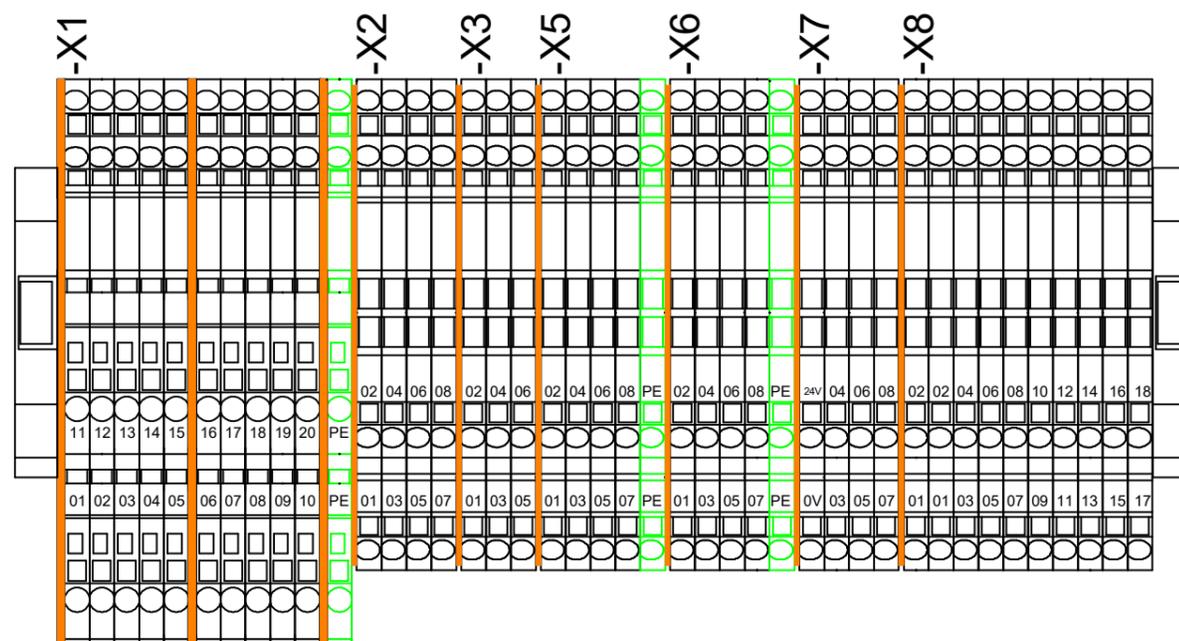
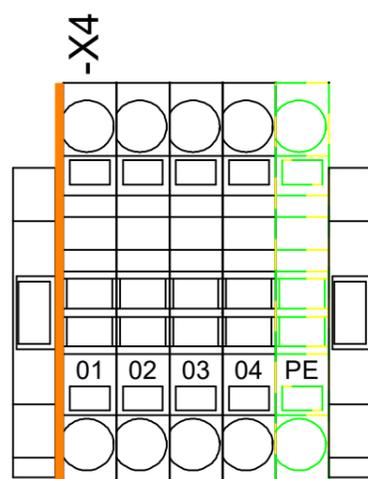
Option 3 is not selectable without option 1 and 2.

Option 4: Control panel heater

- E1 Control panel heater



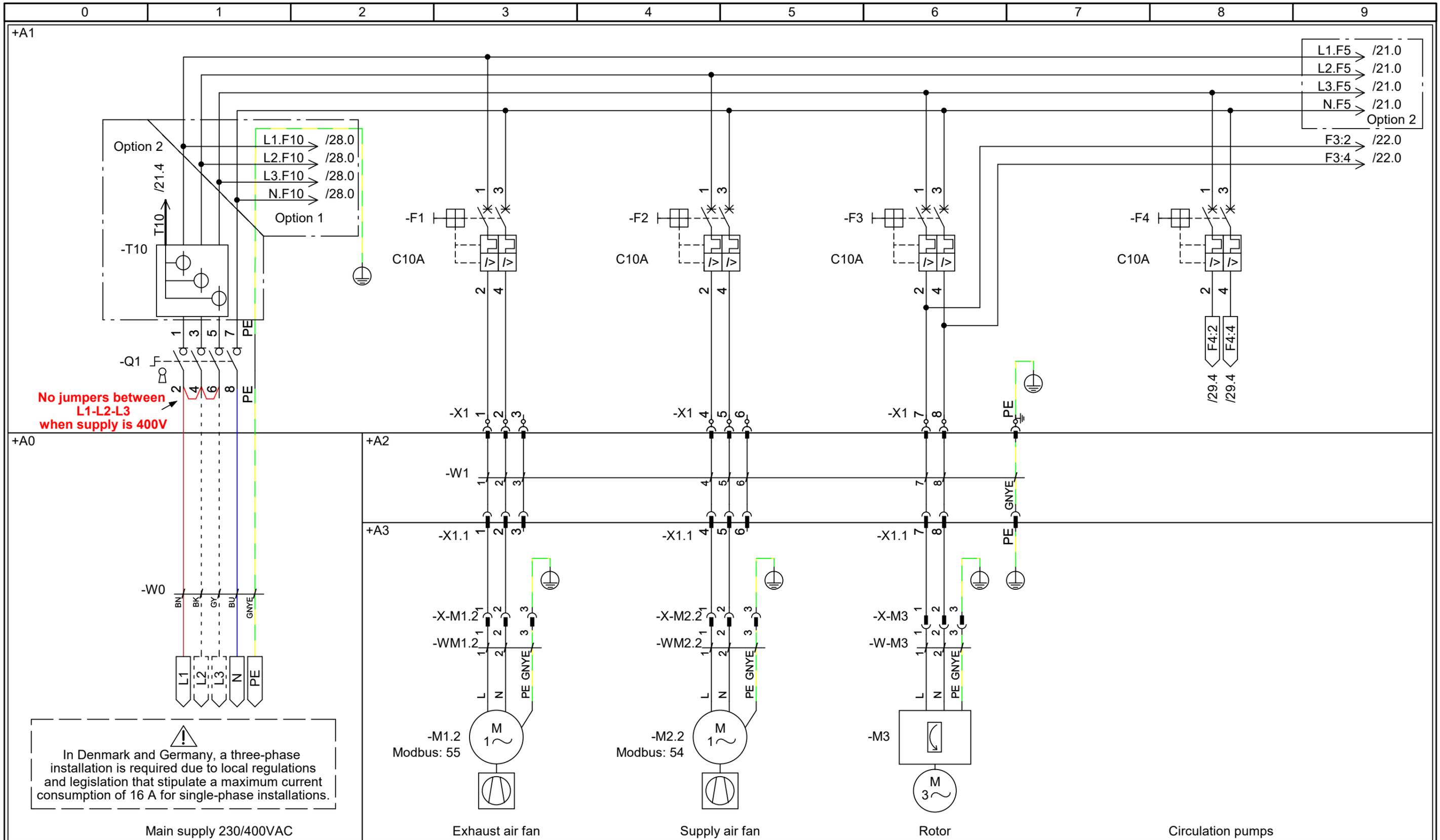
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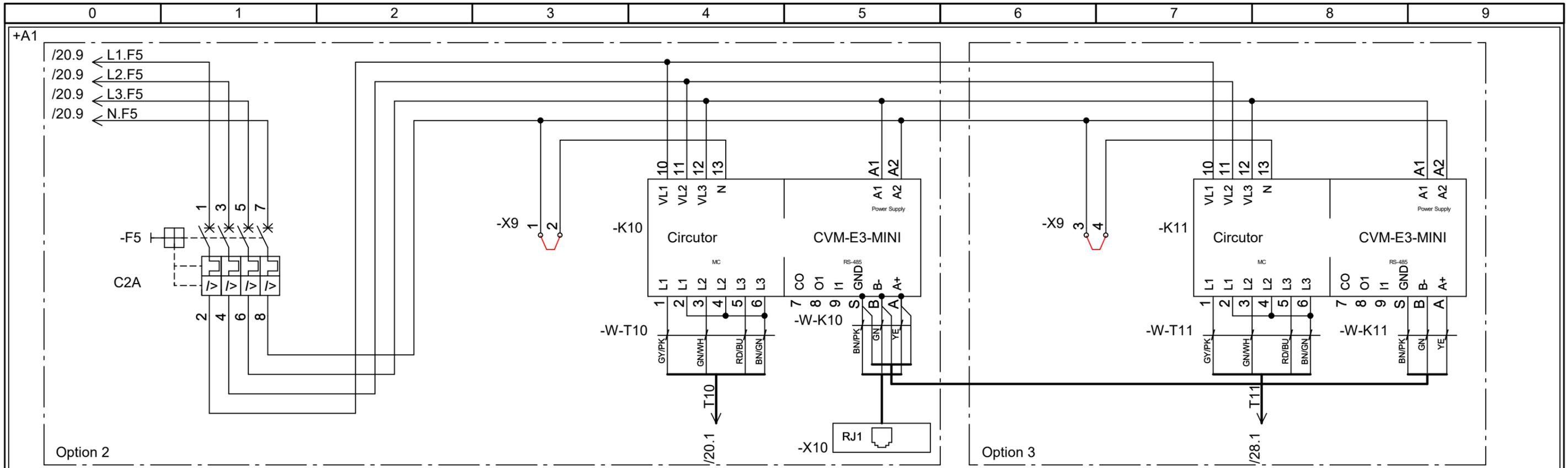
-X1:01 -M1.2 Exhaust air fan	L1	-X2:01 -R1.1 Extract air damper	0V	-X5:01 -R1 Valve HW	0V	-X7:01 -B5 Pre-heater temperature sensor	-
-X1:02 -M1.2 Exhaust air fan	L2	-X2:03 -R1.1 Extract air damper	24V	-X5:02 -R1 Valve HW	24V	-X7:02 -B5 Pre-heater temperature sensor	-
-X1:03 -M1.2 Exhaust air fan	L3	-X2:05 -R1.1 Extract air damper	B-	-X5:03 -R1 Valve HW	Signal	-X7:03 -B6 CO2 sensor	GND
-X1:04 -M2.2 Supply air fan	L1	-X2:07 -R1.1 Extract air damper	A+	-X5:04 -R1 Valve HW	Not used	-X7:04 -B6 CO2 sensor	OUT
-X1:05 -M2.2 Supply air fan	L2	-X2:02 -R2.2 Supply air damper	0V	-X5:05 -G1 HW circulation pump	NC	-X7:05 -B6 CO2 sensor	+VCC
-X1:06 -M2.2 Supply air fan	L3	-X2:04 -R2.2 Supply air damper	24V	-X5:06 -G1 HW circulation pump	COM	-X7:06 -	Spare terminal
-X1:07 -M3 Rotor	L	-X2:06 -R2.2 Supply air damper	B-	-X5:07 -G1 HW circulation pump	L	-X7:07 -B7 Duct temperature sensor	-
-X1:08 -M3 Rotor	N	-X2:08 -R2.2 Supply air damper	A+	-X5:08 -G1 HW circulation pump	N	-X7:08 -B7 Duct temperature sensor	-
-X1:09 -MB Modbus	0V			-X5:PE -G1 HW circulation pump	PE		
-X1:10 -MB Modbus	24V	-X3:01 -E3 Electric pre-heating	0-10V			-X8:0V Customer connections	24V power supply
-X1:11 -MB Modbus	B-	-X3:02 -E3 Electric pre-heating	GND	-X6:01 -R2 Valve CW/CO	0V	-X8:24V Customer connections	24V power supply
-X1:12 -MB Modbus	A+	-X3:03 -E3 Electric pre-heating	Fire	-X6:02 -R2 Valve CW/CO	24V	-X8:01 Customer connections	Fire alarm input
-X1:13 -E4 Electric post-heating	0-10V	-X3:04 -E3 Electric pre-heating	Fail	-X6:03 -R2 Valve CW/CO	Signal	-X8:02 Customer connections	Fire alarm input
-X1:14 -E4 Electric post-heating	GND	-X3:05 -E3 Electric pre-heating	Run OK	-X6:04 -R2 Valve CW/CO	Not used	-X8:03 Customer connections	Option input 1
-X1:15 -E4 Electric post-heating	Fire	-X3:06 -E3 Electric pre-heating	Run OK	-X6:05 -G2 CW/CO circulation pump	NC	-X8:04 Customer connections	Option input 1
-X1:16 -E4 Electric post-heating	Fail			-X6:06 -G2 CW/CO circulation pump	COM	-X8:05 Customer connections	Option input 2
-X1:17 -E4 Electric post-heating	Run OK	-X4:01 -E4 PWR Electric heating	L1	-X6:07 -G2 CW/CO circulation pump	L	-X8:06 Customer connections	Option input 2
-X1:18 -E4 Electric post-heating	Run OK	-X4:02 -E4 PWR Electric heating	L2	-X6:08 -G2 CW/CO circulation pump	N	-X8:07 Customer connections	Option input 3
-X1:19 -B3 Temperature sensor	-	-X4:03 -E4 PWR Electric heating	L3	-X6:PE -G2 CW/CO circulation pump	PE	-X8:08 Customer connections	Option input 3
-X1:20 -B3 Temperature sensor	-	-X4:04 -E4 PWR Electric heating	N			-X8:09 Customer connections	Option input 4
-X1:PE -PE Protective Earth	PE	-X4:PE -E4 PWR Electric heating	PE			-X8:10 Customer connections	Option input 4
						-X8:11 Customer connections	A alarm output
						-X8:12 Customer connections	A alarm output
						-X8:13 Customer connections	Option output 1
						-X8:14 Customer connections	Option output 1
						-X8:15 Customer connections	Option output 2
						-X8:16 Customer connections	Option output 2
						-X8:17 Customer connections	BMS - RS485
						-X8:18 Customer connections	BMS - RS485

