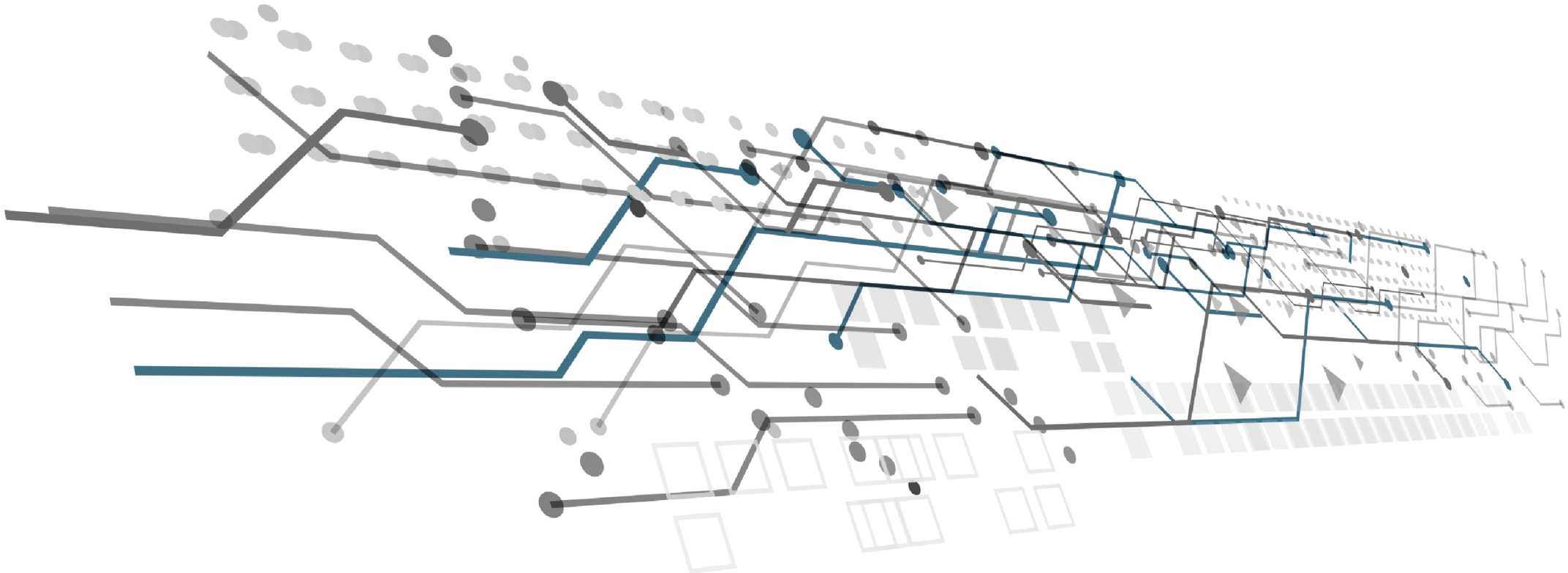
# VEX1000 Wiring diagram

## EXcon+ automatic
## EXcon+ automatik
## Système de règulation EXcon+



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EXHAUSTO

# VEX1000 - Control panel (1x230V)

2028124

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: 1 |
| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 0 |
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| Page | Title Note #1 GB | Titel DE | Titre FR | Last edit |
|---|---|---|---|---|
| 1 | Project information | Projektinformationen | Informations sur le projet | 21-10-2025 |
| 3 | Standards | Standard | Normes | 06-11-2024 |
| 4 | Standards | Standard | Normes | 15-11-2024 |
| 5 | Component overview | Komponentenübersicht | Vue d’ensemble des composants | 15-07-2025 |
| 9 | Principles for all configuration options | Prinzipien für alle Konfigurationsoptionen | Principes pour toutes les options de configuration | 25-10-2024 |
| 10 | Control panel layout | Layout des Schaltschrank | Disposition du tableau de commande | 21-05-2025 |
| 11 | Control panel terminals | Klemmen des Schaltschranks | Bornes du tableau de commande | 21-05-2025 |
| 20 | Main current | Hauptstrom | Courant principal | 21-10-2025 |
| 21 | Pilot current | Steuerstrom | Courant pilote | 21-10-2025 |
| 22 | Standard - Modbus connections | Standard – Modbus-Anschlüsse | Standard – Raccordements pour modbus | 15-05-2025 |
| 23 | Standard - Fan & Rotor/Bypass controls | Standard – Ventilator- und Rotor-/Bypass-Steuerungen | Standard – Commandes by-pass / du ventilateur et du rotor | 19-06-2025 |
| 24 | Standard - Dampers | Standard – Register | Standard - Volets | 09-01-2025 |
| 25 | Options - Dampers | Optionen – Register | Options - Volets | 09-01-2025 |
| 26 | Options - Pre-heating controls | Optionen – Vorheizregler | Options – Commandes de préchauffage | 06-11-2024 |
| 27 | Options - Post-heating controls | Optionen – Nachheizregler | Options – Commandes de post-chauffage | 21-10-2025 |
| 28 | Options - HW/CW/CO controls | Optionen – HW/CW/CO-Regler | Options – Commandes HW/CW/CO | 21-10-2025 |
| 29 | Options - Temperature & CO2 sensors | Optionen – Temperatur- und CO2-Sensoren | Options – Capteurs de température et de CO2 | 27-03-2025 |
| 30 | Standard - Customer connections | Standard – Kundenseitige Anschlüsse | Standard – Raccordements du client | 21-05-2025 |
| 40 | Standard - Dual PTH 1 | Standard – Doppel-PTH 1 | Standard – Double PTH 1 | 27-03-2025 |
| 41 | Standard - Dual PTH 2 | Standard – Doppel-PTH 2 | Standard – Double PTH 2 | 15-07-2025 |
| 42 | Option - ALC™ - Rotor deicing | Option - ALC™ - Rotorenteisung | Option - ALC™ - Dégivrage du rotor | 06-11-2024 |
| 50 | Option – Coil control box layout | Option – Layout des Spulensteuerkastens | Option – Disposition du boîtier de commande du serpentin | 17-10-2025 |
| 51 | Option - Combi Coil (CO) | Option – Kombiregister (CO) | Option - Serpentin mixte (CO) | 17-10-2025 |
| 52 | Option - Direct Expansion Heat pump (DX) | Option – Heizregister für Direkte Expansion (DX) | Option - Batterie de chauffage à détente directe (DX) | 17-10-2025 |
| 53 | Option - Direct Expansion Cooling (DX) | Option – Kühlregister für Direkte Expansion (DX) | Option - Batterie de refroidissement à détente directe (DX) | 17-10-2025 |

## Identification of wires by colour (according to EN 60204-1) Note #2

| | | | |
|---|---|---|---|
| Main current: | Hauptstrom: | Courant principal: | 400/230VAC |
| Phase: | Phase: | Phase : | BK |
| Neutral: | Neutral: | Neutre : | BK |
| Earth: | Erde: | Terre : | GNYE |
| Pilot current: | Steuerstrom: | Courant pilote: | 230/24VAC |
| Phase: | Phase: | Phase : | RD |
| Neutral: | Neutral: | Neutre : | RD |
| Earth: | Erde: | Terre : | GNYE |
| Pilot current: | Steuerstrom: | Courant pilote: | 24VDC |
| Positive (+): | Positiv (+): | Positif (+) : | BU |
| Negative (-): | Negativ (-): | Négatif (-) : | BU |
| Unknown potential: | Unbekanntes Potenzial: | Potentiel inconnu: | |
| 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 oversettelsen 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 Note #5 (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 | Miniaturleistungsschalter | 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 | Schnitstellen | 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**

| Component | Function Note #6 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 | Heat recovery temperature | Wärmerückgewinnungstemperatur | Température de récupération de chaleur |
| -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 |
| -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 |
| -M1.2 | Exhaust air fan | Fortluftventilator | Ventilateur d'évacuation de l’air |
| -M2.2 | Supply air fan | Zuluftventilator | Ventilateur d’air soufflé |

| Component | Function Note #6 GB | Funktion DE | Fonction FR |
|---|---|---|---|
| -M3 | Rotor | Rotor | Rotor |
| -Q1 | Supply disconnecting device | Versorgungstrennvorrichtung | Dispositif de coupure de l’alimentation |
| -R1.1 | Extract air damper (ALC™) | Abluftregister (ALC™) | Volet d’air extrait (ALC™) |
| -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 |
| -U1 | Automation board | Automatisierungsplatine | Carte d’automatisation |
| -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 |
| -X5 | HW - Power & signal terminals | HW – Strom- und Signalklemmen | HW – Bornes d’alimentation et de signal |
| -X6 | CW/CO - Power & signal terminals | CW/CO – Strom- und Signalklemmen | CW/CO – Bornes d’alimentation et de signal |
| -X7 | Temperature & CO2 sensors terminals | Klemmen für Temperatur- und CO2-Sensoren | Bornes d’alimentation et de signal agrégées |
| -X8 | Customer connections terminals | Kundenseitige Anschlussklemmen | Bornes de raccord client |
| -X10 | Modbus splitter 4 x RJ12 | Modbus-Splitter 4 x RJ12 | Répartiteur Modbus 4 x RJ12 |
| -X51 | CO/DX – MODBUS & signal terminals | CO/DX – MODBUS- und Signalklemmen | CO/DX – Bornes d’MODBUS et signaux |
| -X52 | CO/DX - Power & signal terminals | CO/DX – Strom- und Signalklemmen | CO/DX – Bornes d’alimentation et de signal |

| Component | Function Note #6 GB | Funktion DE | Fonction FR |
|---|---|---|---|
| -X-B3 | Heating return water temperature sensor plug | Stecker für Temperatursensor Heizungsrücklauf | Connecteur capteur de température retour eau de chauffage |
| -X-E4.2 | HE - Signal plug | Stecker für HE – Signal | HE – Connecteur de signal |
| -X-M1.2 | Exhaust air fan plug | Stecker für Fortluftventilator | Connecteur de ventilateur de rejet extérieur |
| -X-M2.2 | Supply air fan plug | Stecker für Zuluftventilator | Connecteur de ventilateur d’air soufflé |
| -X-M3 | Rotor plug | Stecker für Rotor | Connecteur de rotor |
| -X-R1.2 | Exhaust air damper plug | Stecker für Fortluftregister | Connecteur des volets d’air rejeté |
| -X-R2.1 | Outdoor air damper plug | Stecker für Außenluftregister | Connecteur des volets d'air extérieur |
| -X-R4 | Mixing air damper plug | Stecker für Mischluftregister | Connecteur des volts d’air mélangé |

# Principles

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|---|---|---|---|---|---|---|---|
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: Principles |
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| Drawing number: 2028124 | Revision: C | Page Title: Principles | Replaces: | B | Scale: | 1:1 | Next page: 9 |
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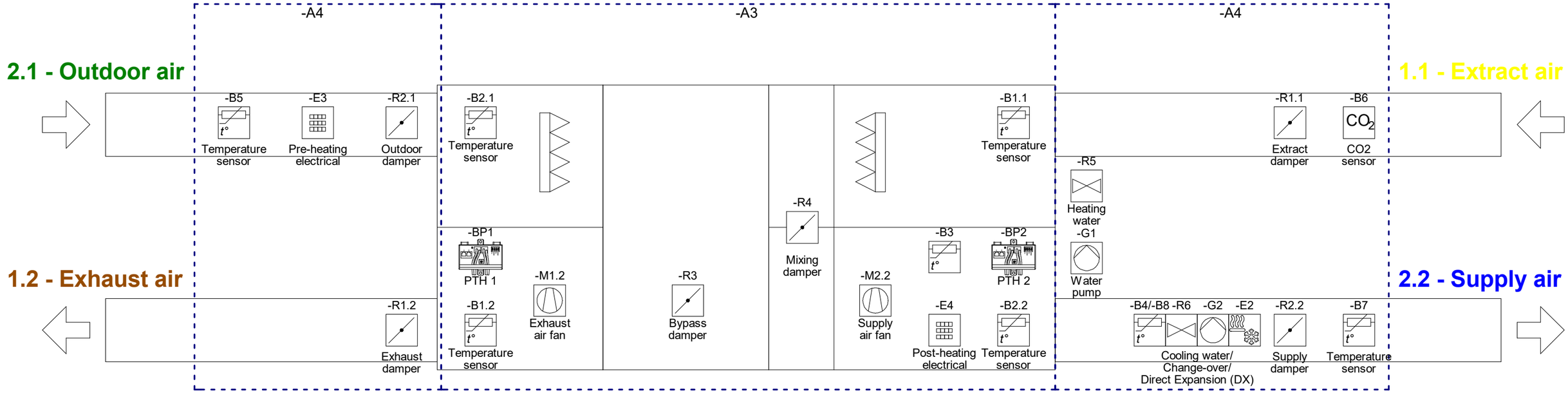
# COUNTER-FLOW

