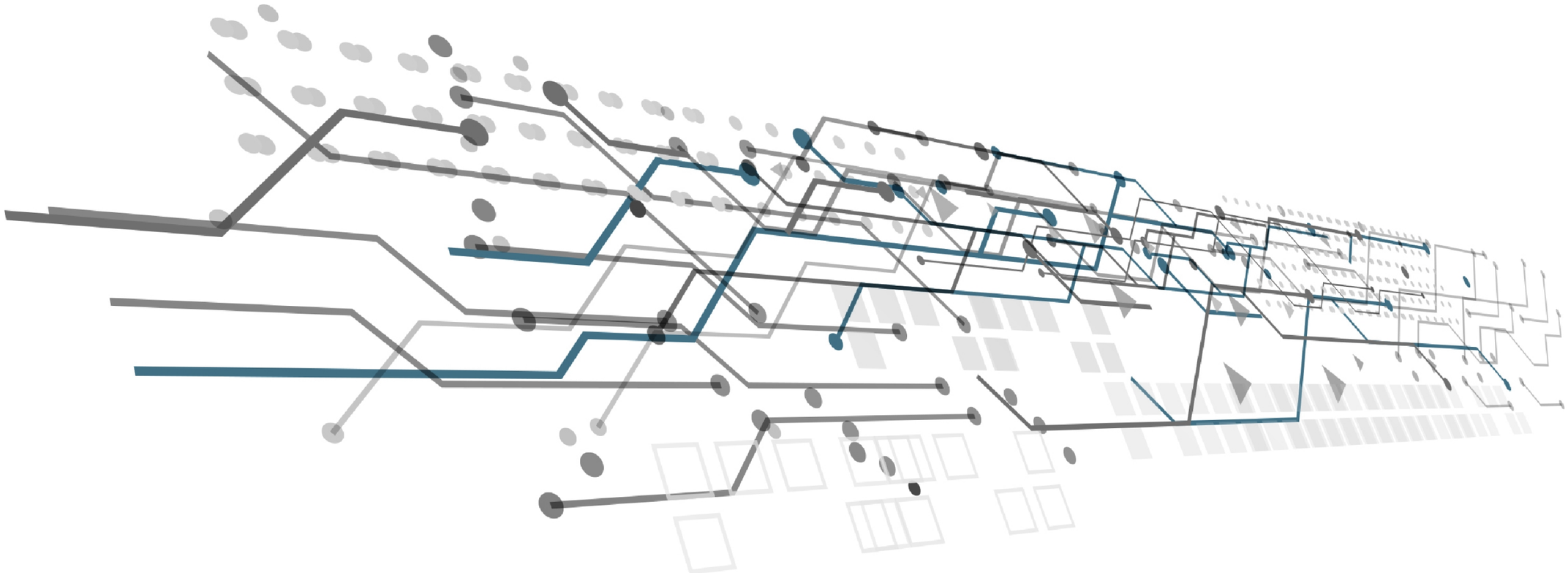
VEX1000 Wiring diagram

EXcon+ automatic
EXcon+ automatik
Système de régulation EXcon+



EXHAUSTO A/S
Odensevej 76 · DK-5550 Langeskov
Tel. +45 65661234 · exhausto@exhausto.dk
www.exhausto.dk

a member of
Soler&Palau Ventilation Group

EXHAUSTO

VEX1000 - Customized CR (3x230VAC FANS)

2027962

Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	1
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	0
Drawing number: 2027962	Page Title: Project information	Revision:	F	Scale:	1:1	Next page:	2
		Replaces revision:	D	Format:	A3	Pages in total:	40

Page	Title (en)	Titel (de)	Titre (fr)	Last edit
1	Project information	Projektinformationen	Informations sur le projet	04-08-2026
4	Standards	Normen und Standards	Normes	17-08-2026
5	Standards	Normen und Standards	Normes	17-08-2026
6	Component overview	Komponentenübersicht	Vue d’ensemble des composants	17-08-2026
9	Principles for all configuration options	Prinzipien für alle Konfigurationsoptionen	Principes pour toutes les options de configuration	21-07-2026
10	Basic control panel 3x400V	Basis-Schaltschrank 3x400V	Armoire de commande de base 3x400V	06-08-2026
11	Supplementary selections	Zusätzliche Auswahl	Sélections supplémentaires	06-08-2026
12	Control panel terminals	Klemmen des Schaltschranks	Bornes du tableau de commande	05-08-2026
20	Main current	Hauptstrom	Courant principal	06-08-2026
21	Power analyzers - 3 phase	Leistungsanalysatoren - 3 Phasen	Analyseurs de puissance - triphasés	06-08-2026
22	Pilot current	Steuerstrom	Courant pilote	05-08-2026
23	Standard - Modbus connections	Standard – Modbus-Anschlüsse	Standard – Raccordements pour modbus	06-08-2026
24	Standard - Fan & Rotor/Bypass controls	Standard – Ventilator- und Rotor-/Bypass-Steuerungen	Standard – Commandes by-pass / du ventilateur et du rotor	06-08-2026
25	Standard - Dampers	Standard - Klappen	Standard - Volets	06-08-2026
26	Options - Dampers	Optionen - Klappen	Options - Volets	05-08-2026
27	Options - Pre-heating controls	Optionen - Vorheizregelung	Options – Commandes de préchauffage	06-08-2026
28	Options - Post-heating controls	Optionen - Nachheizregelung	Options – Commandes de post-chauffage	06-08-2026
29	Options - HW/CW/CO controls	Optionen – HW/CW/CO-Regler	Options – Commandes HW/CW/CO	06-08-2026
30	Options - Temperature & CO2 sensors	Optionen – Temperatur- und CO2-Sensoren	Options – Capteurs de température et de CO2	06-08-2026
31	Standard - Customer connections	Standard – Kundenseitige Anschlüsse	Standard – Raccordements du client	17-08-2026
40	Standard - Dual PTH 1	Standard – Dual PTH 1	Standard – Dual PTH 1	29-07-2026
41	Standard - Dual PTH 2	Standard – Dual PTH 2	Standard – Dual PTH 2	05-08-2026
42	Option - ALC™ - Rotor deicing - HR temperature	Option - ALC™ - Rotorenteisung - WRG-Temperatur	Option - ALC™ - Dégivrage du rotor - Température RC	05-08-2026
43	Option - Counter-flow deicing - HR temperature	Option - Gegenstrom-Abtauung - WRG-Temperatur	Option - Dégivrage à contre-courant - Température RC	29-07-2026
50	Option – Coil control box layout	Option - Layout des Register-Schaltkastens	Option - Implantation coffret régulation batterie	28-07-2026
51	Option - Combi Coil (CO)	Option – Kombiregister (CO)	Option - Serpentin mixte (CO)	04-08-2026
52	Option - Direct Expansion Heat pump (DX)	Option – Direktexpansions-Heizregister (DX)	Option - Batterie de chauffage à détente directe (DX)	04-08-2026
53	Option - Direct Expansion Cooling (DX)	Option – Kühlregister für Direkte Expansion (DX)	Option - Batterie de refroidissement à détente directe (DX)	04-08-2026
PARTS	Part list for active components -A1	Stückliste aktiver Komponenten -A1	Nomenclature des composants actifs -A1	06-08-2026

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

Main current:	Hauptstrom:	Circuit de puissance:	400/230VAC
Phase:	Phase:	Phase :	BK
Neutral:	Neutral:	Neutre :	BK
Earth:	Erde:	Terre :	GNYE
Pilot current:	Steuerstrom:	Circuit de commande:	230/24VAC
Phase:	Phase:	Phase :	RD
Neutral:	Neutral:	Neutre :	RD
Earth:	Erde:	Terre :	GNYE
Pilot current:	Steuerstrom:	Circuit de commande:	24VDC
Positive (+):	Positiv (+):	Positif (+) :	BU
Negative (-):	Negativ (-):	Négatif (-) :	BU
Unknown potential:	Unbekanntes Potenzial:	Potentiel indéterminé:	
All:	Alle:	Tout:	OG

Abbreviations of colours (according to IEC 60757)

Black	Schwarz	Noir	BK
Brown	Braun	Brun	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)

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 de fils dédiés
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

Component	Location (en)	Standort (de)	Emplacement (fr)
+A0	Customer connections	Kundenanschlüsse	Raccordements du client
+A1	Control Panel	Schaltschrank	Tableau électrique
+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
+A5	Coil control box	Registersteuerkasten	Boîtier de commande de serpentin

Component	Object	Examples	Objekt	Beispiele	Objet	Exemples
-B	Sensing	CO2 & temperature sensors	Sensorik	CO2- und Temperatursensoren	Détection	Sondes de CO2 et de température
-C	Storage	USB drives & application keys	Speicher	USB-Sticks und Anwendungsschlüssel	Stockage	Clés USB et clés d'application
-E	Emitting	Electric heaters	Emission	Elektrische Heizgeräte	Émetteur	Chauffages électriques
-F	Protecting	Miniature circuit-breaker	Schutz	Miniaturleistungsschalter	Protection	Disjoncteur magnétothermique
-G	Generating	Circulation pumps	Erzeugung	Umwälzpumpen	Générateur	Pompes de circulation
-K	Information processing	AHU Controller	Informationsverarbeitung	RLT-Lüftungsgerätesteuerung	Traitement de l'information	Régulateur 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 (en)	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	Ablufttemperatur	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 airflow temperature correction	Zulufttemperatur-Korrektur	Correction de la température de l'air soufflé
-B3	Heating return water temperature sensor	Temperatursensor Heizungsrücklaufwasser	Sonde de température de l’eau de retour (chauffage)
-B4	CO/CW return water temperature sensor	CO/CW-Rücklauf-Temperatursensor	Capteur de température de retour eau chaude / eau froide
-B5	Outdoor air temperature sensor (Pre-heater)	Außenluft-Temperatursensor (Vorwärmgerät)	Capteur de température de l'air extérieur (pré-chauffage)
-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
-B9	Heat recovery temperature	Wärmerückgewinnungstemperatur	Température de récupération de chaleur
-BP1	Dual PTH 1	Dual PTH 1	Dual PTH 1
-BP2	Dual PTH 2	Dual PTH 2	Dual PTH 2
-BP3	Dual PTH 3	Dual PTH 3	Dual PTH 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 Nachheizen	MCB pour post-chauffage 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

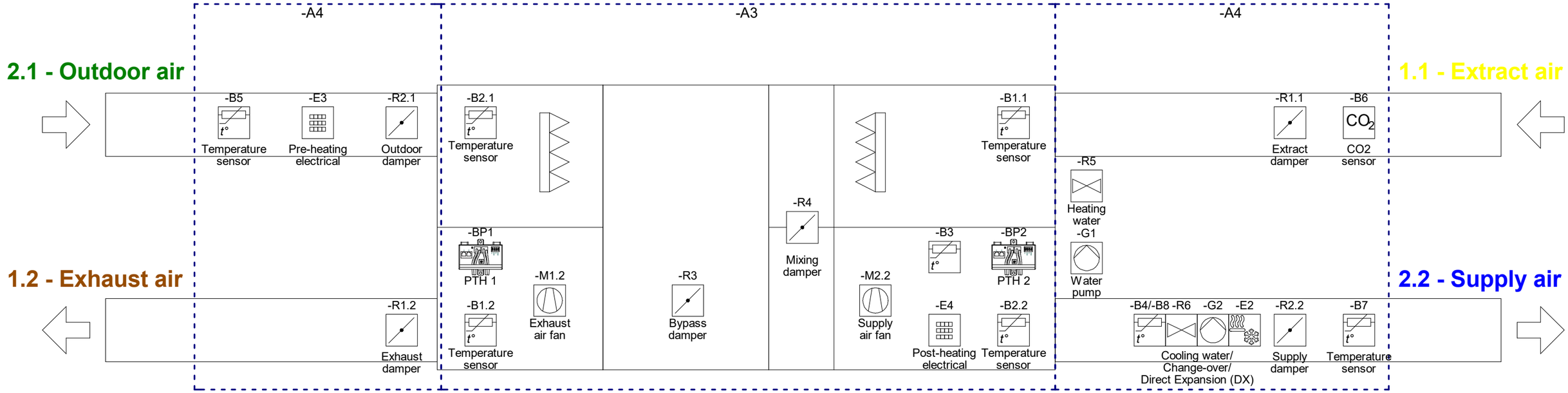
Component	Function (en)	Funktion (de)	Fonction (fr)
-K2	EXT module for Change over	EXT-Modul für Change-Over	Module EXT pour inversion
-K10	Power analyzer main power	Leistungsanalysator Hauptstromversorgung	Analyseur de puissance alimentation principale
-K11	Power analyzer electric heater	Leistungsanalysator elektrische Heizung	Analyseur de puissance de chauffage électrique
-M1.2	Exhaust air fan	Fortluftventilator	Ventilateur d'extraction
-M2.2	Supply air fan	Zuluftventilator	Ventilateur de soufflage
-M3	Rotor	Rotor	Rotor
-PE1	Earthing terminal block	Schutzleiterklemme	Bloc de jonction de terre
-Q1	Supply disconnecting device	Versorgungstrennvorrichtung	Dispositif de coupure de l’alimentation
-R1.1	Extract air damper (ALC™)	Abluftklappe (ALC™)	Volet d'air extrait (ALC™)
-R1.2	Exhaust air damper	Fortluftklappe	Volet d'air rejeté
-R2.1	Outdoor air damper	Außenluftklappe	Volet d'air extérieur
-R2.2	Supply air damper	Zuluftklappe	Volet d'air soufflé
-R3	Bypass damper	Bypassklappe	Volet de bypass
-R4	Mixing air damper	Mischluftklappe	Volet 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
-U1	Control Panel	Schaltschrank	Tableau de commande
-X1.1	Aggregate power plug	Stecker für Gerätestrom	Connecteur de puissance de l'appareil
-X1.2	Aggregate signal plug	Stecker für Gerätesignal	Connecteur de signal de l'appareil
-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 signaux de l'appareil
-X2	Air dampers terminals	Klemmen für Luftklappen	Bornes des volets d’air

