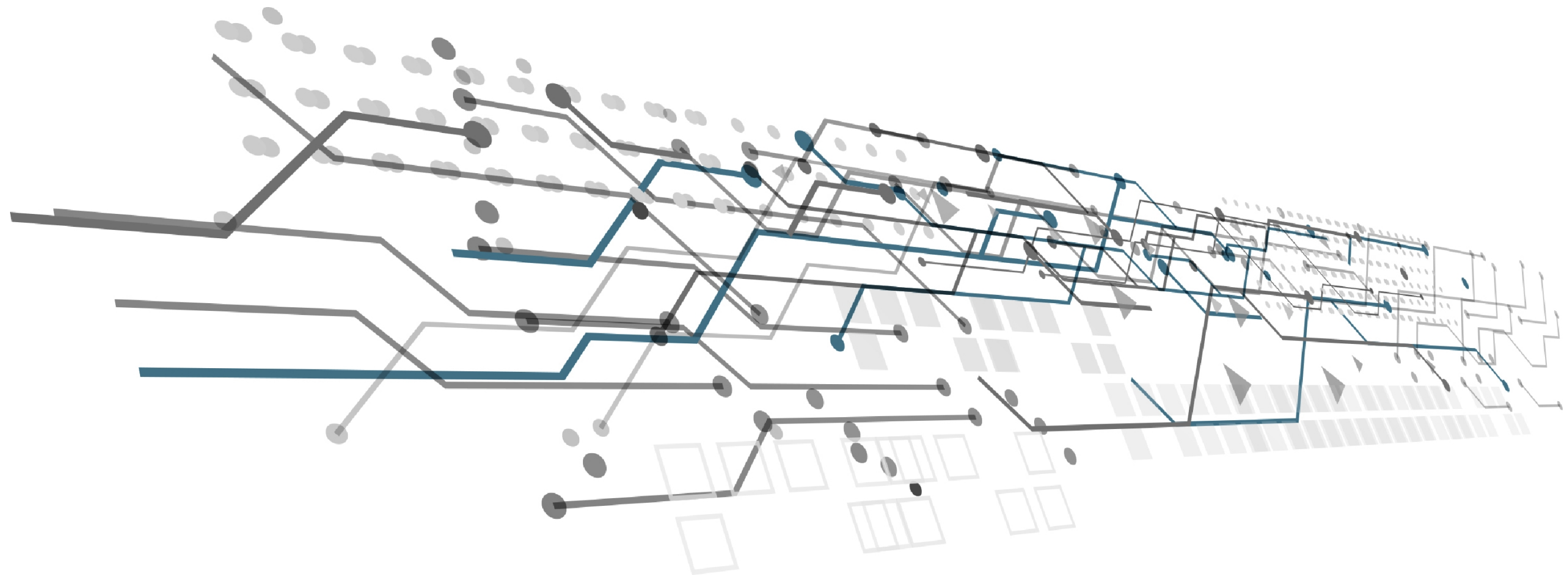


VEX1000 Wiring diagram

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



EXHAUSTO

VEX1000 - Customized (3x230VAC FANS) 2027960

Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 1
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 0
Drawing number: 2027960	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	da	Titel	sv	Last edit
1	Project information		Projektinformation		Projektinformation		04-08-2026
4	Standards		Standarder		Standarder		17-08-2026
5	Standards		Standarder		Standarder		17-08-2026
6	Component overview		Komponentoversigt		Komponentöversikt		17-08-2026
9	Principles for all configuration options		Principper for alle konfigurationsmuligheder		Principer för alla konfigurationsalternativ		21-07-2026
10	Basic control panel 3x400V		Grundlæggende styretavle 3x400V		Grundläggande kontrollpanel 3x400V		05-08-2026
11	Supplementary selections		Supplerende tilvalg		Kompletterande tillval		06-08-2026
12	Control panel terminals		Styretavlens klemmer		Kontrollpanel plintar		05-08-2026
20	Main current		Hovedstrøm		Huvudström		06-08-2026
21	Power analyzers - 3 phase		Effektanalysatorer – 3-faset		Effektanalysatorer – 3-fas		06-08-2026
22	Pilot current		Styrestrøm		Styrström		05-08-2026
23	Standard - Modbus connections		Standard - Modbus-tilslutninger		Standard - Modbus-anslutningar		06-08-2026
24	Standard - Fan & Rotor/Bypass controls		Standard - Ventilator- og rotor-/bypassstyring		Standard - Fläkt- & rotor/bypass-reglering		06-08-2026
25	Standard - Dampers		Standard - Spjæld		Standard - Spjäll		06-08-2026
26	Options - Dampers		Tilvalg - Spjæld		Tillval - Spjäll		05-08-2026
27	Options - Pre-heating controls		Tilvalg - Forvarmestyring		Tillval - Förvärmningsstyrning		05-08-2026
28	Options - Post-heating controls		Tilvalg - Eftervarmestyring		Tillval - Eftervärmningsstyrning		05-08-2026
29	Options - HW/CW/CO controls		Tilvalg - HW/CW/CO-styring		Tillval - HW/CW/CO-styrning		05-08-2026
30	Options - Temperature & CO2 sensors		Tilvalg - Temperatur- og CO2-sensorer		Tillval - Temperatur- och CO2-givare		05-08-2026
31	Standard - Customer connections		Standard - Kundetilslutninger		Standard - Kundanslutningar		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		Tilvalg - ALC™ - Rotorafrimning - VGV-temperatur		Tillval - ALC™ - Rotoravfrostning - ÅV-temperatur		05-08-2026
43	Option - Counter-flow deicing - HR temperature		Tilvalg - Modstrømsafrimning - Varmegenvindingstemperatur		Tillval - Motströmsavfrostning - Återvinningstemperatur		29-07-2026
50	Option – Coil control box layout		Option - Layout af styreboks til flader		Tillval - Layout för batteristyrboxen		28-07-2026
51	Option - Combi Coil (CO)		Tilvalg - Kombiflade (CO)		Tillval - Kombibatteri (CO)		04-08-2026
52	Option - Direct Expansion Heat pump (DX)		Tilvalg - Direkte ekspansion varmepumpe (DX)		Tillval - Direkt expansion varmepump (DX)		04-08-2026
53	Option - Direct Expansion Cooling (DX)		Tilvalg - Direkte ekspansionskøling (DX)		Tillval - Direkt expansionskylning (DX)		04-08-2026
PARTS	Part list for active components -A1		Stykliste over aktive komponenter -A1		Stycklista över aktiva komponenter -A1		06-08-2026
Manufactured by:		Project:		Start date:		Constructor:	Page:
EXHAUSTO		VEX1000 - Customized (3x230VAC FANS)		01-06-2023		DKTSA	2
				Revision date:		Approved by:	Previous page:
				17-08-2026		DKBP	1
Drawing number:		Page Title:		Revision:		Scale:	Next page:
2027960		Table of Contents		F		1:1	4
				Replaces revision:		Format:	Pages in total:
				D		A3	40

Identification of wires by colour (according to EN 60204-1)				Labelling of cables and cores (according to IEC 62491)																																																			
Main current: Phase: Neutral: Earth: Hovedstrøm: Fase: Neutral: Jord: Huvudström: Fas: Neutral: Jord: 400/230VAC BK BK GNYE Pilot current: Phase: Neutral: Earth: Styrestrøm: Fase: Neutral: Jord: Styrström: Fas: Neutral: Jord: 230/24VAC RD RD GNYE Pilot current: Positive (+): Negative (-): Styrestrøm: Positiv (+): Negativ (-): Styrström: Positiv (+): Negativ (-): 24VDC BU BU Unknown potential: All: Ukendt potentiale: Alle: Okänd potential: Alla: OG				Method CL <table><tr><th>Method</th><th>Description</th></tr><tr><td>0</td><td>No labelling</td></tr><tr><td>A</td><td>Use of designated cables or cores</td></tr><tr><td>R</td><td>Identification labelling by means of reference designation (including cable number)</td></tr><tr><td>CL</td><td>Local-end connection labelling</td></tr><tr><td>CR</td><td>Remote-end connection labelling</td></tr><tr><td>CB</td><td>Both-end connection labelling</td></tr><tr><td>S</td><td>Signal labelling</td></tr></table> <table><tr><th>Metode</th><th>Beskrivelse</th></tr><tr><td>0</td><td>Ingen mærkning</td></tr><tr><td>A</td><td>Brug af angivne kabler eller ledere</td></tr><tr><td>R</td><td>Identifikationsmærkning ved hjælp af referencebetegnelse (inklusive kabelnummer)</td></tr><tr><td>CL</td><td>Mærkning ved lokal ende</td></tr><tr><td>CR</td><td>Mærkning ved fjern ende</td></tr><tr><td>CB</td><td>Mærkning i begge ender</td></tr><tr><td>S</td><td>Signalmærkning</td></tr></table> <table><tr><th>Metod</th><th>Beskrivning</th></tr><tr><td>0</td><td>Ingen märkning</td></tr><tr><td>A</td><td>Användning av angivna kablar eller ledare</td></tr><tr><td>R</td><td>Märkning med referensbeteckning</td></tr><tr><td>CL</td><td>Lokal anslutningsmärkning</td></tr><tr><td>CR</td><td>Fjärranslutningsmärkning</td></tr><tr><td>CB</td><td>Märkning i båda ändar</td></tr><tr><td>S</td><td>Signalmärkning</td></tr></table>				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	Metode	Beskrivelse	0	Ingen mærkning	A	Brug af angivne kabler eller ledere	R	Identifikationsmærkning ved hjælp af referencebetegnelse (inklusive kabelnummer)	CL	Mærkning ved lokal ende	CR	Mærkning ved fjern ende	CB	Mærkning i begge ender	S	Signalmærkning	Metod	Beskrivning	0	Ingen märkning	A	Användning av angivna kablar eller ledare	R	Märkning med referensbeteckning	CL	Lokal anslutningsmärkning	CR	Fjärranslutningsmärkning	CB	Märkning i båda ändar	S	Signalmärkning
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																																																						
Metode	Beskrivelse																																																						
0	Ingen mærkning																																																						
A	Brug af angivne kabler eller ledere																																																						
R	Identifikationsmærkning ved hjælp af referencebetegnelse (inklusive kabelnummer)																																																						
CL	Mærkning ved lokal ende																																																						
CR	Mærkning ved fjern ende																																																						
CB	Mærkning i begge ender																																																						
S	Signalmærkning																																																						
Metod	Beskrivning																																																						
0	Ingen märkning																																																						
A	Användning av angivna kablar eller ledare																																																						
R	Märkning med referensbeteckning																																																						
CL	Lokal anslutningsmärkning																																																						
CR	Fjärranslutningsmärkning																																																						
CB	Märkning i båda ändar																																																						
S	Signalmärkning																																																						
Abbreviations of colours (according to IEC 60757)																																																							
Black	Sort	Svart	BK																																																				
Brown	Brun	Brun	BN																																																				
Red	Rød	Röd	RD																																																				
Orange	Orange	Orange	OG																																																				
Yellow	Gul	Gul	YE																																																				
Green	Grøn	Grön	GN																																																				
Blue	Blå	Blå	BU																																																				
Light Blue	Lyseblå	Ljusblå	BU																																																				
Violet	Violet	Violett	VT																																																				
Gray	Grå	Grå	GY																																																				
White	Hvid	Vit	WH																																																				
Pink	Pink	Rosa	PK																																																				
Green/Yellow	Grøn/Gul	Grön/Gul	GNYE																																																				
Light-	Lyse-	Ljus-	LT-																																																				

Manufactured by:	Project:	Start date:	01-06-2023	Constructor:	DKTSA	Page:	4
EXHAUSTO	VEX1000 - Customized (3x230VAC FANS)	Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	2
Drawing number:	Page Title:	Revision:	F	Scale:	1:1	Next page:	5
2027960	Standards	Replaces revision:	D	Format:	A3	Pages in total:	40