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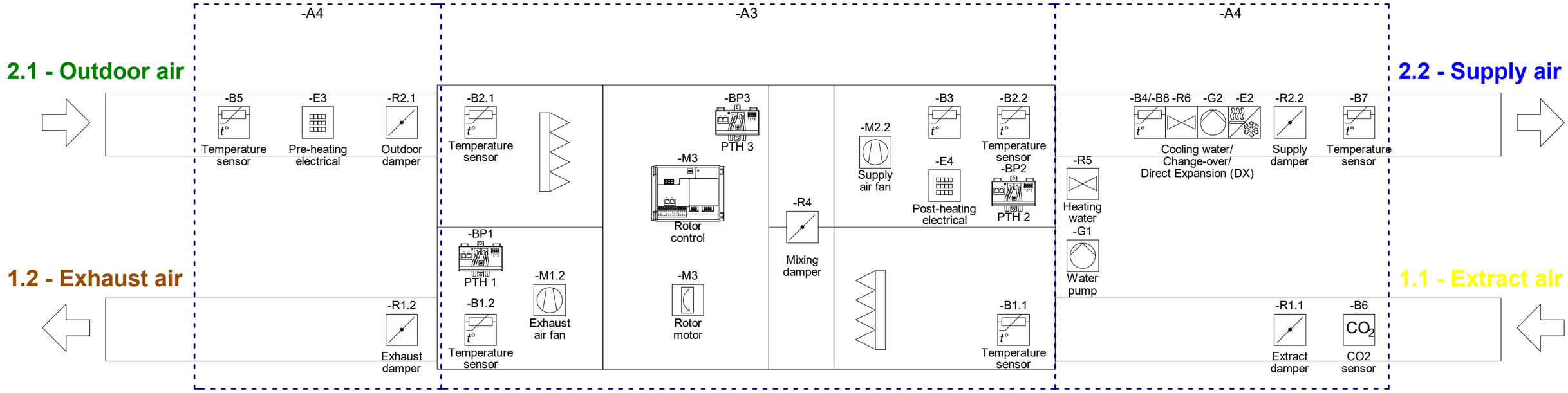


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| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: 01-06-2023 | Constructor: DKTSA | Page: 9 | |
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# Arrangement drawings

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: Arrangement |
| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 9 |
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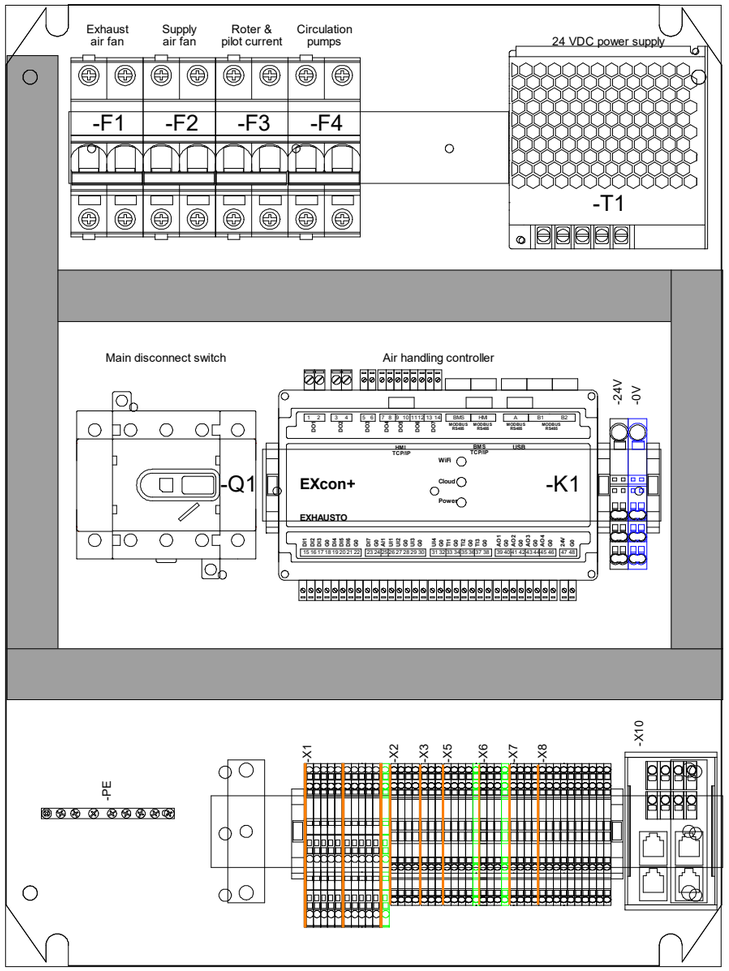


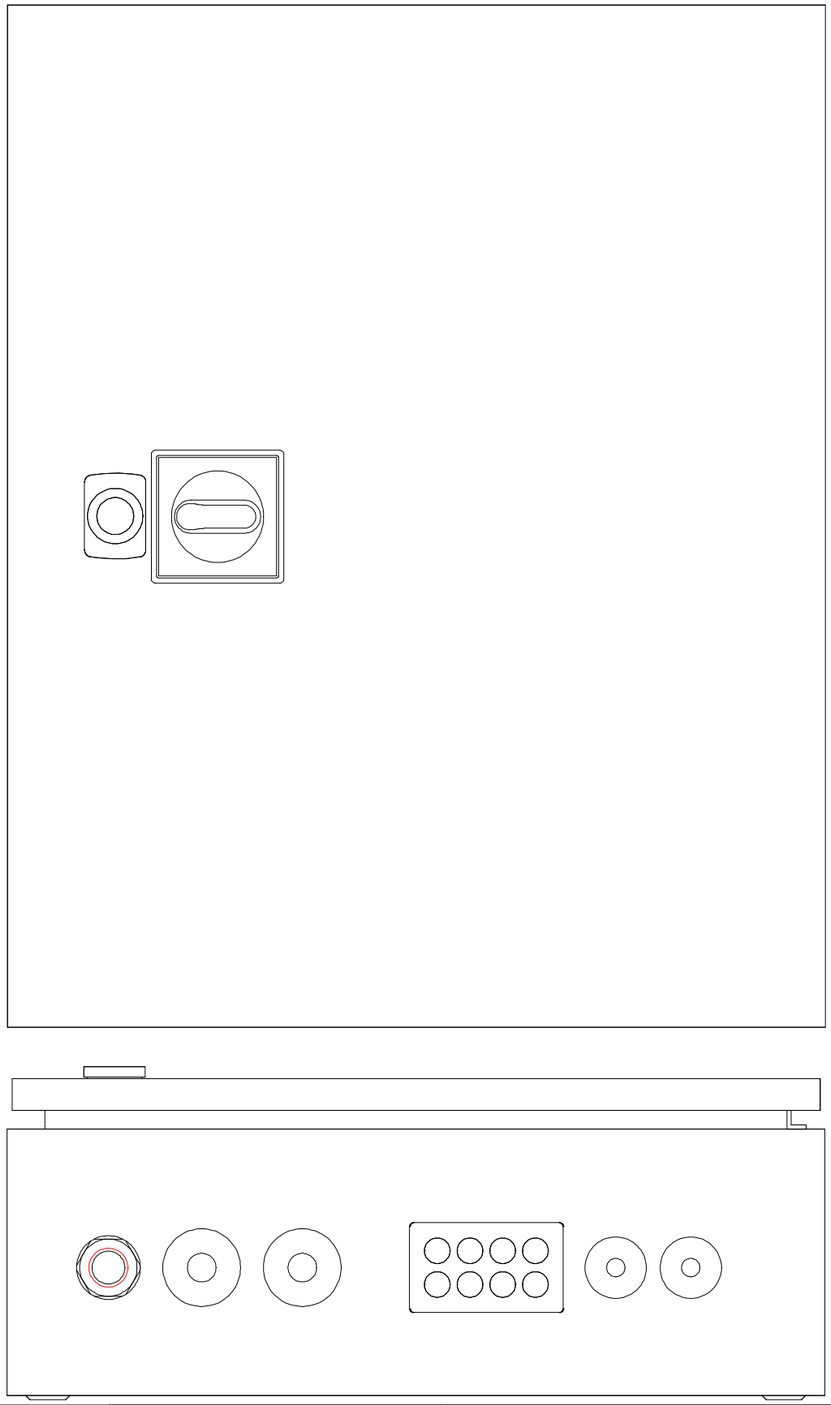

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| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: 10 |
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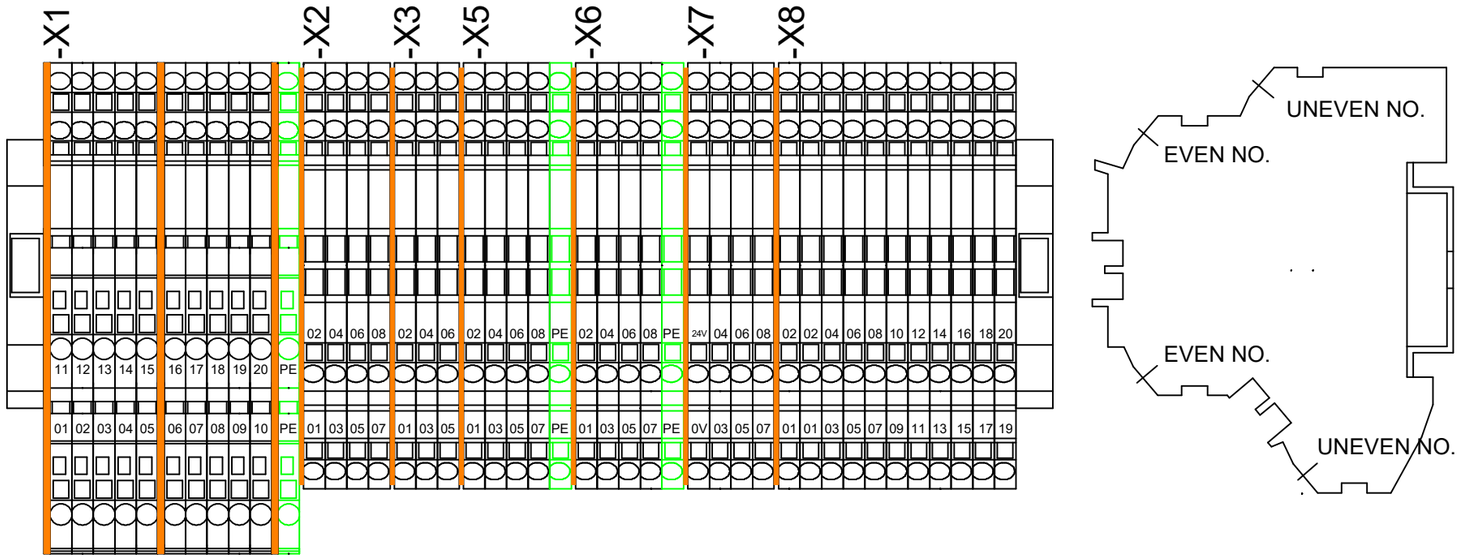


| | | | |
|---|---|---|---|
| -X1:01 | -M1.2 | Exhaust air fan | L1 |
| -X1:02 | -M1.2 | Exhaust air fan | L2 |
| -X1:03 | -M1.2 | Exhaust air fan | L3 |
| -X1:04 | -M2.2 | Supply air fan | L1 |
| -X1:05 | -M2.2 | Supply air fan | L2 |
| -X1:06 | -M2.2 | Supply air fan | L3 |
| -X1:07 | -M3 | Rotor | L |
| -X1:08 | -M3 | Rotor | N |
| -X1:09 | -MB | Modbus | 0V |
| -X1:10 | -MB | Modbus | 24V |
| -X1:11 | -MB | Modbus | B- |
| -X1:12 | -MB | Modbus | A+ |
| -X1:13 | -E4 | Electric post-heating | 0-10V |
| -X1:14 | -E4 | Electric post-heating | GND |
| -X1:15 | -E4 | Electric post-heating | Fire |
| -X1:16 | -E4 | Electric post-heating | Fail |
| -X1:17 | -E4 | Electric post-heating | Run OK |
| -X1:18 | -E4 | Electric post-heating | Run OK |
| -X1:19 | -B3 | Temperature sensor | - |
| -X1:20 | -B3 | Temperature sensor | - |
| -X1:PE | -PE | Protective Earth | PE |

