

Air handling unit

## X-CUBE X2 compact 2

with X-CUBE Control

Circuit diagrams and wiring



**TROX DOCU  
PORTAL**

Read this manual  
before starting  
any work!



<b>1</b>	<b>230 V wiring .....</b>	<b>3</b>
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## 1 230 V wiring

Circuit diagrams for the following X-CUBE X2 Compact 2 device variants (230 V):

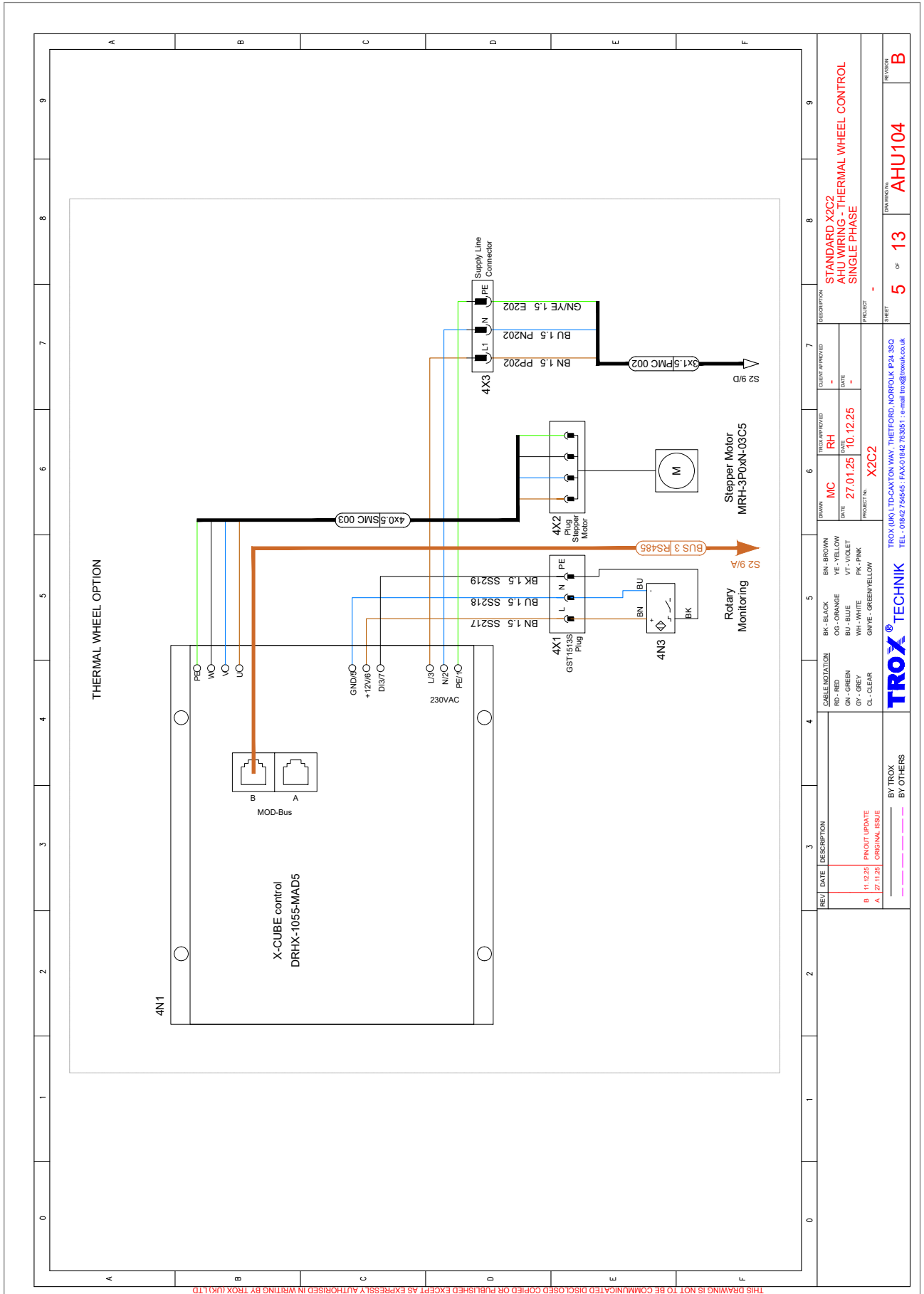
- Heat recovery with cooling coil
- Heat recovery with heating coil
- Heat recovery with cooling coil and heating coil
- Heat recovery with electric air heater
- Heat recovery system