Circuit diagrams

aldes EXHAUSTO	Project: VEX1000 - Customized (230V)	Start date: 17-06-2024	Constructor: DKTSA	Page: Circuit diagrams	
		Revision date: 15-11-2024	Approved by: DKBP	Previous page: 12	
Drawing number: 2028066	Revision: A	Page Title: Circuit diagrams	Replaces: -	Scale: 1:1	Next page: 20
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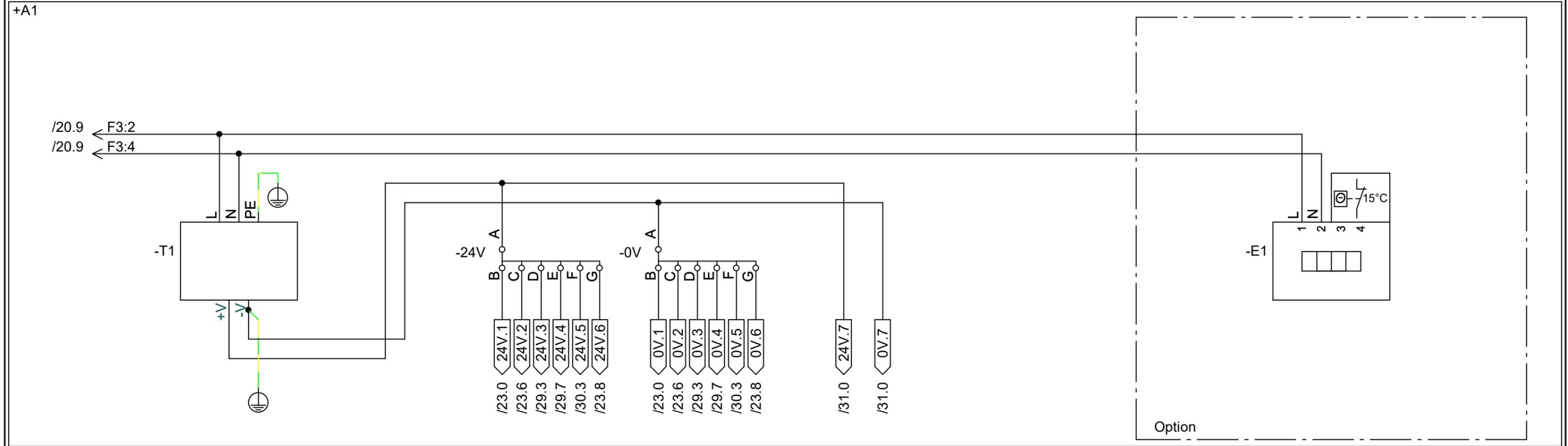


24VDC supply

Power analyzer main power

Power analyzer electric heater

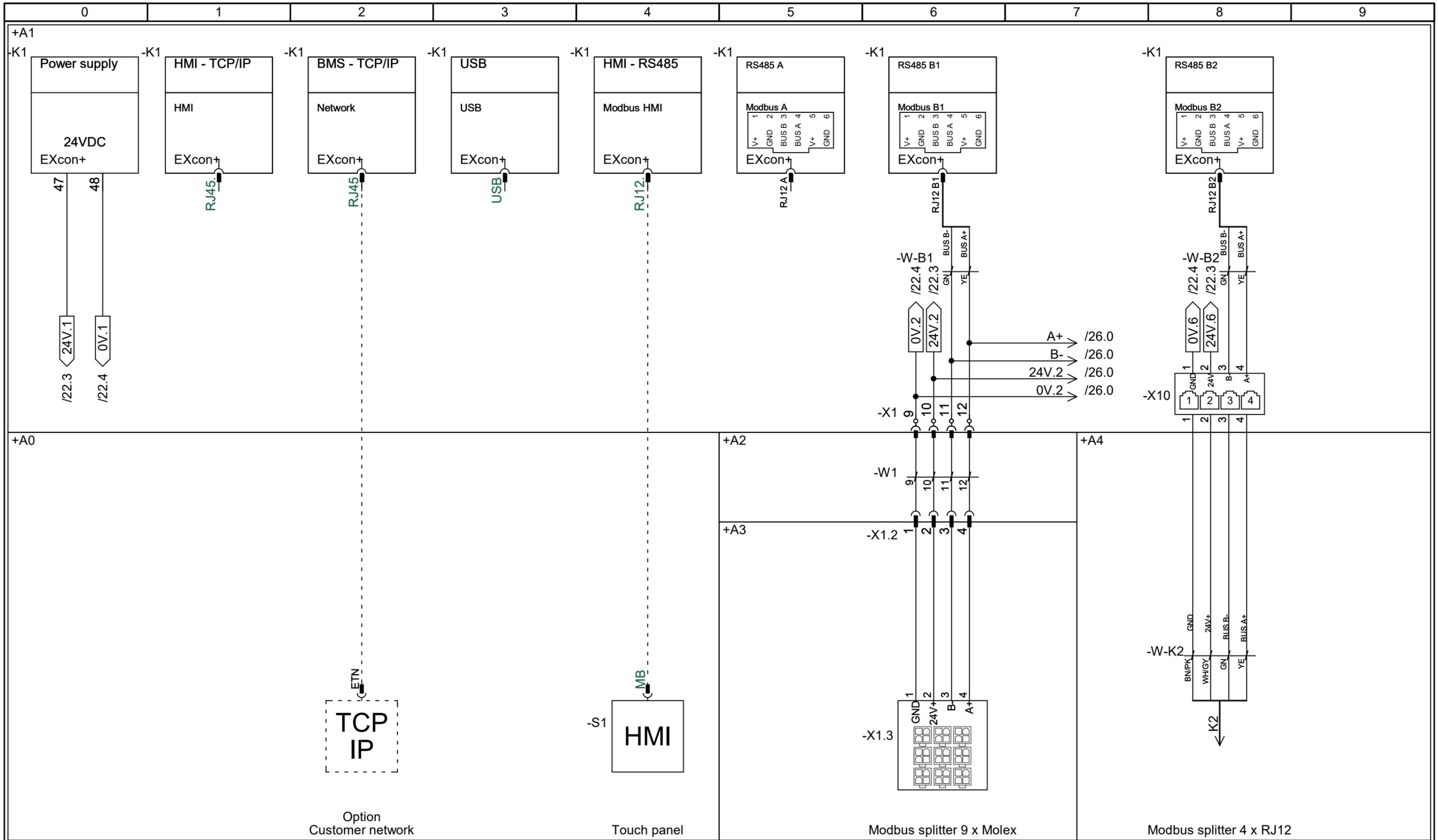
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24VDC supply