Component	Location	en	Placeringer	da	Placering	sv
+A0	Customer connections		Kundetilslutninger		Kundanslutningar	
+A1	Control Panel		Styretavle		Kontrollpanel	
+A2	Cable connections to AHU aggregate		Kabelforbindelser til ventilationsaggregat		Kabelanslutningar till ventilationsaggregat	
+A3	AHU aggregate		Ventilationsaggregat		ventilationsaggregat	
+A4	Outside AHU aggregate		Uden for ventilationsaggregat		Utanför ventilationsaggregat	
+A5	Coil control box		Styreboks til flader		Batteristyrbox	
Component	Object	Examples	Objekt	Eksempler	Objekt	Exempel
-B	Sensing	CO2 & temperature sensors	Føling / Måling	CO2- og temperatursensorer	Avkänning	CO2- & temperaturgivare
-C	Storage	USB drives & application keys	Lagring	USB-drev og applikationsnøgler	Lagring	USB-minnen & applikationsnycklar
-E	Emitting	Electric heaters	Afgivelse	Elektriske varmelegemer	Avgivning	Elvärmare
-F	Protecting	Miniature circuit-breaker	Beskyttelse	Automatsikring	Skydd	Minibrytare
-G	Generating	Circulation pumps	Generering	Cirkulationspumper	Generering	Cirkulationspumpar
-K	Information processing	AHU Controller	Informationsbehandling	AHU-controller	Informationsbehandling	AHU-styrenhet
-M	Driving	Motors	Drivsystem	Motorer	Drivsystem	Motorer
-Q	Controlling	Supply disconnecting device	Kobling / Afbrydelse	Forsyningsadskiller	Koppling / Frånskiljning	Frånskiljare
-R	Restricting	Valves & dampers	Regulering	Ventiler og spjæld	Reglering	Ventiler & spjäll
-S	Human interaction	Touch panel	Betjening	Touchpanel	Mänsklig interaktion	Pekskärm
-T	Transforming	Power supply	Transformering	Strømforsyning	Omvandling	Strömförsörjning
-U	Holding	Cabinet, wire-duct & DIN-rails	Fastgørelse / Indkapsling	Kabinet, kabelkanal og DIN-skiner	Fastsättning / Kapsling	Skåp, kabelkanal & DIN-skenor
-W	Guiding	Cables, wires & tubes	Føring	Kabler, ledninger og rør	Styrning	Kablar, ledare & rör
-X	Interfacing	Terminals & plugs	Grænseflade	Klemmer og stik	Gränssnitt	Plintar & kontakter
(=)	Function		Funktion		Funktion	
(+)	Location		Placering		Placering	
(-)	Product		Produkt		Produkt	
(.)	Sub name		Undernavn		Underbenämning	
Principles of structures and reference designations according to ISO/IEC RDS 81346			Prinsipper for strukturer og referencebetegnelser i henhold til ISO/IEC 81346.		Principer för strukturer och referensbeteckningar enligt ISO/IEC RDS 81346	

Manufactured by:	Project:	Start date:	01-06-2023	Constructor:	DKTSA	Page:	5
EXHAUSTO	VEX1000 - Customized (3x230VAC FANS)	Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	4
Drawing number:	Page Title:	Revision:	F	Scale:	1:1	Next page:	6
2027960	Standards	Replaces revision:	D	Format:	A3	Pages in total:	40

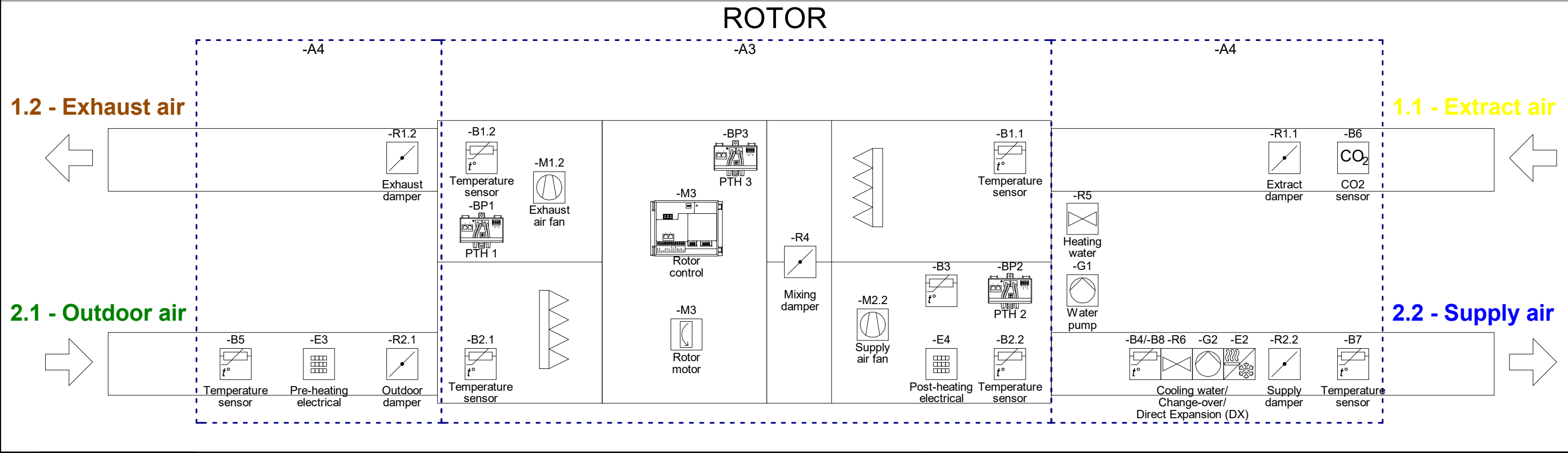
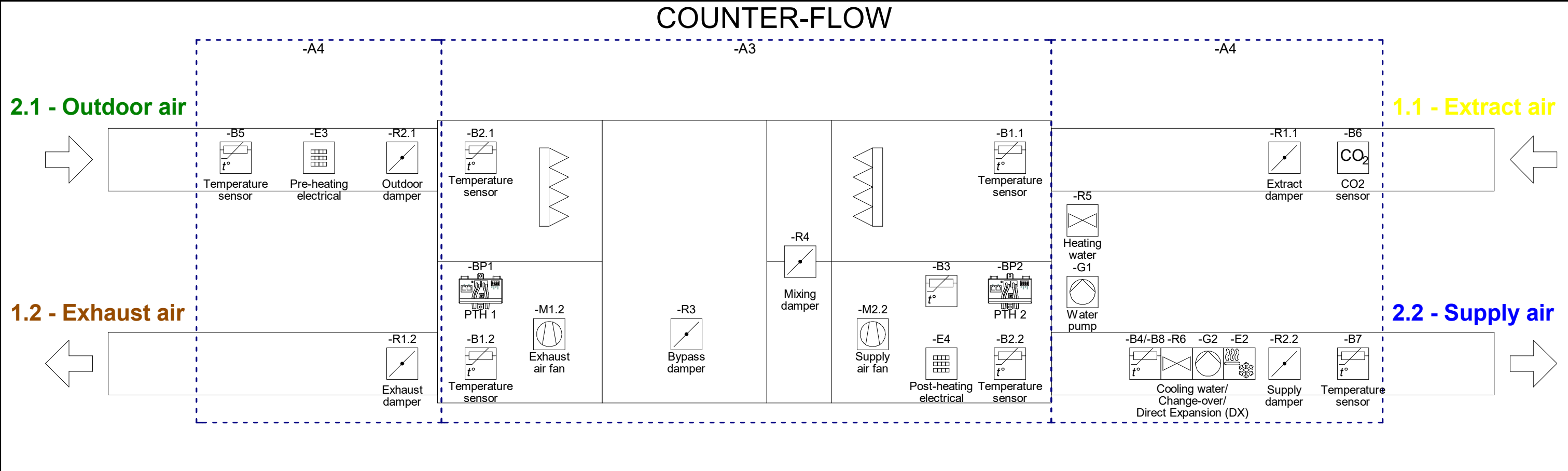
Component	Functionen	Funktionda	Funktionsv	
-0V	Terminals for 0VDC	Klemmer for 0 VDC	Plintar till 0 VDC	
-24V	Terminals for 24VDC	Klemmer for 24 VDC	Plintar till 24 VDC	
-B1.1	Extract air temperature	Fralufttemperatur	Frånluftstemperatur	
-B1.2	Exhaust air temperature	Afkasttemperatur	Avluftstemperatur	
-B2.1	Outdoor air temperature	Udetemperatur	Uteluftstemperatur	
-B2.2	Supply airflow temperature correction	Korrektion af tillufttemperatur	Korrigerig av tilluftstemperatur	
-B3	Heating return water temperature sensor	Temperaturføler for varmereturvand	Temperaturgivare för värmereturvatten	
-B4	CO/CW return water temperature sensor	Temperaturføler for CO/CW returvand	Temperaturgivare för CO/CW returvatten	
-B5	Outdoor air temperature sensor (Pre-heater)	Udelufttemperaturføler (forvarmeblade)	Utelufttemperaturgivare (förvärmare)	
-B6	CO2 sensor	CO2-sensor	CO2-givare	
-B7	Duct temperature sensor	Kanaltemperaturføler	Kanaltemperaturgivare	
-B8	CO supply water temperature sensor	Fremløbsvandtemperaturføler CO	Framledningstemperaturgivare CO	
-B9	Heat recovery temperature	Varmegenvindingstemperatur	Värmeåtervinningstemperatur	
-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	Tavlevarme	Skåpvärmare	
-E2	Change over coils	Change-over flade	Change-over batteri	
-E3	Electric pre-heating	Elektrisk forvarmeblade	Elektriskt förvärmningsbatteri	
-E4	Electric post-heating	Elektrisk eftervarmeblade	Elektriskt eftervärmningsbatteri	
-F1	MCB for Exhaust air fan	Automatsikring for afkastventilator	Automatsäkring för frånluftsfläkt	
-F2	MCB for Supply air fan	Automatsikring for tilluftsventilator	Automatsäkring för tilluftsfläkt	
-F3	MCB for Rotor/Control systems	Automatsikring for rotor-/styresystem	Automatsäkring för rotor-/styrsystem	
-F4	MCB for Circulation pumps	Automatsikring for cirkulationspumper	Automatsäkring för cirkulationspumpar	
-F5	MCB for power analyzer	Automatsikring for effektanalysator	Automatsäkring för effektanalysator	
-F10	MCB for Electric post-heating	Automatsikring for elektrisk eftervarmeblade	Automatsäkring för elektriskt eftervärmningsbatteri	
-G1	Heating circulation pump	Cirkulationspumpe varme	Värmecirkulationspump	
-G2	CW/CO/DX circulation pump	CW/CO/DX cirkulationspumpe	CW/CO/DX cirkulationspump	
-K1	AHU Controller	AHU Controller	AHU-styrenhet	
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 6
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 5
Drawing number: 2027960	Page Title: Component overview	Revision: F	Scale: 1:1	Next page: 7
		Replaces revision: D	Format: A3	Pages in total: 40

Component	Functionen	Funktionda	Funktionsv
-K2	EXT module for Change over	EXT-modul til change-over	EXT-modul för change-over
-K10	Power analyzer main power	Effektanalysator hovedstrøm	Effektanalysator huvudström
-K11	Power analyzer electric heater	Effektanalysator elektrisk eftervarme	Effektanalysator elektrisk eftervärmning
-M1.2	Exhaust air fan	Afkastventilator	Avluftsfläkt
-M2.2	Supply air fan	Tilluftsventilator	Tilluftsfläkt
-M3	Rotor	Rotor	Rotor
-PE1	Earthing terminal block	Jordplint	Jordplint
-Q1	Supply disconnecting device	Forsyningsadskiller	Frånskiljare
-R1.1	Extract air damper (ALC™)	Fraluftspjæld (ALC™)	Frånluftsspjäll (ALC™)
-R1.2	Exhaust air damper	Afkastspjæld	Avluftsspjäll
-R2.1	Outdoor air damper	Udeluftspjæld	Uteluftsspjäll
-R2.2	Supply air damper	Tilluftsspjæld	Tilluftsspjäll
-R3	Bypass damper	Bypass-spjæld	Bypass-spjäll
-R4	Mixing air damper	Blandeluftspjæld	Blandluftsspjäll
-R5	Valve HW	Ventil HW	Ventil HW
-R6	Valve CW	Ventil CW	Ventil CW
-R7	Valve CO/DX	Ventil CO/DX	Ventil CO/DX
-S1	Touch panel	Touchpanel	Pekskärm
-S2	CO system alarm	CO system alarm	Larm för CO-system
-S3	DX control Heat pump	DX-styring varmepumpe	DX-styrning värmepump
-T1	Power supply 230VAC/24VDC	Strømforsyning 230VAC/24VDC	Strömförsörjning 230VAC/24VDC
-T10	Current transformer main power	Strømtransformer hovedstrøm	Strömtransformator huvudström
-T11	Current transformer electric heater	Strømtransformer elektrisk eftervarme	Strömtransformator elektrisk eftervärmning
-U1	Control Panel	Styretavle	Kontrollpanel
-X1.1	Aggregate power plug	Strømtik til aggregat	Strömkontakt aggregat
-X1.2	Aggregate signal plug	Signalstik til aggregat	Signalkontakt aggregat
-X1.3	Modbus splitter 9 x Molex	Modbus-splitter 9 x Molex	Modbus-splitter 9 x Molex
-X1	Aggregate power & signal terminals	Klemmer til aggregatstrøm og signaler	Plintar till aggregatkraft och signaler
-X2	Air dampers terminals	Klemmer til spjæld	Plintar till spjäll

Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 7
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 6
Drawing number: 2027960	Page Title: Component overview	Revision: F	Scale: 1:1	Next page: 8
		Replaces revision: D	Format: A3	Pages in total: 40

Principles

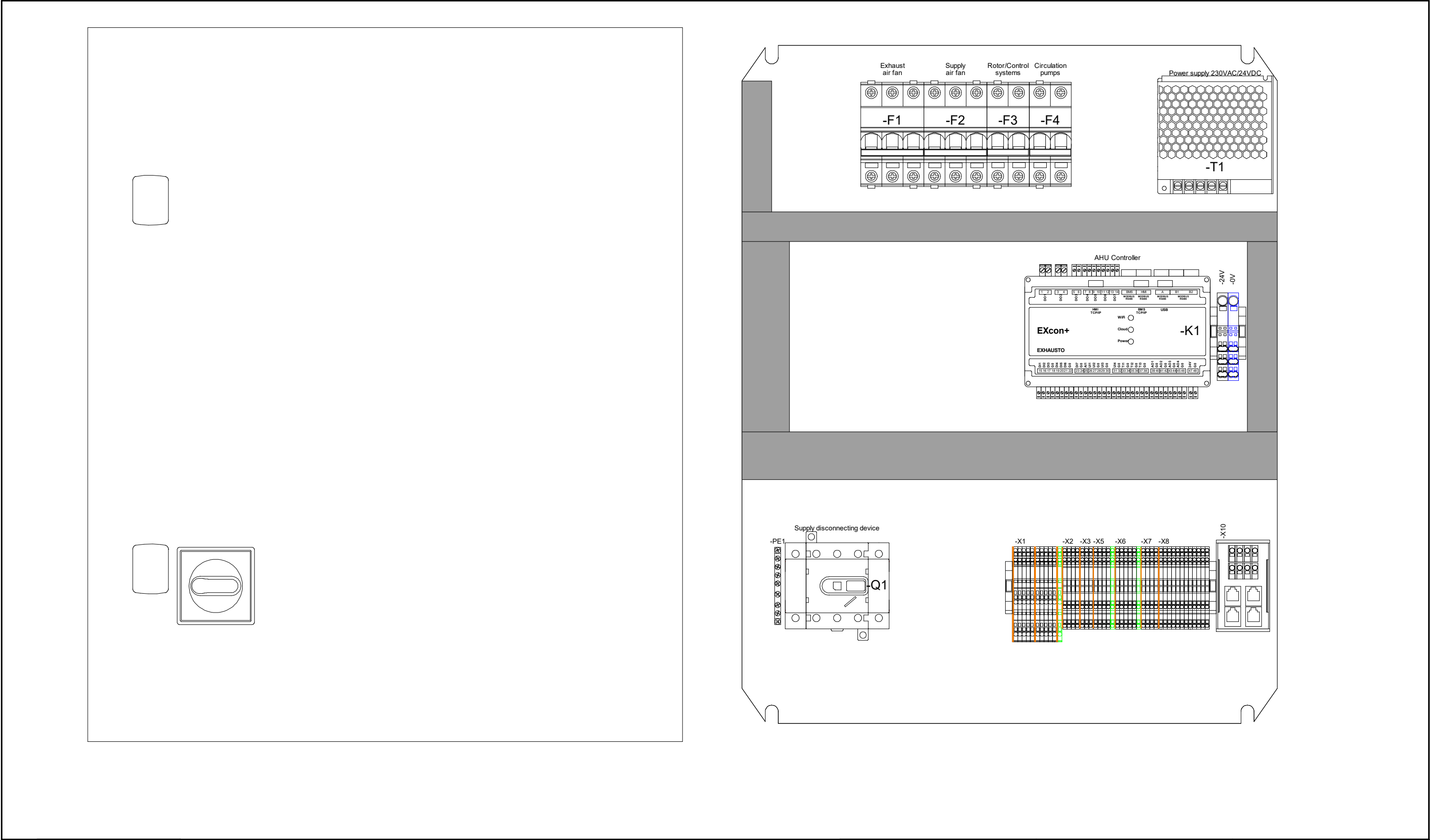
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: Principles
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 8
Drawing number: 2027960	Page Title: Principles	Revision: F	Scale: 1:1	Next page: 9
		Replaces revision: D	Format: A3	Pages in total: 40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 9
Drawing number: 2027960	Page Title: Principles for all configuration options	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 8
		Revision: F	Scale: 1:5	Next page: 10
		Replaces revision: D	Format: A3	Pages in total: 40

Arrangement drawings

Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: Arrangement
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 9
Drawing number: 2027960	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 (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	10
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	9
Drawing number: 2027960	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

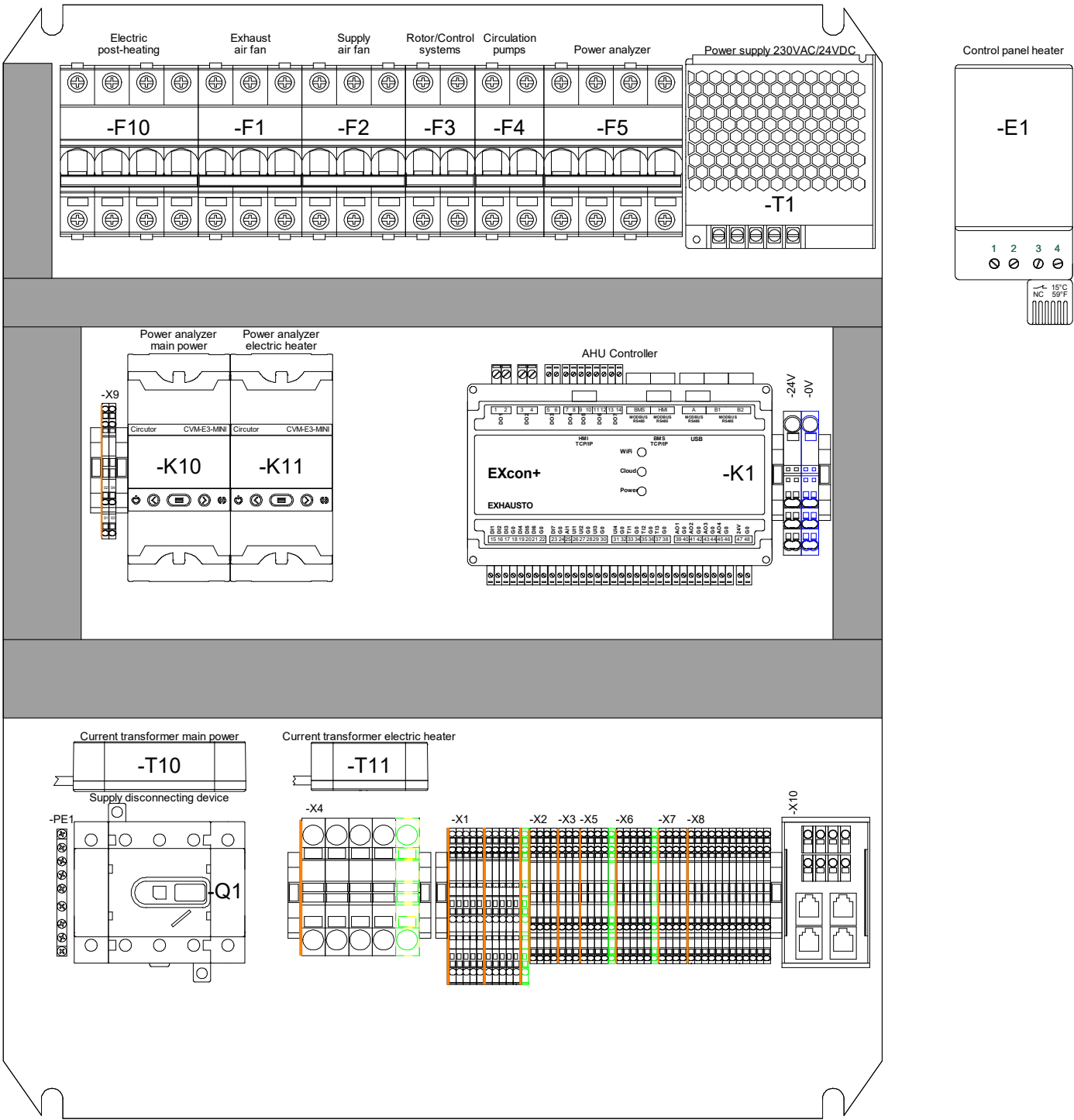
Option 3: Power analyser Electric heater (PAH)

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

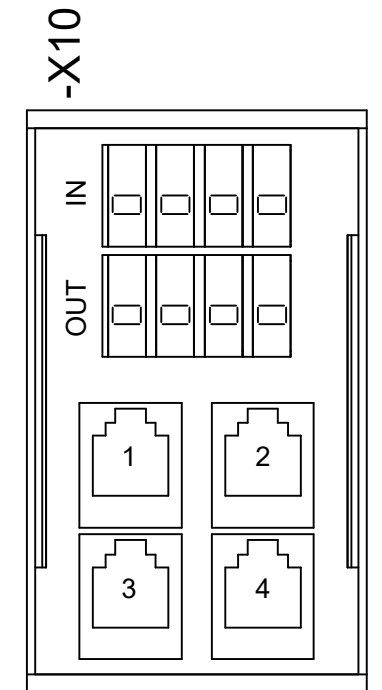
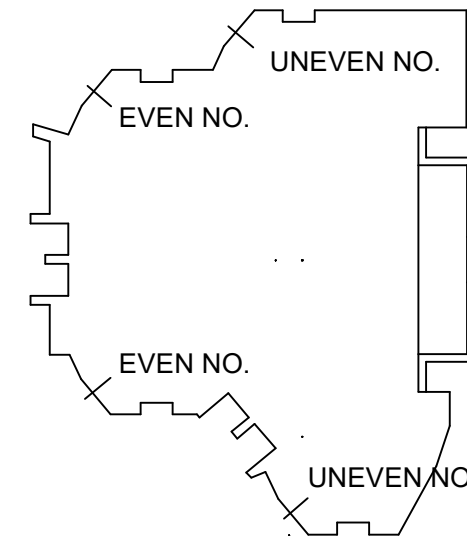
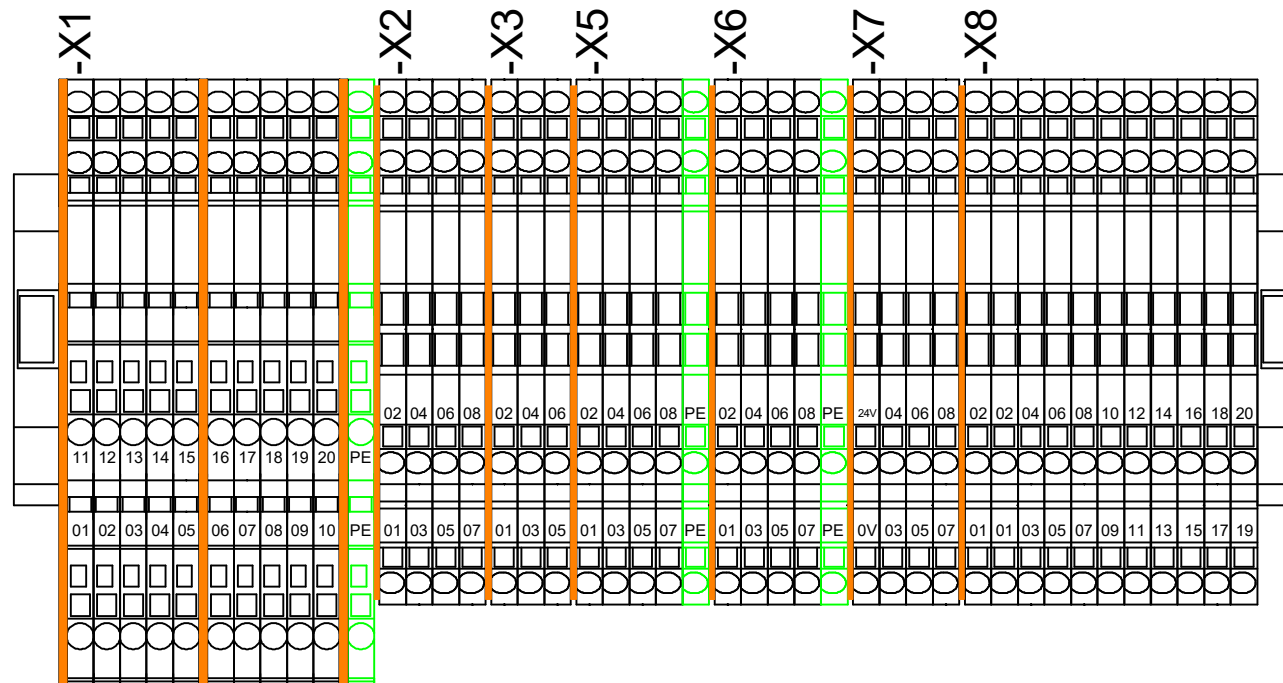
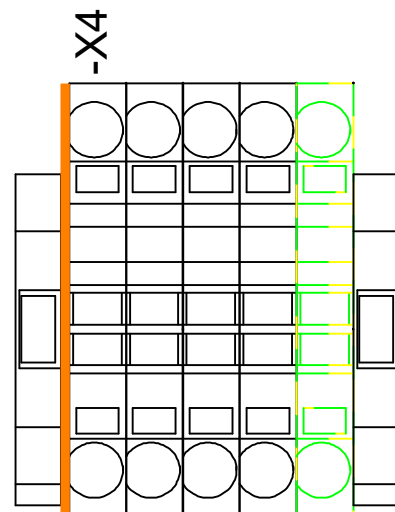
Option 3 is not selectable without option 1 and 2.