| | | | |
|---|---|---|---|
| -X2:01 | -R1.1 | Extract air damper | 0V |
| -X2:03 | -R1.1 | Extract air damper | 24V |
| -X2:05 | -R1.1 | Extract air damper | B- |
| -X2:07 | -R1.1 | Extract air damper | A+ |
| -X2:02 | -R2.2 | Supply air damper | 0V |
| -X2:04 | -R2.2 | Supply air damper | 24V |
| -X2:06 | -R2.2 | Supply air damper | B- |
| -X2:08 | -R2.2 | Supply air damper | A+ |
| -X3:01 | -E3 | Electric pre-heating | 0-10V |
| -X3:02 | -E3 | Electric pre-heating | GND |
| -X3:03 | -E3 | Electric pre-heating | Fire |
| -X3:04 | -E3 | Electric pre-heating | Fail |
| -X3:05 | -E3 | Electric pre-heating | Run OK |
| -X3:06 | -E3 | Electric pre-heating | Run OK |

| | | | |
|---|---|---|---|
| -X5:01 | -R1 | Valve HW | 0V |
| -X5:02 | -R1 | Valve HW | 24V |
| -X5:03 | -R1 | Valve HW | Signal |
| -X5:04 | -R1 | Valve HW | Not used |
| -X5:05 | -G1 | HW circulation pump | NC |
| -X5:06 | -G1 | HW circulation pump | COM |
| -X5:07 | -G1 | HW circulation pump | L |
| -X5:08 | -G1 | HW circulation pump | N |
| -X5:PE | -G1 | HW circulation pump | PE |
| -X6:01 | -R2 | Valve CW/CO | 0V |
| -X6:02 | -R2 | Valve CW/CO | 24V |
| -X6:03 | -R2 | Valve CW/CO | Signal |
| -X6:04 | -R2 | Valve CW/CO | Not used |
| -X6:05 | -G2 | CW/CO circulation pump | NC |
| -X6:06 | -G2 | CW/CO circulation pump | COM |
| -X6:07 | -G2 | CW/CO circulation pump | L |
| -X6:08 | -G2 | CW/CO circulation pump | N |
| -X6:PE | -G2 | CW/CO circulation pump | PE |

| | | | |
|---|---|---|---|
| -X7:01 | -B5 | Pre-heater temperature sensor | - |
| -X7:02 | -B5 | Pre-heater temperature sensor | - |
| -X7:03 | -B6 | CO2 sensor | GND |
| -X7:04 | -B6 | CO2 sensor | OUT |
| -X7:05 | -B6 | CO2 sensor | +VCC |
| -X7:06 | - | Spare terminal | |
| -X7:07 | -B7 | Duct temperature sensor | - |
| -X7:08 | -B7 | Duct temperature sensor | - |
| -X8:0V | | Customer connections | 24V power supply |
| -X8:24V | | Customer connections | 24V power supply |
| -X8:01 | | Customer connections | Fire alarm input |
| -X8:02 | | Customer connections | Fire alarm input |
| -X8:03 | | Customer connections | Option input 1 |
| -X8:04 | | Customer connections | Option input 1 |
| -X8:05 | | Customer connections | Option input 2 |
| -X8:06 | | Customer connections | Option input 2 |
| -X8:07 | | Customer connections | Option input 3 |
| -X8:08 | | Customer connections | Option input 3 |
| -X8:09 | | Customer connections | Option input 4 |
| -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 |
| -X8:19 | | Customer connections | Start signal |
| -X8:20 | | Customer connections | Start signal |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: 11 |
| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 10 |
| Drawing number: 2028124 | Revision: C | Page Title: Control panel terminals | Replaces: | B | Scale: | 1:1 | Next page: 20 |
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# Circuit diagrams

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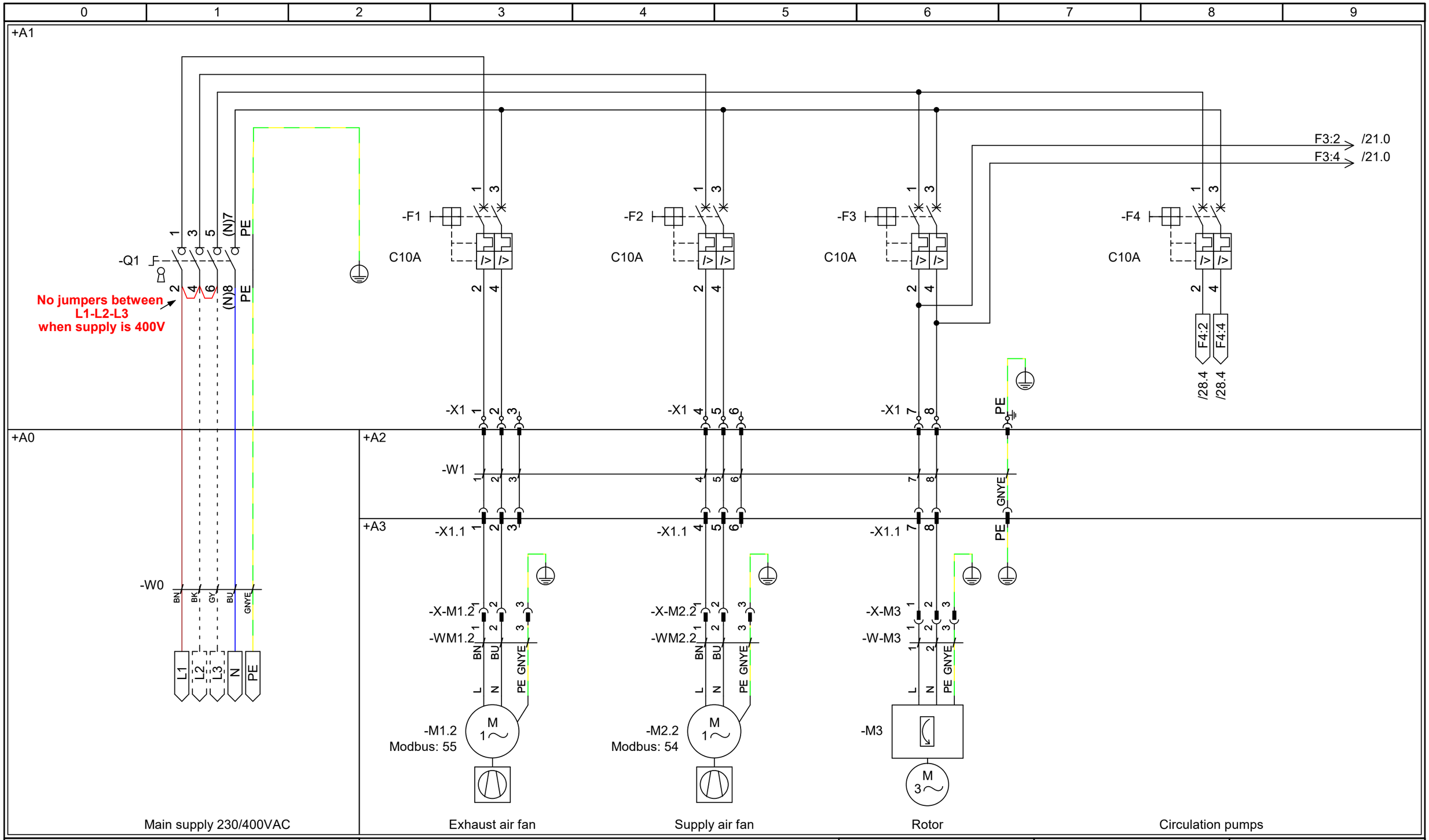
|---|---|---|---|---|---|---|---|
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: Circuit diagrams |
| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 11 |
| Drawing number: 2028124 | Revision: C | Page Title: Circuit diagrams | Replaces: | B | Scale: | 1:1 | Next page: 20 |
| | | | EC no.: | - | Format: | A3 | Pages in total: 36 |

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|---|---|---|---|---|---|---|
| EXHAUSTO | Project: VEX1000 - Control panel (1x230V) | Start date: 01-06-2023 | Constructor: DKTSA | Page: 20 | | |
| | | Revision date: 21-10-2025 | Approved by: | Previous page: 11 | | |
| Drawing number: 2028124 | Revision: C | Page Title: Main current | Replaces: B | Scale: 1:1 | Next page: 21 | |
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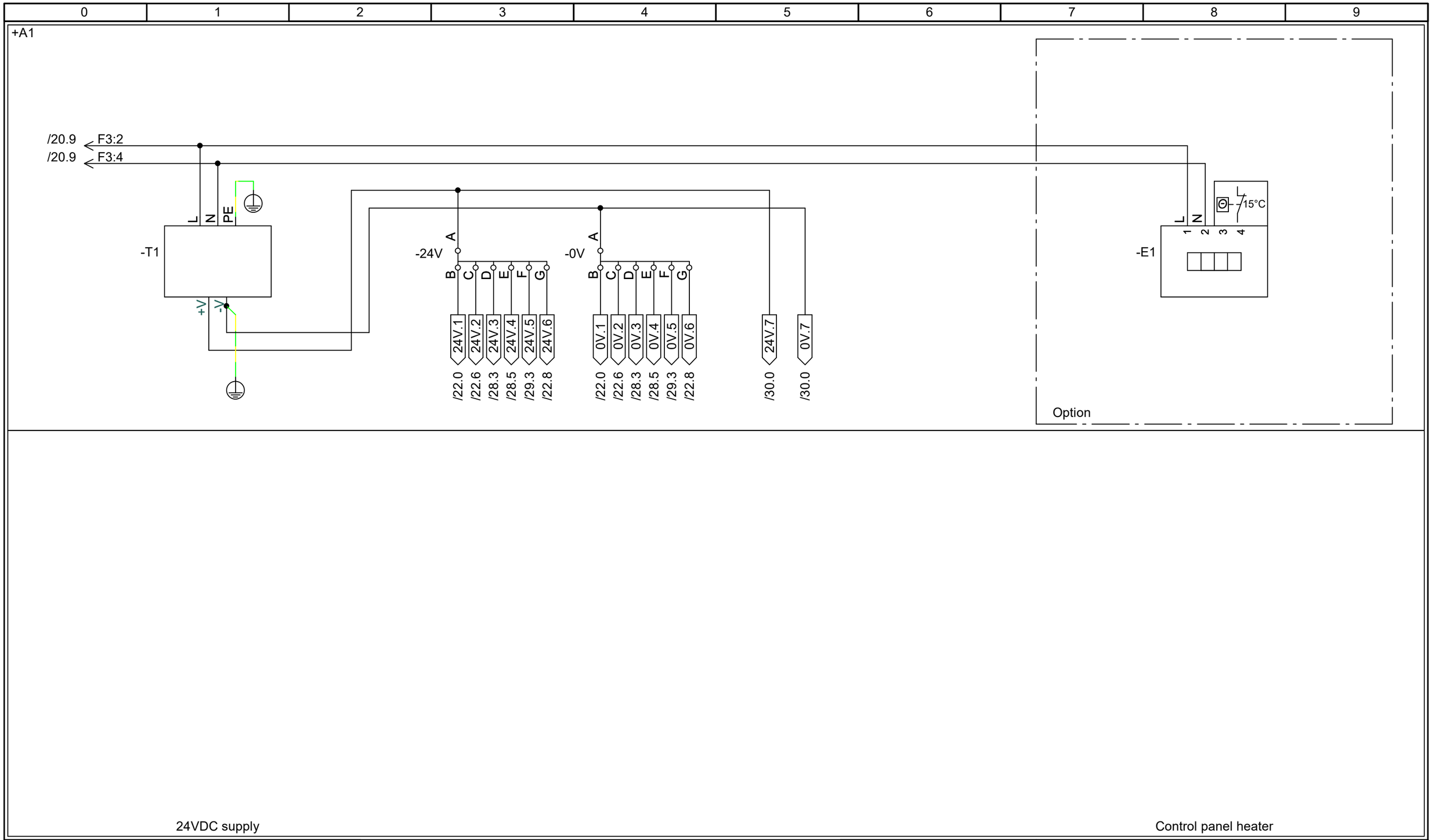