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REV	DATE	DESCRIPTION	BY TROX	BY OTHERS
B	11.12.25	FINOUT UPDATE		
A	27.11.25	ORIGINAL ISSUE		

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RH	10.12.25	10.12.25		

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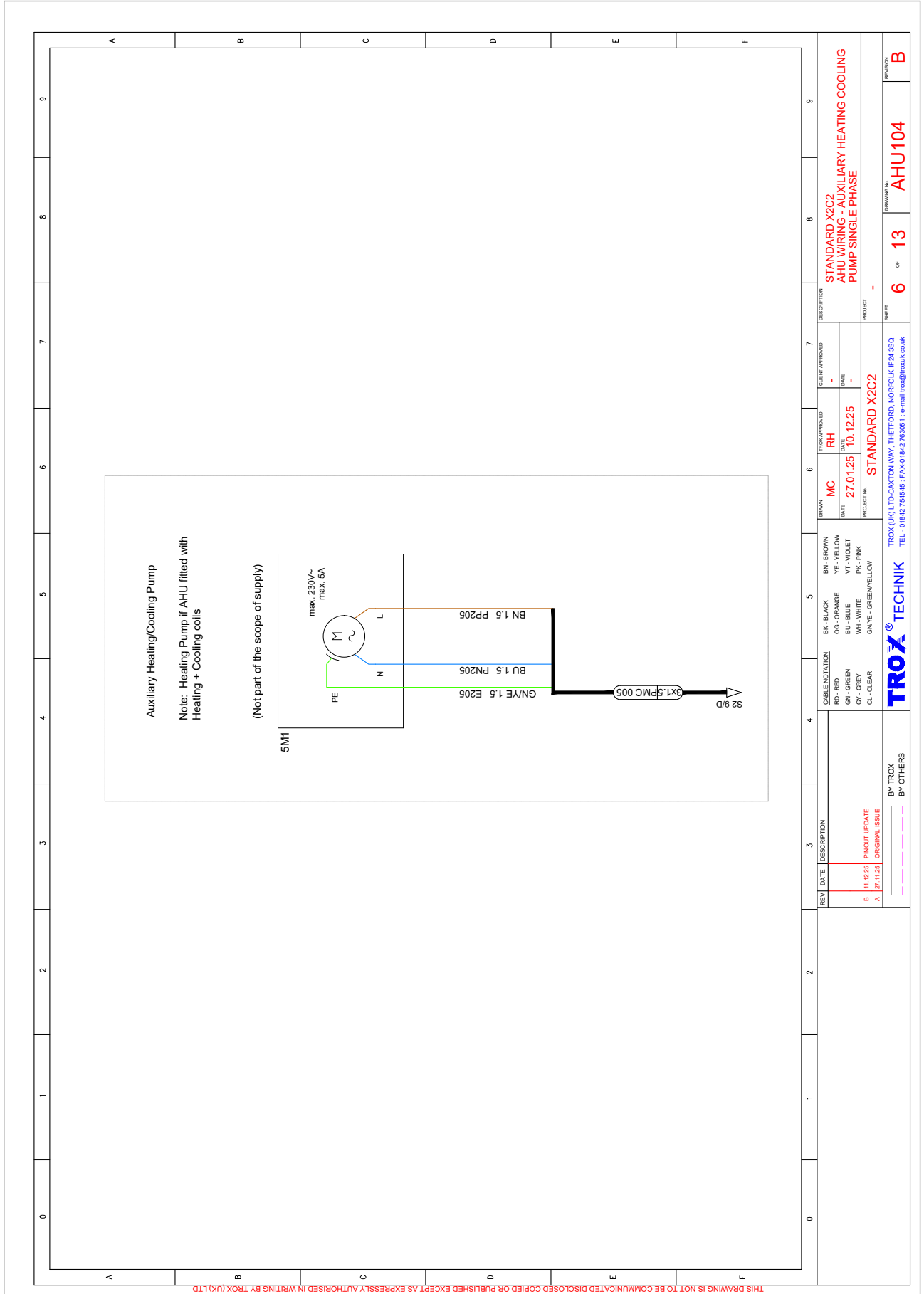
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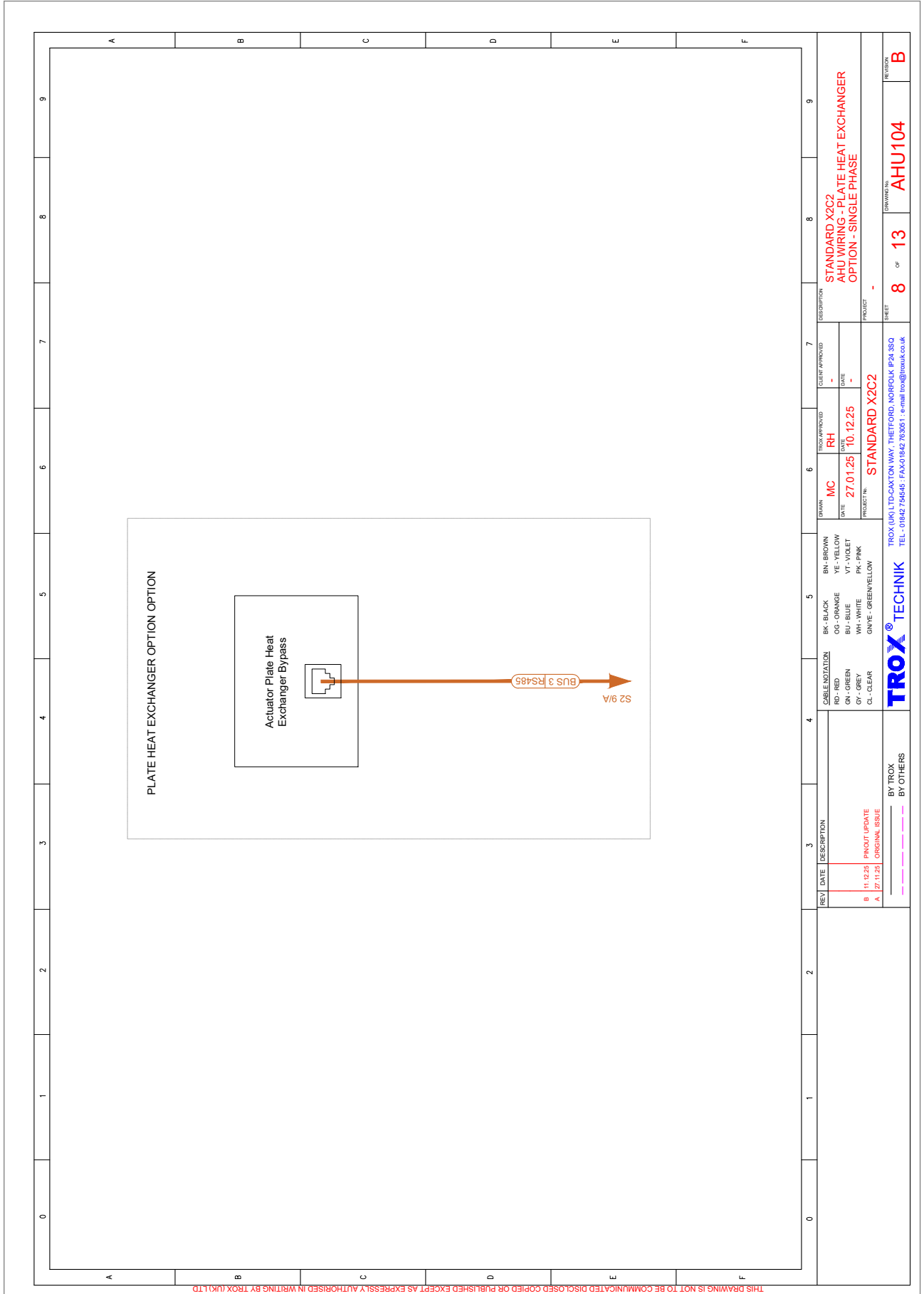
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