Component	Function (en)	Funktion (de)	Fonction (fr)
-X3	Pre-HE signal terminals	Vorheizregister-Signalklemmen	Bornes de signal de préchauffage
-X4	Electric post-heating terminals	Klemmen für elektrisches Nachheizen	Bornes de post-chauffage électrique
-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 pour sondes de température et de CO2
-X8	Customer connections terminals	Kundenseitige Anschlussklemmen	Bornes de raccord client
-X9	Power analyzer terminals	Klemmen für Leistungsanalysator	Bornes des analyseur de puissance
-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	Bornes MODBUS et de signal CO/DX
-X52	CO/DX Power & signal terminals	CO/DX Strom- und Signalklemmen	CO/DX Bornes d'alimentation et de signal
-X-B3	Heating return water temperature sensor plug	Stecker für Temperatursensor Heizungsrücklauf	Connecteur capteur de température retour eau de chauffage
-X-E4.2	Electric heating plug	Stecker für Elektroheizung	Connecteur de chauffage électrique
-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-R1.1	Extract air damper (ALC™) plug	Stecker für Abluftklappe (ALC™)	Connecteur du volet d'air extrait (ALC™)
-X-R1.2	Exhaust air damper plug	Stecker für Fortluftklappe	Connecteur du volet d'air rejeté
-X-R2.1	Outdoor air damper plug	Stecker für Außenluftklappe	Connecteur du volet d'air extérieur
-X-R2.2	Supply air damper plug	Stecker für Zuluftklappe	Connecteur du volet d'air soufflé
-X-R3	Bypass damper plug	Stecker für Bypassklappe	Connecteur du volet de bypass
-X-R4	Mixing air damper plug	Stecker für Mischluftklappe	Connecteur du volet d'air de recirculation

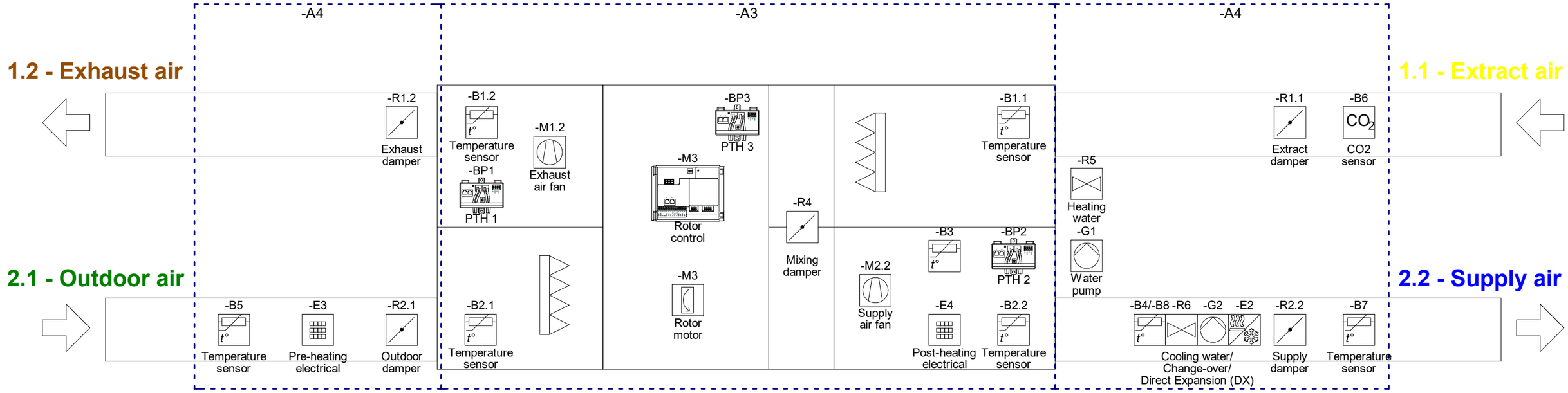
Principles

Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	Principles
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	8
Drawing number: 2027962	Page Title: Principles	Revision:	F	Scale:	1:1	Next page:	9
		Replaces revision:	D	Format:	A3	Pages in total:	40

COUNTER-FLOW



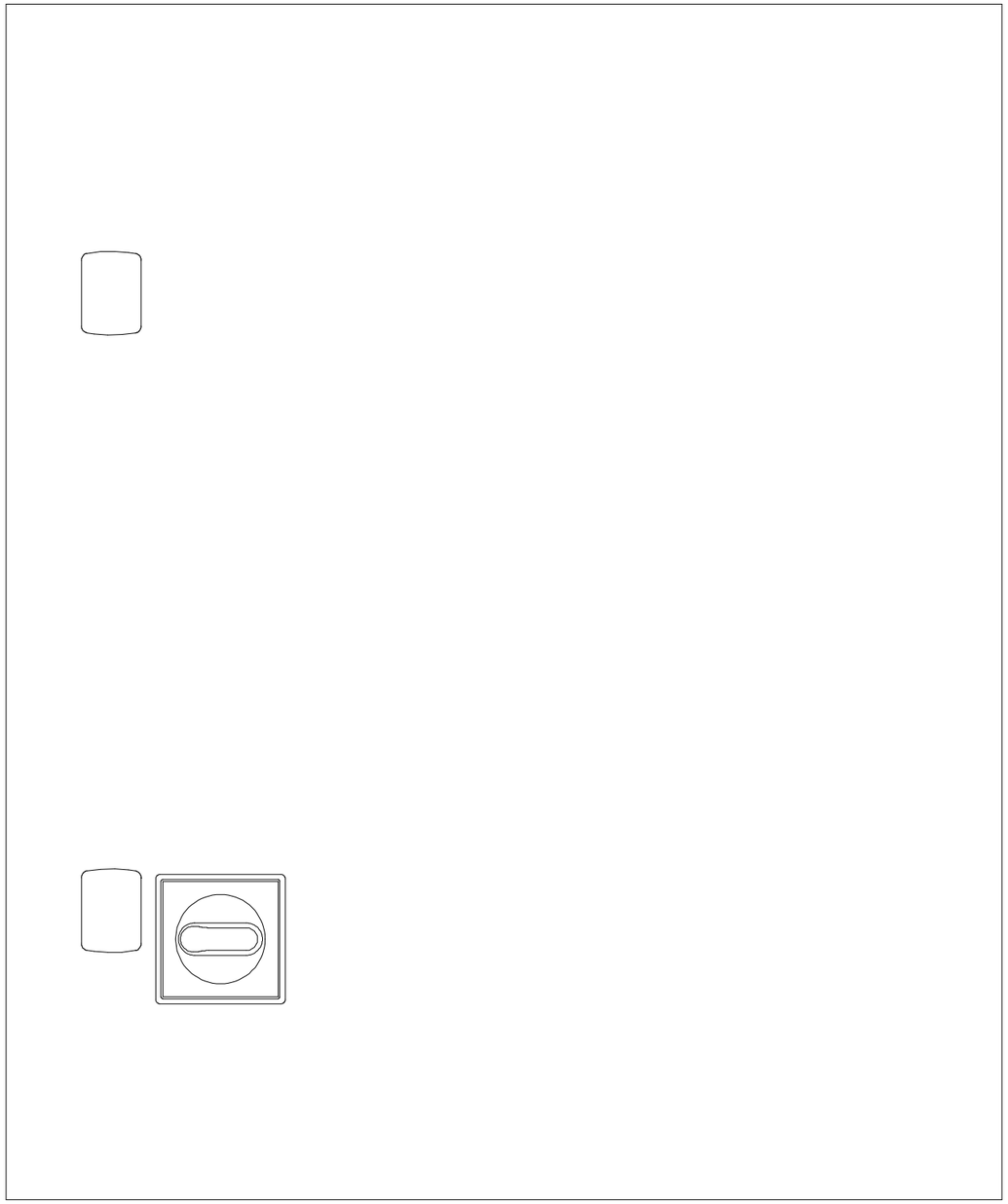
ROTOR

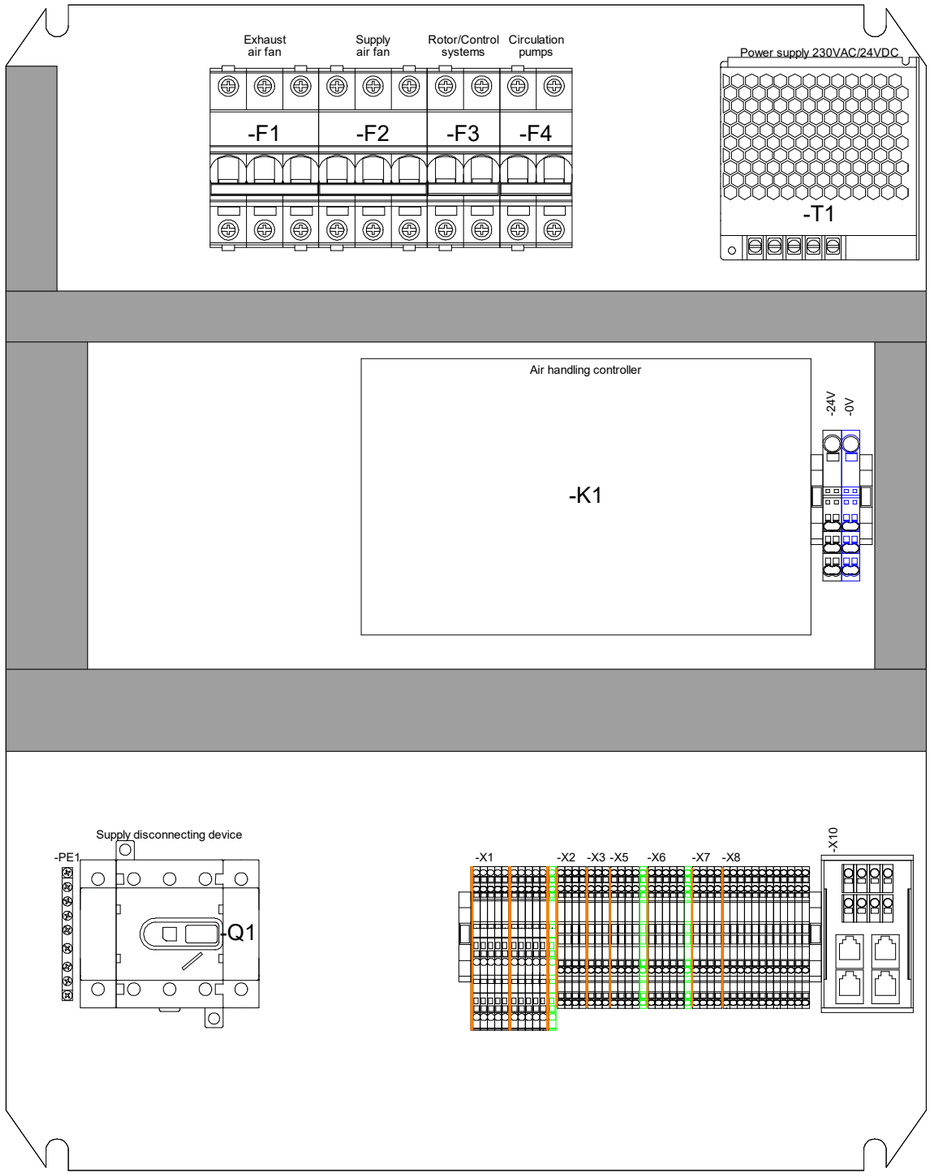


Manufactured by:	Project:	Start date:	01-06-2023	Constructor:	DKTSA	Page:	9
EXHAUSTO	VEX1000 - Customized CR (3x230VAC FANS)	Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	8
Drawing number:	Page Title:	Revision:	F	Scale:	1:5	Next page:	10
2027962	Principles for all configuration options	Replaces revision:	D	Format:	A3	Pages in total:	40

Arrangement drawings

Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	Arrangement
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	9
Drawing number: 2027962	Page Title: Arrangement drawings	Revision:	F	Scale:	1:1	Next page:	10
		Replaces revision:	D	Format:	A3	Pages in total:	40





Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: 10
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 9
Drawing number: 2027962	Page Title: Basic control panel 3x400V	Revision:	F	Scale:	1:3	Next page: 11
		Replaces revision:	D	Format:	A3	Pages in total: 40

Supplementary selections

Option 1: Power supply Electric heater (HE)

-F10 Circuit breaker 4P
-X4 Wire terminals

Option 2: Power analyser Main power (PAM)

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

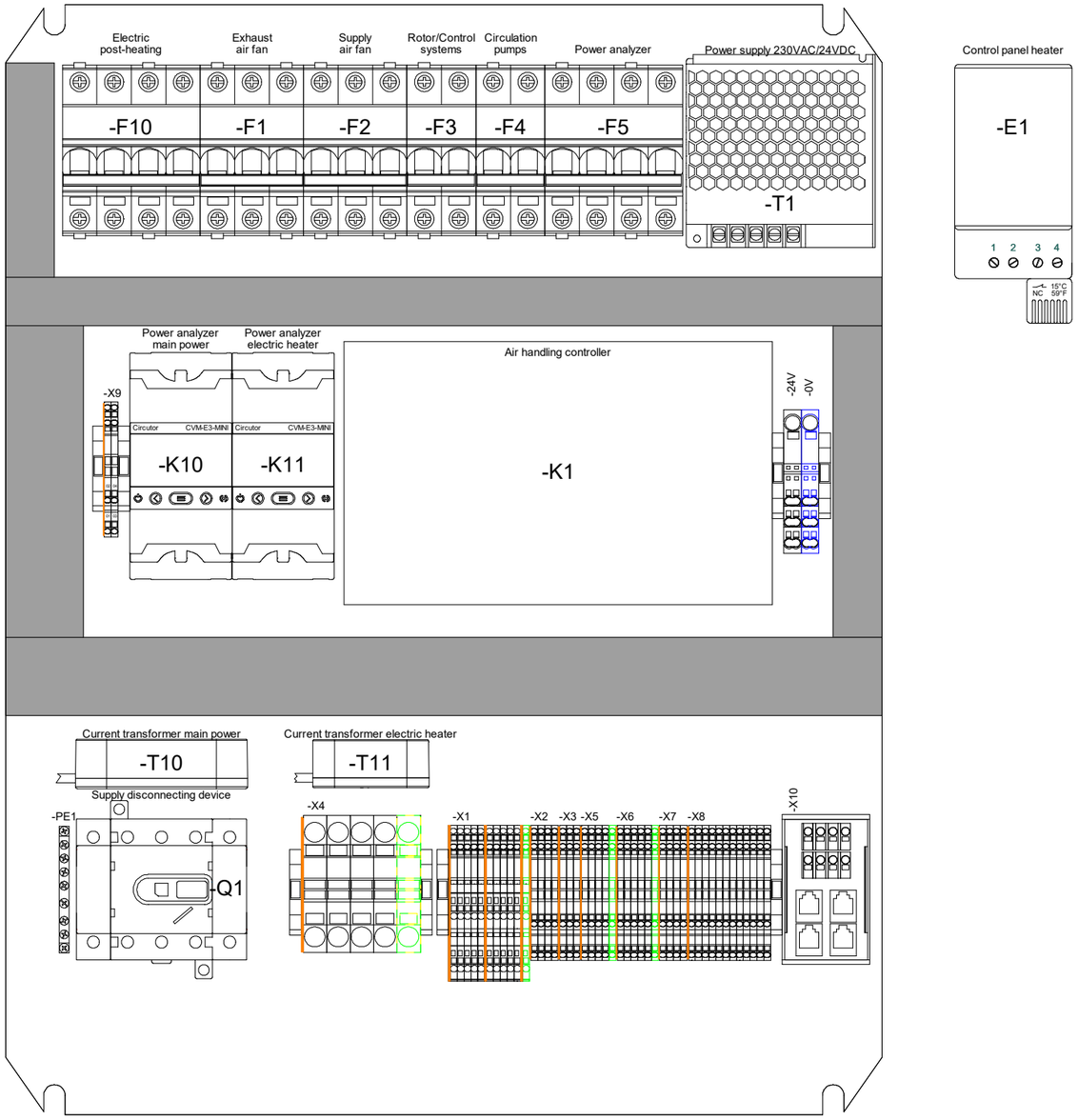
Option 3: Power analyser Electric heater (PAH)