Control panel heater

aldes EXHAUSTO	Project: VEX1000 - Customized (230V)	Start date:	17-06-2024	Constructor:	DKTSA	Page:	22
		Revision date:	15-11-2024	Approved by:	DKBP	Previous page:	21
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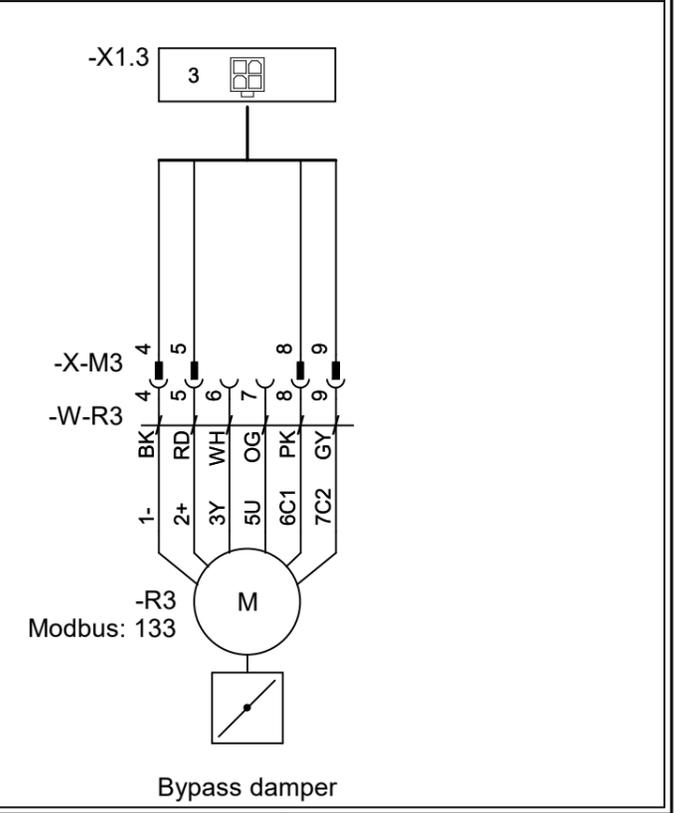
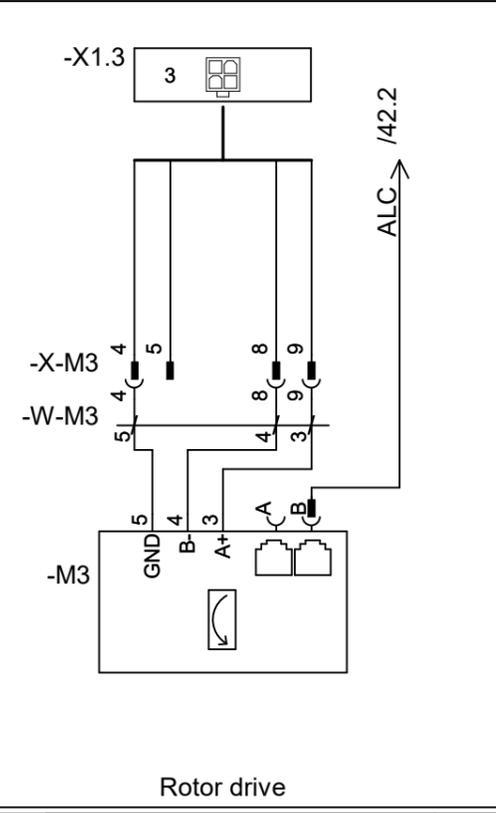
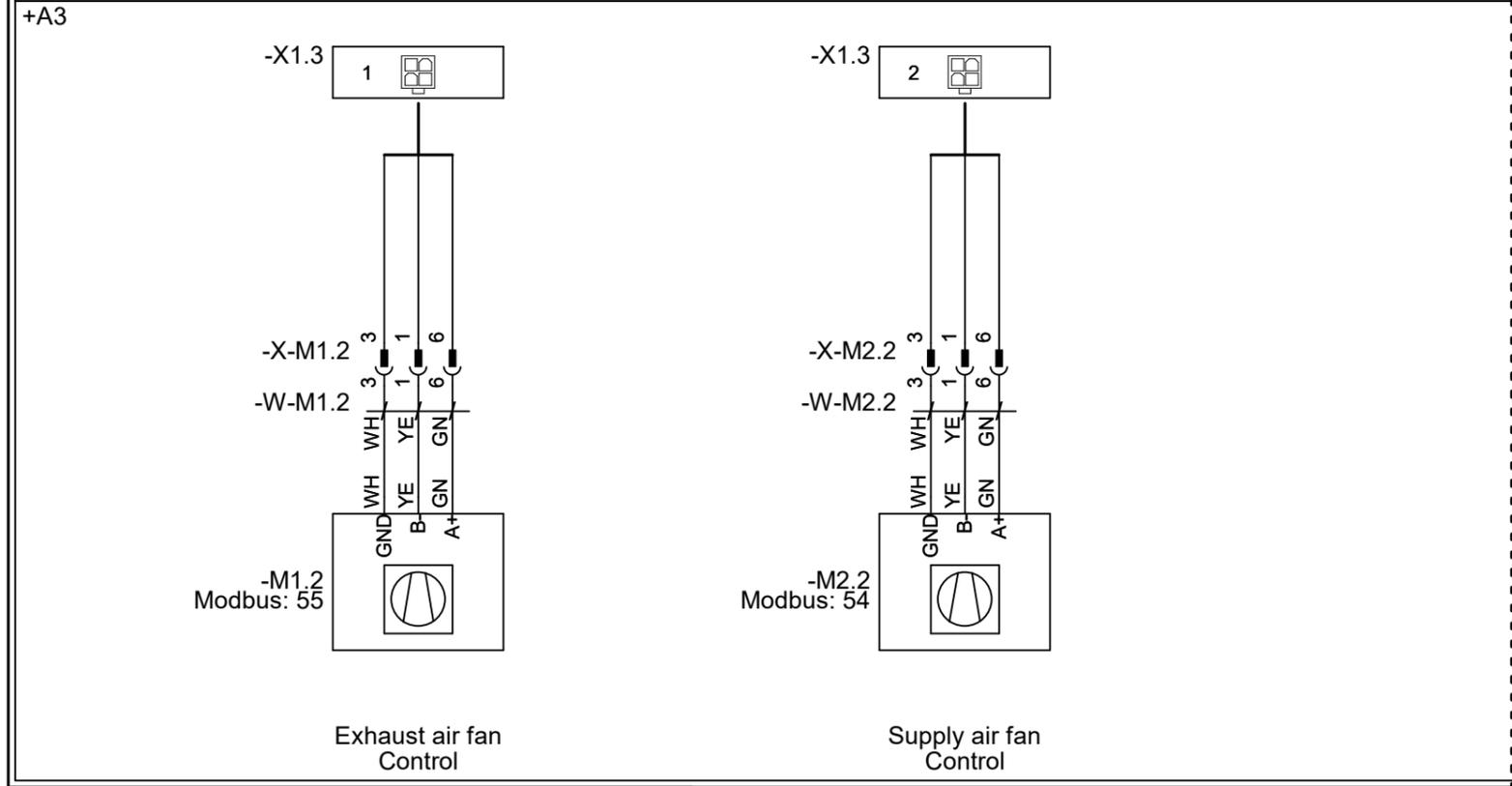


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2028066	A	Standard - Modbus connections	EC no.:	-	Format:	A3	Pages in total:	36