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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 20 | |
| Drawing number: 2028124 | Revision: C | Page Title: Pilot current | Replaces: B | Scale: 1:1 | Next page: 22 | |
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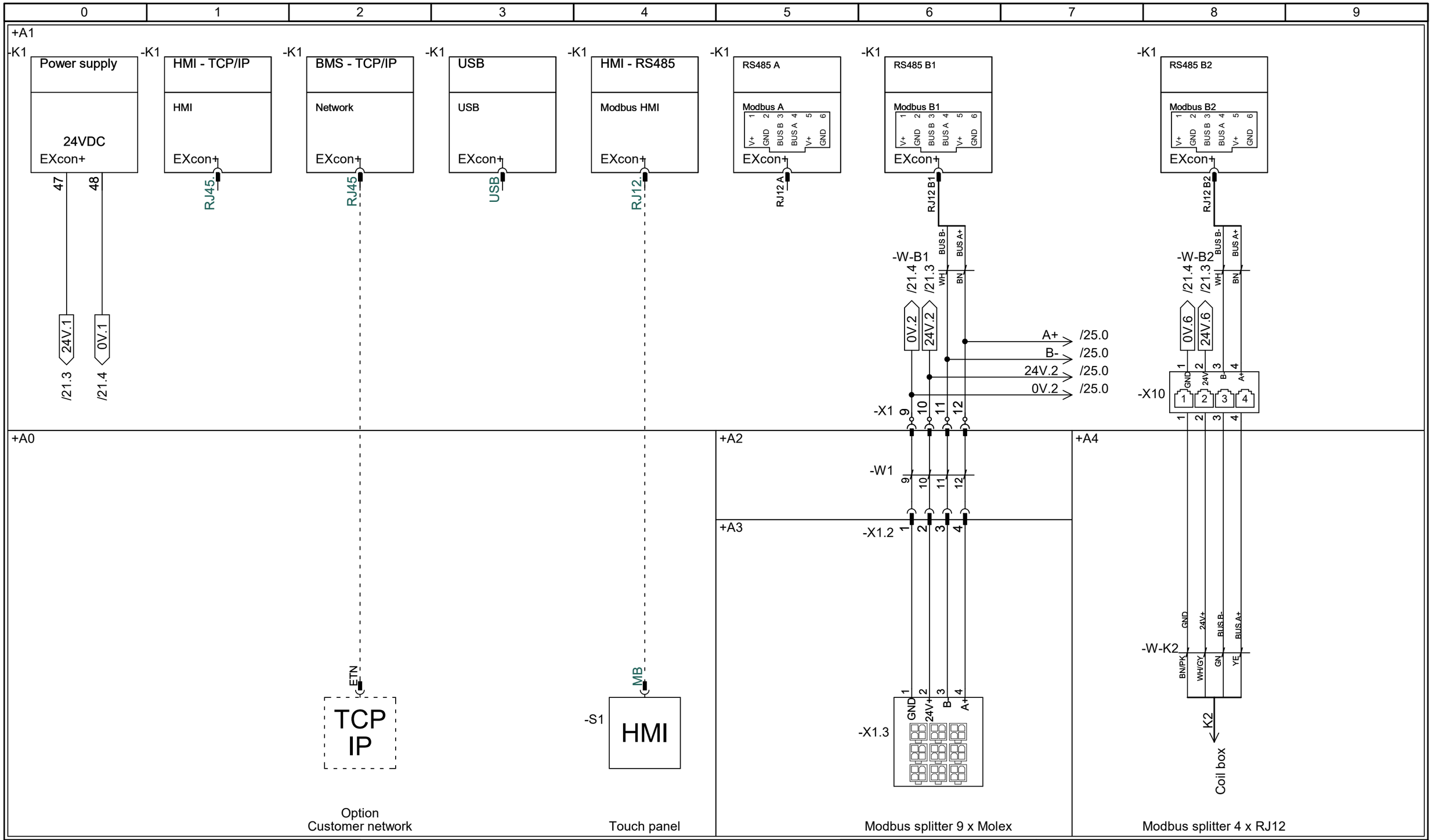


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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 21 | |
| Drawing number: 2028124 | Revision: C | Page Title: Standard - Modbus connections | Replaces: B | Scale: 1:1 | Next page: 23 | |
| | | | EC no.: - | Format: A3 | Pages in total: 36 | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
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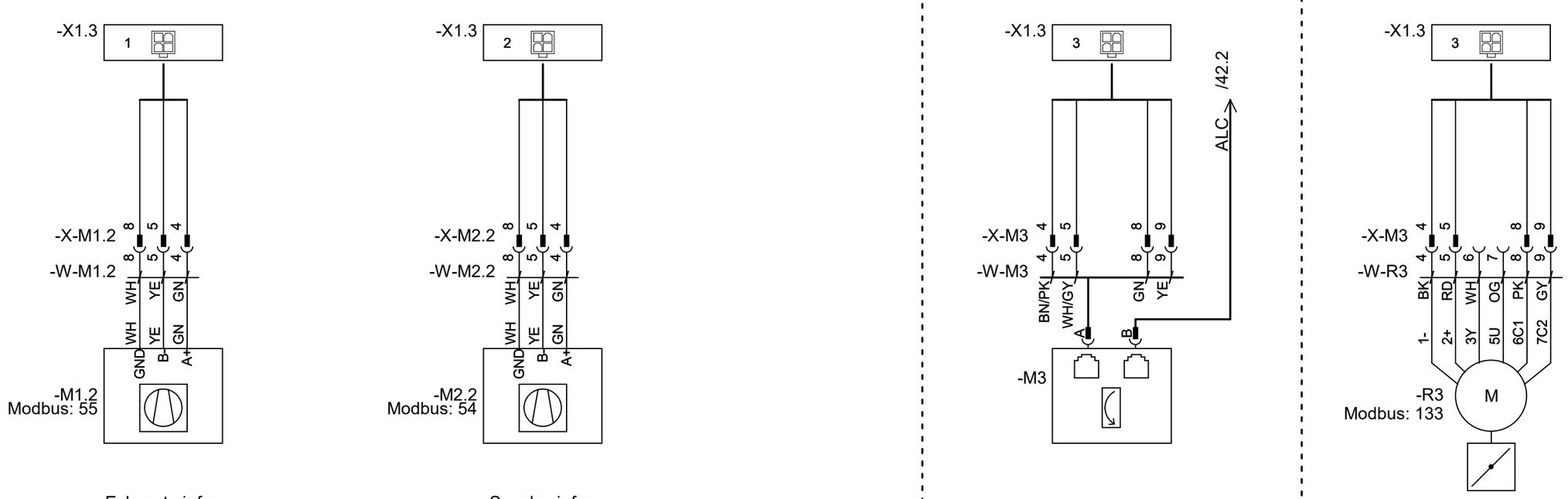
Rotor drive option

Counter-flow option

+A3

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| EXHAUSTO | Project: VEX1000 - Control panel (1x230V) | Start date: 01-06-2023 | Constructor: DKTSA | Page: 23 | | |
| | | Revision date: 21-10-2025 | Approved by: | Previous page: 22 | | |
| Drawing number: 2028124 | Revision: C | Page Title: Standard - Fan & Rotor/Bypass controls | Replaces: B | Scale: 1:1 | Next page: 24 | |
| | | | EC no.: - | Format: A3 | Pages in total: 36 | |

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
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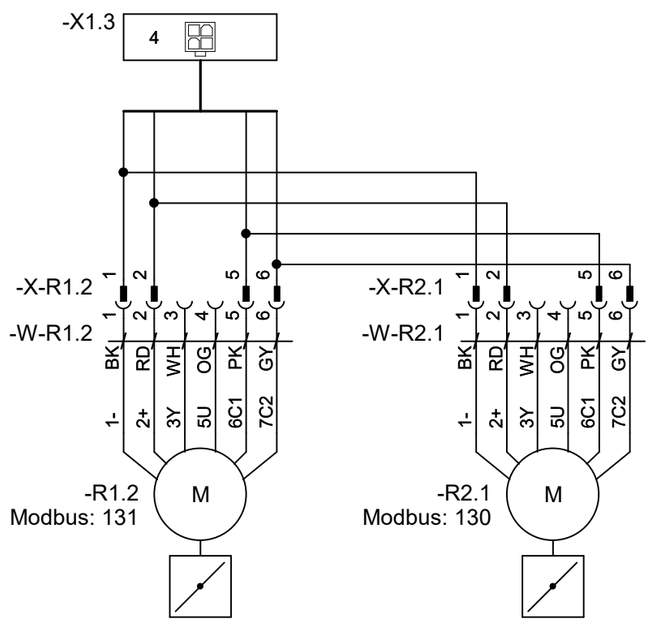
+A3




Exhaust air damper

Outdoor air damper

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|---|---|---|---|---|---|---|---|
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: 24 |
| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 23 |
| Drawing number: 2028124 | Revision: C | Page Title: Standard - Dampers | Replaces: | B | Scale: | 1:1 | Next page: 25 |
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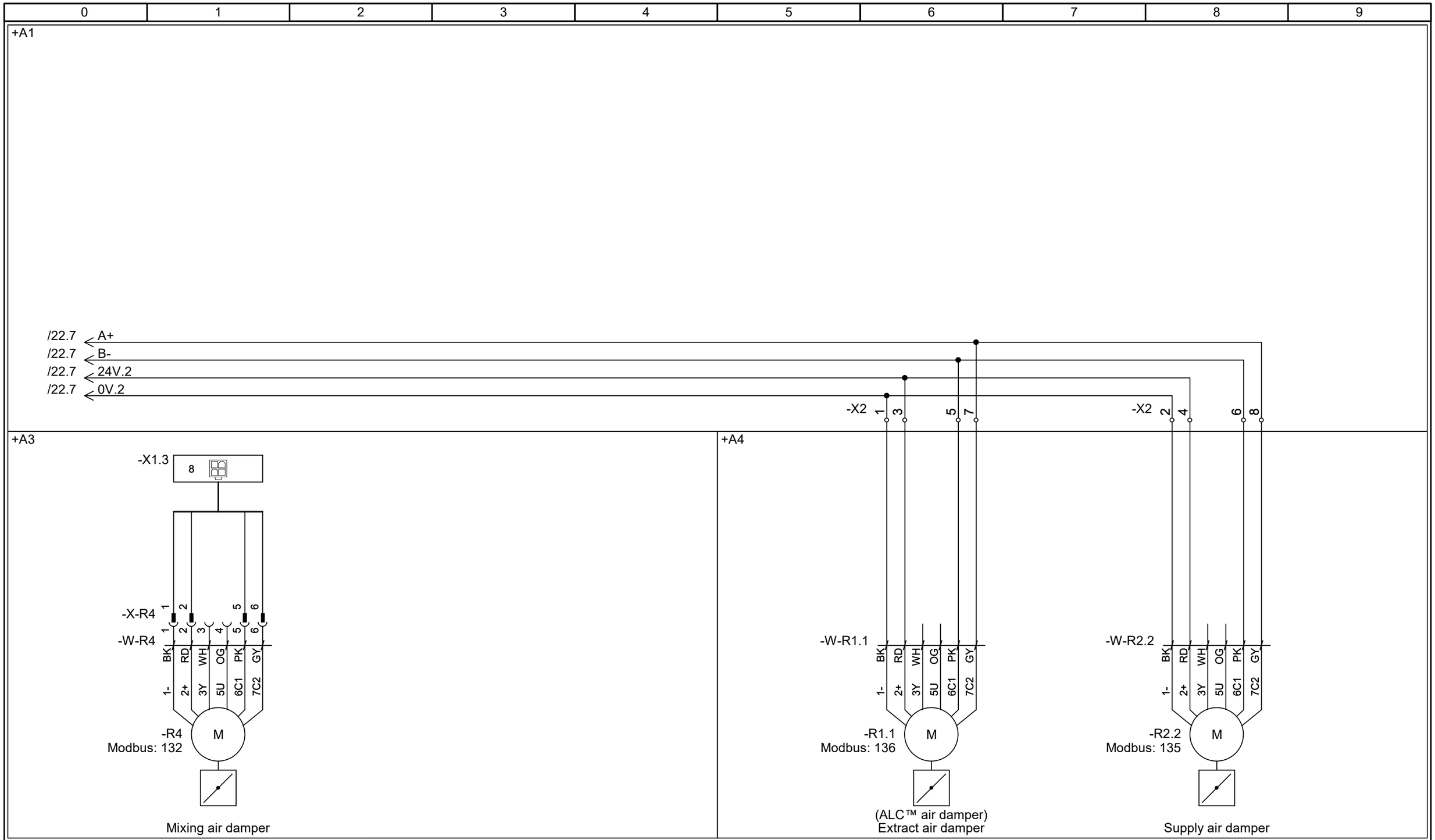