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

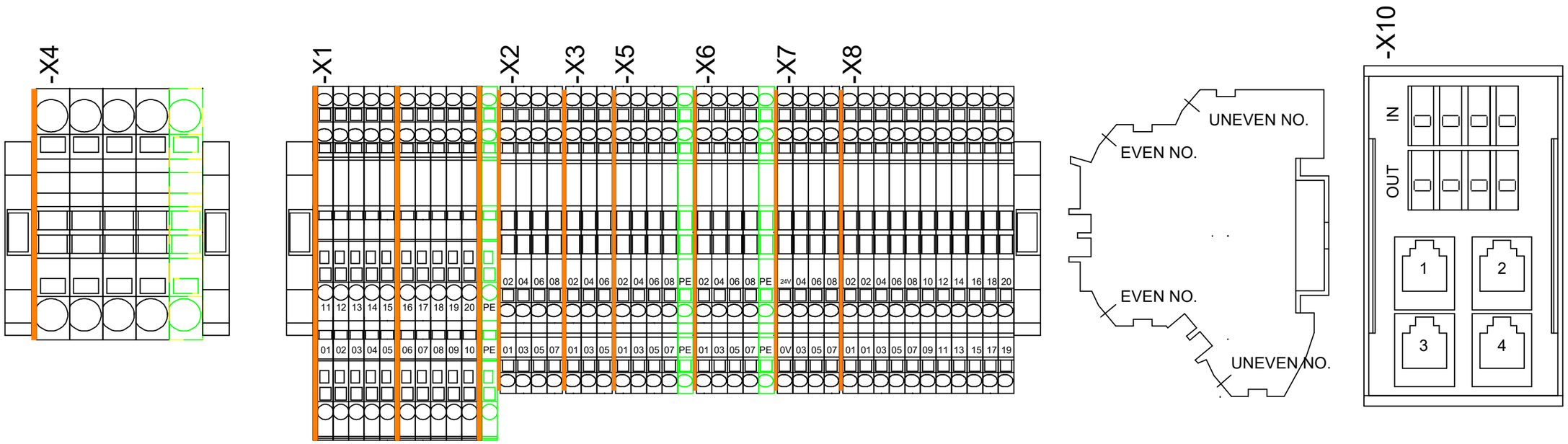
Option 3 is not selectable without option 1 and 2.

Option 4: Control panel heater

-E1 Control panel heater



Manufactured by:	Project:	Start date: 01-06-2023	Constructor: DKTSA	Page: 11
EXHAUSTO	VEX1000 - Customized CR (3x230VAC FANS)	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 10
Drawing number:	Page Title:	Revision: F	Scale: 1:3	Next page: 12
2027962	Supplementary selections	Replaces revision: D	Format: A3	Pages in total: 40



-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
-X4:01	-E4	PWR Electric heating	L1
-X4:02	-E4	PWR Electric heating	L2
-X4:03	-E4	PWR Electric heating	L3
-X4:04	-E4	PWR Electric heating	N
-X4:PE	-E4	PWR Electric heating	PE

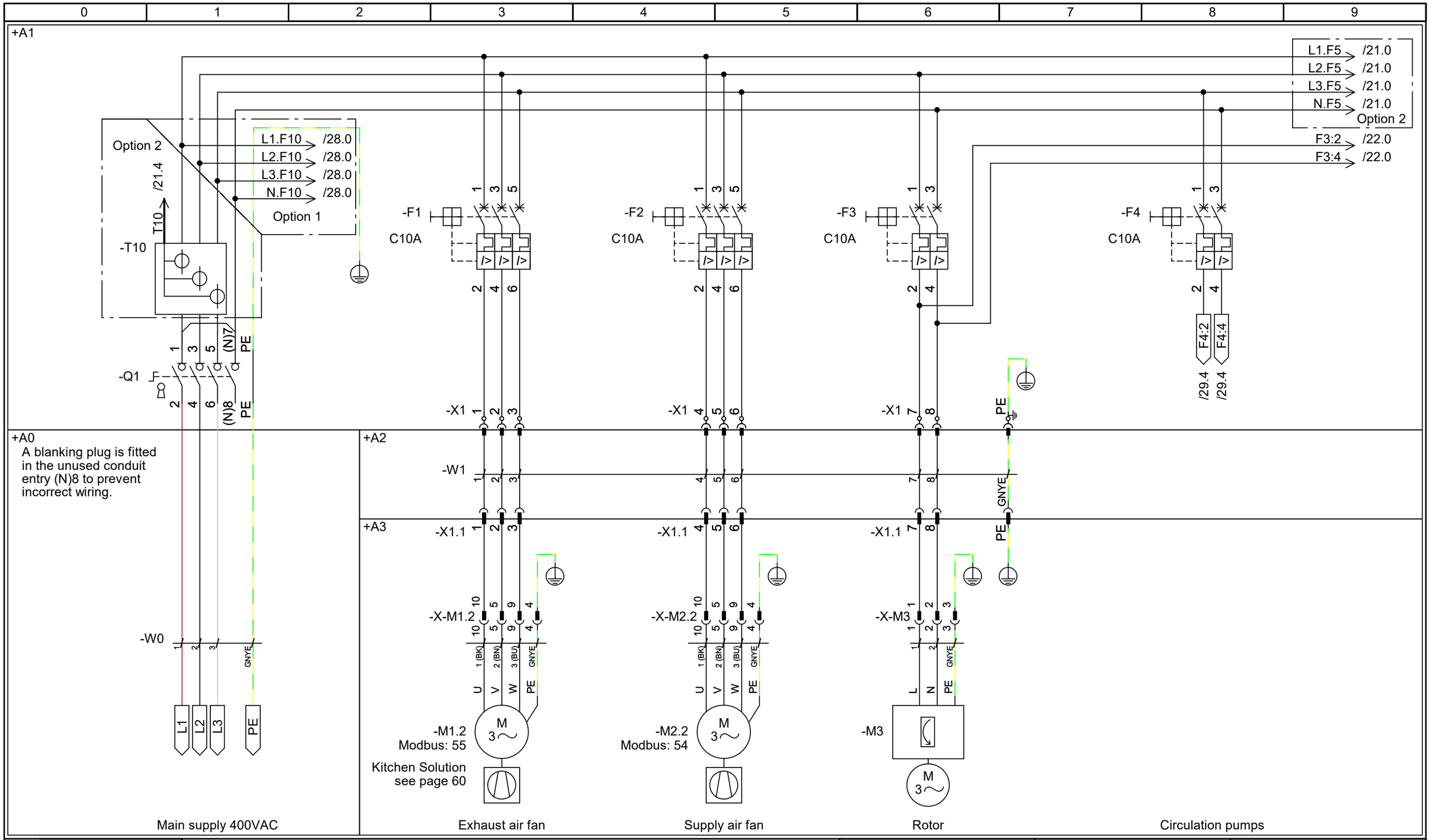
-X5:01	-R1	Valve HW	0V
-X5:02	-R1	Valve HW	24V
-X5:03	-R1	Valve HW	Signal
-X5:04	-R1	Valve HW	Not used
-X5:05	-G1	HW circulation pump	NC
-X5:06	-G1	HW circulation pump	COM
-X5:07	-G1	HW circulation pump	L
-X5:08	-G1	HW circulation pump	N
-X5:PE	-G1	HW circulation pump	PE
-X6:01	-R2	Valve CW/CO	0V
-X6:02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

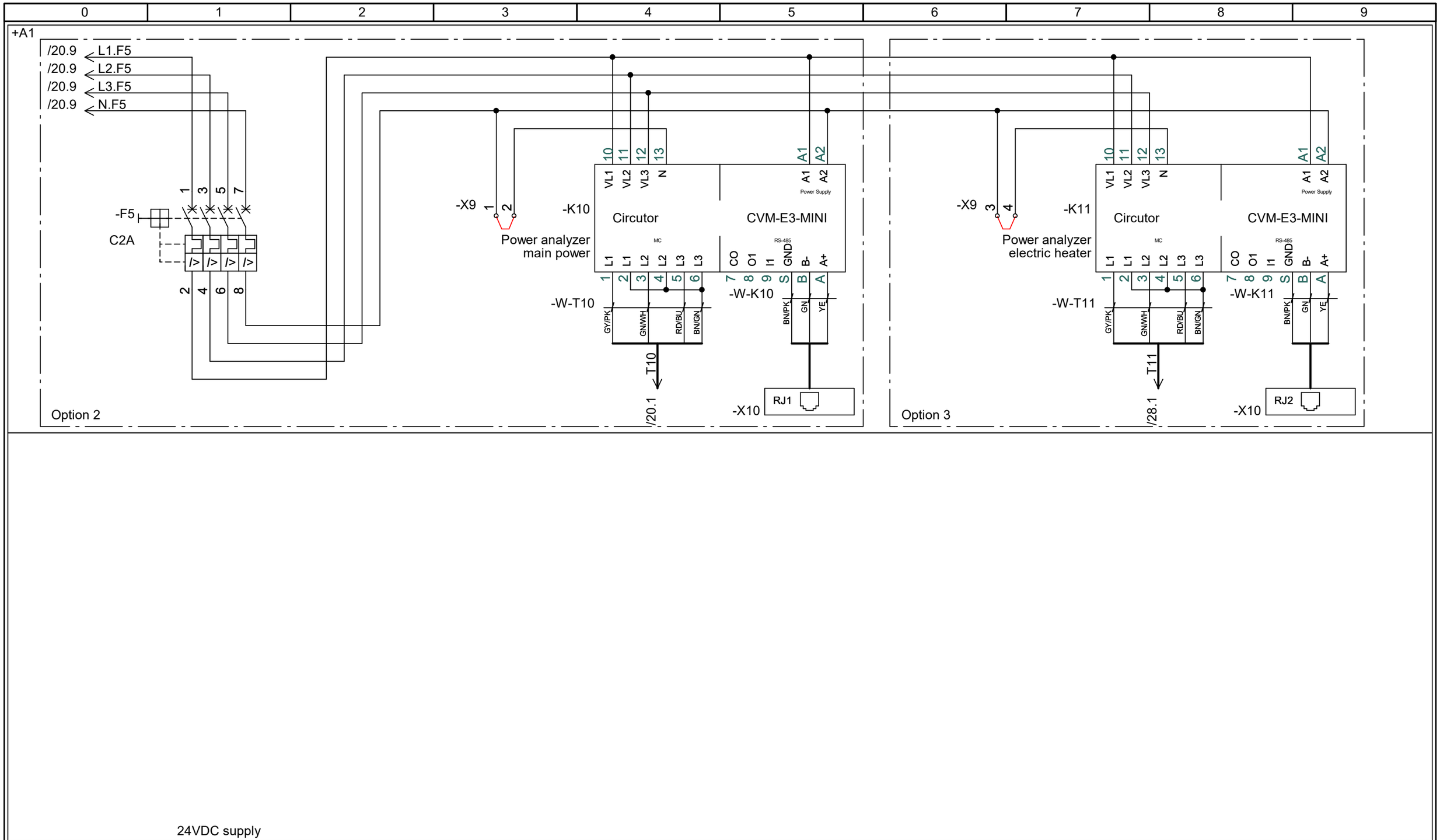
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 12
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 11
Drawing number: 2027962	Page Title: Control panel terminals	Revision: F	Scale: 1:1	Next page: 20
		Replaces revision: D	Format: A3	Pages in total: 40