+A1

Rotor drive option

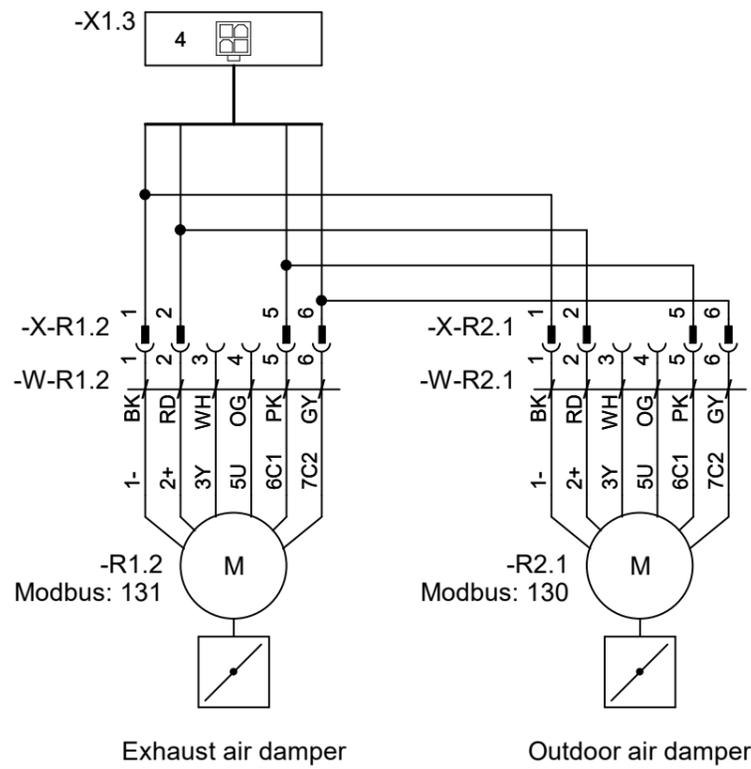
Counter-flow option



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Drawing number: 2028066	Revision: A	Page Title: Standard - Fan & Rotor/Bypass controls	Replaces: -	Scale: 1:1	Next page: 25
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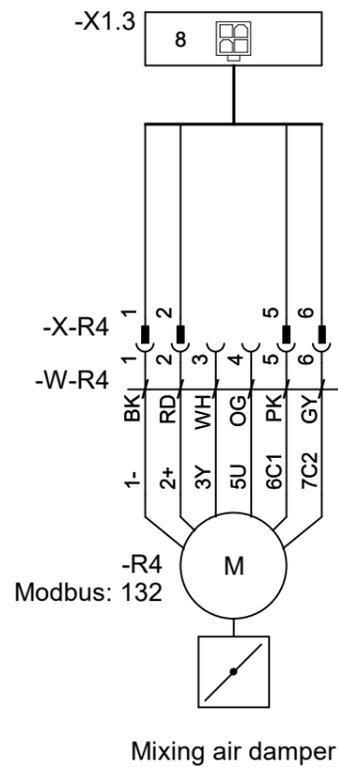
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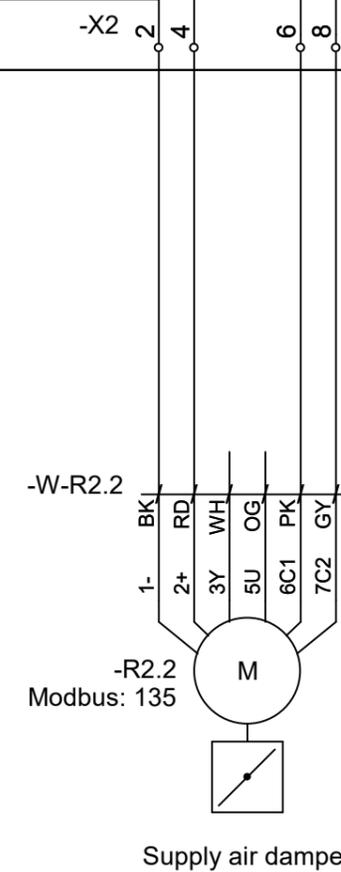
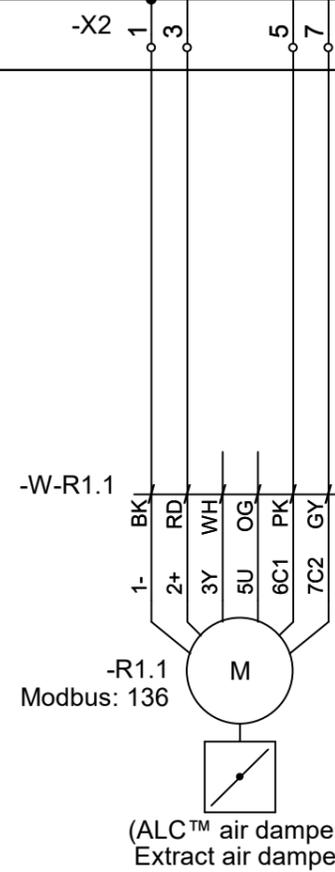
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/23.7 ← A+
 /23.7 ← B-
 /23.7 ← 24V.2
 /23.7 ← 0V.2