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| | | Revision date: 21-10-2025 | Approved by: | Previous page: 24 | |
| Drawing number: 2028124 | Revision: C | Page Title: Options - Dampers | Replaces: B | Scale: 1:1 | Next page: 26 |
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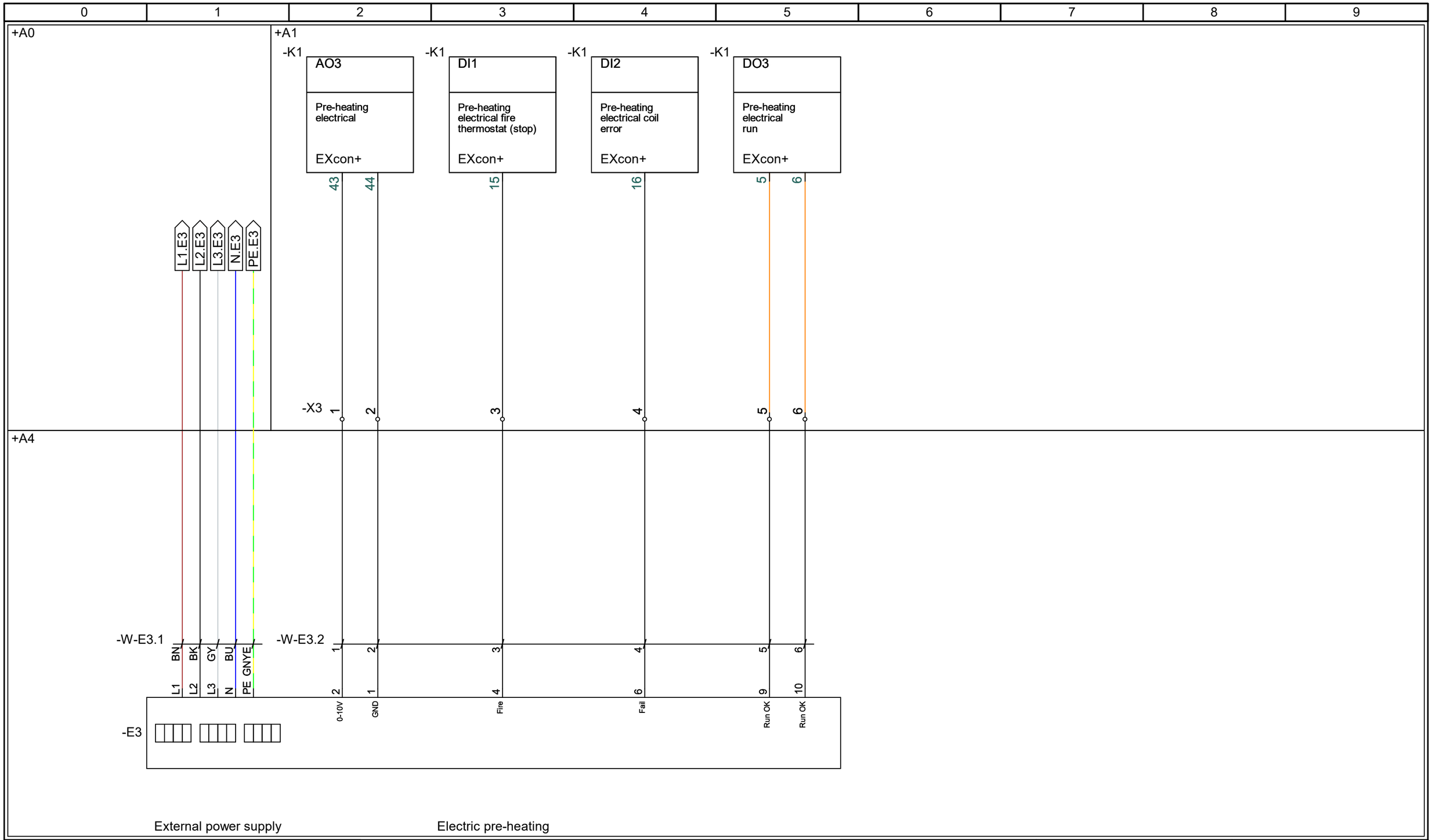


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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 25 | |
| Drawing number: 2028124 | Revision: C | Page Title: Options - Pre-heating controls | Replaces: B | Scale: 1:1 | Next page: 27 | |
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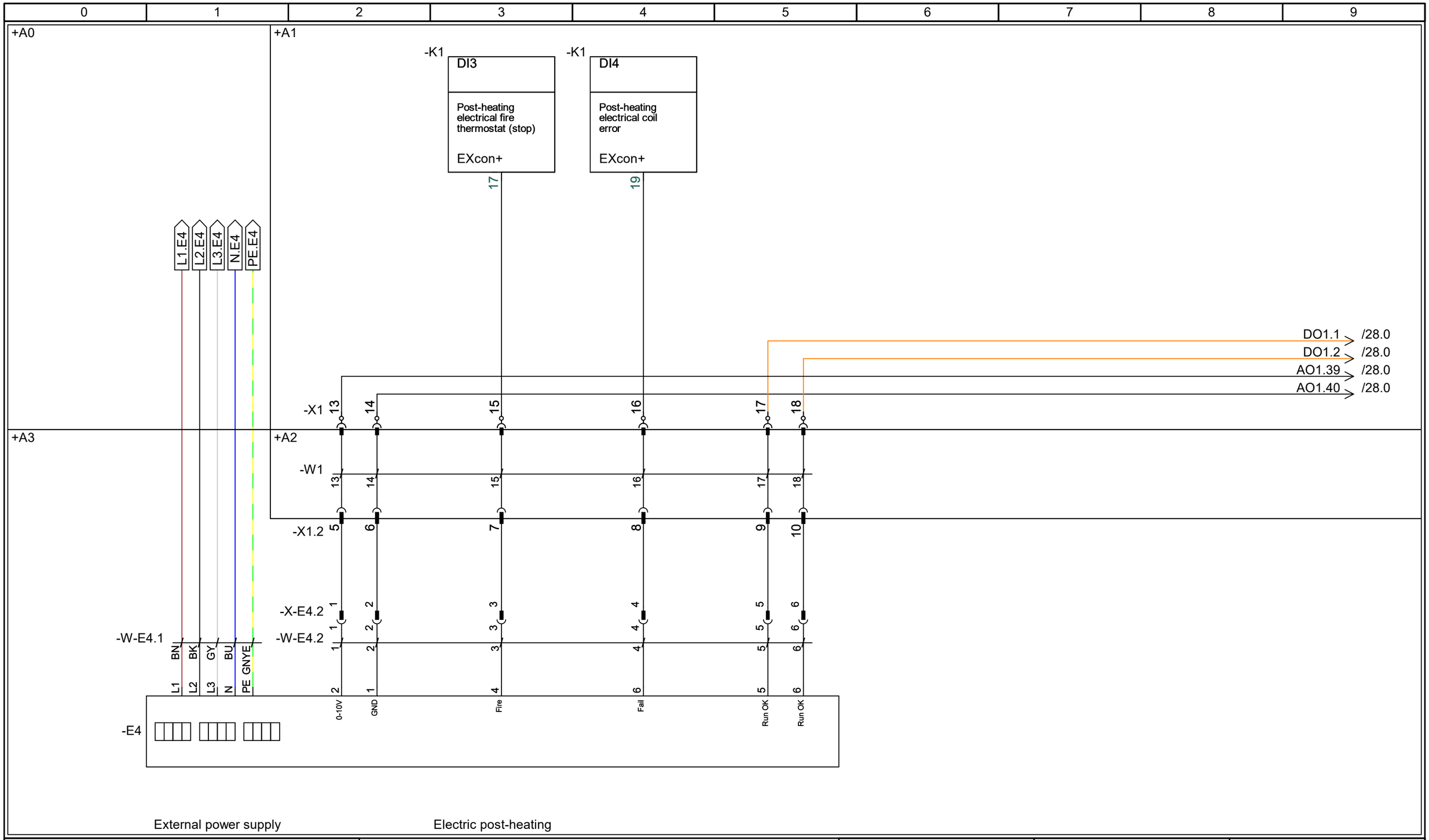


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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 26 |
| Drawing number: 2028124 | Revision: C | Page Title: Options - Post-heating controls | Replaces: B | Scale: 1:1 | Next page: 28 |
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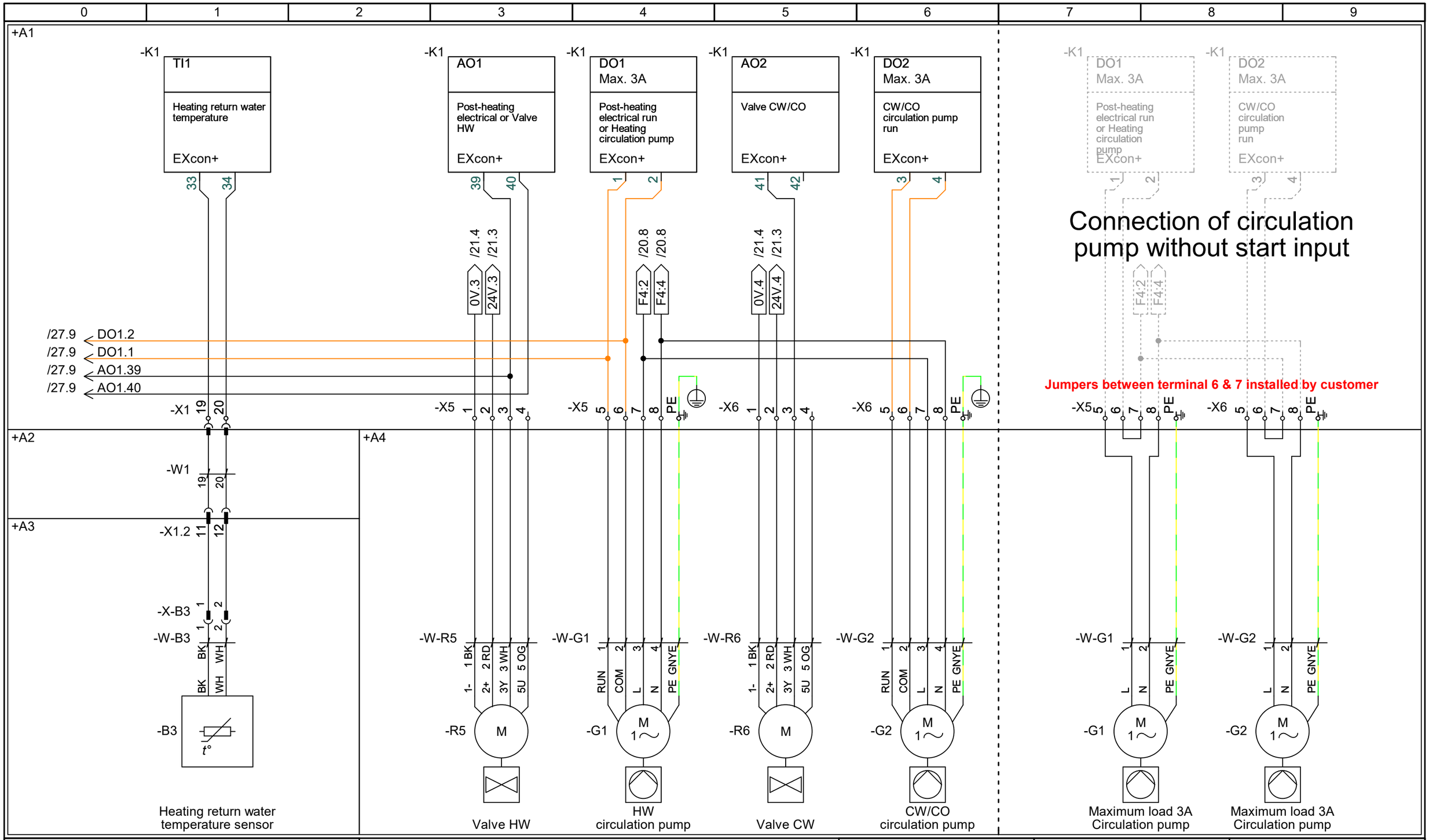