Circuit diagrams

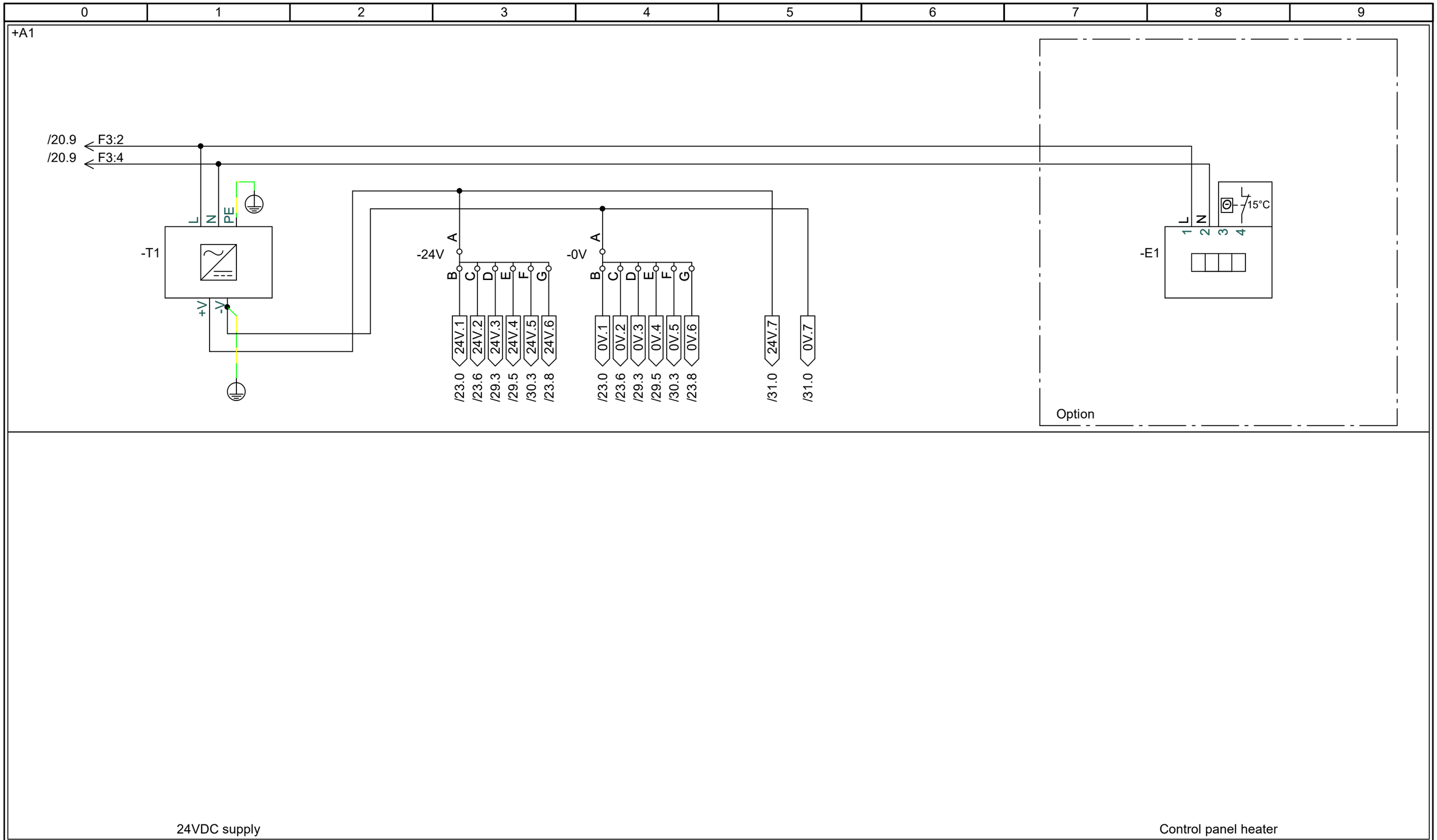
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	Circuit diagrams
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	12
Drawing number: 2027962	Page Title: Circuit diagrams	Revision:	F	Scale:	1:1	Next page:	20
		Replaces revision:	D	Format:	A3	Pages in total:	40



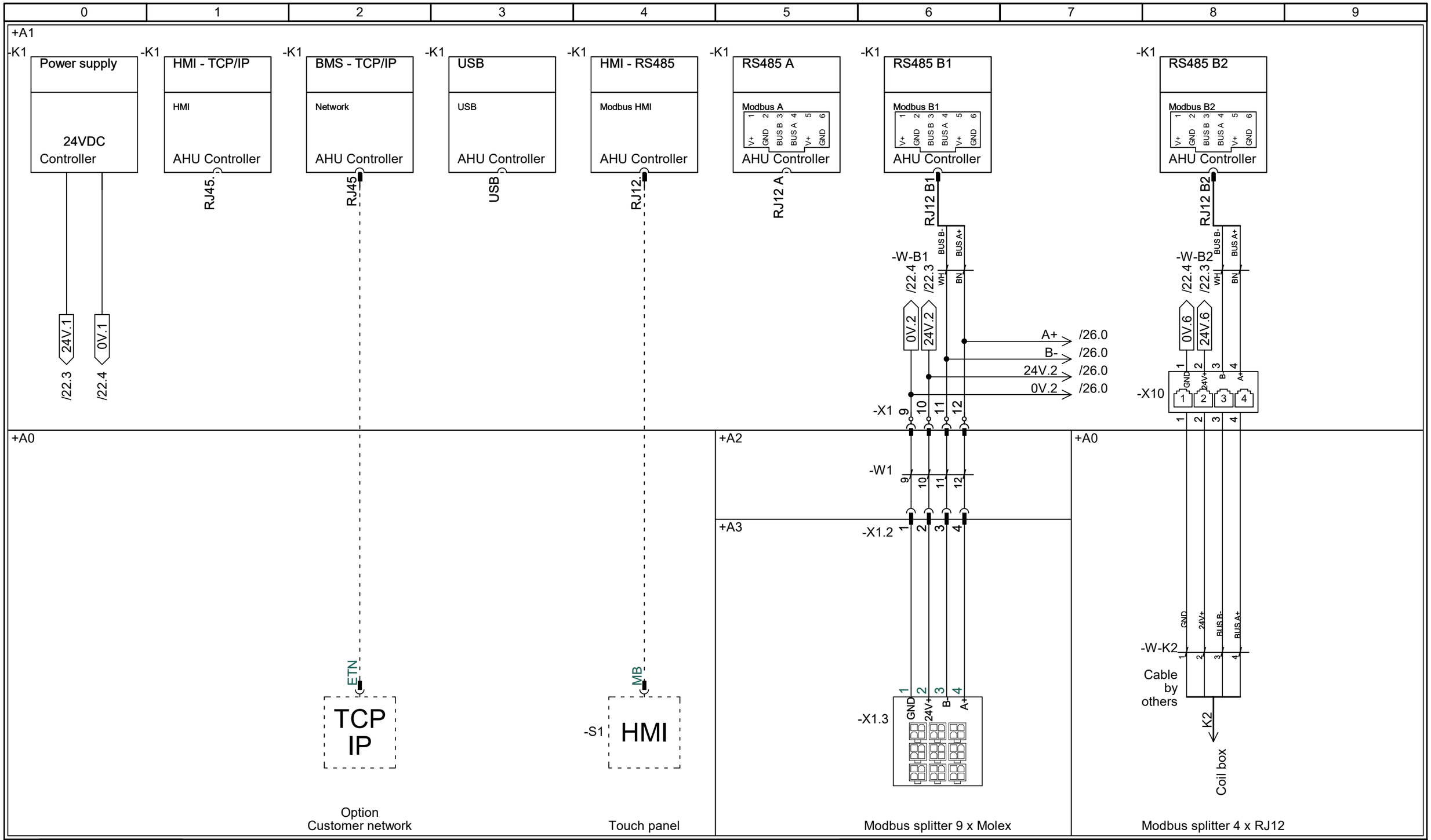
Manufactured by:	Project:					
EXHAUSTO	VEX1000 - Customized CR (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 20
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 12
Drawing number:	Page Title:	Revision: F	Scale: 1:1	Next page: 21
2027962	Main current	Replaces revision: D	Format: A3	Pages in total: 40



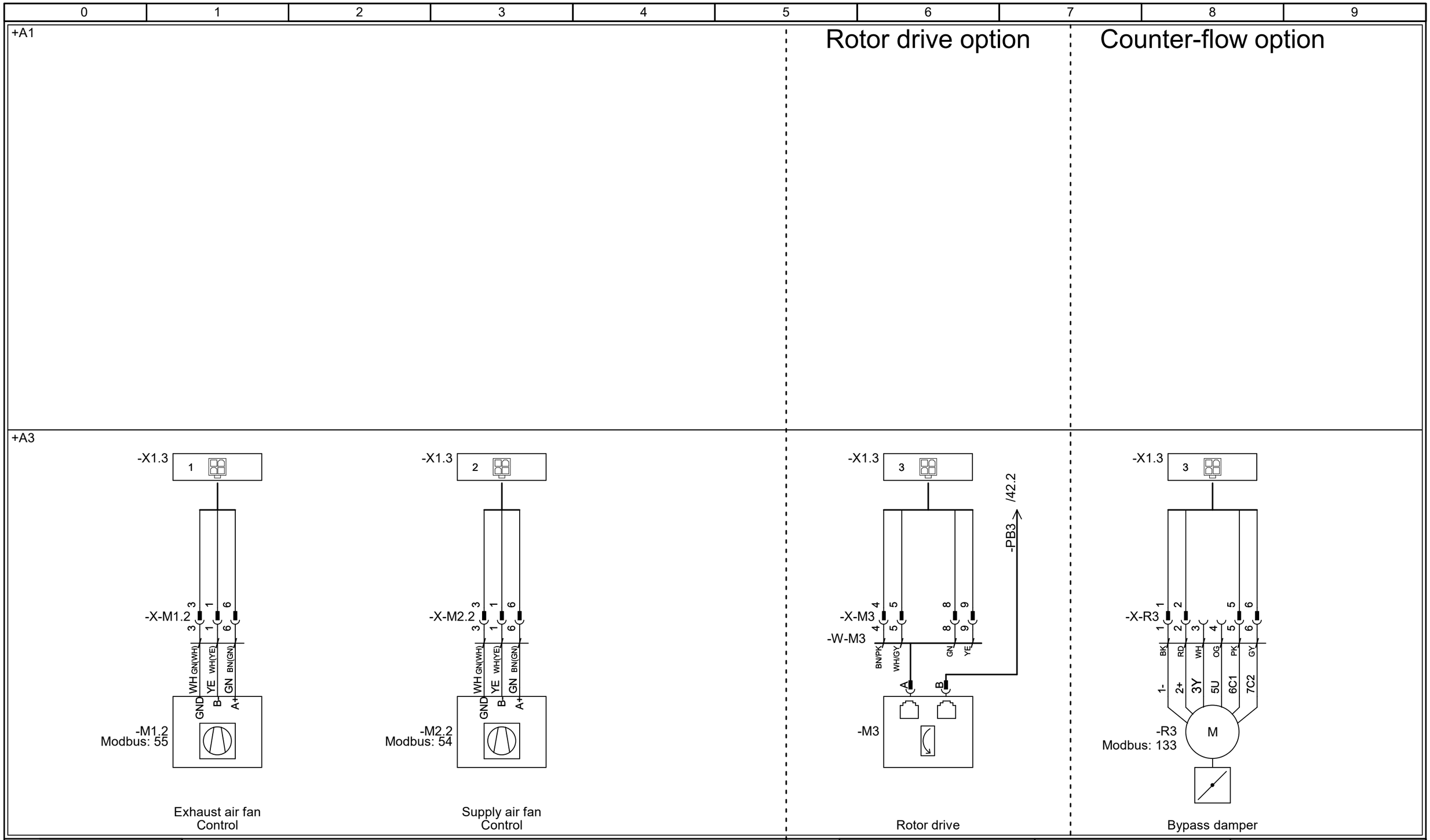
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	21
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	20
Drawing number: 2027962	Page Title: Power analyzers - 3 phase	Revision:	F	Scale:	1:1	Next page:	22
		Replaces revision:	D	Format:	A3	Pages in total:	40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: 22
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 21
Drawing number: 2027962	Page Title: Pilot current	Revision:	F	Scale:	1:1	Next page: 23
		Replaces revision:	D	Format:	A3	Pages in total: 40



Manufactured by:	Project:	Start date: 01-06-2023	Constructor: DKTSA	Page: 23
EXHAUSTO	VEX1000 - Customized CR (3x230VAC FANS)	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 22
Drawing number:	Page Title:	Revision: F	Scale: 1:1	Next page: 24
2027962	Standard - Modbus connections	Replaces revision: D	Format: A3	Pages in total: 40

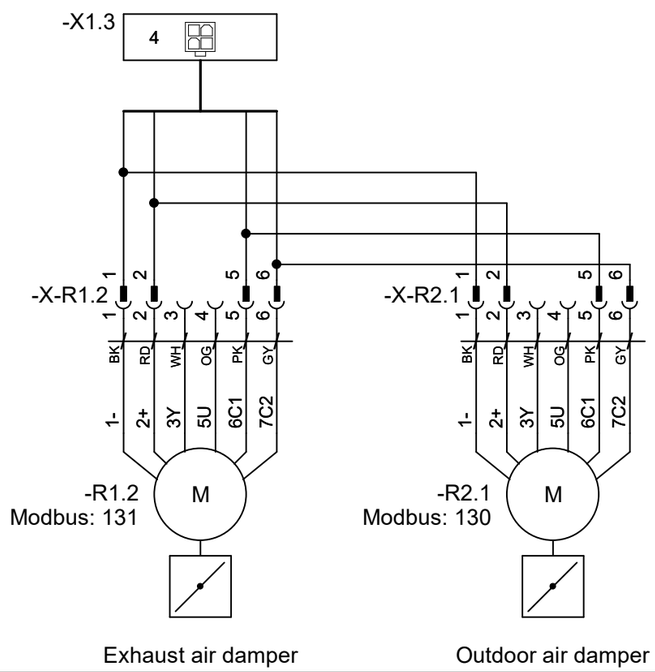


Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	24
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	23
Drawing number: 2027962	Page Title: Standard - Fan & Rotor/Bypass controls	Revision:	F	Scale:	1:1	Next page:	25
		Replaces revision:	D	Format:	A3	Pages in total:	40