Option 4: Control panel heater

- E1 Control panel heater



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 11
Drawing number: 2027960	Page Title: Supplementary selections	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 10
		Revision: F	Scale: 1:3	Next page: 12
		Replaces revision: D	Format: A3	Pages in total: 40

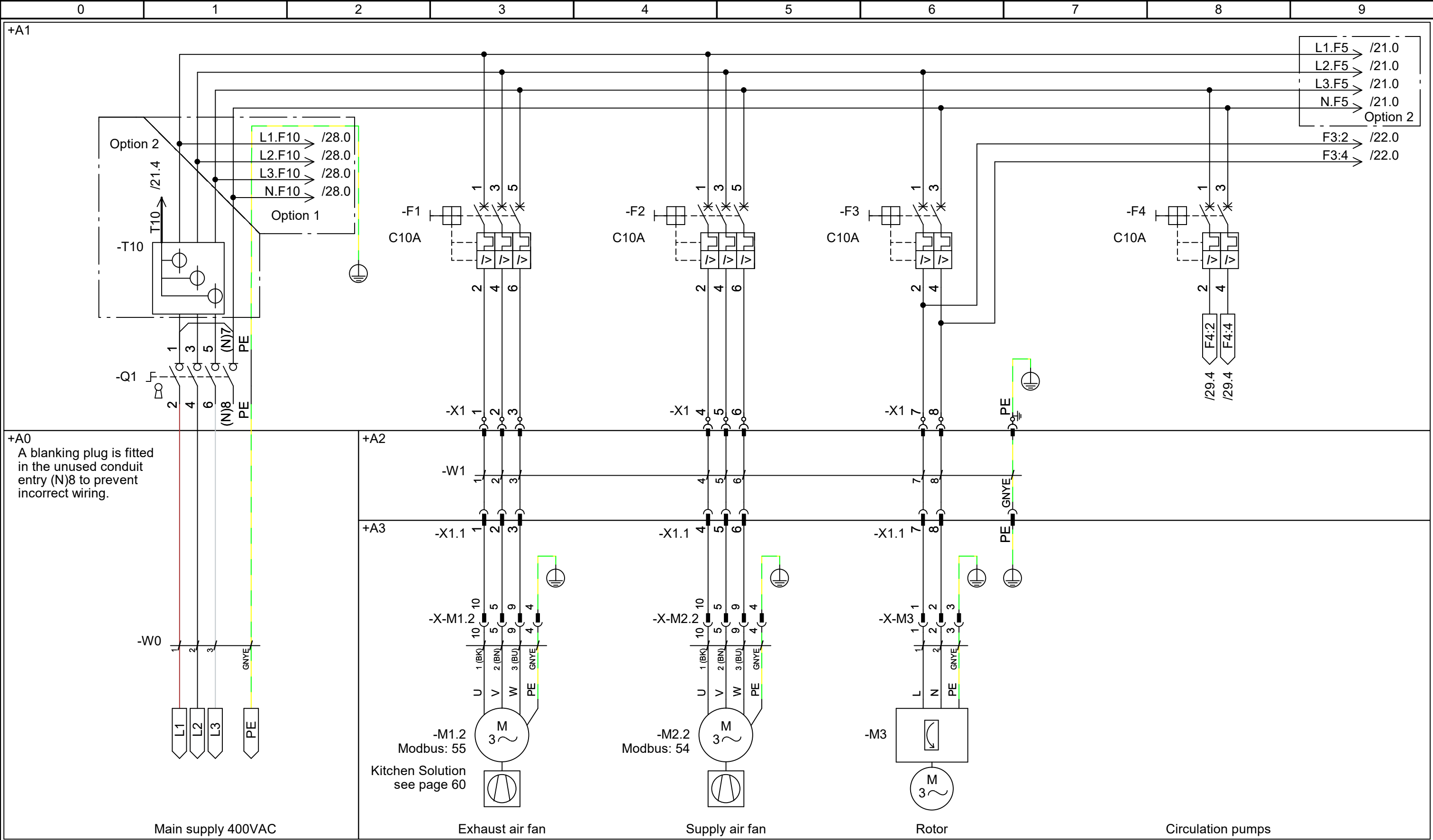


-X1:01 -M1.2 Exhaust air fan L1	-X2:01 -R1.1 Extract air damper 0V	-X5:01 -R1 Valve HW 0V	-X7:01 -B5 Pre-heater temperature sensor -
-X1:02 -M1.2 Exhaust air fan L2	-X2:03 -R1.1 Extract air damper 24V	-X5:02 -R1 Valve HW 24V	-X7:02 -B5 Pre-heater temperature sensor -
-X1:03 -M1.2 Exhaust air fan L3	-X2:05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

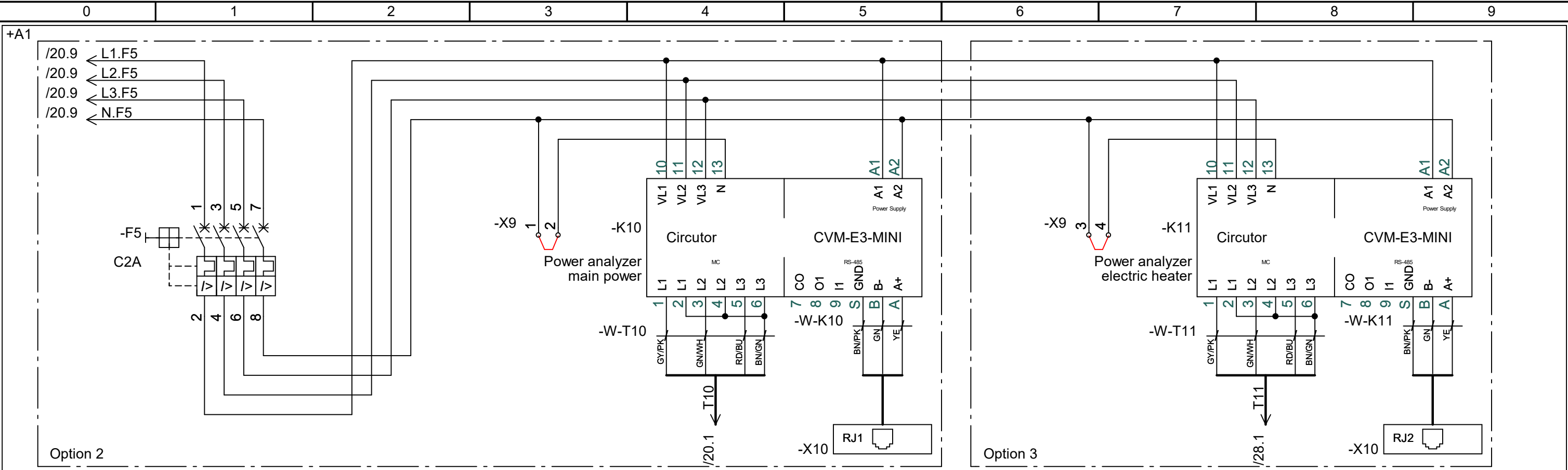
Manufactured by:	Project:	Start date:	01-06-2023	Constructor:	DKTSA	Page:	12
EXHAUSTO	VEX1000 - Customized (3x230VAC FANS)	Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	11
Drawing number:	Page Title:	Revision:	F	Scale:	1:1	Next page:	20
2027960	Control panel terminals	Replaces revision:	D	Format:	A3	Pages in total:	40

Circuit diagrams

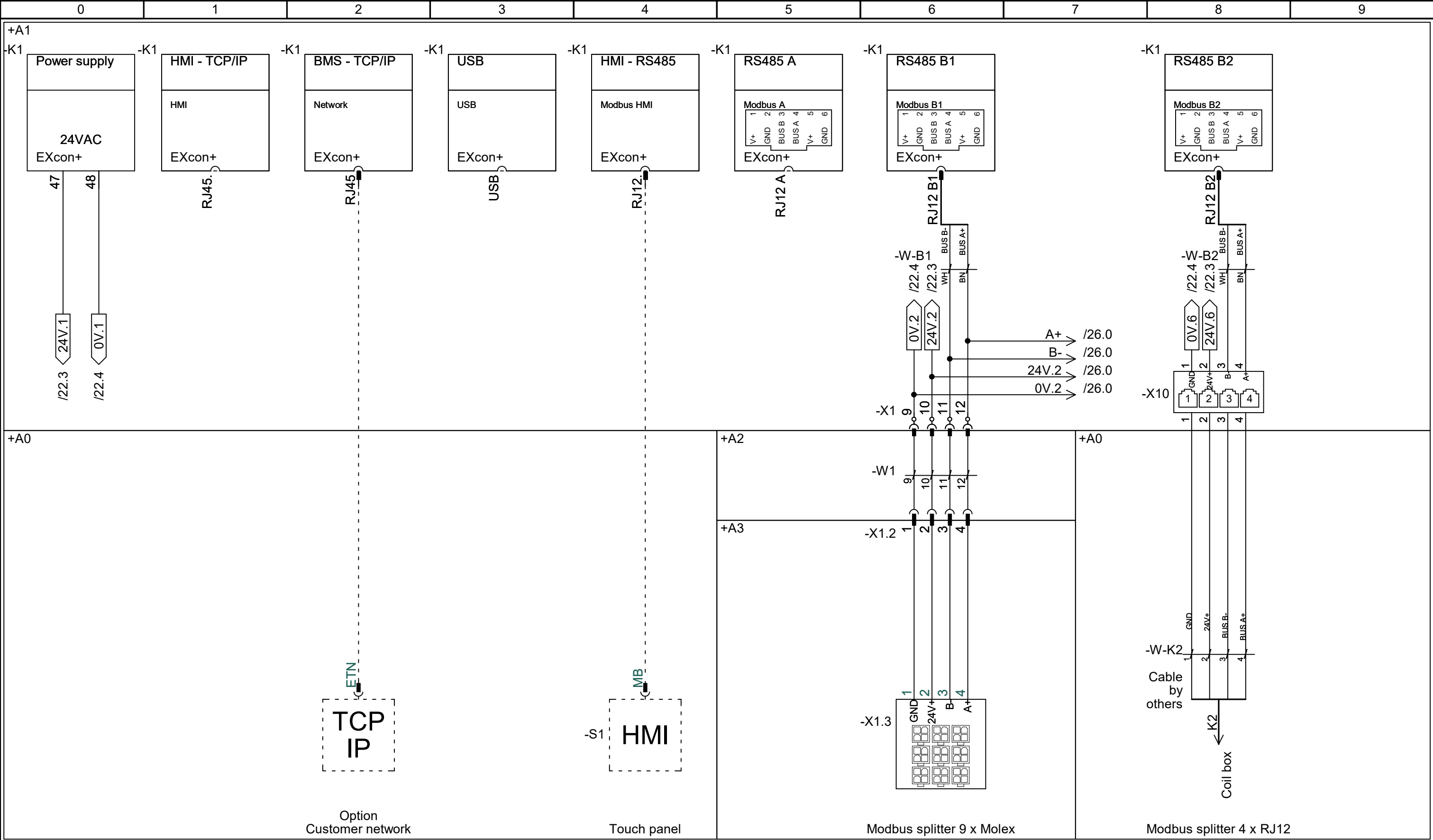
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: Circuit diagrams
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 12
Drawing number: 2027960	Page Title: Circuit diagrams	Revision: F	Scale: 1:1	Next page: 20
		Replaces revision: D	Format: A3	Pages in total: 40