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| EXHAUSTO | Project: VEX1000 - Control panel (1x230V) | Start date: 01-06-2023 | Constructor: DKTSA | Page: 28 | |
| | | Revision date: 21-10-2025 | Approved by: | Previous page: 27 | |
| Drawing number: 2028124 | Revision: C | Page Title: Options - HW/CW/CO controls | Replaces: B | Scale: 1:1 | Next page: 29 |
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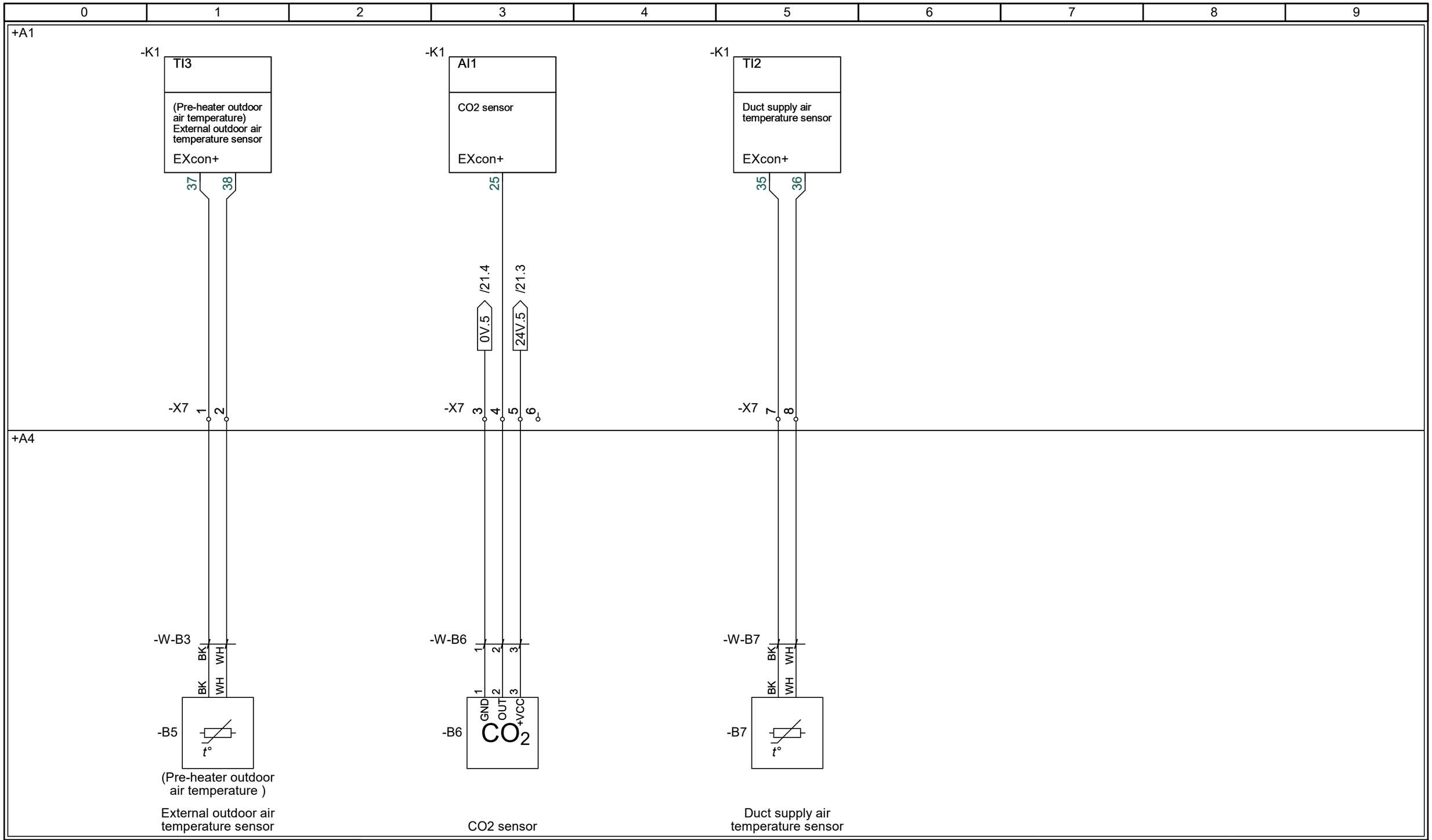


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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 28 |
| Drawing number: 2028124 | Revision: C | Page Title: Options - Temperature & CO2 sensors | Replaces: B | Scale: 1:1 | Next page: 30 |
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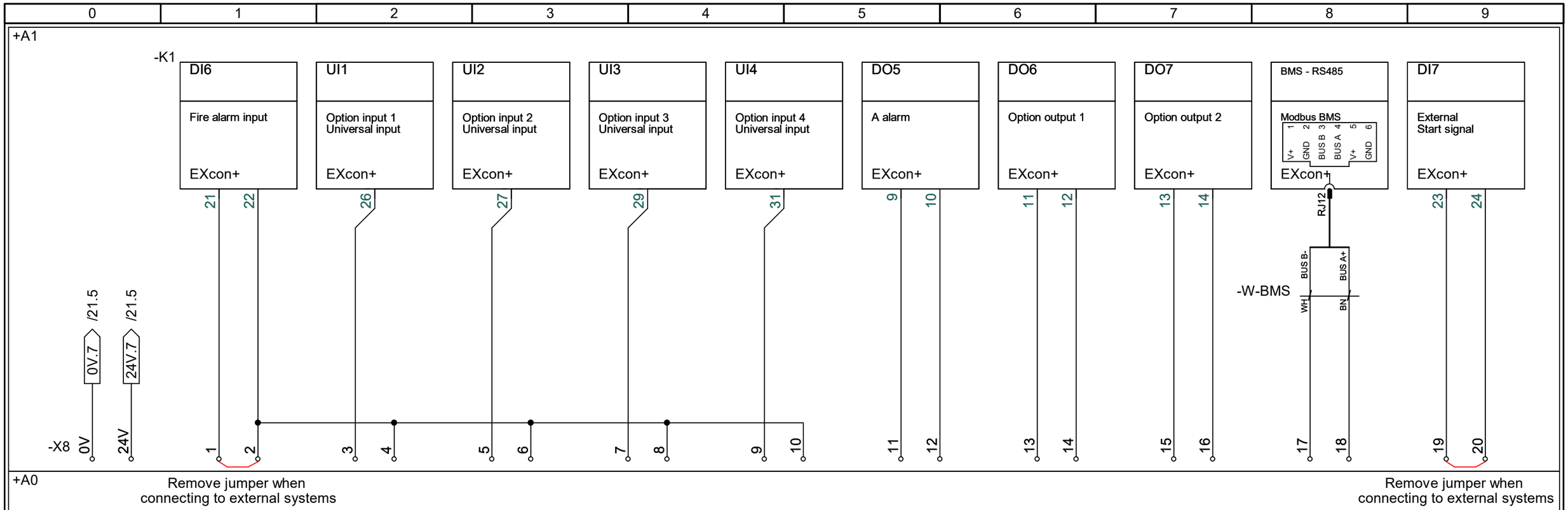
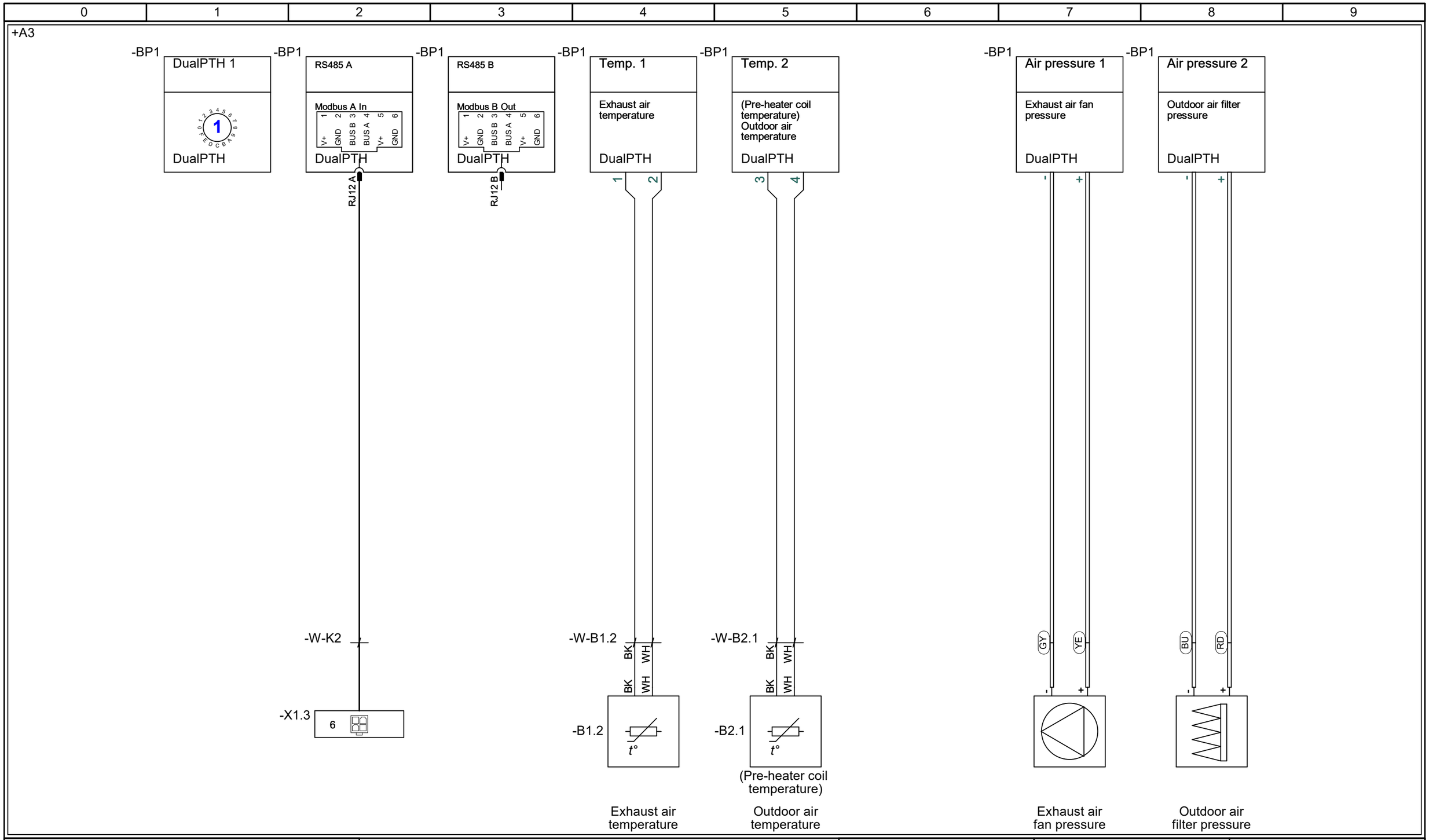



| IO | Default setting | Comment |
|---|---|---|
| Digital input 6 | Fire alarm | Mandatory |
| Universal input 1 - Option 1 | External High Speed mode | - |
| Universal input 2 - Option 2 | External Medium Speed mode | Can change depending on the coil configuration |
| Universal input 3 - Option 3 | 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 | - |
| RS485 | Modbus BMS | - |
| Digital input 7 | External Start signal | Mandatory |

For further information on connecting accessories, see document 3006851

# Pressure & temperature transmitters

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: PTH |
| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 30 |
| Drawing number: 2028124 | Revision: C | Page Title: Pressure & temperature transmitters | Replaces: | B | Scale: | 1:1 | Next page: 40 |
| | | | EC no.: | - | Format: | A3 | Pages in total: 36 |