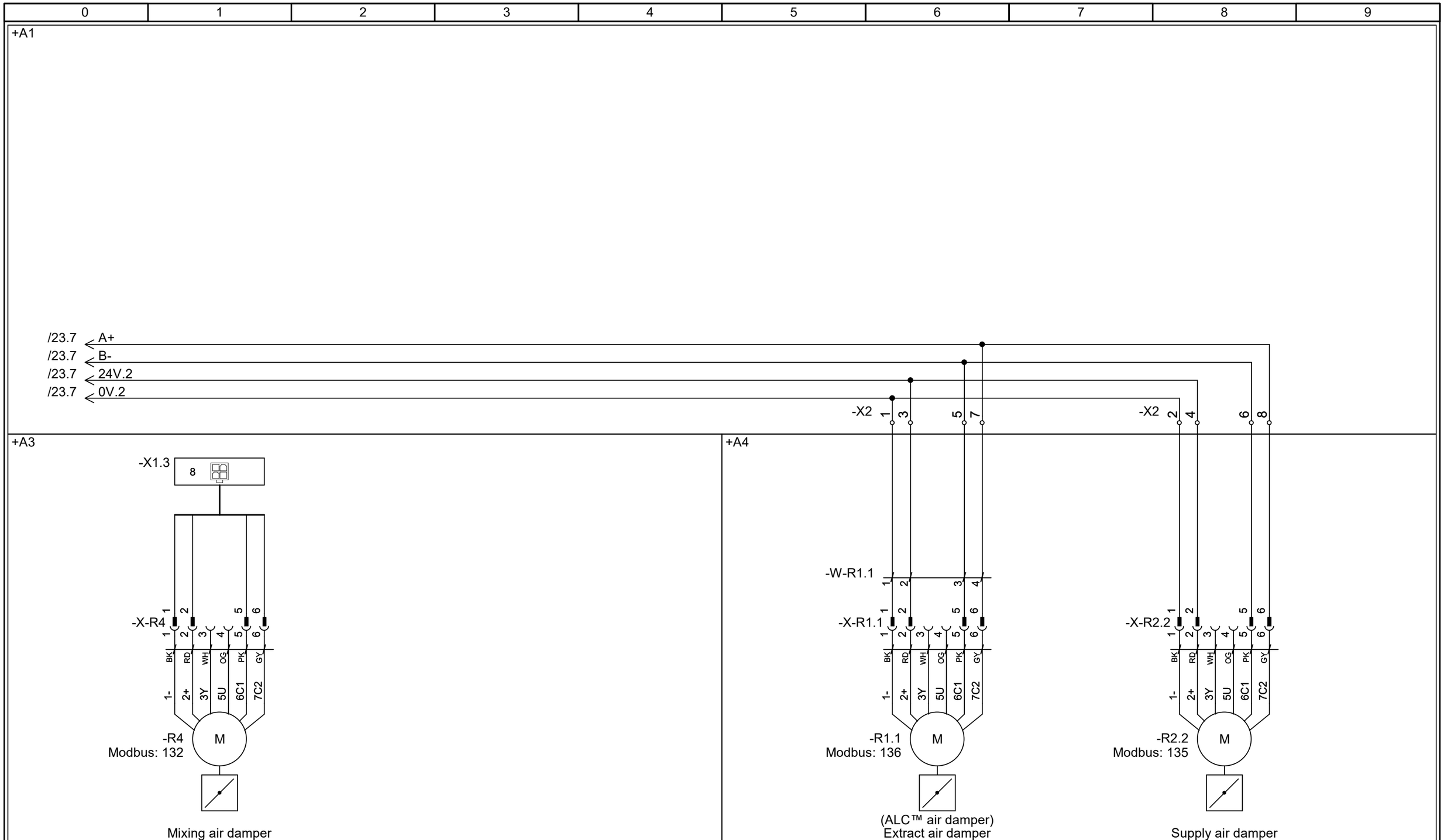
0	1	2	3	4	5	6	7	8	9

+A1

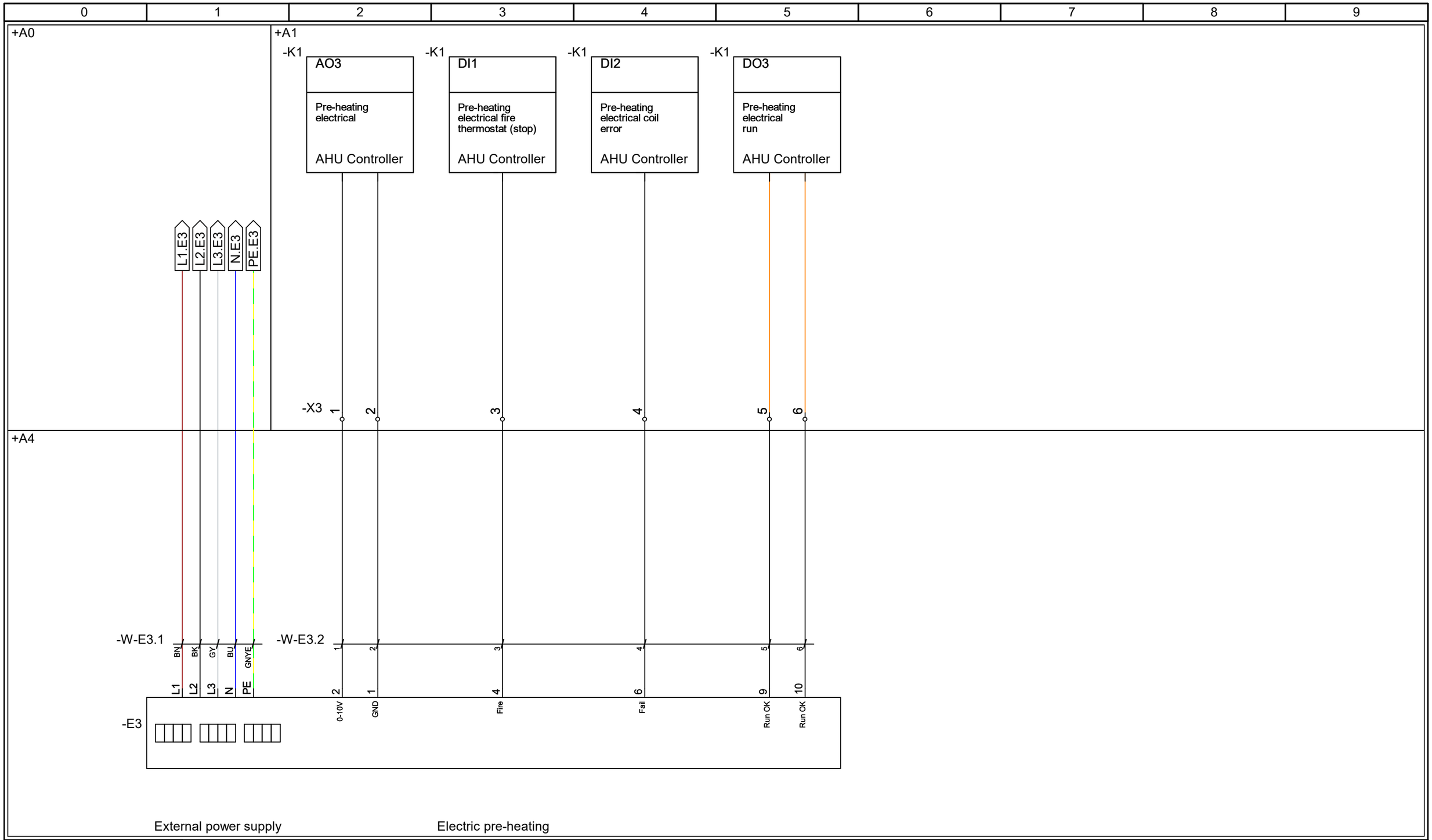
+A3



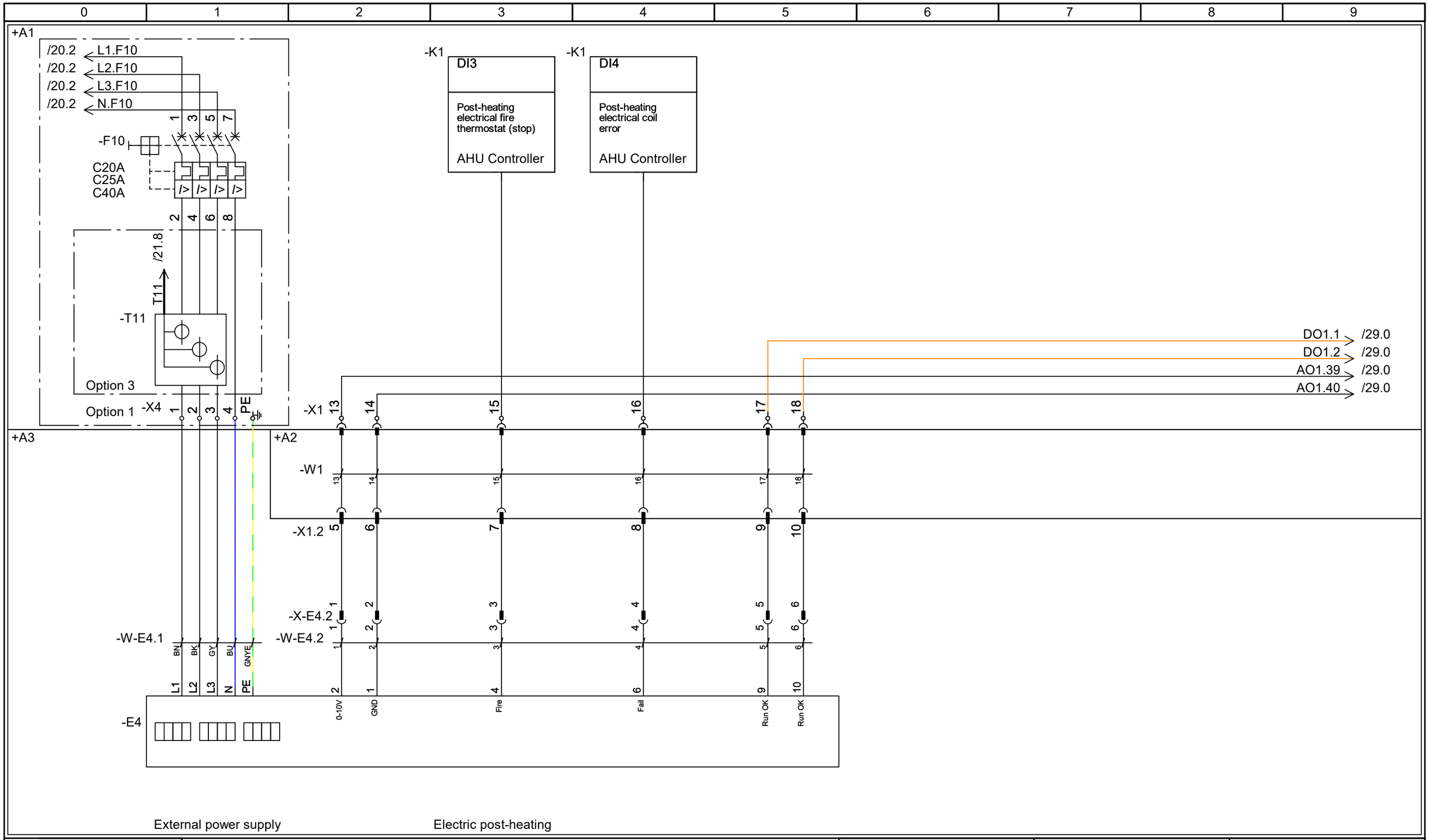
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	25
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	24
Drawing number: 2027962	Page Title: Standard - Dampers	Revision:	F	Scale:	1:1	Next page:	26
		Replaces revision:	D	Format:	A3	Pages in total:	40



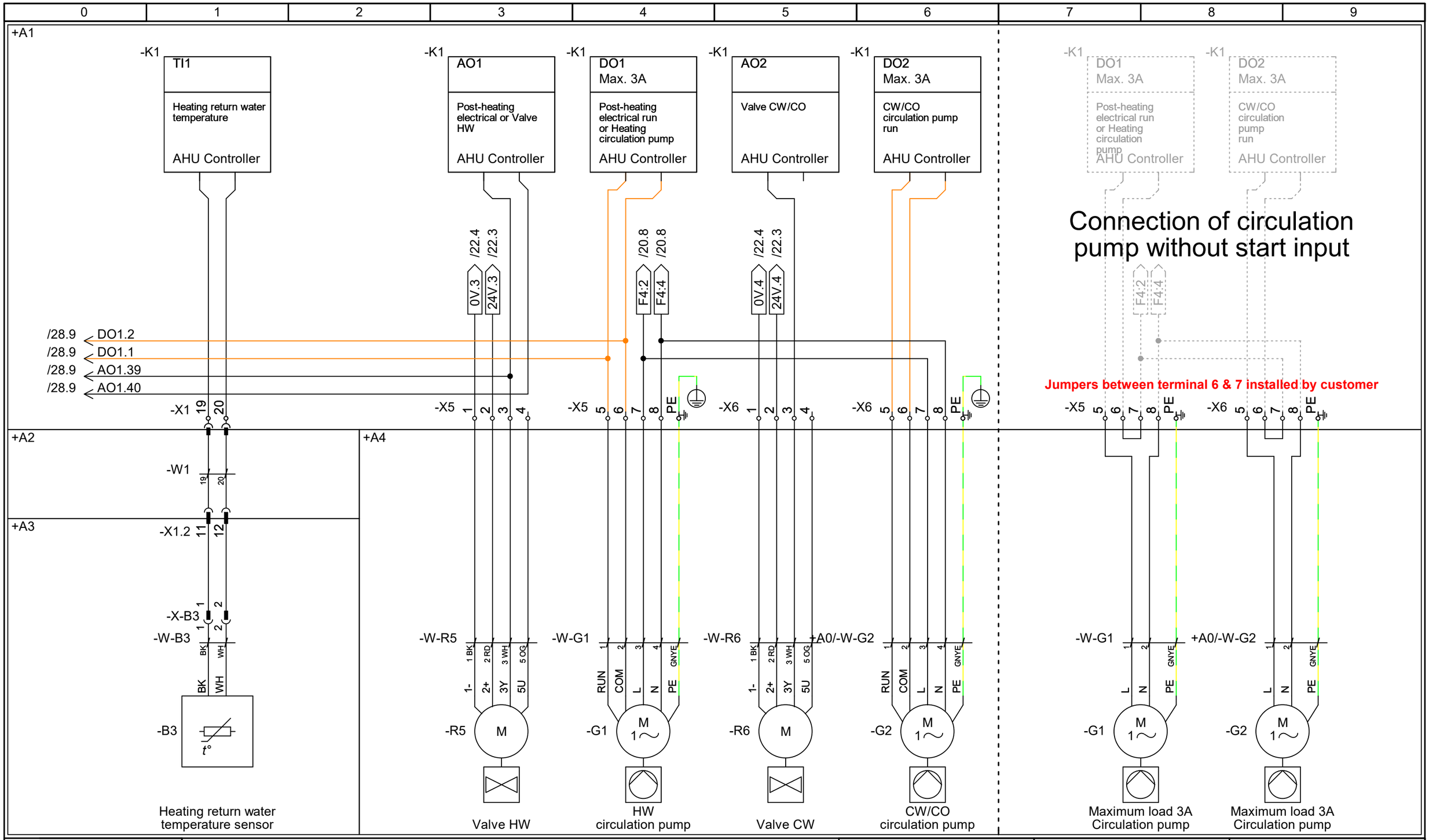
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 26
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 25
Drawing number: 2027962	Page Title: Options - Dampers	Revision: F	Scale: 1:1	Next page: 27
		Replaces revision: D	Format: A3	Pages in total: 40