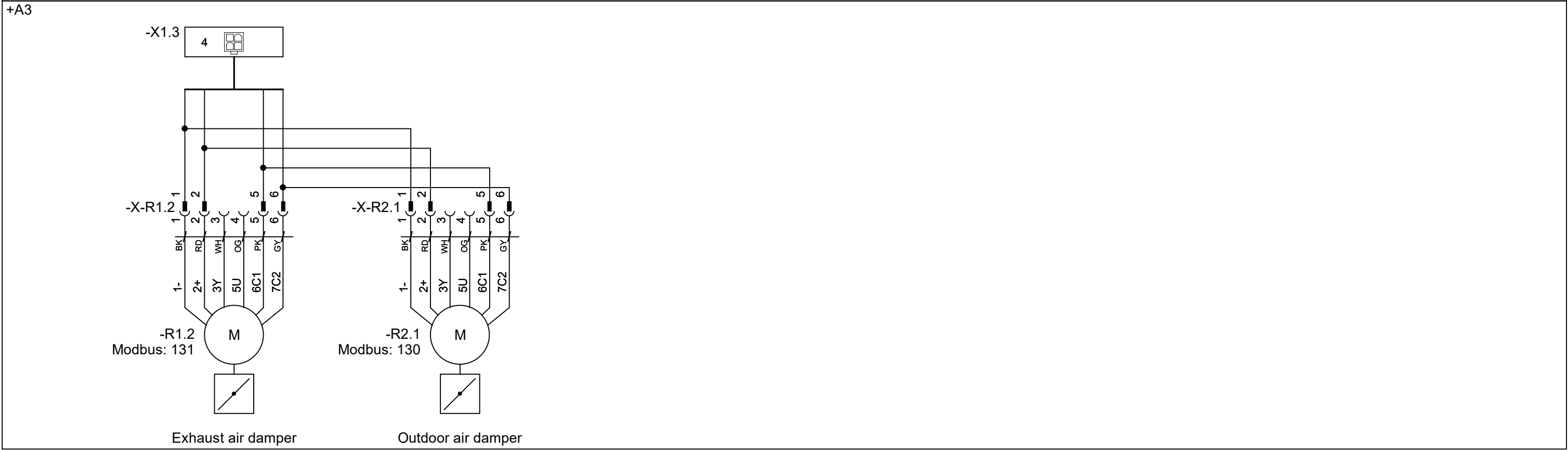
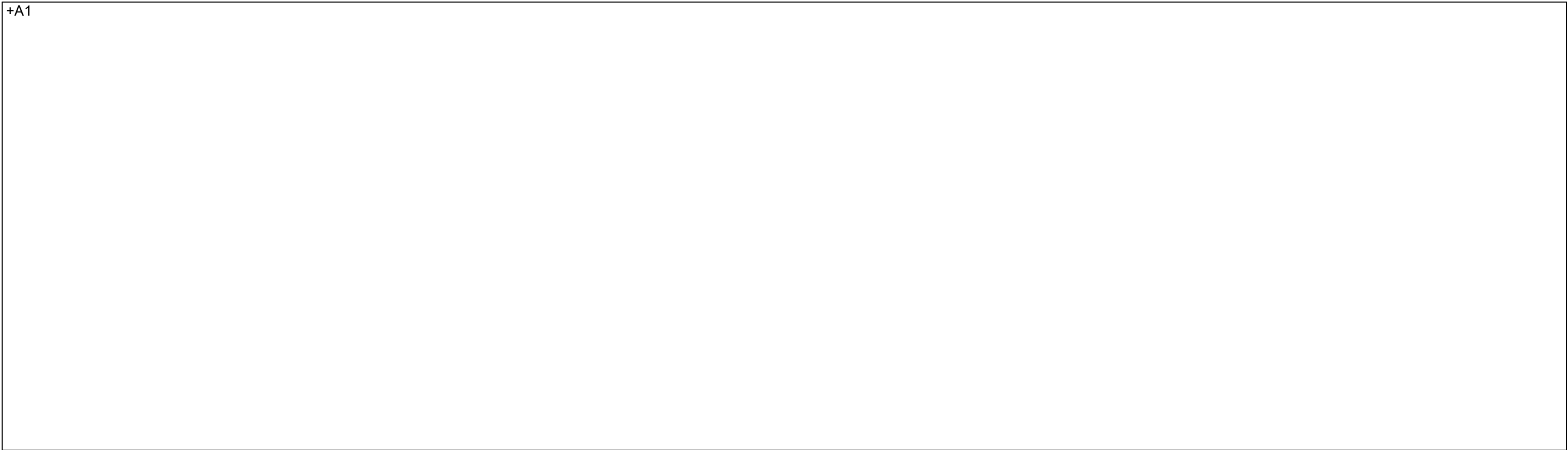
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 20
Drawing number: 2027960	Page Title: Main current	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 12
		Revision: F	Scale: 1:1	Next page: 21
		Replaces revision: D	Format: A3	Pages in total: 40



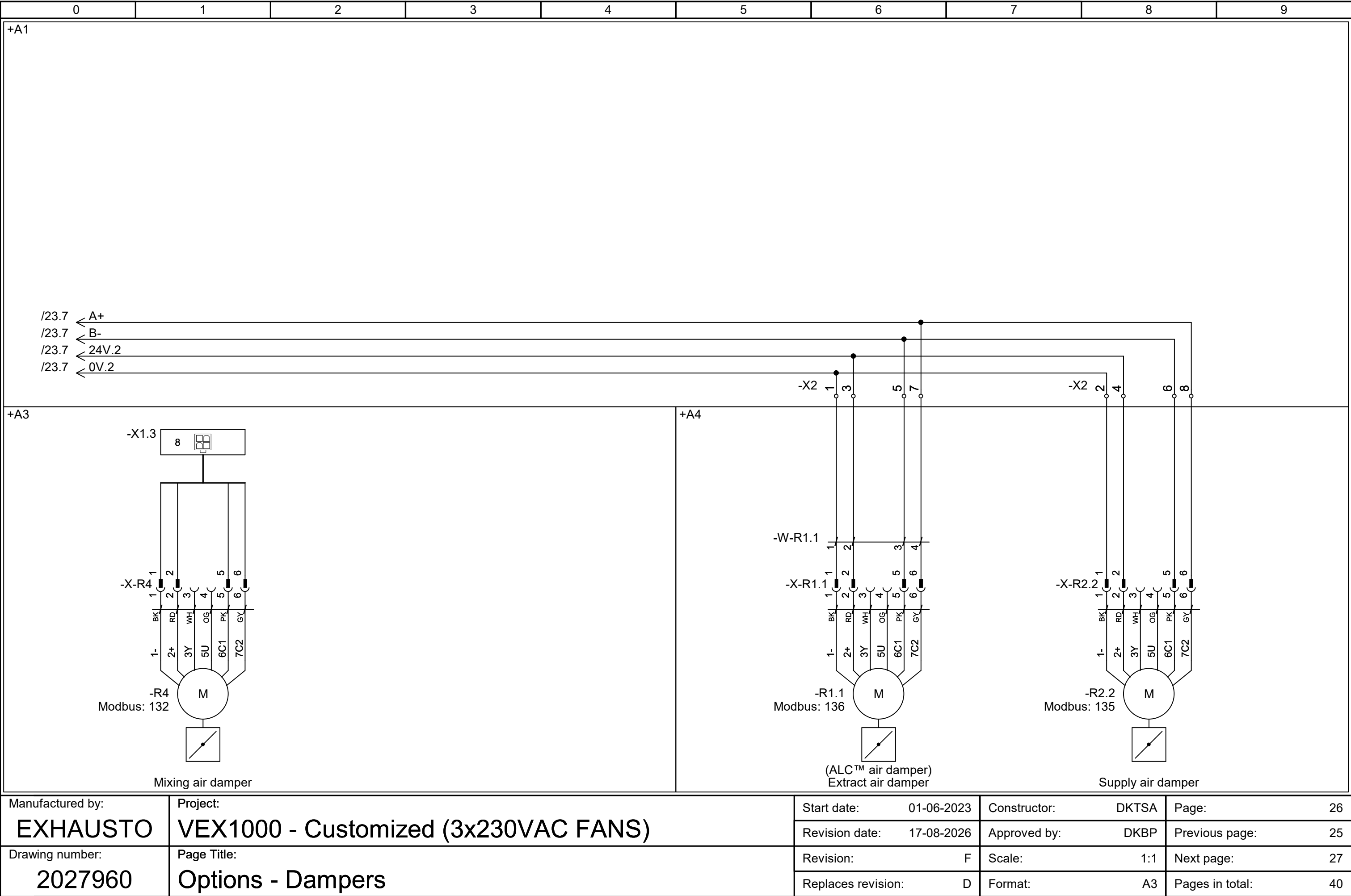
24VDC supply					
Manufactured by:	Project:	Start date:	Constructor:	Page:	
EXHAUSTO	VEX1000 - Customized (3x230VAC FANS)	01-06-2023	DKTSA	21	
Drawing number:	Page Title:	Revision date:	Approved by:	Previous page:	
2027960	Power analyzers - 3 phase	17-08-2026	DKBP	20	
		Revision:	Scale:	Next page:	
		F	1:1	22	
		Replaces revision:	Format:	Pages in total:	
		D	A3	40	

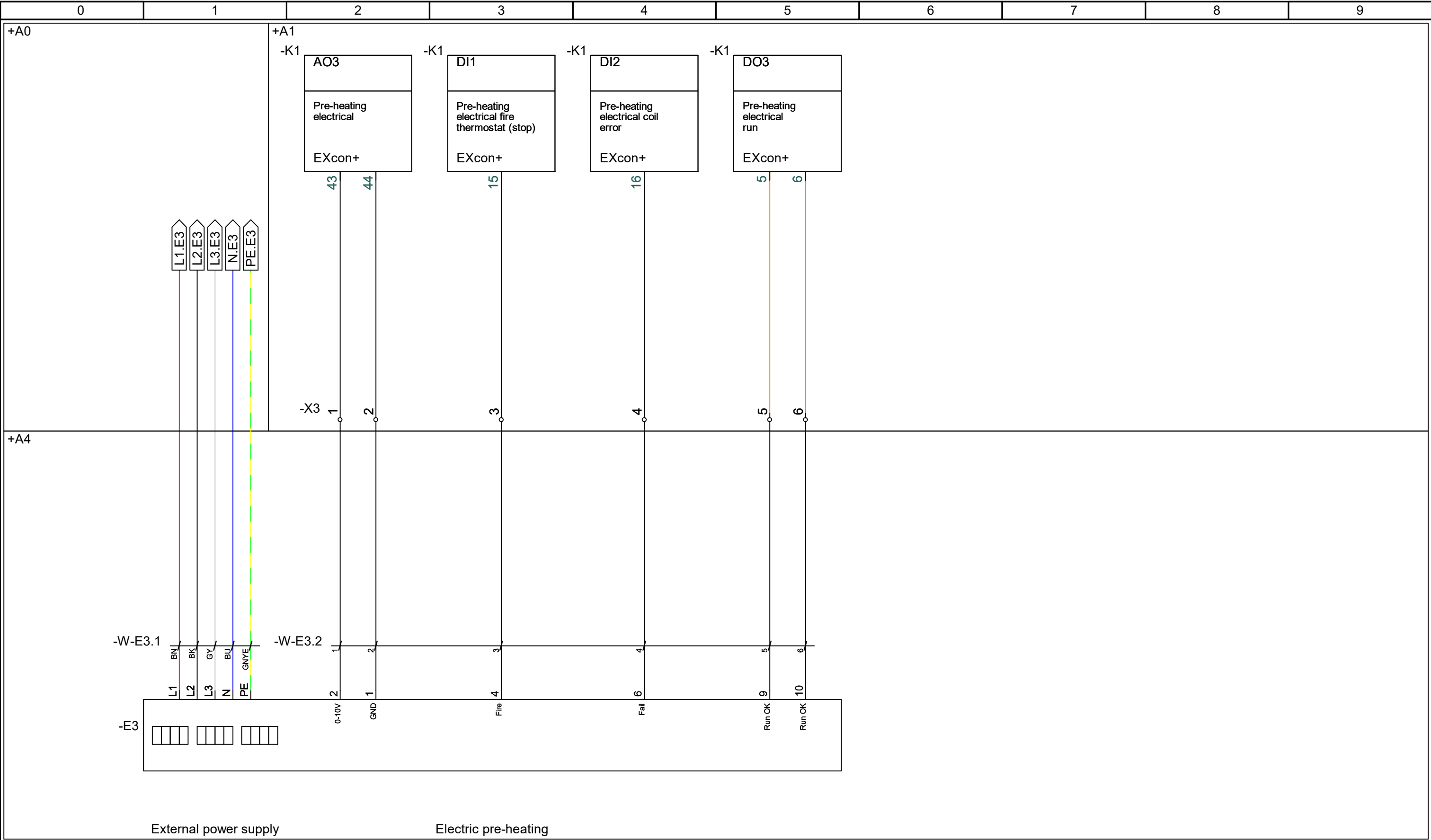


Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 23
Drawing number: 2027960	Page Title: Standard - Modbus connections	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 22
		Revision: F	Scale: 1:1	Next page: 24
		Replaces revision: D	Format: A3	Pages in total: 40