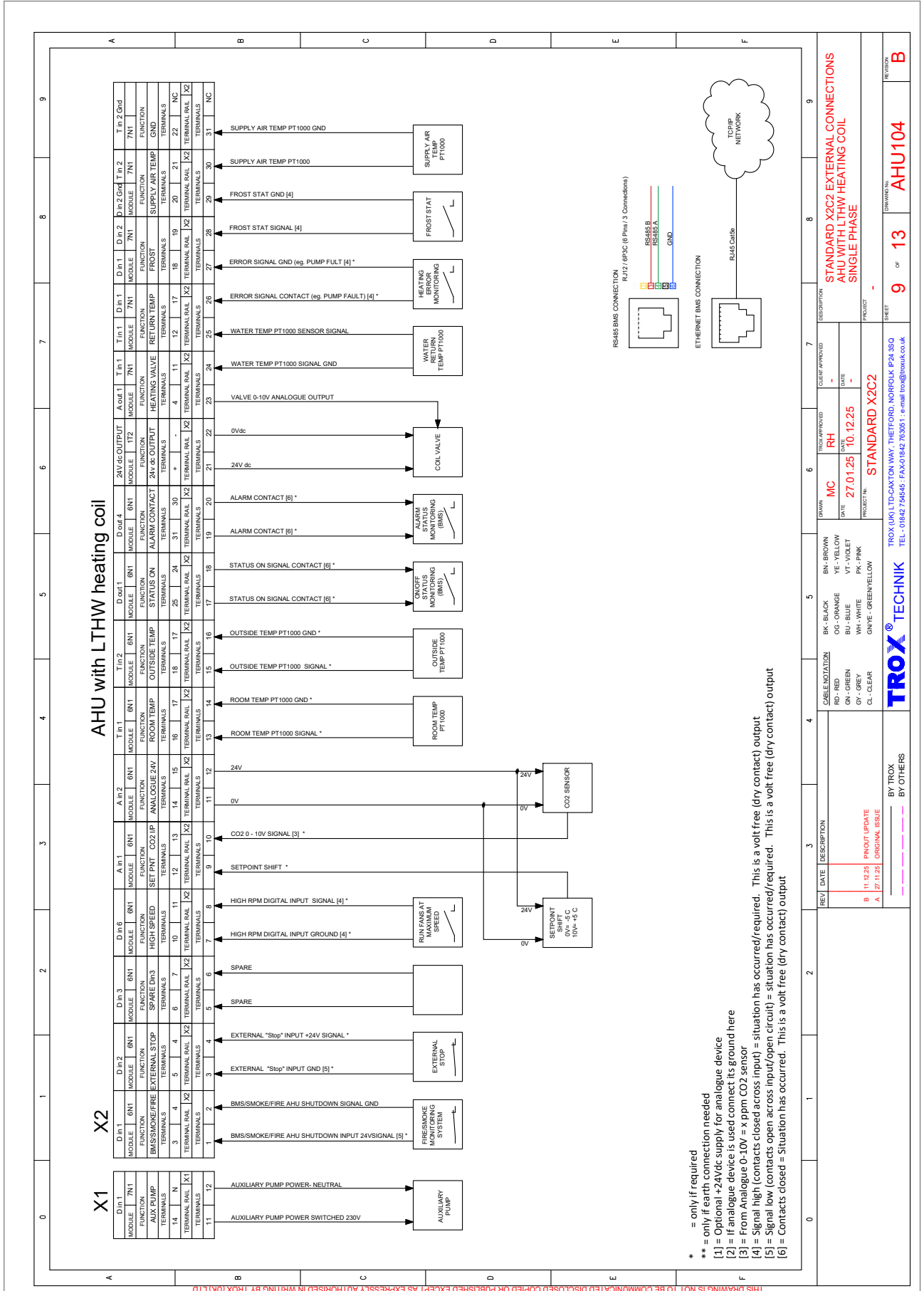
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A	27.11.25	ORIGINAL ISSUE	RD - RED GN - GREEN GY - GREY CL - CLEAR	DATE	DATE		
				27.01.25	10.12.25		
				PROJECT NO.			
							STANDARD X2C2