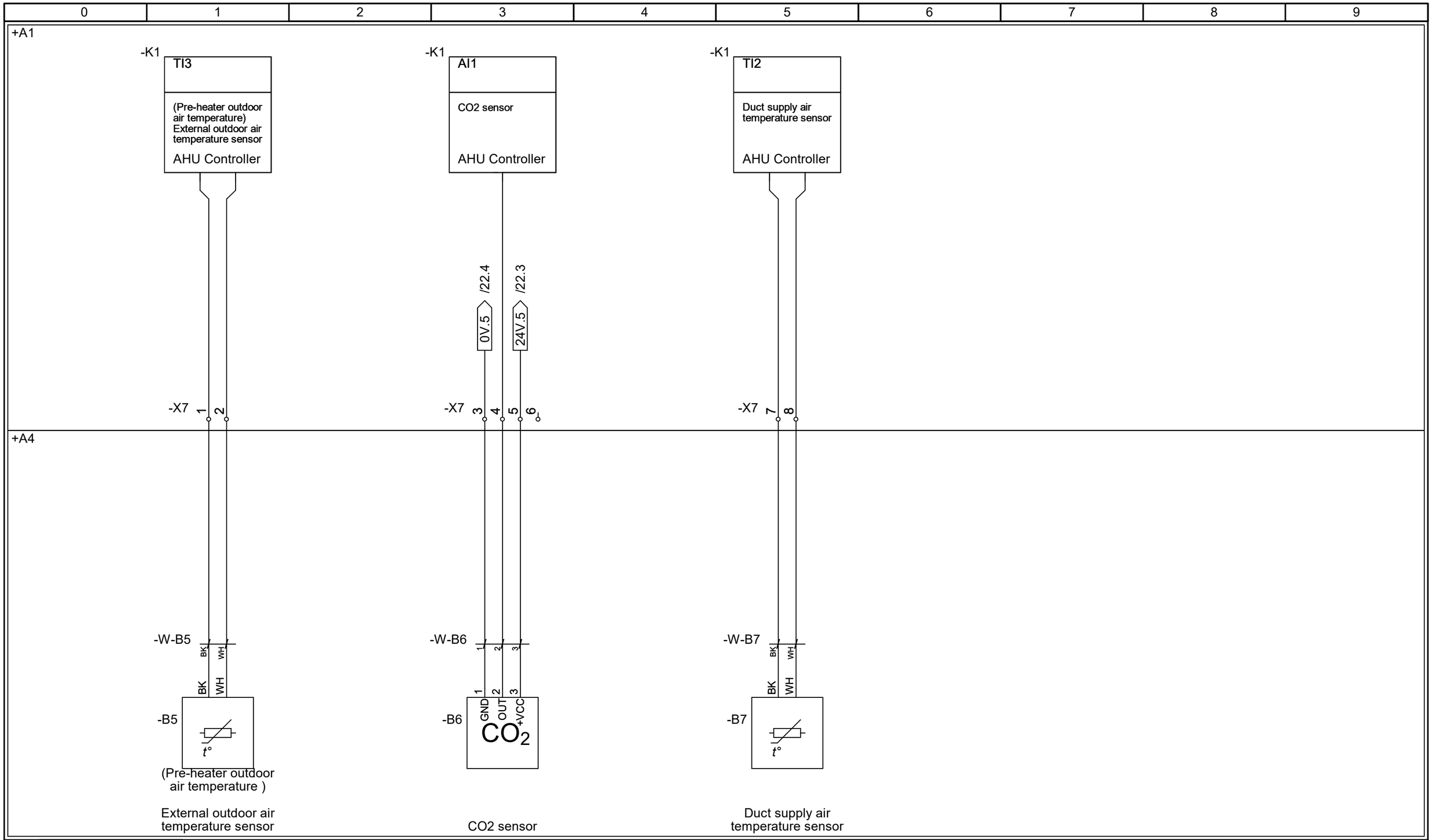
Manufactured by:	Project:	Start date: 01-06-2023	Constructor: DKTSA	Page: 27
EXHAUSTO	VEX1000 - Customized CR (3x230VAC FANS)	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 26
Drawing number:	Page Title:	Revision: F	Scale: 1:1	Next page: 28
2027962	Options - Pre-heating controls	Replaces revision: D	Format: A3	Pages in total: 40



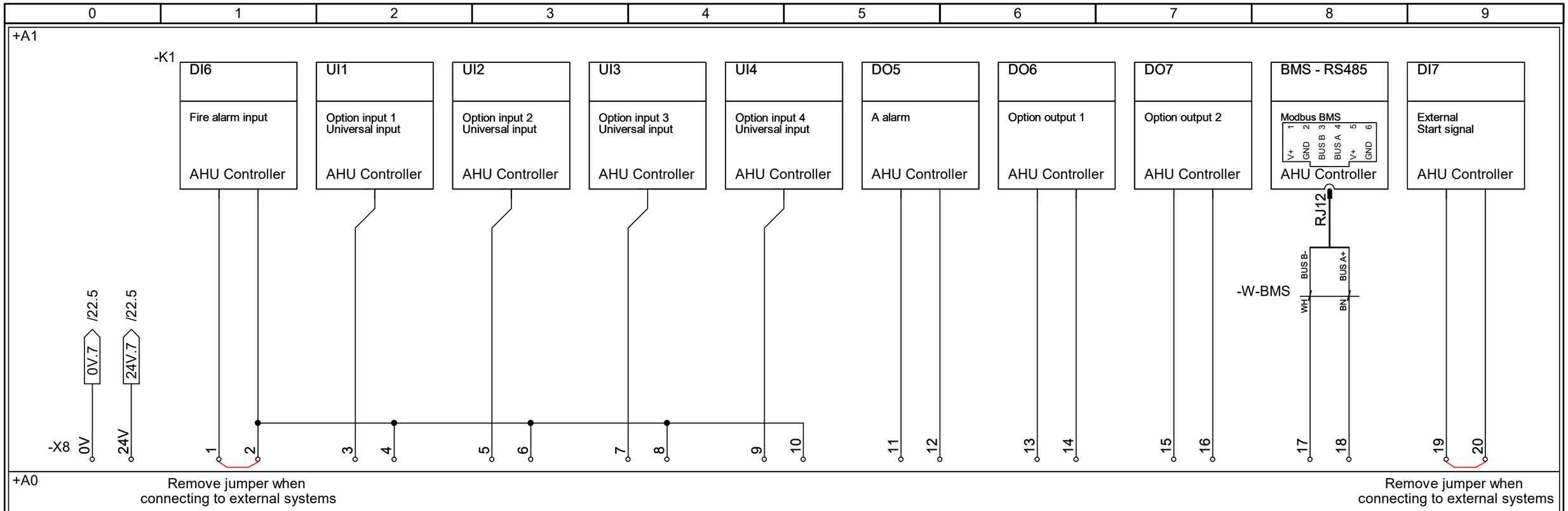
Manufactured by:	Project:	Start date: 01-06-2023	Constructor: DKTSA	Page: 28
EXHAUSTO	VEX1000 - Customized CR (3x230VAC FANS)	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 27
Drawing number:	Page Title:	Revision: F	Scale: 1:1	Next page: 29
2027962	Options - Post-heating controls	Replaces revision: D	Format: A3	Pages in total: 40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 29
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 28
Drawing number: 2027962	Page Title: Options - HW/CW/CO controls	Revision: F	Scale: 1:1	Next page: 30
		Replaces revision: D	Format: A3	Pages in total: 40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: 30
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 29
Drawing number: 2027962	Page Title: Options - Temperature & CO2 sensors	Revision:	F	Scale:	1:1	Next page: 31
		Replaces revision:	D	Format:	A3	Pages in total: 40



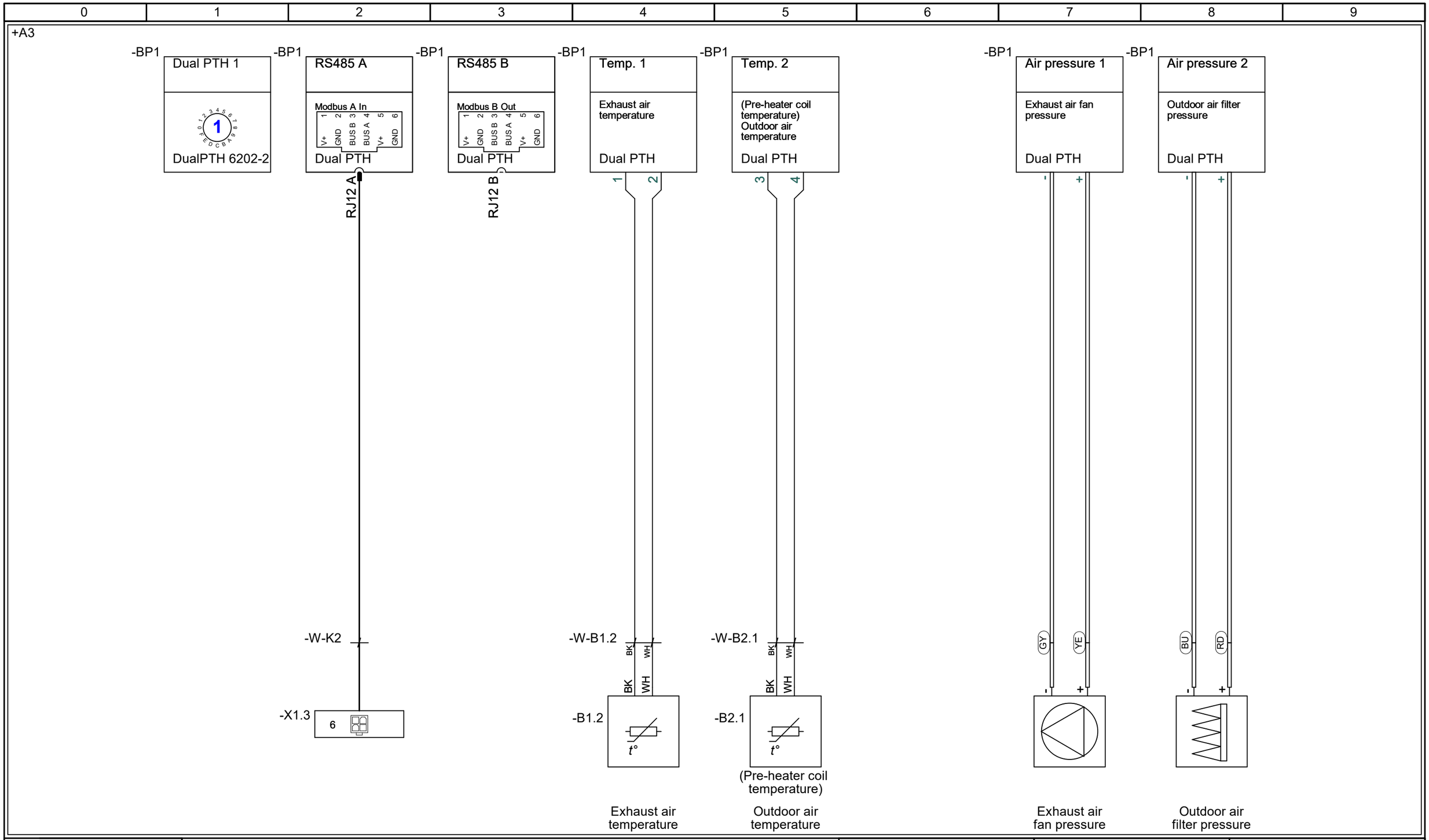
IO	Default setting	Comment
Digital input 6	Fire alarm	Mandatory
Universal input 1 - Option 1	External High Speed mode	-
Universal input 2 - Option 2	External Medium Speed mode	Can change depending on the coil configuration
Universal input 3 - Option 3	External Low Speed mode	Can change depending on the 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

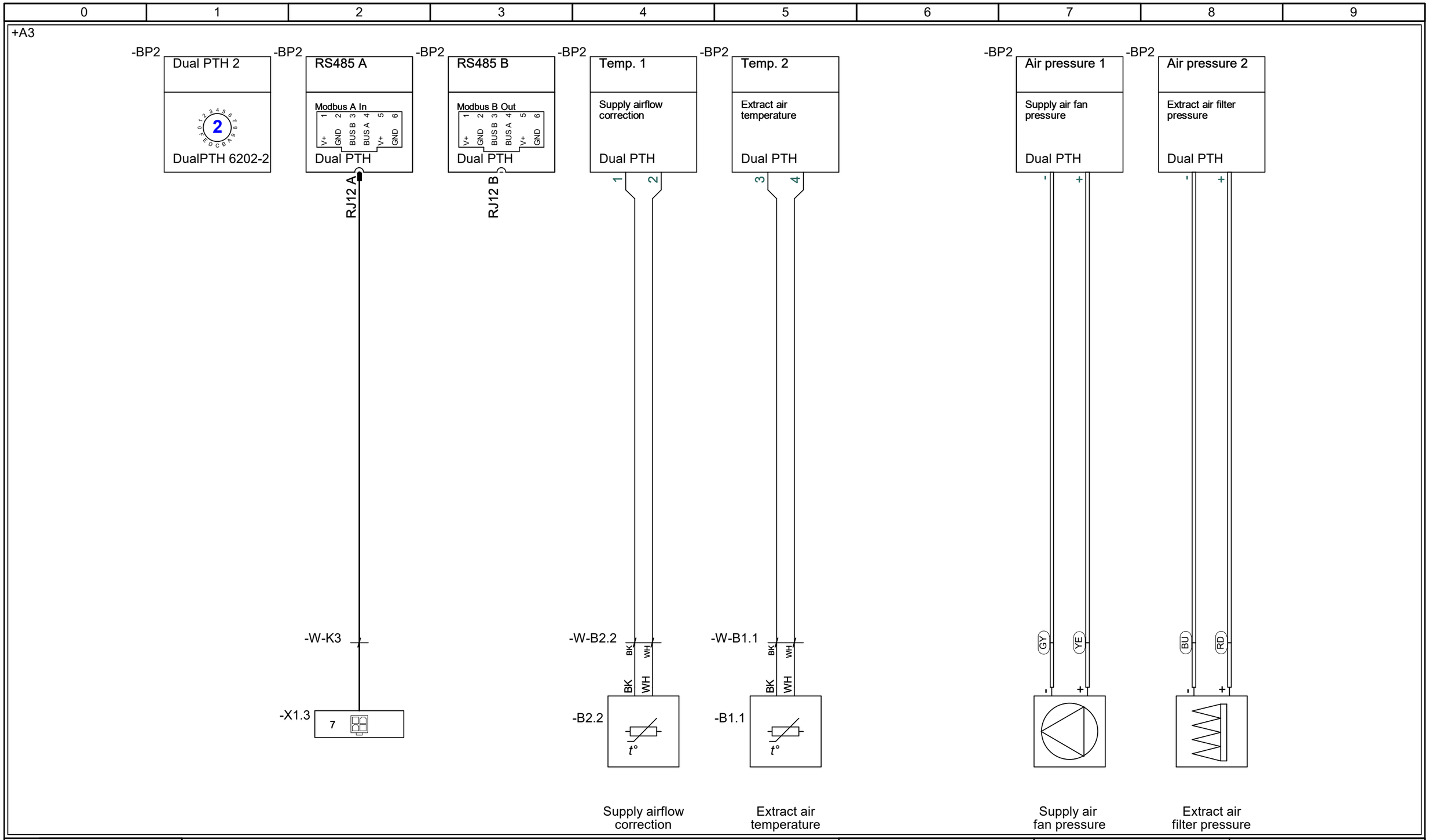
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: 31
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 30
Drawing number: 2027962	Page Title: Standard - Customer connections	Revision:	F	Scale:	1:1	Next page: 40
		Replaces revision:	D	Format:	A3	Pages in total: 40