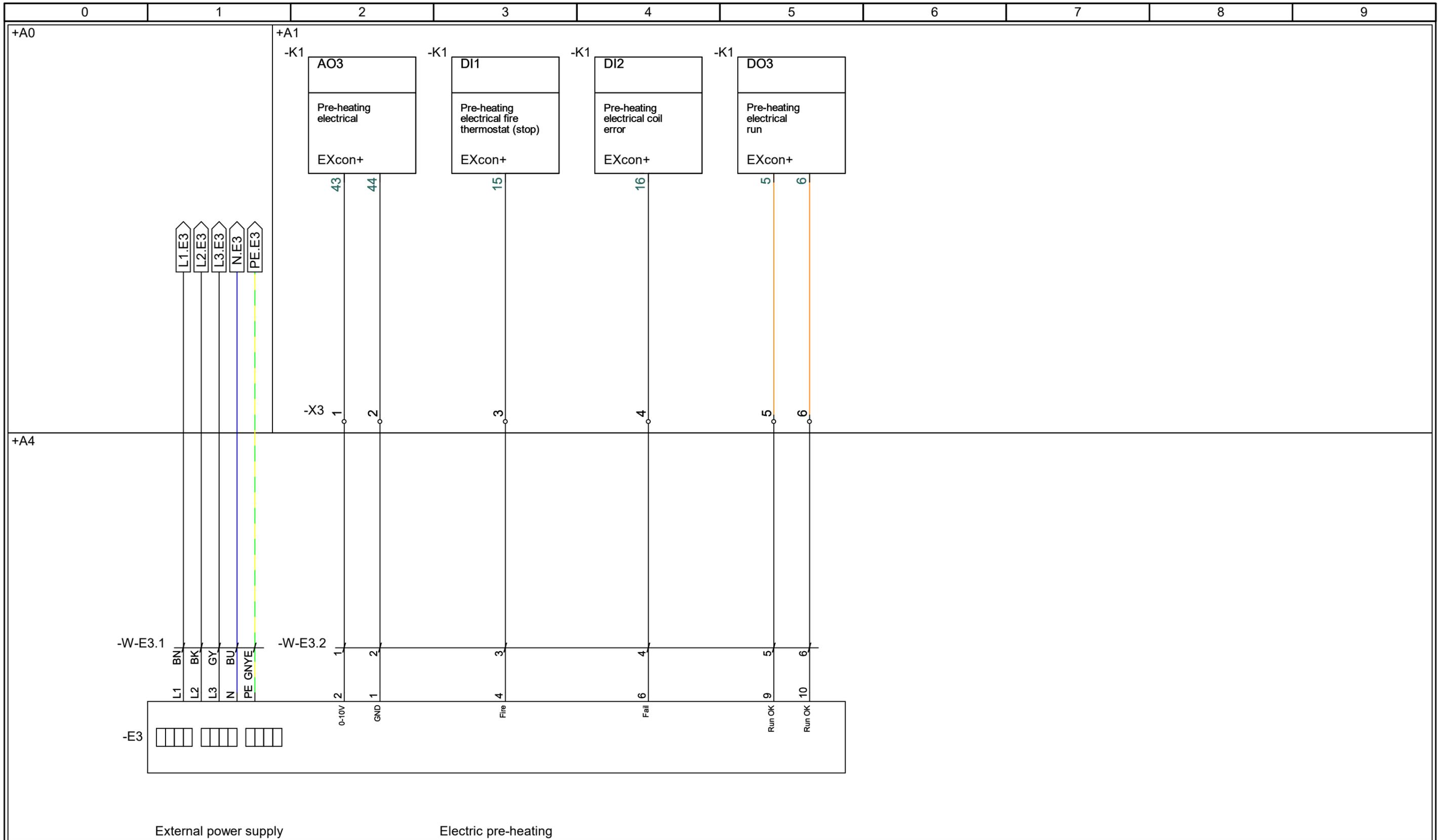
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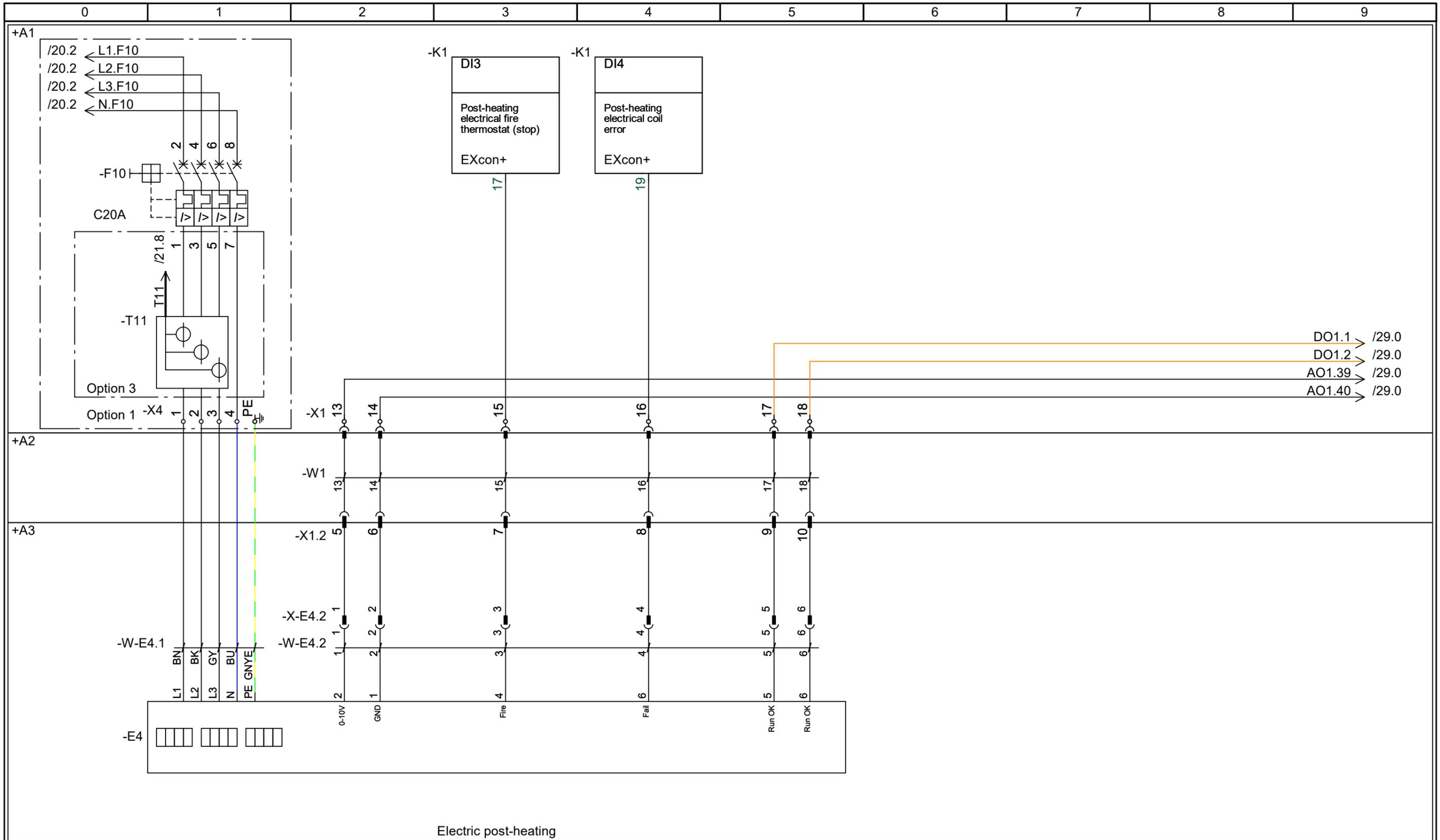
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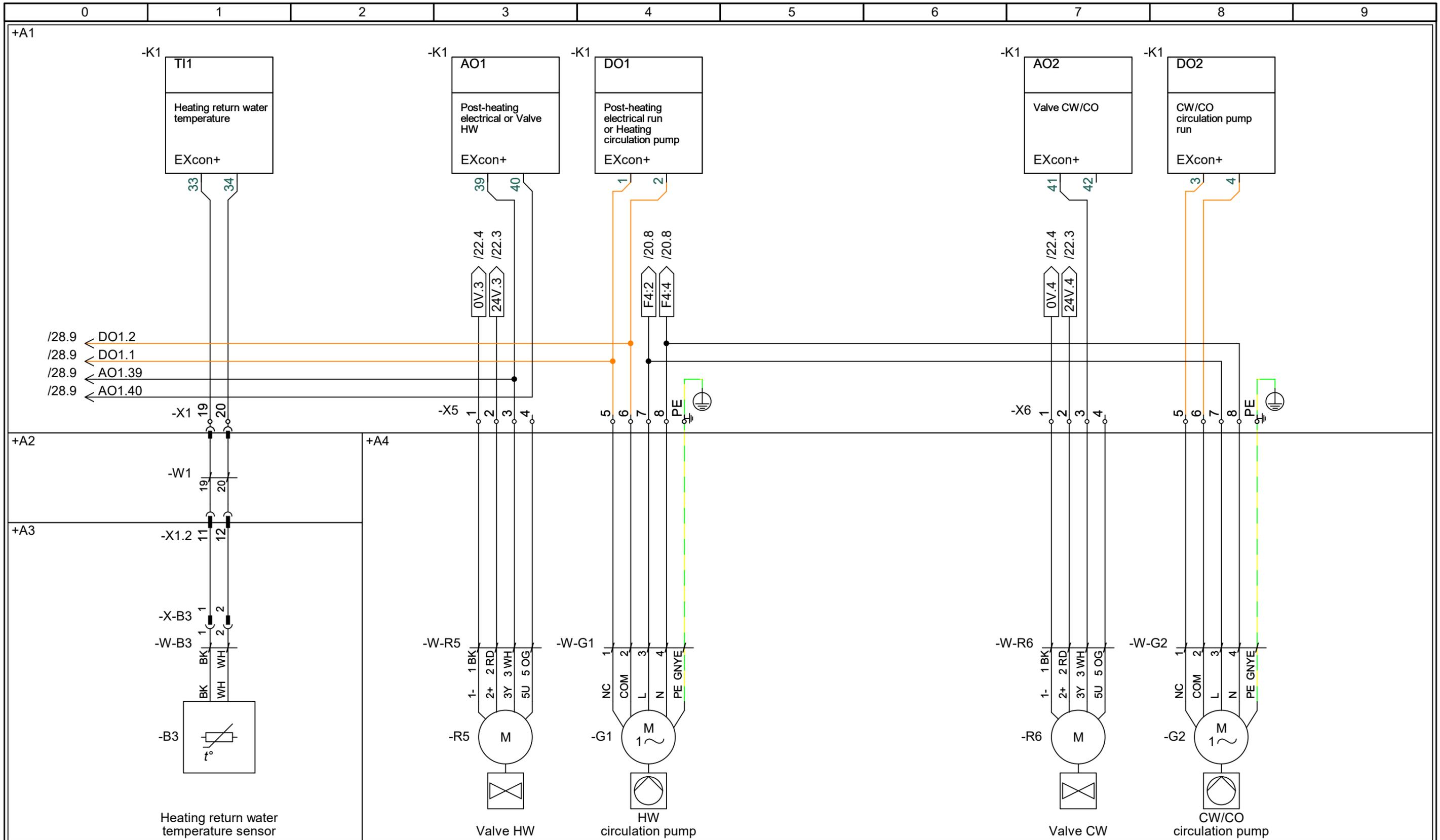


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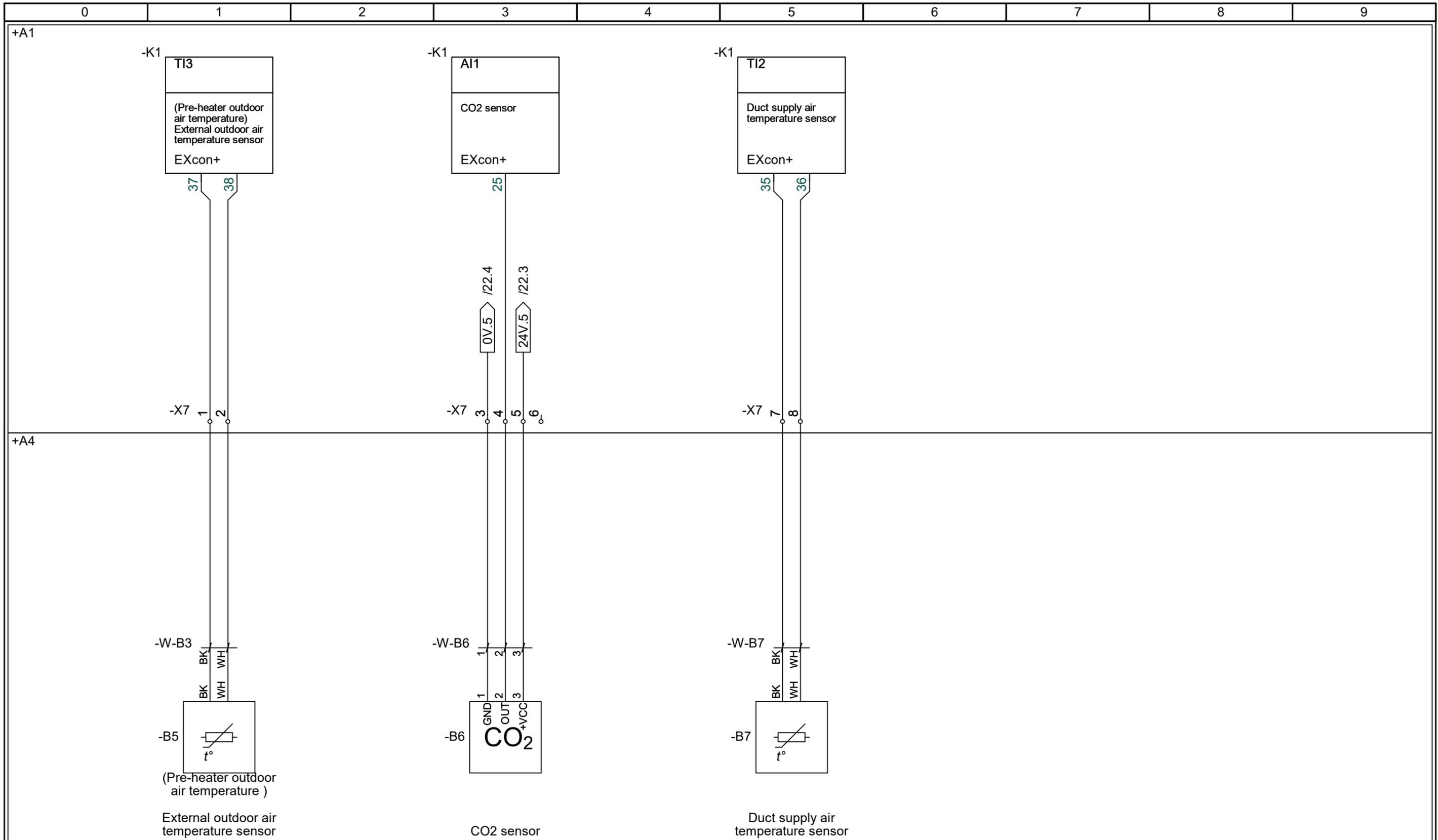