BY TROX	BY OTHERS

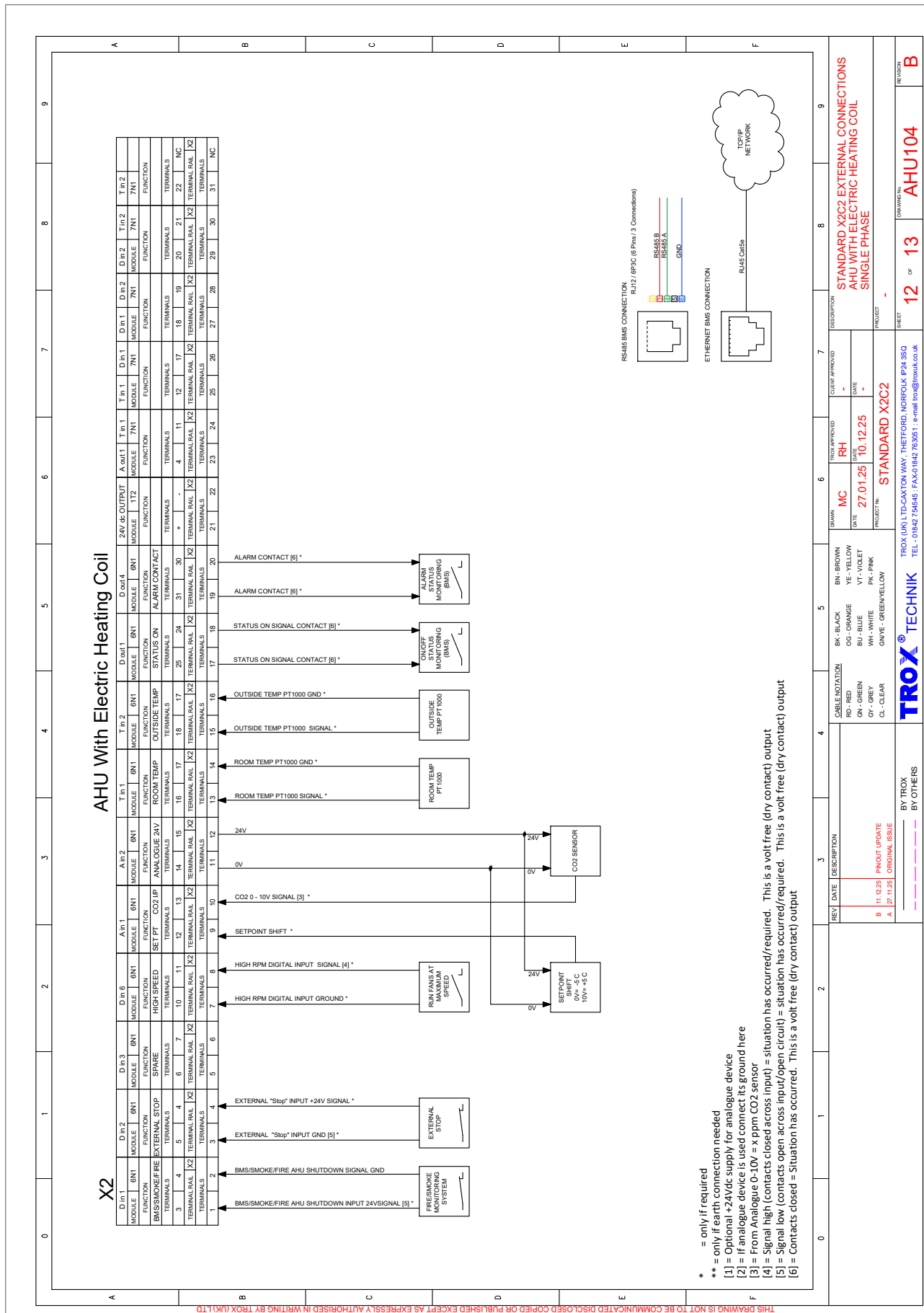
  

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REV	DATE	DESCRIPTION	APPROVED	DATE	DESCRIPTION
A	17.11.25	ORIGINAL ISSUE	MC	27.01.25	10.12.25
B	11.02.25	PIVOT UPDATE	RH	-	-