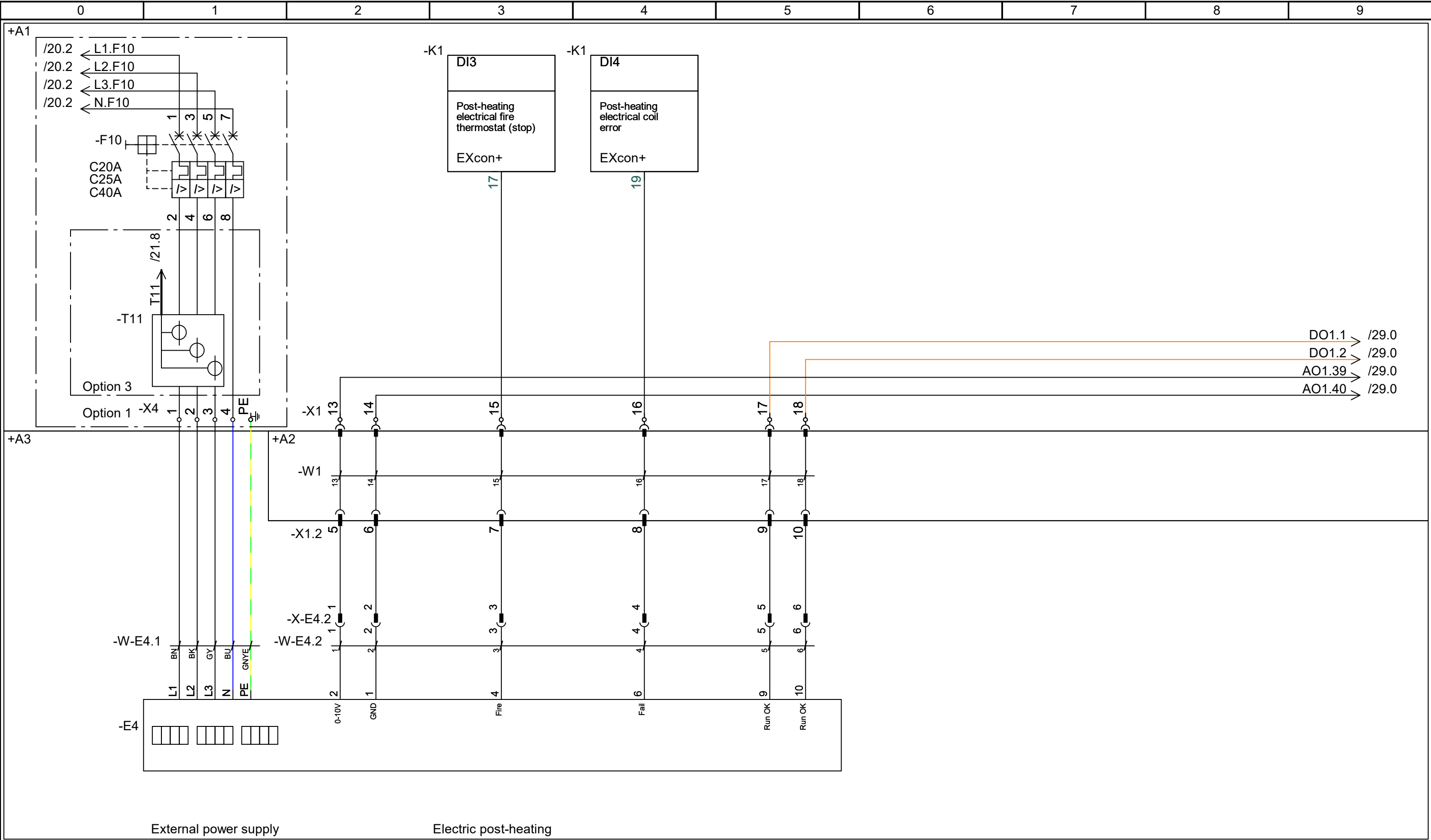


Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	25
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	24
Drawing number: 2027960	Page Title: Standard - Dampers	Revision:	F	Scale:	1:1	Next page:	26
		Replaces revision:	D	Format:	A3	Pages in total:	40

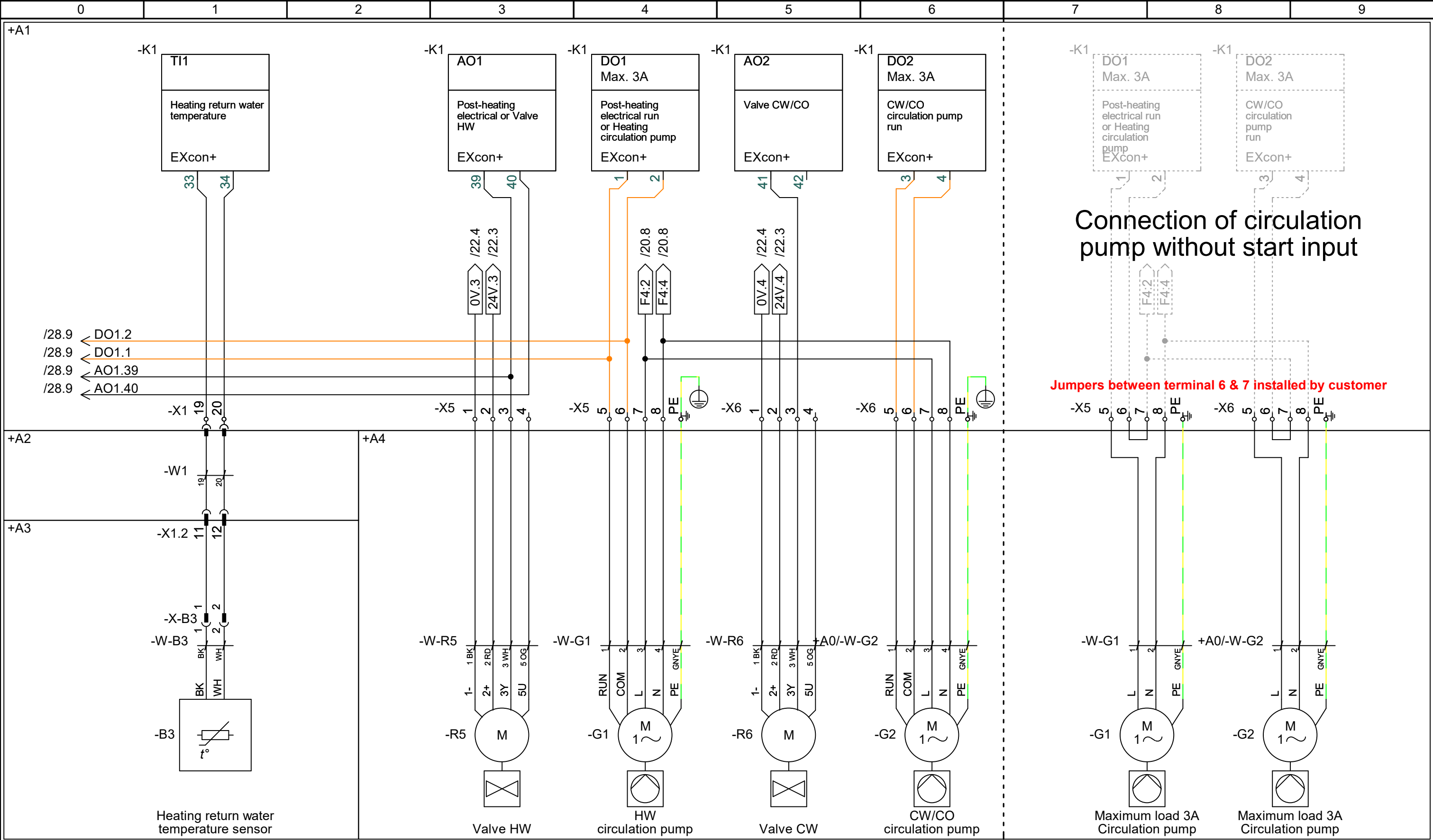




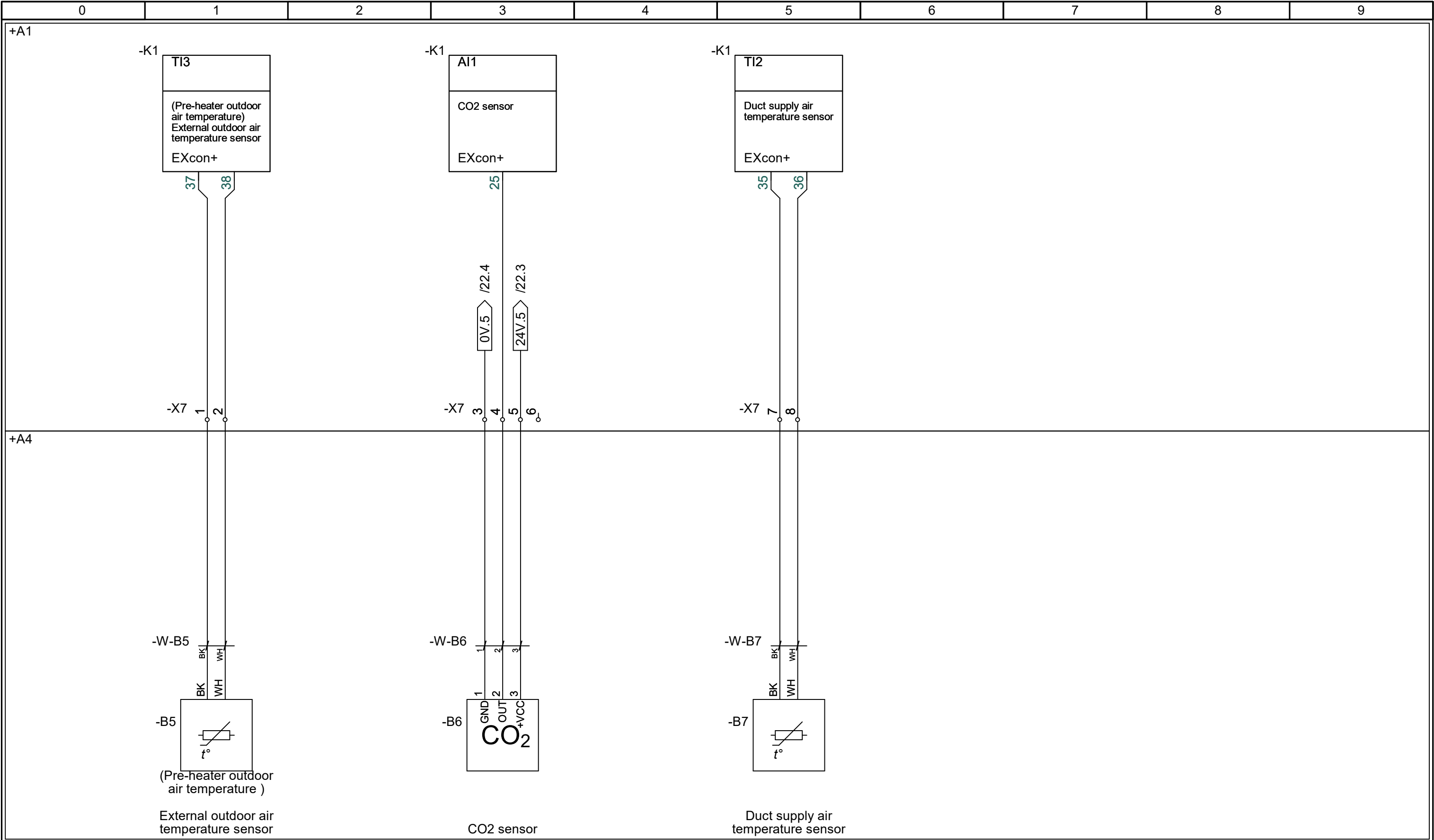
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	27
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	26
Drawing number: 2027960	Page Title: Options - Pre-heating controls	Revision:	F	Scale:	1:1	Next page:	28
		Replaces revision:	D	Format:	A3	Pages in total:	40