Electric post-heating

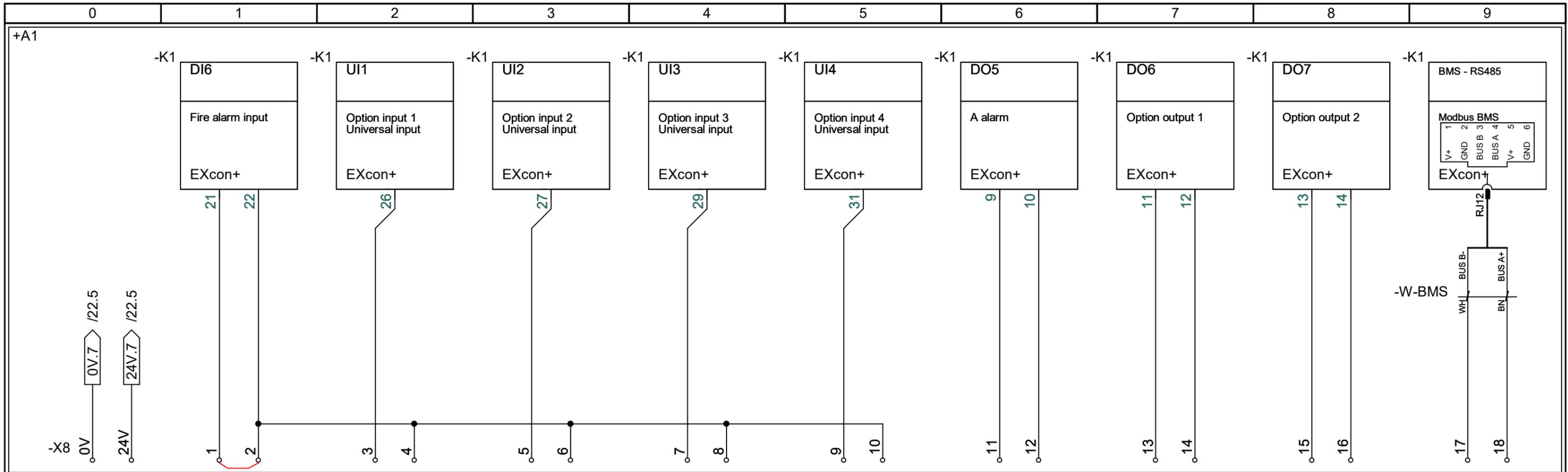
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	Drawing number: 2028066	Revision: A	Page Title: Options- HW/CW/CO controls	
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aldes EXHAUSTO Drawing number: 2028066	Revision: A	Project: VEX1000 - Customized (230V)	Start date: 17-06-2024 Revision date: 15-11-2024	Constructor: DKTSA Approved by: DKBP	Page: 30 Previous page: 29
		Page Title: Options- Temperature & CO2 sensors	Replaces: - EC no.: -	Scale: 1:1 Format: A3	Next page: 31 Pages in total: 36



+A0 Remove jumper when connecting to external systems

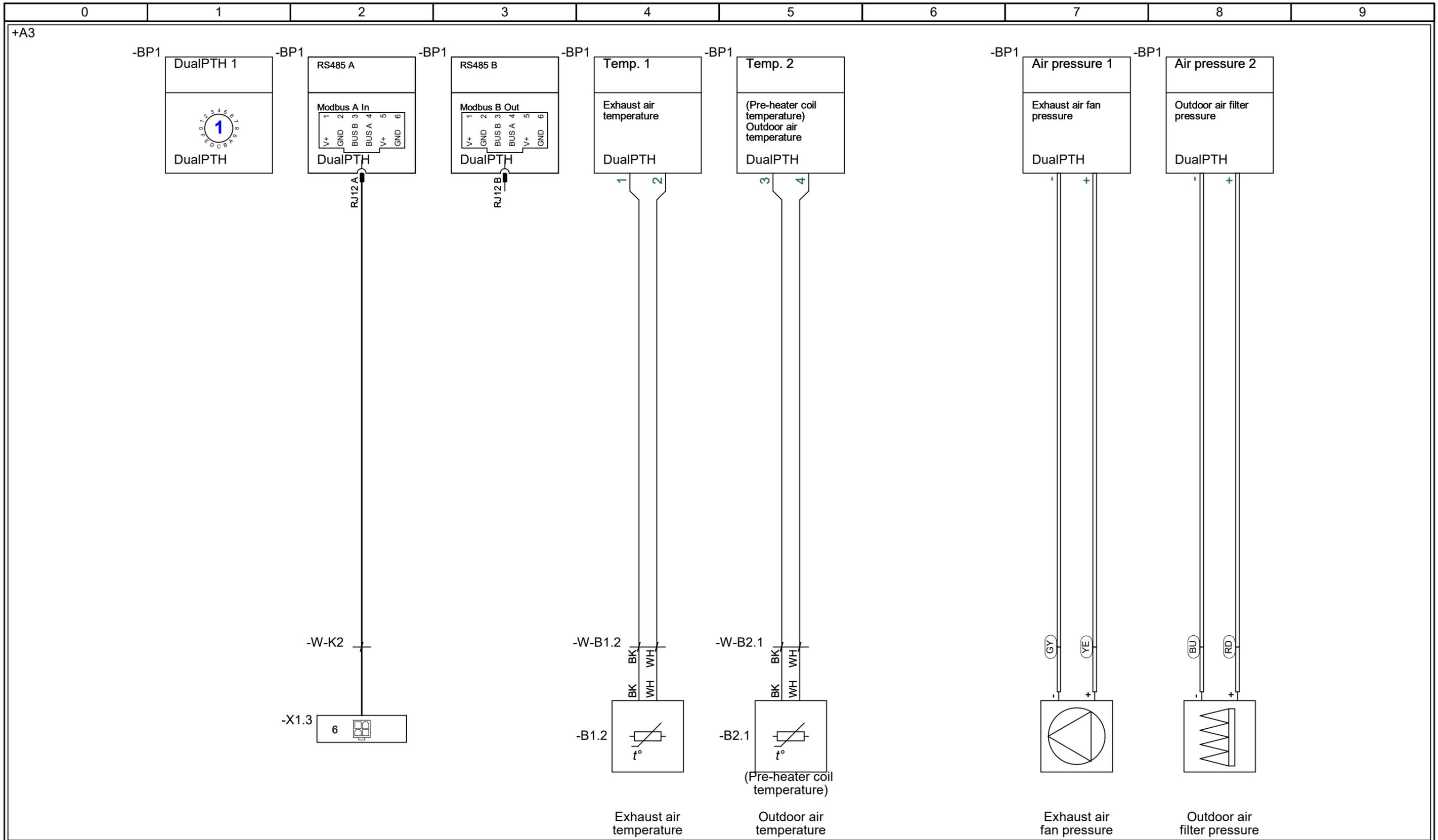
IO	Default setting	Comment
Digital input 6	Fire alarm	Mandatory
Universal input 1 - Option 1	External High Speed mode	-
Universal input 2 - Option 2	External Medium Speed mode	Can change depending on the coil configuration
Universal input 3 - Option 3	External Low Speed mode	Can change depending on the coil configuration
Universal input 4 - Option 4	External resetting of alarms	Can change depending on the coil configuration
Digital output 5	"A" alarm	Mandatory
Digital output 6 - Option 1	User relay	-
Digital output 7 - Option 2	Operating relay	-