PROJECT No: **STANDARD X2C2**

CABLE NOTATION  
BK - BLACK  
RD - RED  
GN - GREEN  
GY - GREY  
CL - CLEAR

BY TROX  
BY OTHERS

PROJECT No: **STANDARD X2C2**

DATE: **12** OF **13**

REVISION: **B**

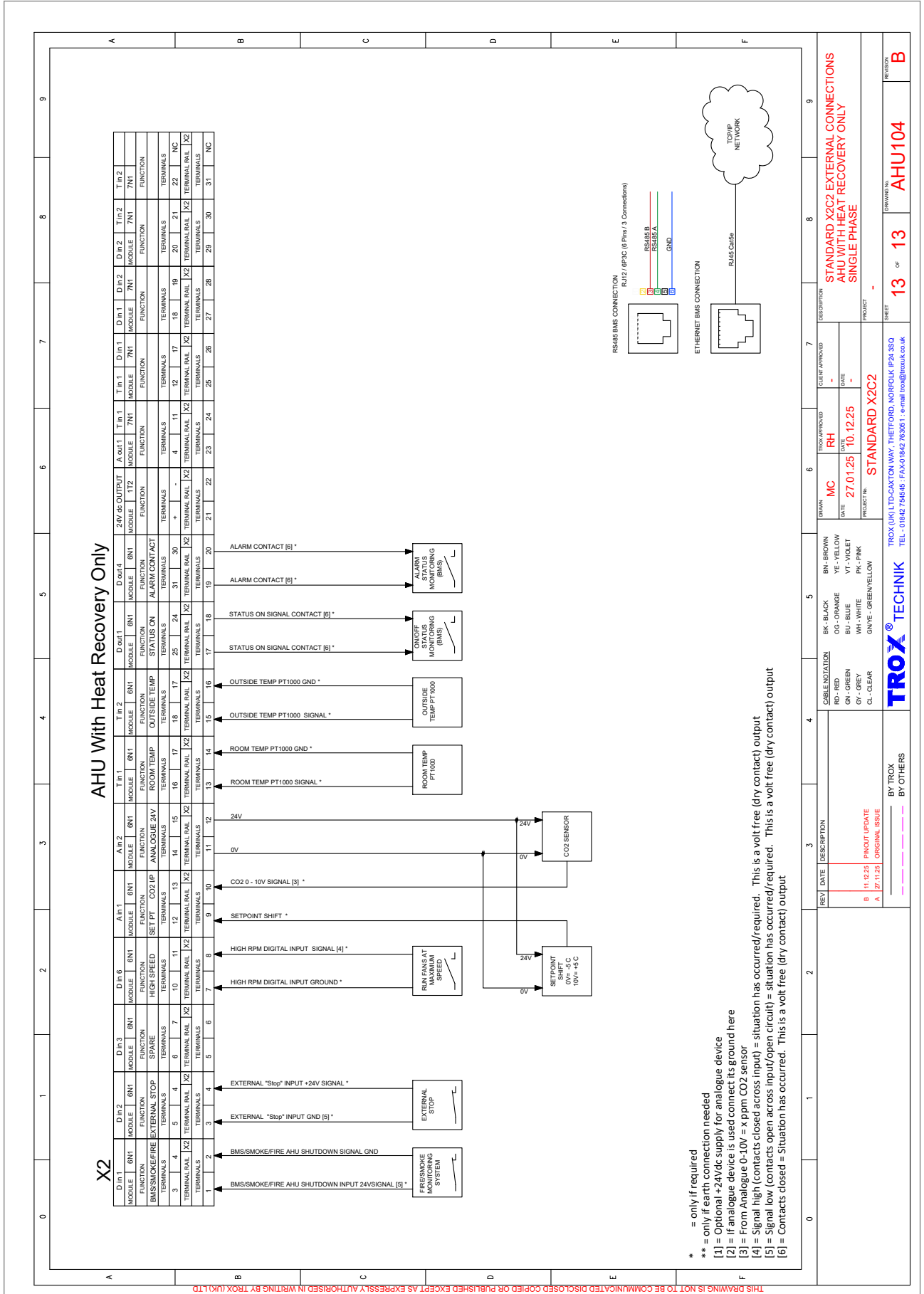
DESCRIPTION: **STANDARD X2C2 EXTERNAL CONNECTIONS AHU WITH ELECTRIC HEATING COIL SINGLE PHASE**