Pressure & temperature transmitters

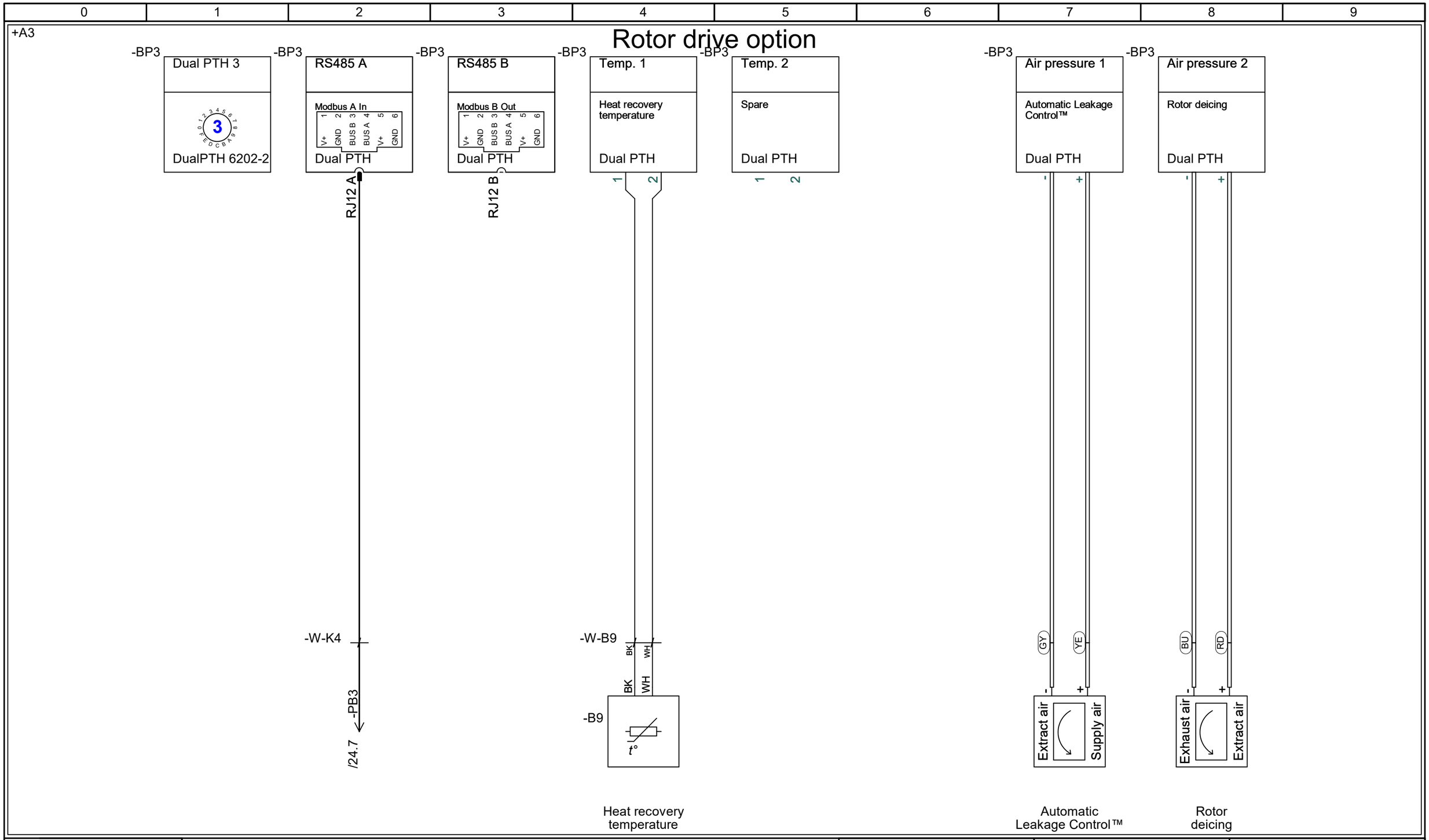
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	PTH
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	31
Drawing number: 2027962	Page Title: Pressure & temperature transmitters	Revision:	F	Scale:	1:1	Next page:	40
		Replaces revision:	D	Format:	A3	Pages in total:	40



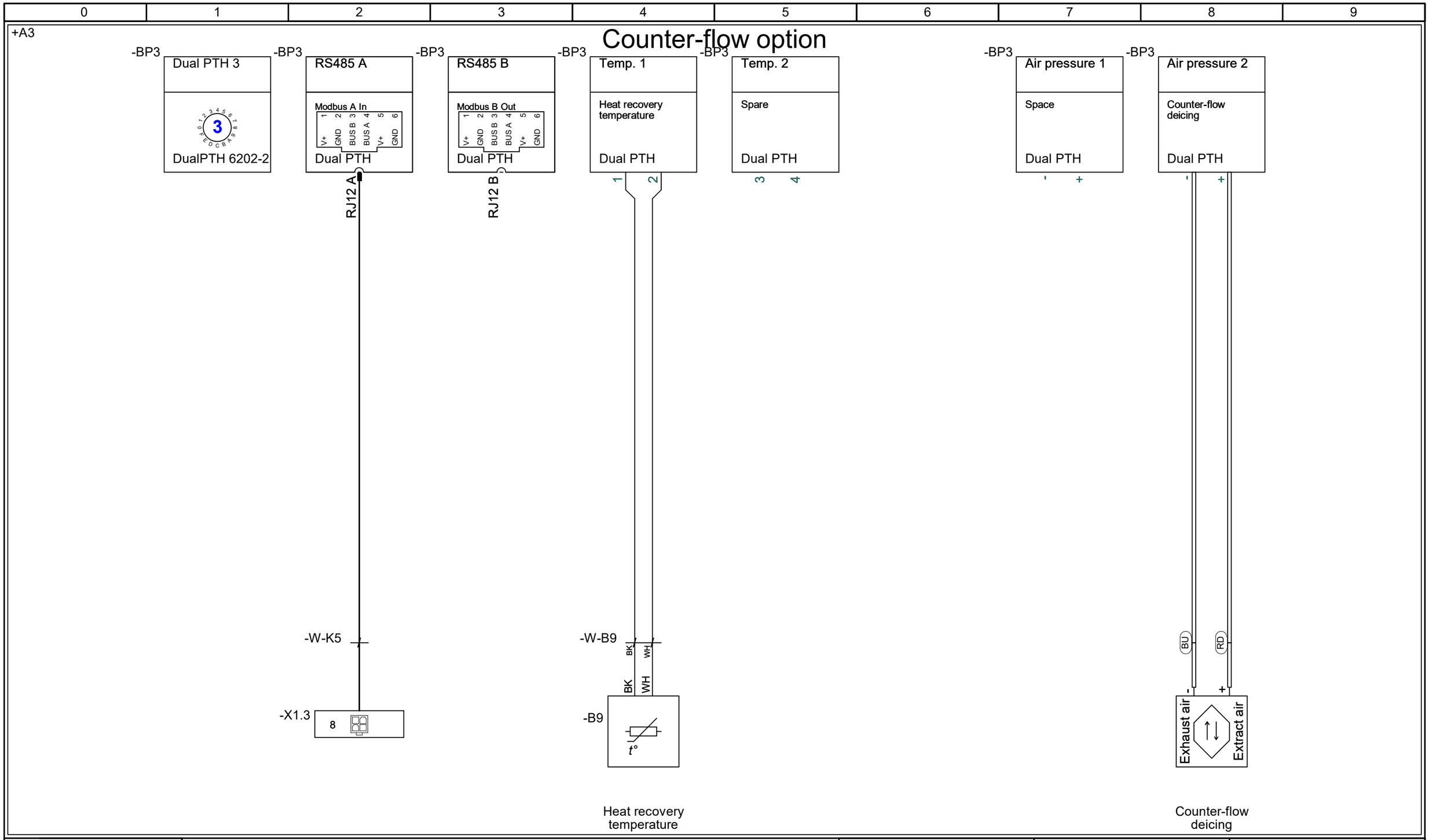
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 40
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 31
Drawing number: 2027962	Page Title: Standard - Dual PTH 1	Revision: F	Scale: 1:1	Next page: 41
		Replaces revision: D	Format: A3	Pages in total: 40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 41	
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 40	
Drawing number: 2027962	Page Title: Standard - Dual PTH 2	Revision: F	Scale: 1:1	Next page: 42	
		Replaces revision: D	Format: A3	Pages in total: 40	



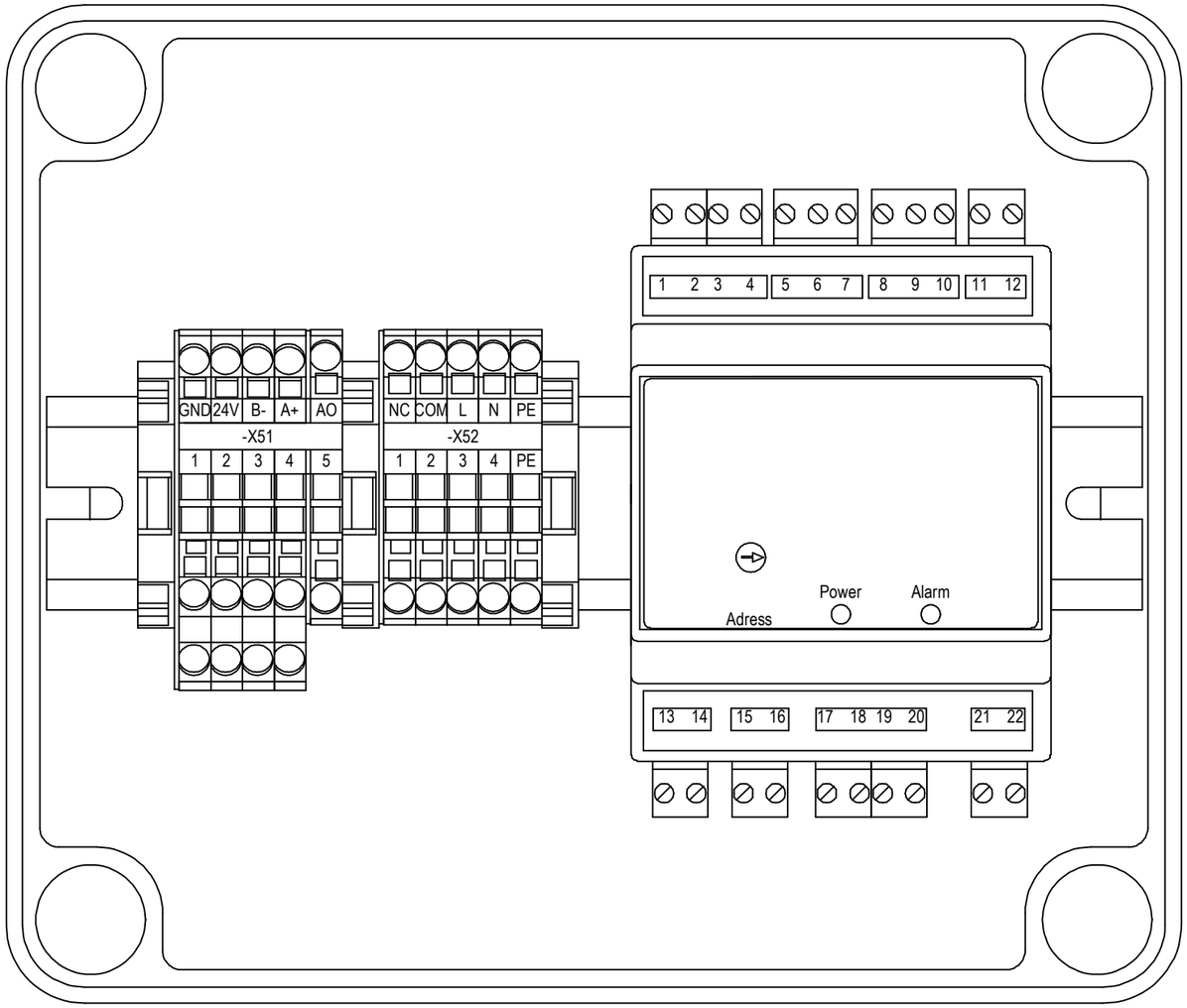
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: 42
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 41
Drawing number: 2027962	Page Title: Option - ALC™ - Rotor deicing - Heat recovery temp.	Revision:	F	Scale:	1:1	Next page: 43
		Replaces revision:	D	Format:	A3	Pages in total: 40