For further information on connecting accessories, see document 3006851

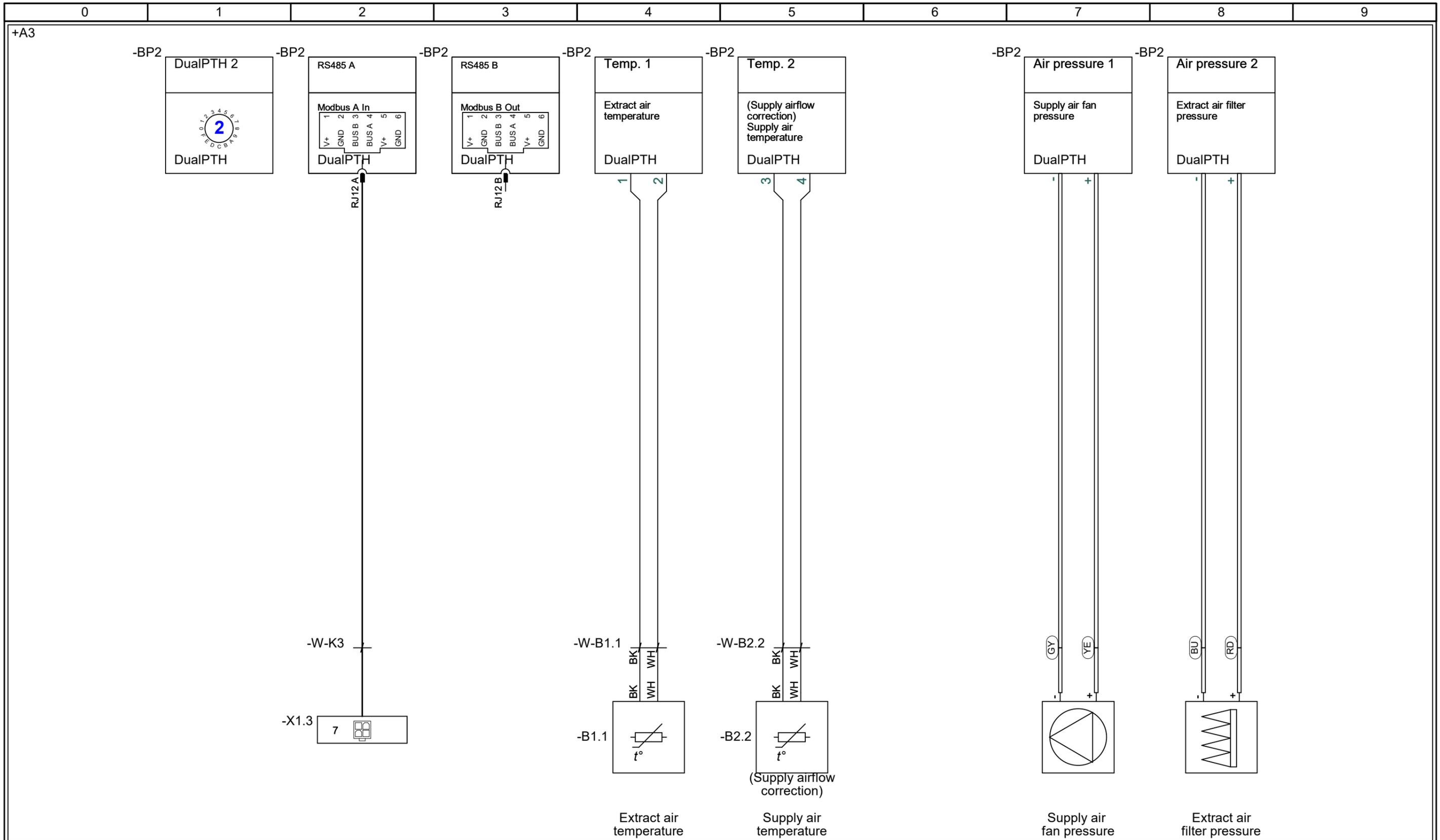
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Pressure & temperature transmitters

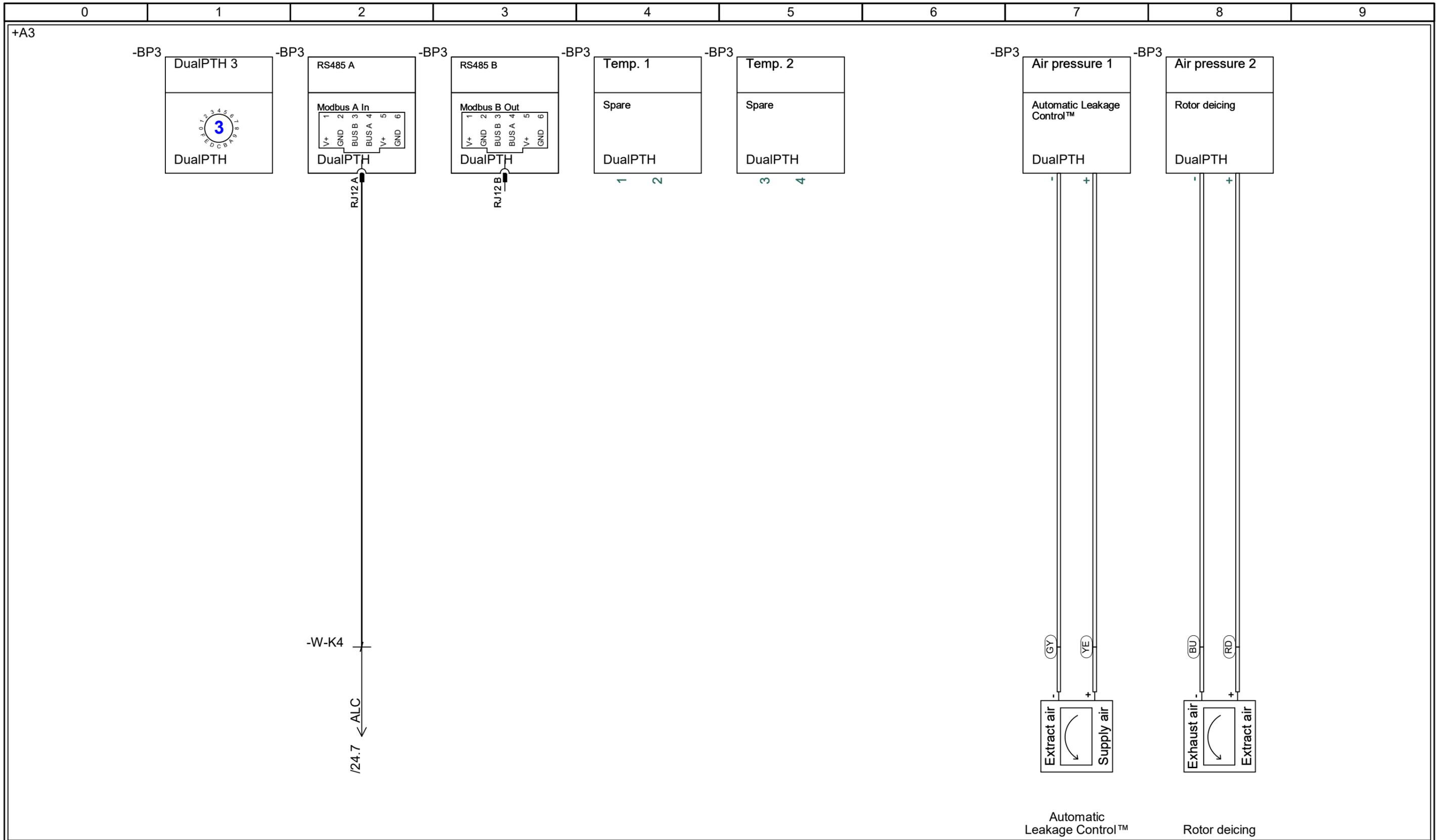
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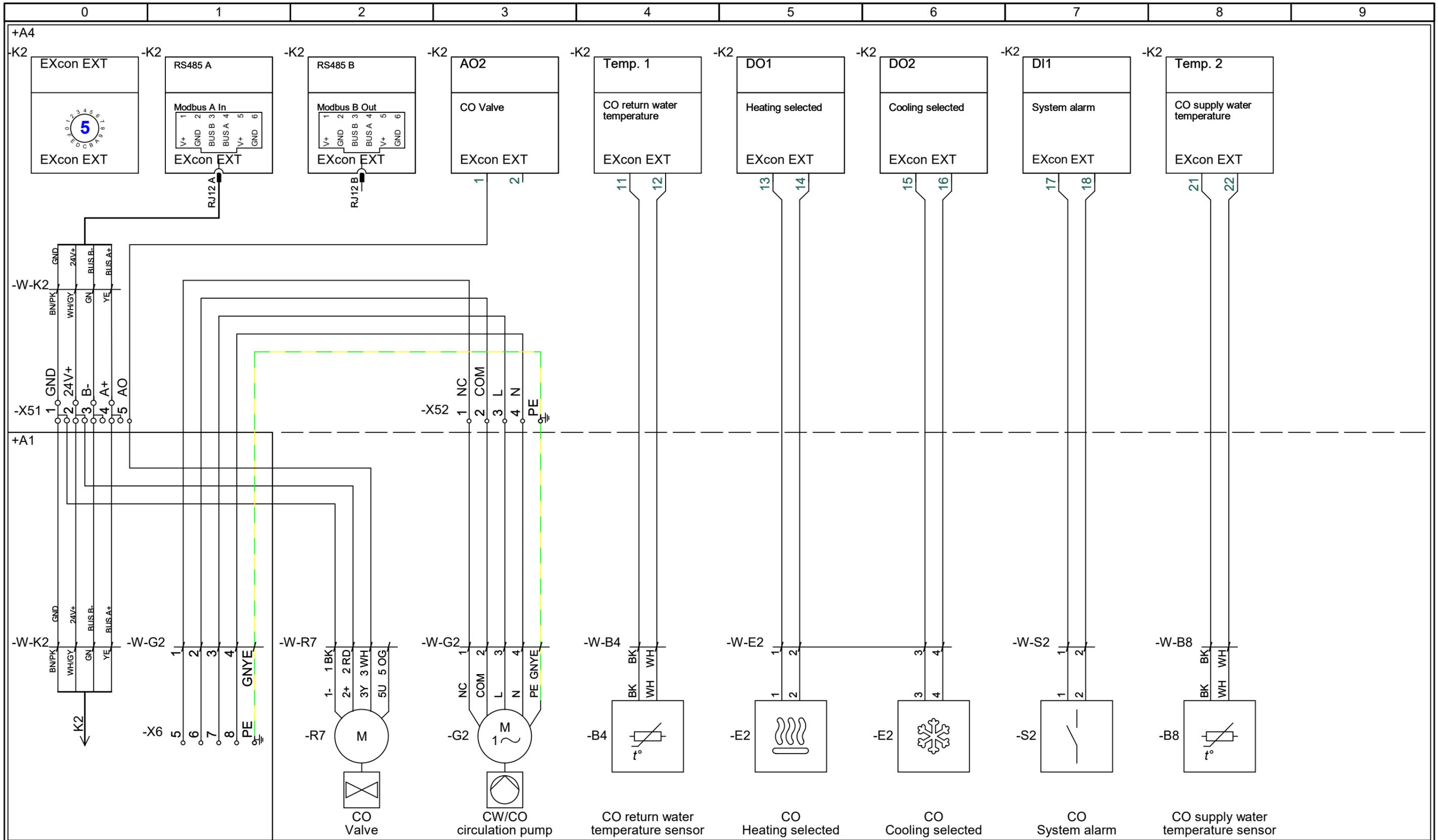
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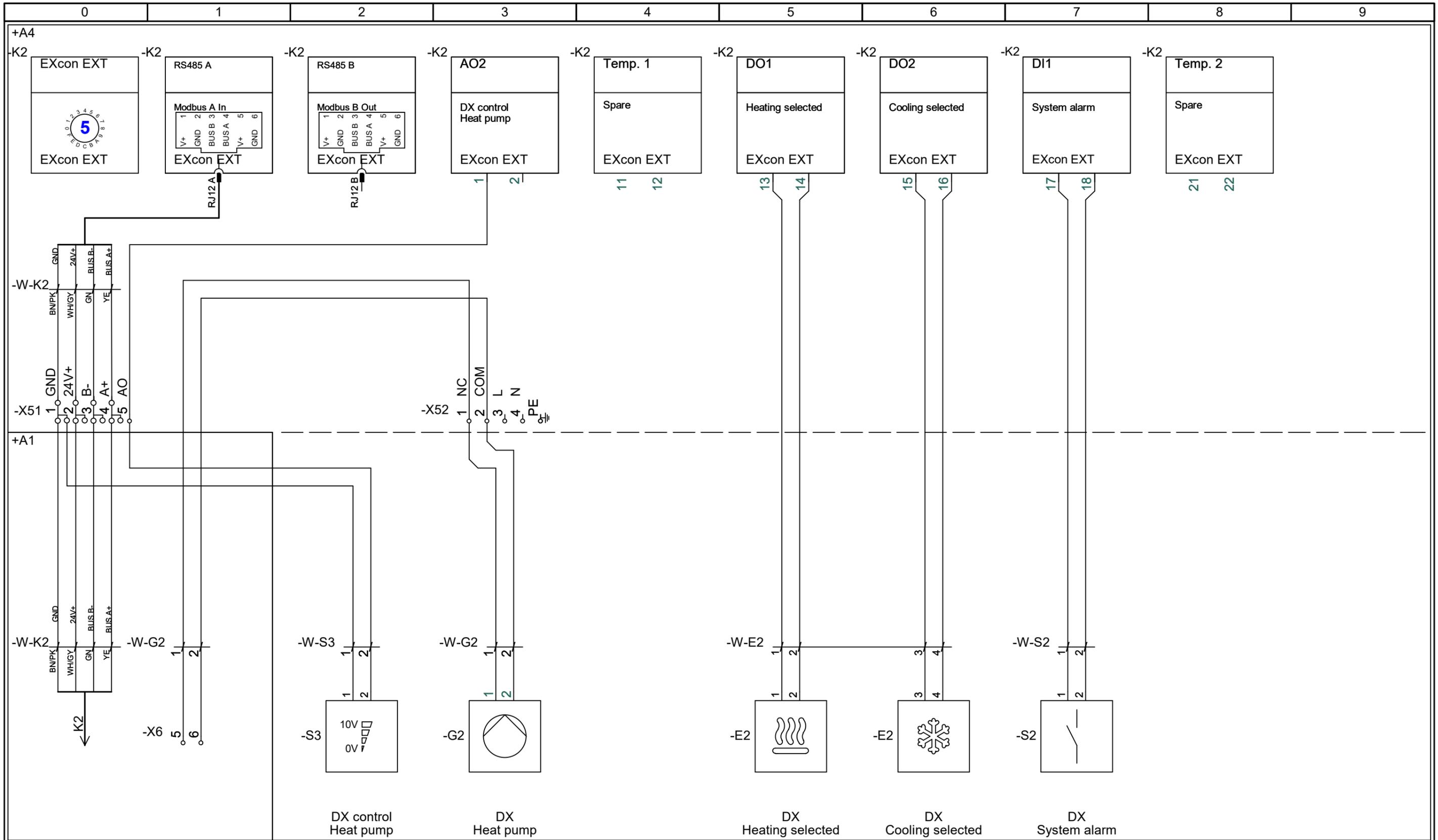
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Extension modules