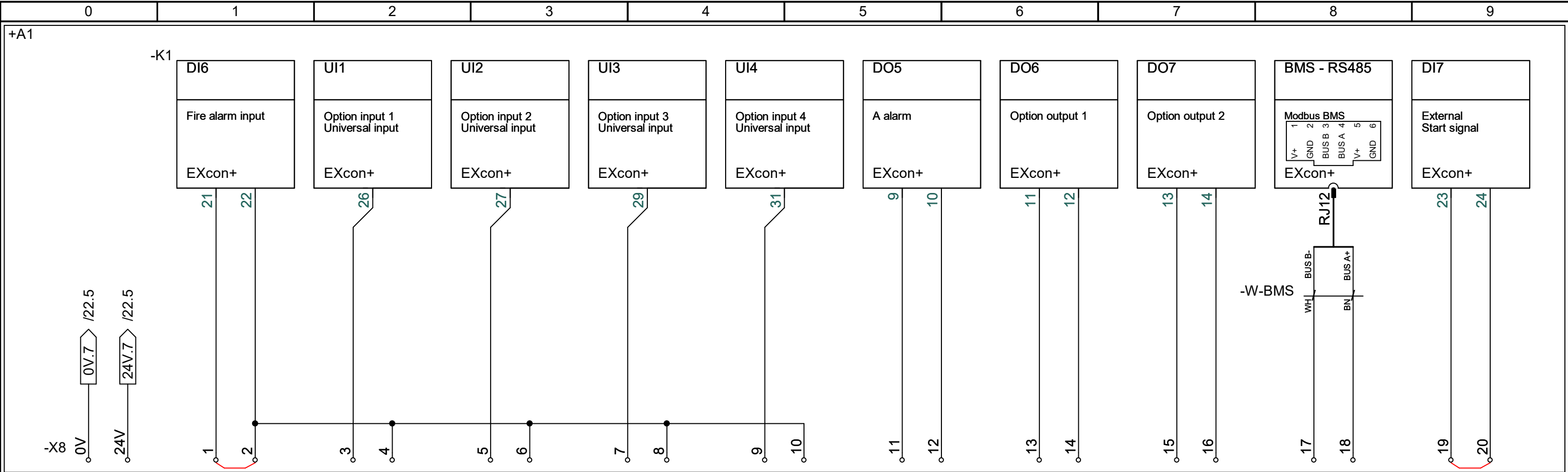
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	28
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	27
Drawing number: 2027960	Page Title: Options - Post-heating controls	Revision:	F	Scale:	1:1	Next page:	29
		Replaces revision:	D	Format:	A3	Pages in total:	40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: 29
Drawing number: 2027960	Page Title: Options - HW/CW/CO controls	Revision date: 17-08-2026	Approved by: DKBP	Previous page: 28
		Revision: F	Scale: 1:1	Next page: 30
		Replaces revision: D	Format: A3	Pages in total: 40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	30
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	29
Drawing number: 2027960	Page Title: Options - Temperature & CO2 sensors	Revision:	F	Scale:	1:1	Next page:	31
		Replaces revision:	D	Format:	A3	Pages in total:	40



+A0 Remove jumper when connecting to external systems Remove jumper when connecting to external systems

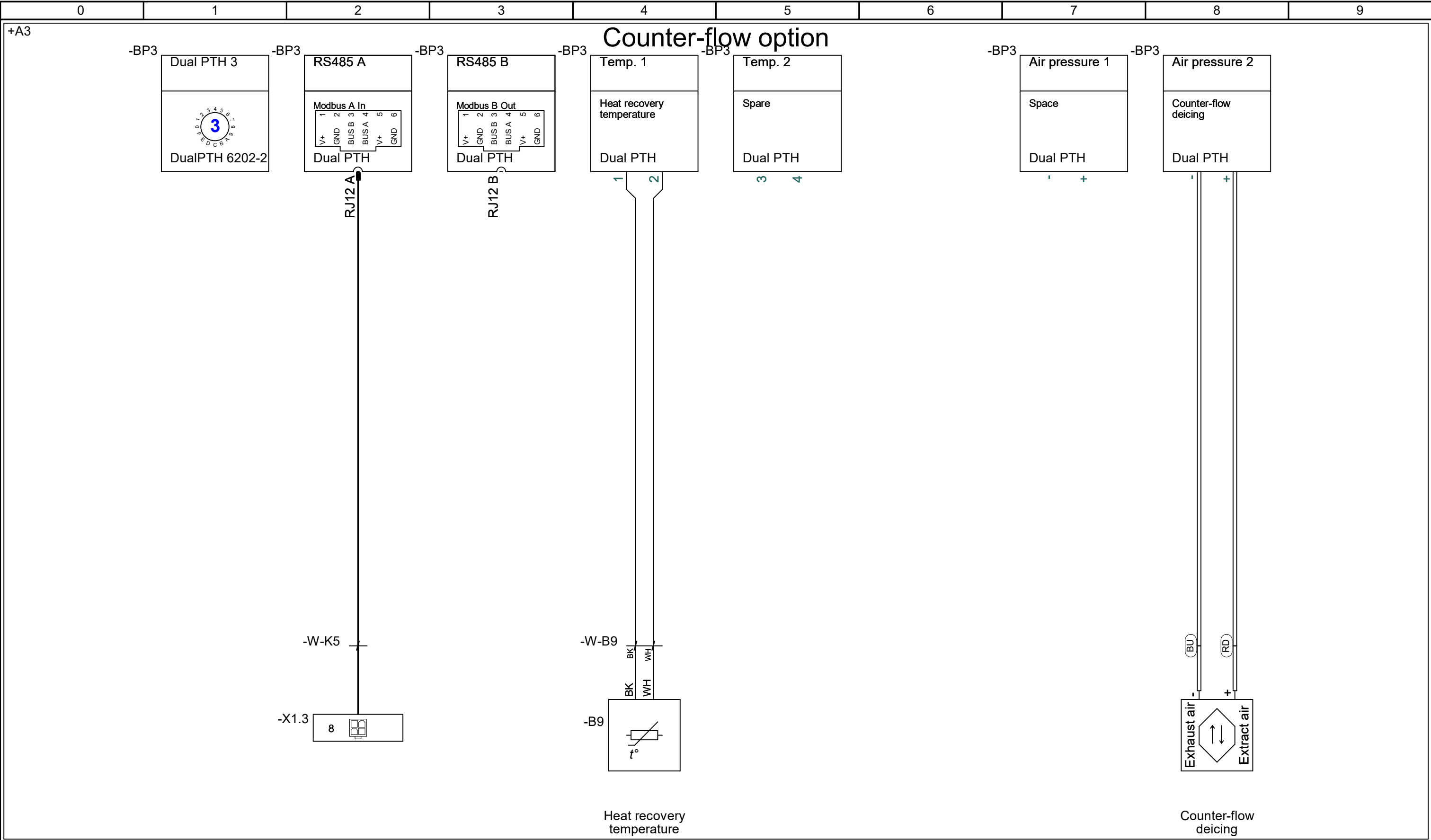
IO	Default setting	Comment
Digital input 6	Fire alarm	Mandatory
Universal input 1 - Option 1	External High Speed mode	-
Universal input 2 - Option 2	External Medium Speed mode	Can change depending on the coil configuration
Universal input 3 - Option 3	External Low Speed mode	Can change depending on the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

For further information on connecting accessories, see document 3006851

Manufactured by:	Project:	Start date:	01-06-2023	Constructor:	DKTSA	Page:	31
EXHAUSTO	VEX1000 - Customized (3x230VAC FANS)	Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	30
Drawing number:	Page Title:	Revision:	F	Scale:	1:1	Next page:	40
2027960	Standard - Customer connections	Replaces revision:	D	Format:	A3	Pages in total:	40

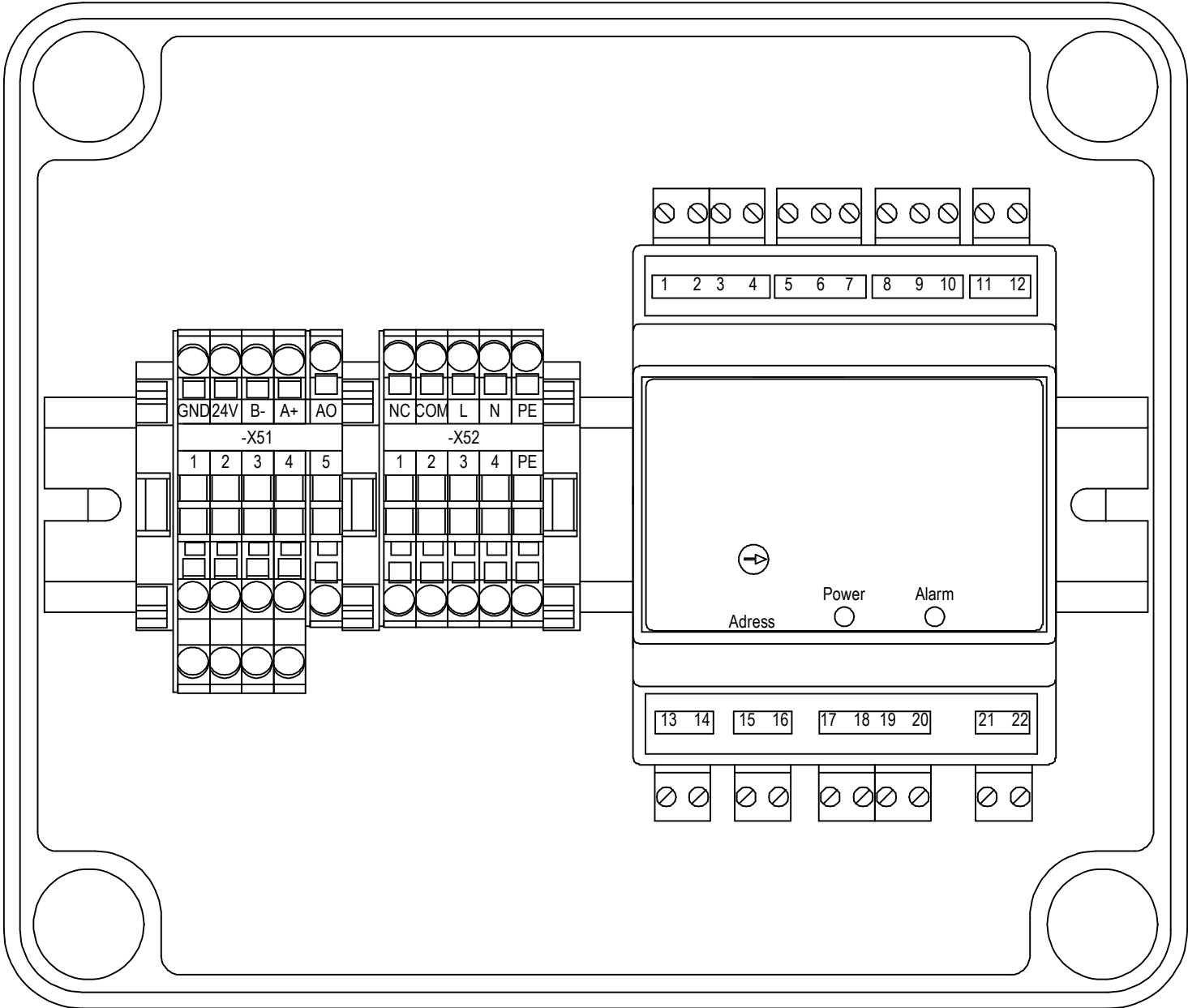
Pressure & temperature transmitters

Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: PTH
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 31
Drawing number: 2027960	Page Title: Pressure & temperature transmitters	Revision: F	Scale: 1:1	Next page: 40
		Replaces revision: D	Format: A3	Pages in total: 40