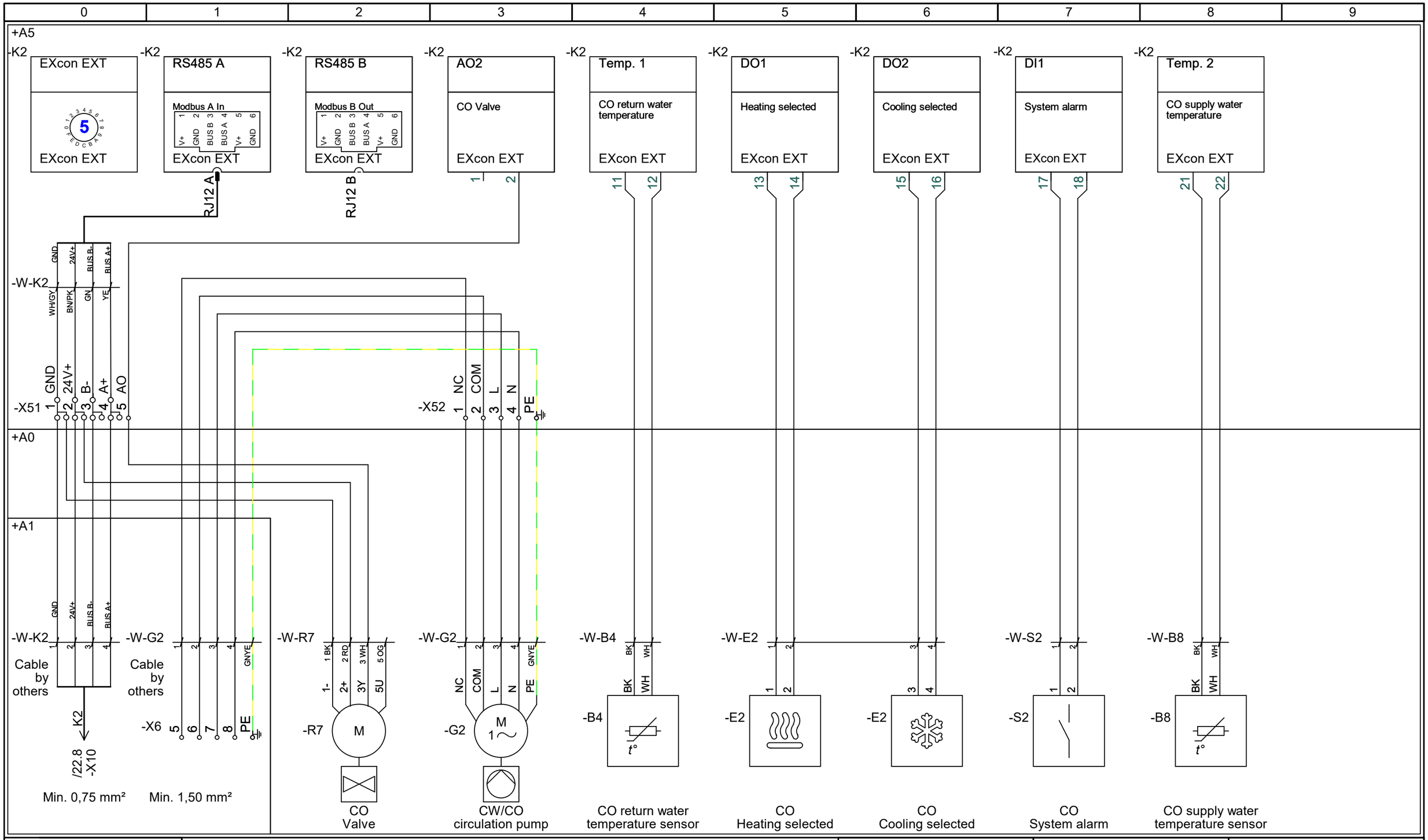
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: 43
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 42
Drawing number: 2027962	Page Title: Option - Counter-flow deicing - Heat recovery temp.	Revision:	F	Scale:	1:1	Next page: 50
		Replaces revision:	D	Format:	A3	Pages in total: 40

Option - Coil control box

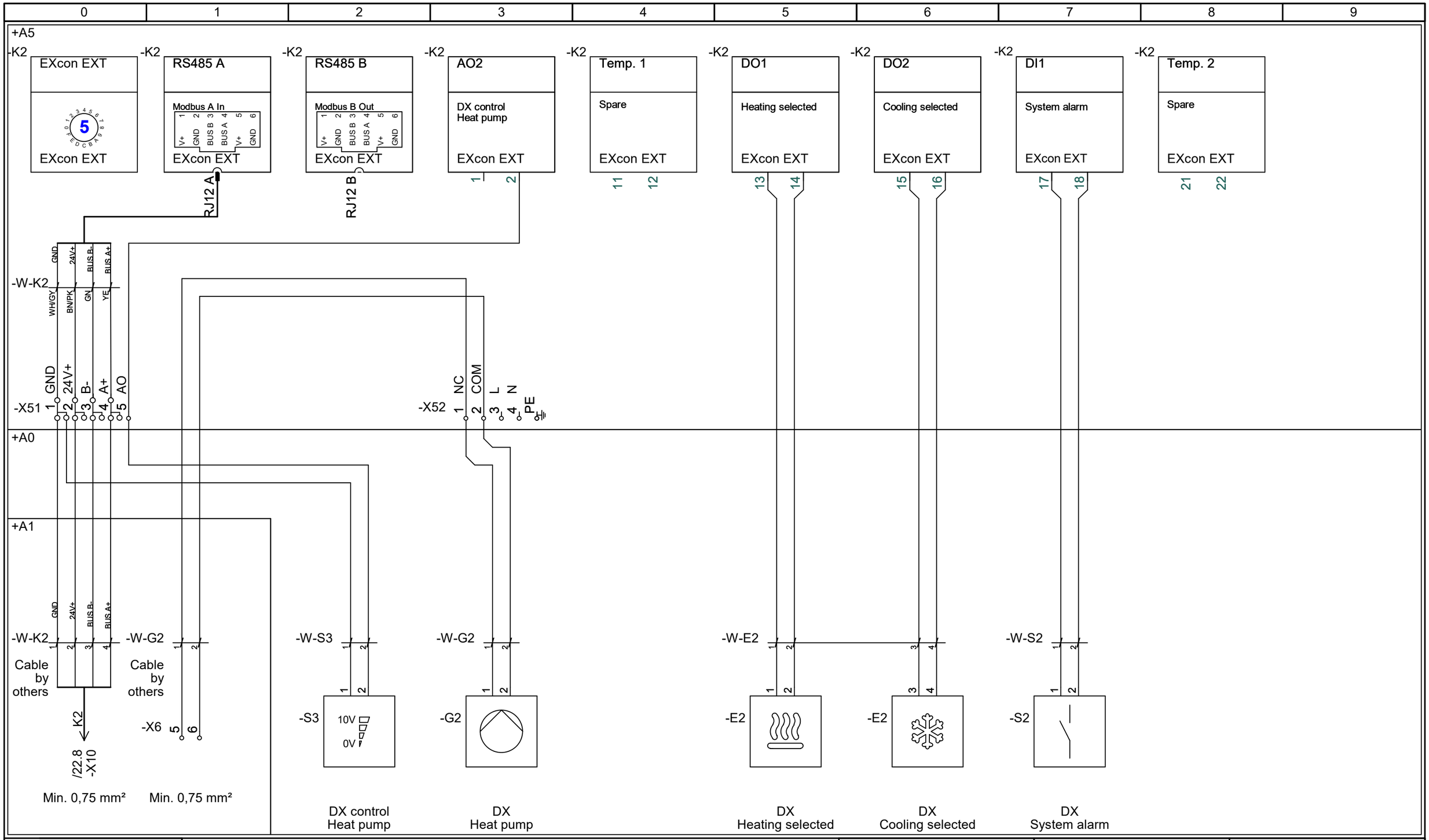
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	Coil control box
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	43
Drawing number: 2027962	Page Title: Option - Coil control box	Revision:	F	Scale:	1:1	Next page:	50
		Replaces revision:	D	Format:	A3	Pages in total:	40



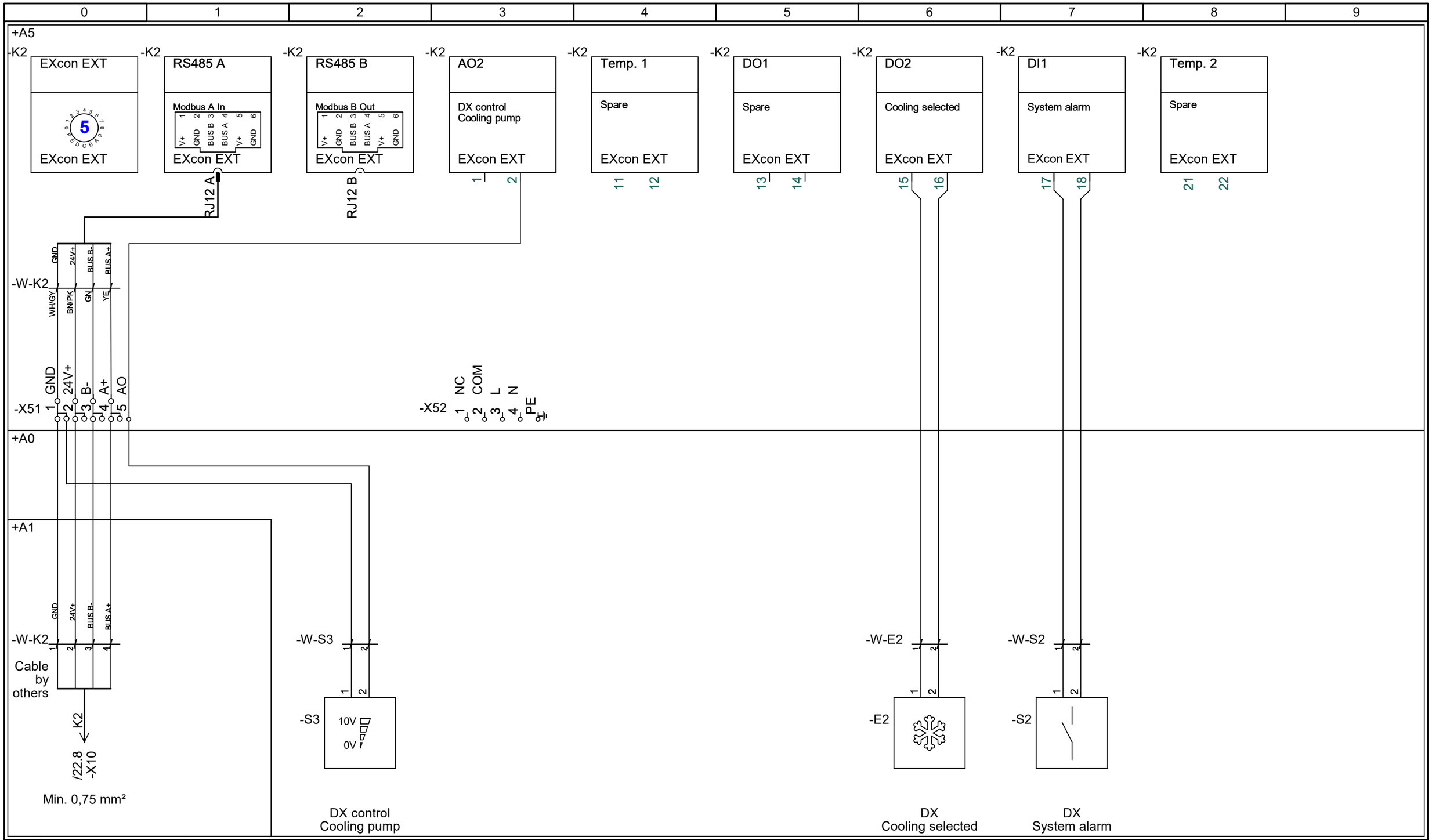
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	50
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	43
Drawing number: 2027962	Page Title: Option - Coil control box layout	Revision:	F	Scale:	1:1	Next page:	51
		Replaces revision:	D	Format:	A3	Pages in total:	40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 51
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 50
Drawing number: 2027962	Page Title: Option - Combi Coil	Revision: F	Scale: 1:1	Next page: 52
		Replaces revision: D	Format: A3	Pages in total: 40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: 52
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 51
Drawing number: 2027962	Page Title: Option - Direct Expansion Heat pump	Revision:	F	Scale:	1:1	Next page: 53
		Replaces revision:	D	Format:	A3	Pages in total: 40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: 53
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 52
Drawing number: 2027962	Page Title: Option - Direct Expansion Cooling	Revision:	F	Scale:	1:1	Next page: PARTS
		Replaces revision:	D	Format:	A3	Pages in total: 40

Article no.	Type	Description	Manufacturer	Quantity
3606480440496	A9F04210	Miniature Circuit Breaker iC60N C 10A 2P	Schneider Electric	2
3606480440649	A9F04310	Miniature Circuit Breaker iC60N C 10A 3P	Schneider Electric	2
3606480440755	A9F04402	Miniature Circuit Breaker iC60N C 2A 4P	Schneider Electric	1
3606480440823	A9F04420	Miniature Circuit Breaker iC60N C 20A 4P	Schneider Electric	1
3606480440830	A9F04425	Miniature Circuit Breaker iC60N C 25A 4P	Schneider Electric	1
3606480440854	A9F04440	Miniature Circuit Breaker iC60N C 40A 4P	Schneider Electric	1
4251823467457	CSF 060 50W	Enlcosure heater, 120-240V AC 50W with thermostat	STEGO	1
4711287434650	LRS-75-24	Power supply 230VAC/24VDC	MEAN WELL	1
5705100101361	2077-0000	Earth clamp Cu-mini 7 pole	Cubic	1
6417019393094	OT63F4N2	OT63F4N2 Supply disconnector 3P+N 63A	ABB	1
6417019102641	OTS63T1	OTS63T1 Terminal shroud 1P	ABB	1
6417019102627	OTS63T3	OTS63T3 Terminal shroud 3P	ABB	1
6417019415604	OHBS2AJ	OHBS2AJ Handle	ABB	1
6417019449500	OX6X115	OX6X115 Supply disconnector Shaft 115mm	ABB	1
6417019393834	OTPE80FP	OTPE80FP Earth terminal	ABB	1
8433059084073	MC3-63	Three-phase current transformer, 63 A	Circutor	1
8433059084080	MC3-125	Three-phase current transformer, 125 A	Circutor	1
8433059279288	CVM-E3-MINI-MC-485-IC	Three-phase power analyzer for mounting on DIN rail	Circutor	2
EXno.:2019904	MODBUS split 4xRJ12	MODBUS splitter 4x RJ12 connectors, 2x terminal rows	EXHAUSTO	1

Manufactured by: EXHAUSTO	Project: VEX1000 - Customized CR (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page: PARTS
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page: 53
Drawing number: 2027962	Page Title: Active components part list -A1	Revision:	F	Scale:	1:5	Next page: .
		Replaces revision:	D	Format:	A3	Pages in total: 40

Scan code and go to addresses at
www.exhausto.dk

EXHAUSTO