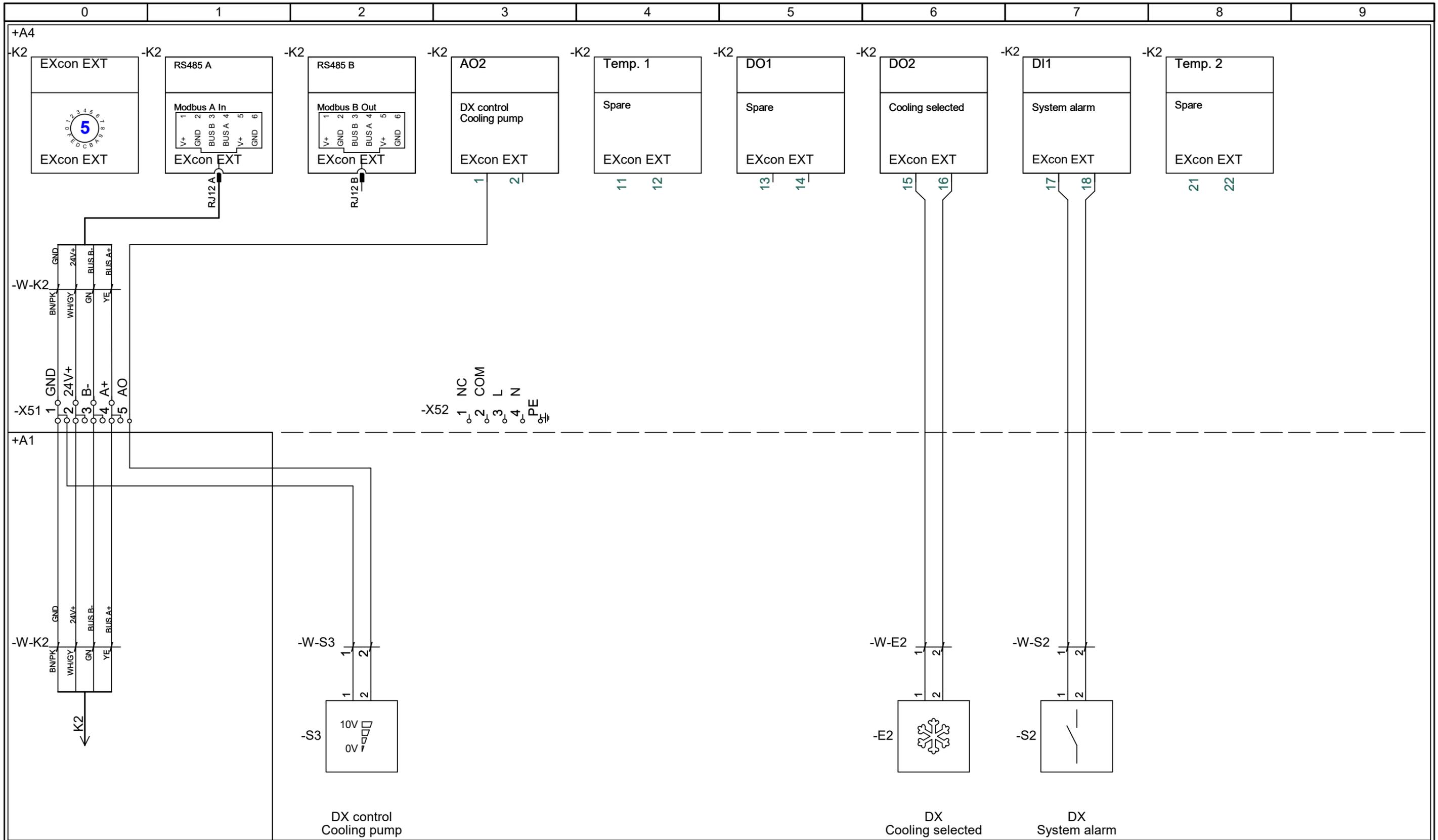
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Drawing number:	Revision:	Page Title:	Replaces:		Scale:	Next page:	
2028066	A	Option - Direct Expansion Cooling	-		1:1	.	
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