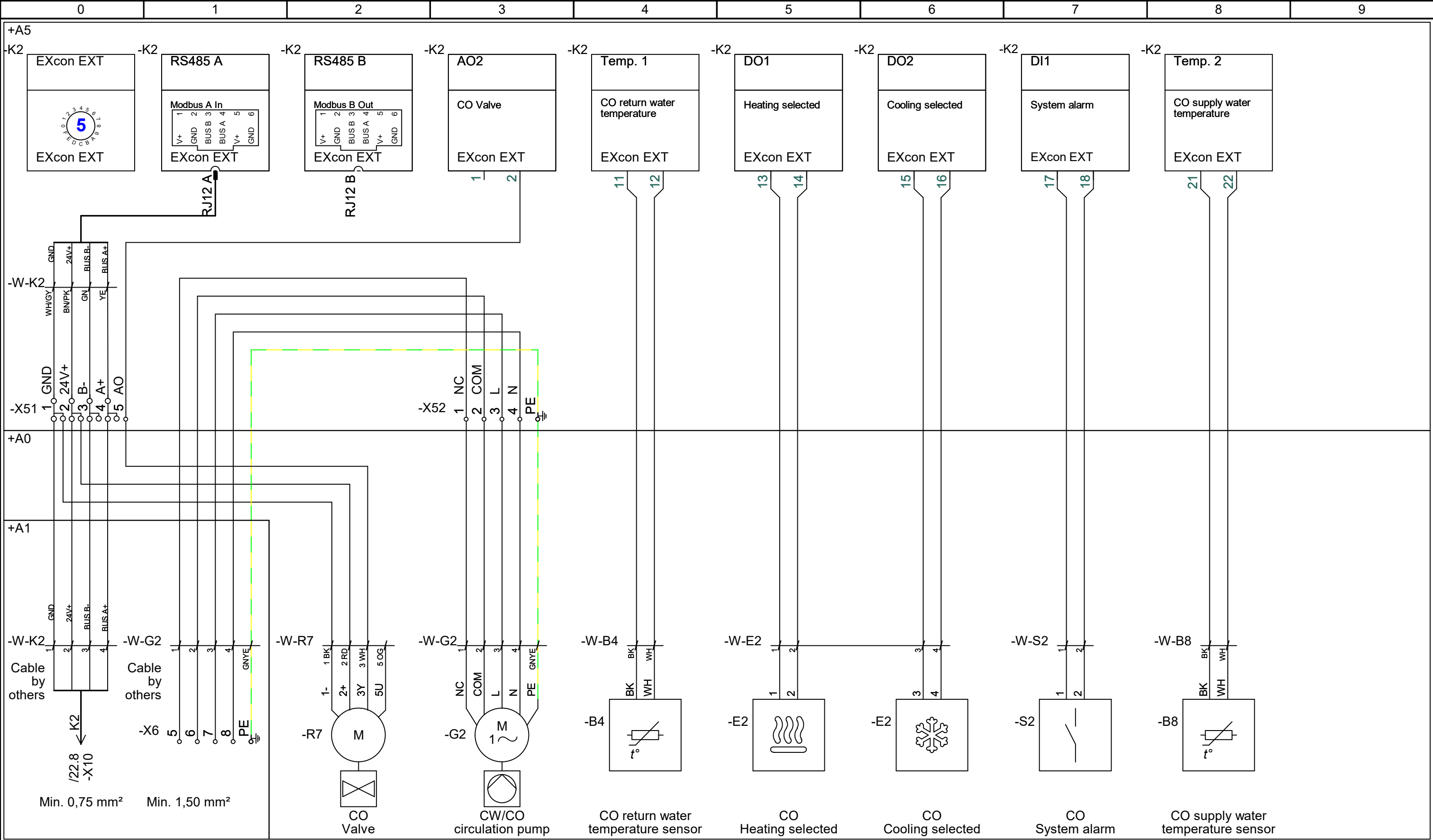


Option - Coil control box

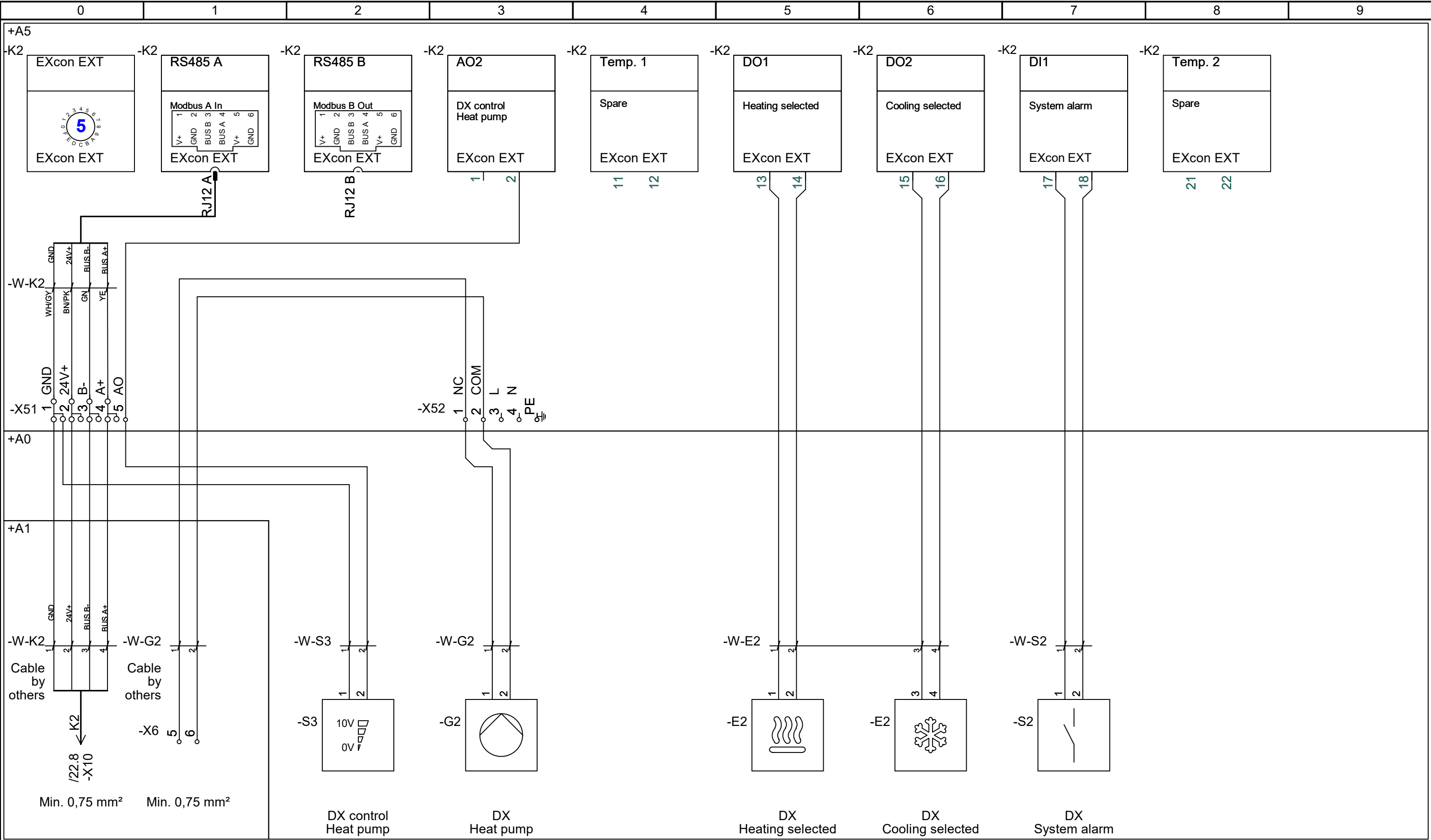
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date: 01-06-2023	Constructor: DKTSA	Page: Coil control box
		Revision date: 17-08-2026	Approved by: DKBP	Previous page: 43
Drawing number: 2027960	Page Title: Option - Coil control box	Revision: F	Scale: 1:1	Next page: 50
		Replaces revision: D	Format: A3	Pages in total: 40



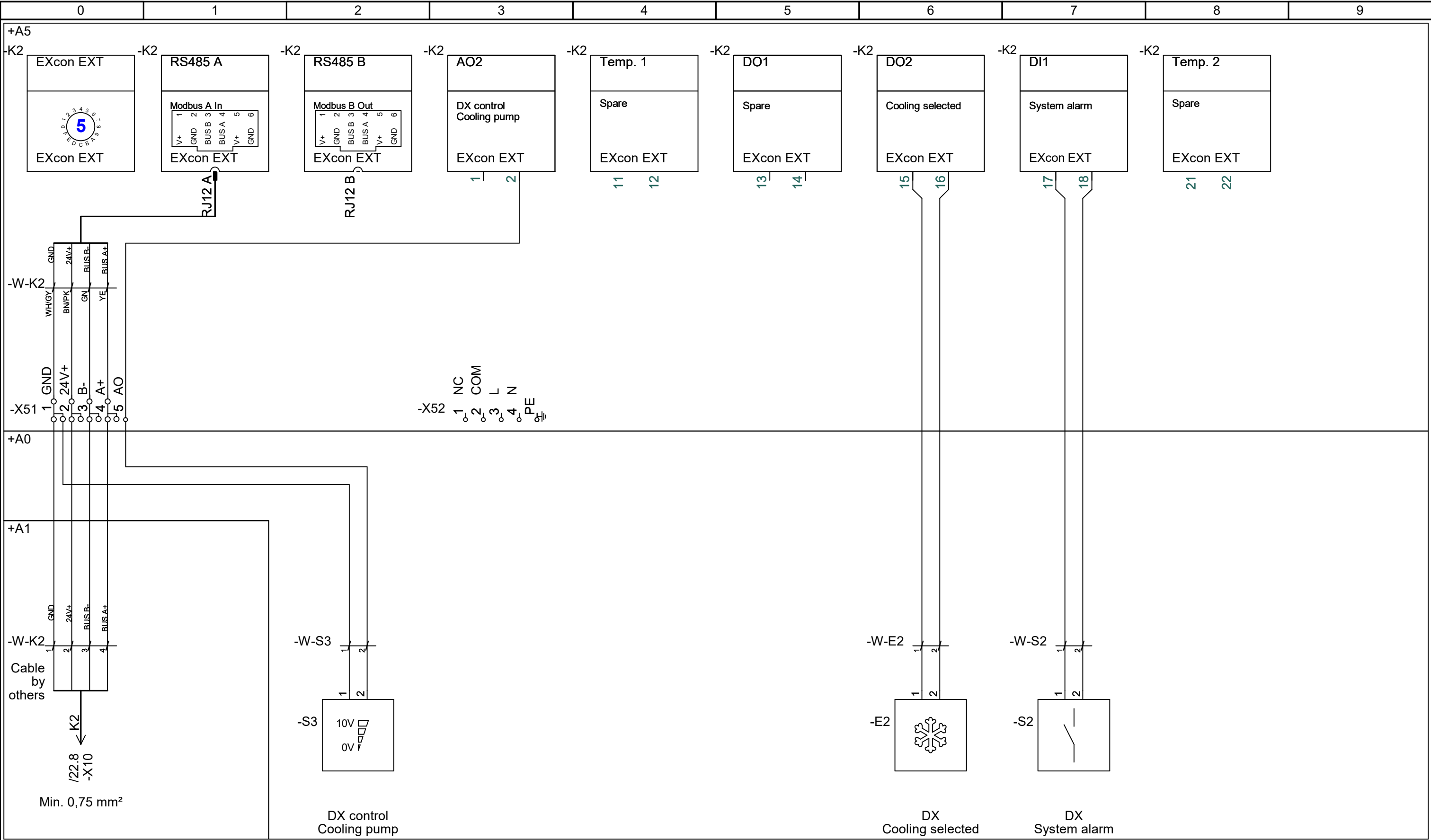
Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	50
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	43
Drawing number: 2027960	Page Title: Option - Coil control box layout	Revision:	F	Scale:	1:1	Next page:	51
		Replaces revision:	D	Format:	A3	Pages in total:	40



Manufactured by: EXHAUSTO	Project: VEX1000 - Customized (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	51
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	50
Drawing number: 2027960	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 (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	52
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	51
Drawing number: 2027960	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 (3x230VAC FANS)	Start date:	01-06-2023	Constructor:	DKTSA	Page:	53
		Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	52
Drawing number: 2027960	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 disconnecter 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 disconnecter 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				
EXno.:2027468	EXcon+	AHU Controller	EXHAUSTO	1				
Manufactured by:		Project:	Start date:	01-06-2023	Constructor:	DKTSA	Page:	PARTS
EXHAUSTO			Revision date:	17-08-2026	Approved by:	DKBP	Previous page:	53
Drawing number:		Page Title:	Revision:	F	Scale:	1:5	Next page:	.
2027960			Replaces revision:	D	Format:	A3	Pages in total:	40

[illegible]



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

EXHAUSTO