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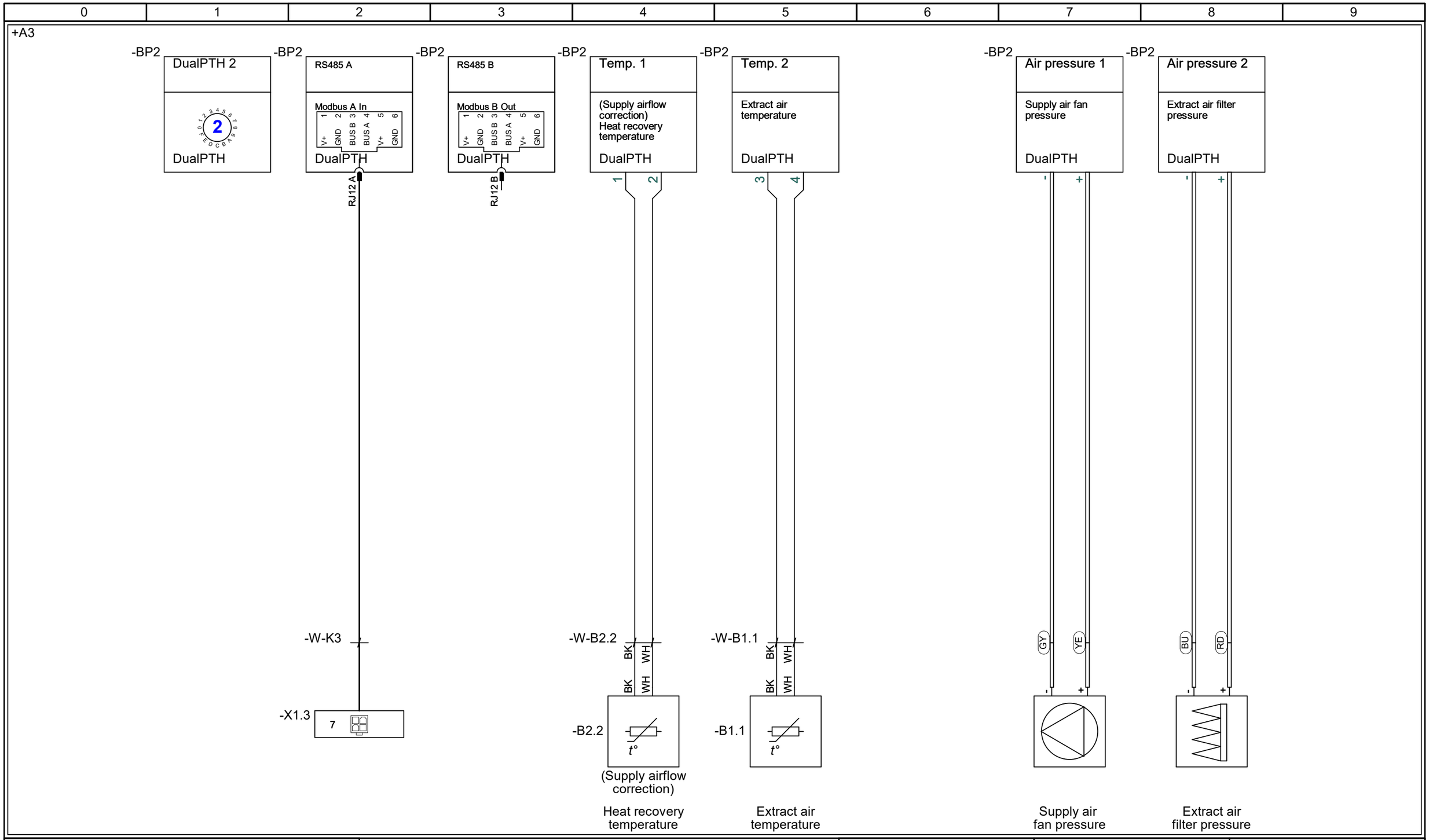
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: 01-06-2023 | Constructor: DKTSA | Page: 40 | |
| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 30 | |
| Drawing number: 2028124 | Revision: C | Page Title: Standard - Dual PTH 1 | Replaces: B | Scale: 1:1 | Next page: 41 | |
| | | | EC no.: - | Format: A3 | Pages in total: 36 | |

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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 40 | |
| Drawing number: 2028124 | Revision: C | Page Title: Standard - Dual PTH 2 | Replaces: B | Scale: 1:1 | Next page: 42 | |
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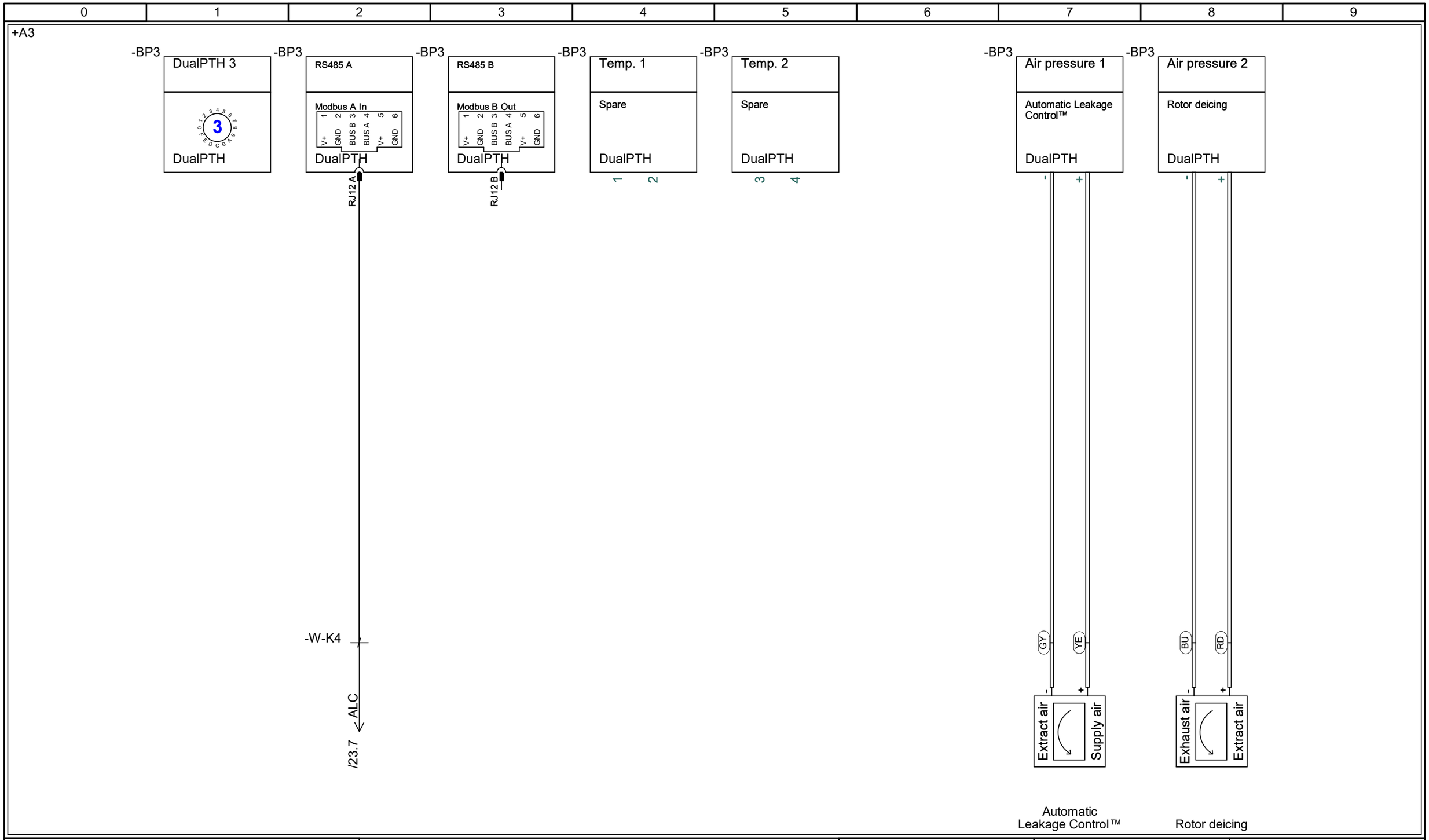


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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 41 | |
| Drawing number: 2028124 | Revision: C | Page Title: Option - ALC™ - Rotor deicing | Replaces: B | Scale: 1:1 | Next page: 50 | |
| | | | EC no.: - | Format: A3 | Pages in total: 36 | |

# Extension modules

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EXHAUSTO | | Project: VEX1000 - Control panel (1x230V) | Start date: | 01-06-2023 | Constructor: | DKTSA | Page: EXT |
| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 42 |
| Drawing number: 2028124 | Revision: C | Page Title: Extension modules | Replaces: | B | Scale: | 1:1 | Next page: 50 |
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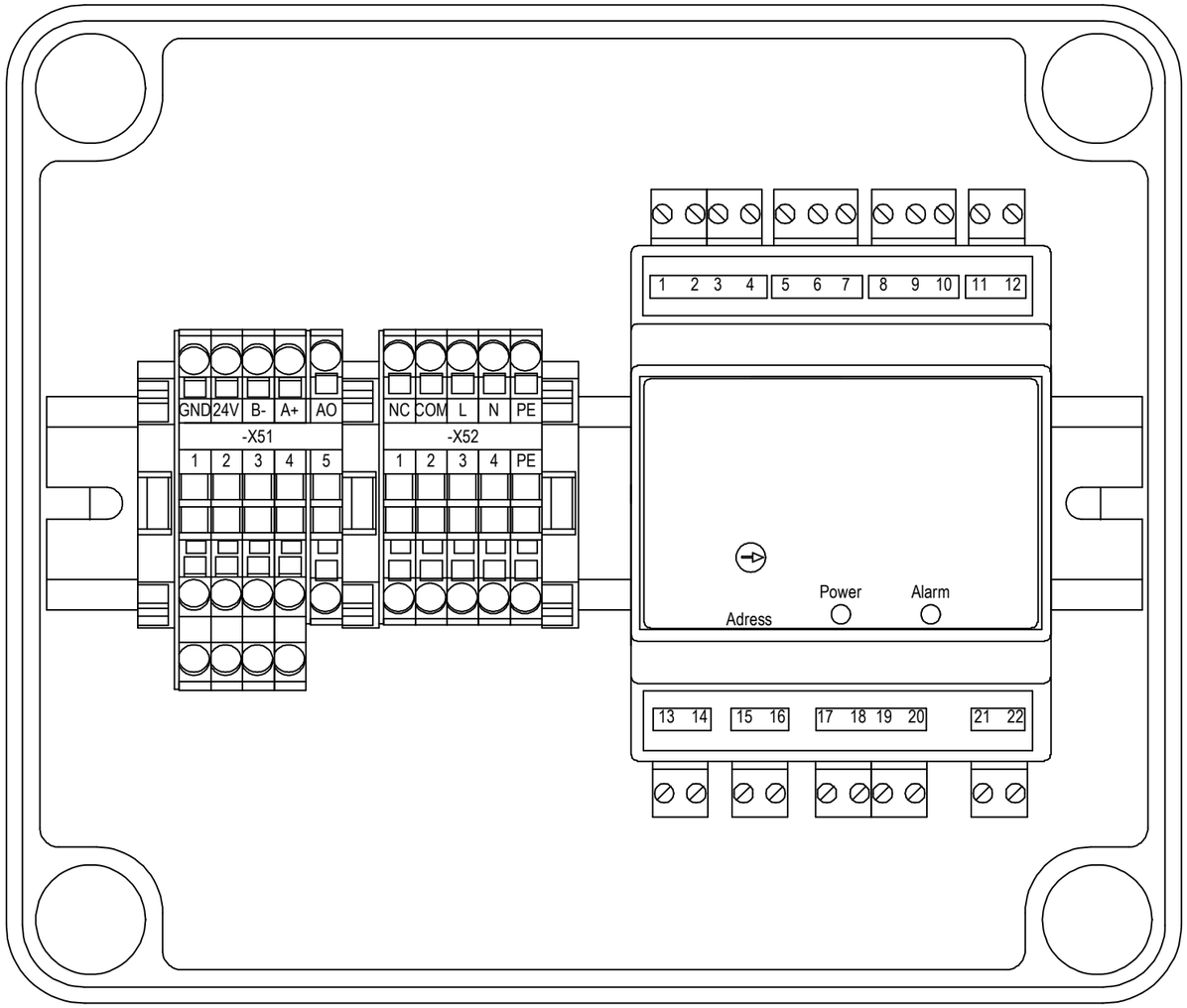


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| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 42 |
| Drawing number: 2028124 | Revision: C | Page Title: Option - Coil control box layout | Replaces: | B | Scale: | 1:1 | Next page: 51 |
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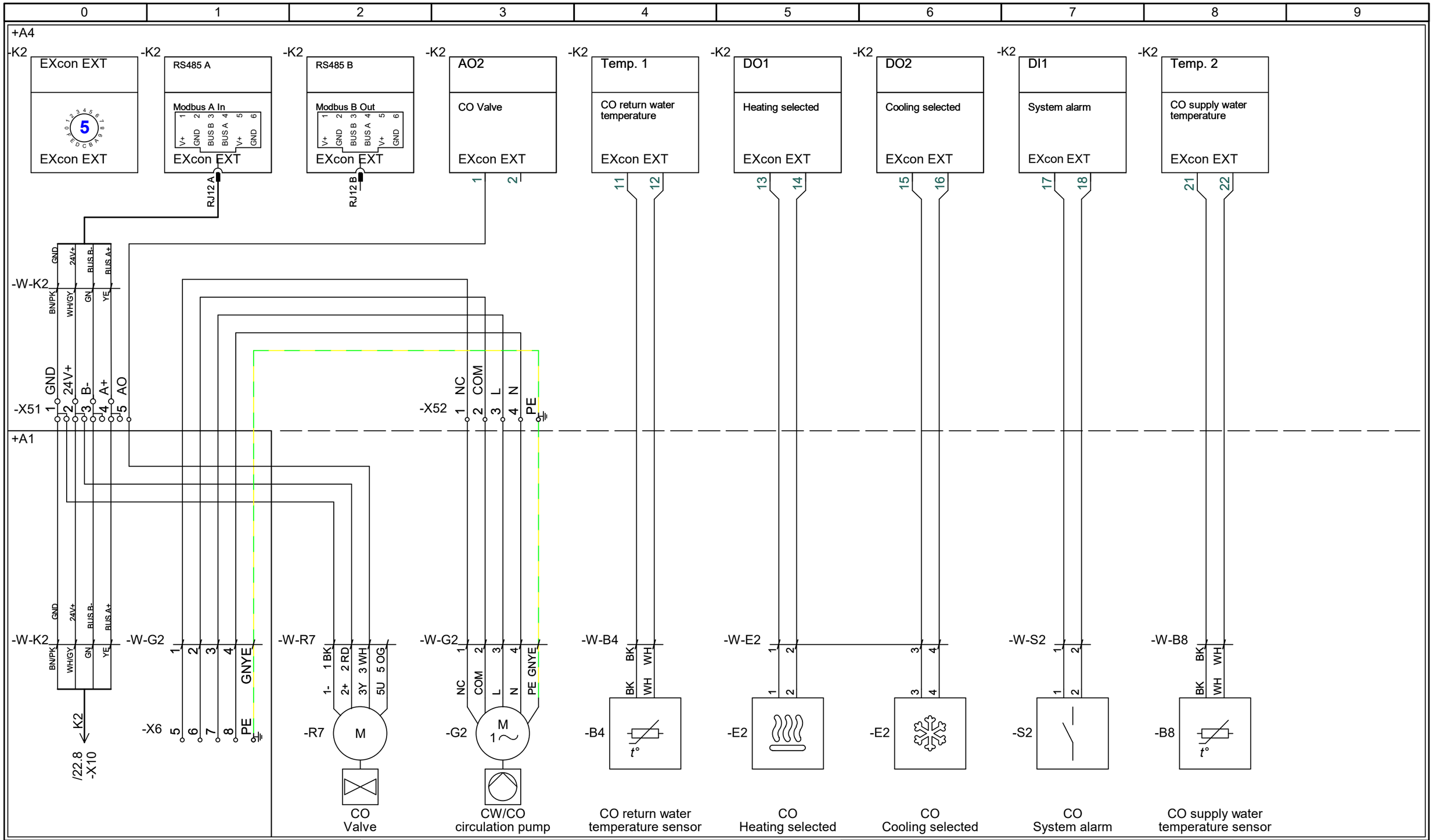


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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 50 |
| Drawing number: 2028124 | Revision: C | Page Title: Option - Combi Coil | Replaces: B | Scale: 1:1 | Next page: 52 |
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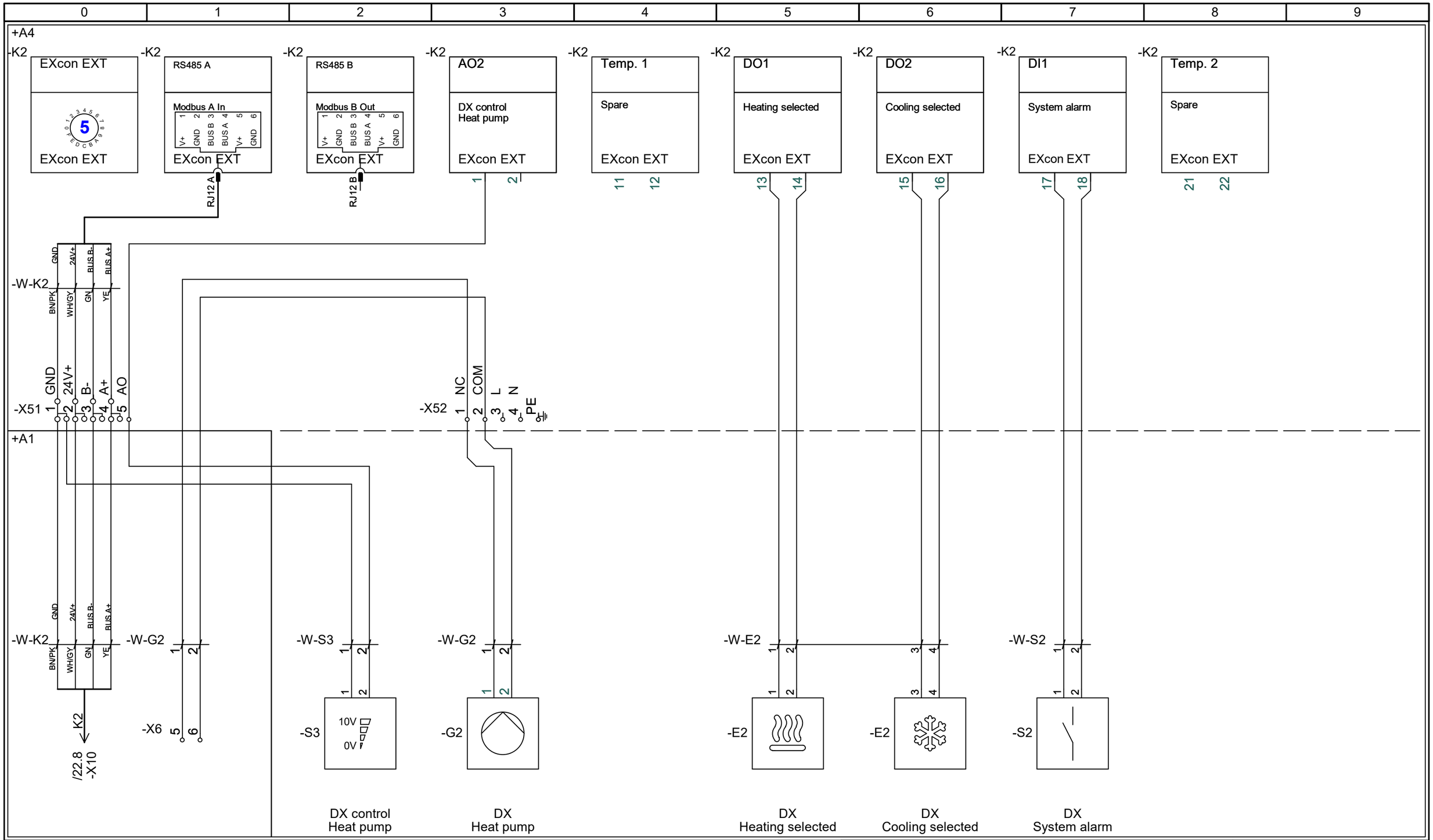


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| | | | Revision date: | 21-10-2025 | Approved by: | | Previous page: 51 |
| Drawing number: 2028124 | Revision: C | Page Title: Option - Direct Expansion Heat pump | Replaces: | B | Scale: | 1:1 | Next page: 53 |
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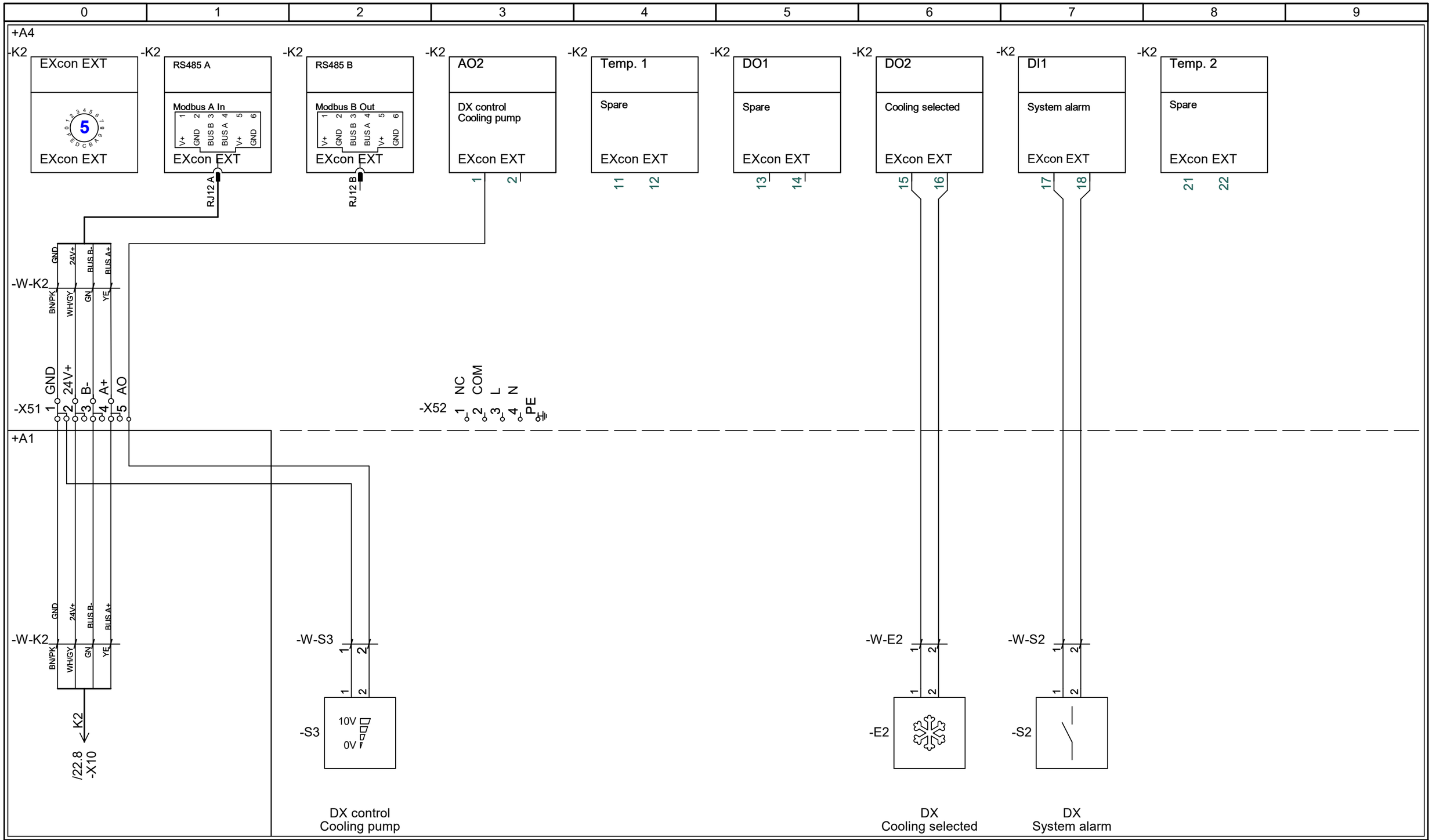


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| | | | Revision date: 21-10-2025 | Approved by: | Previous page: 52 |
| Drawing number: 2028124 | Revision: C | Page Title: Option - Direct Expansion Cooling | Replaces: B | Scale: 1:1 | Next page: . |
| | | | EC no.: - | Format: A3 | Pages in total: 36 |