PROJECT: **STANDARD X2C2**

DATE: **12** OF **13**

REVISION: **B**

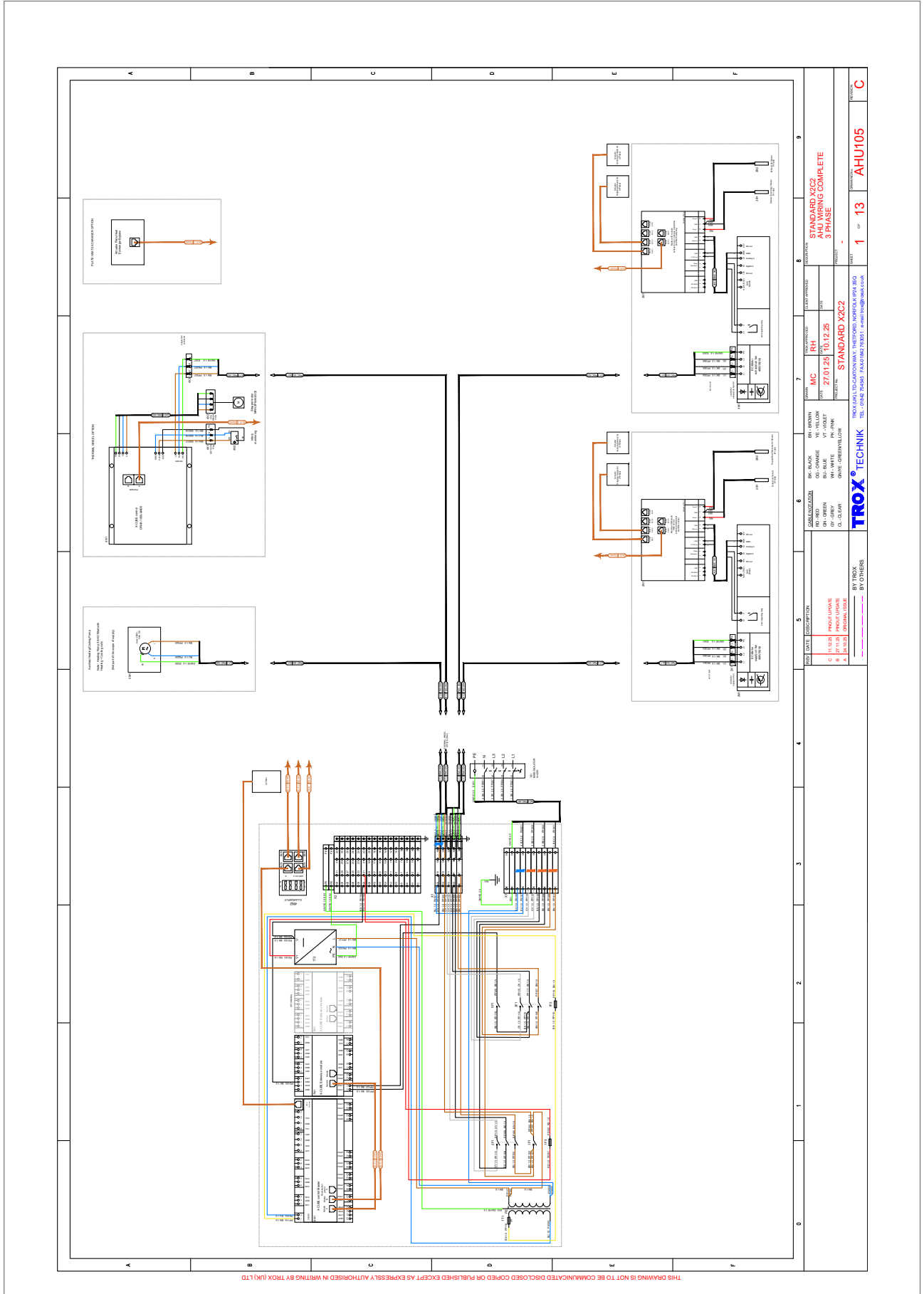
TROX (UK) LTD-GAXTON WAY, THEFFORD, NORFOLK IP24 3SQ  
TEL: 01842 754545 FAX: 01842 763051 e-mail: trox@trox.co.uk



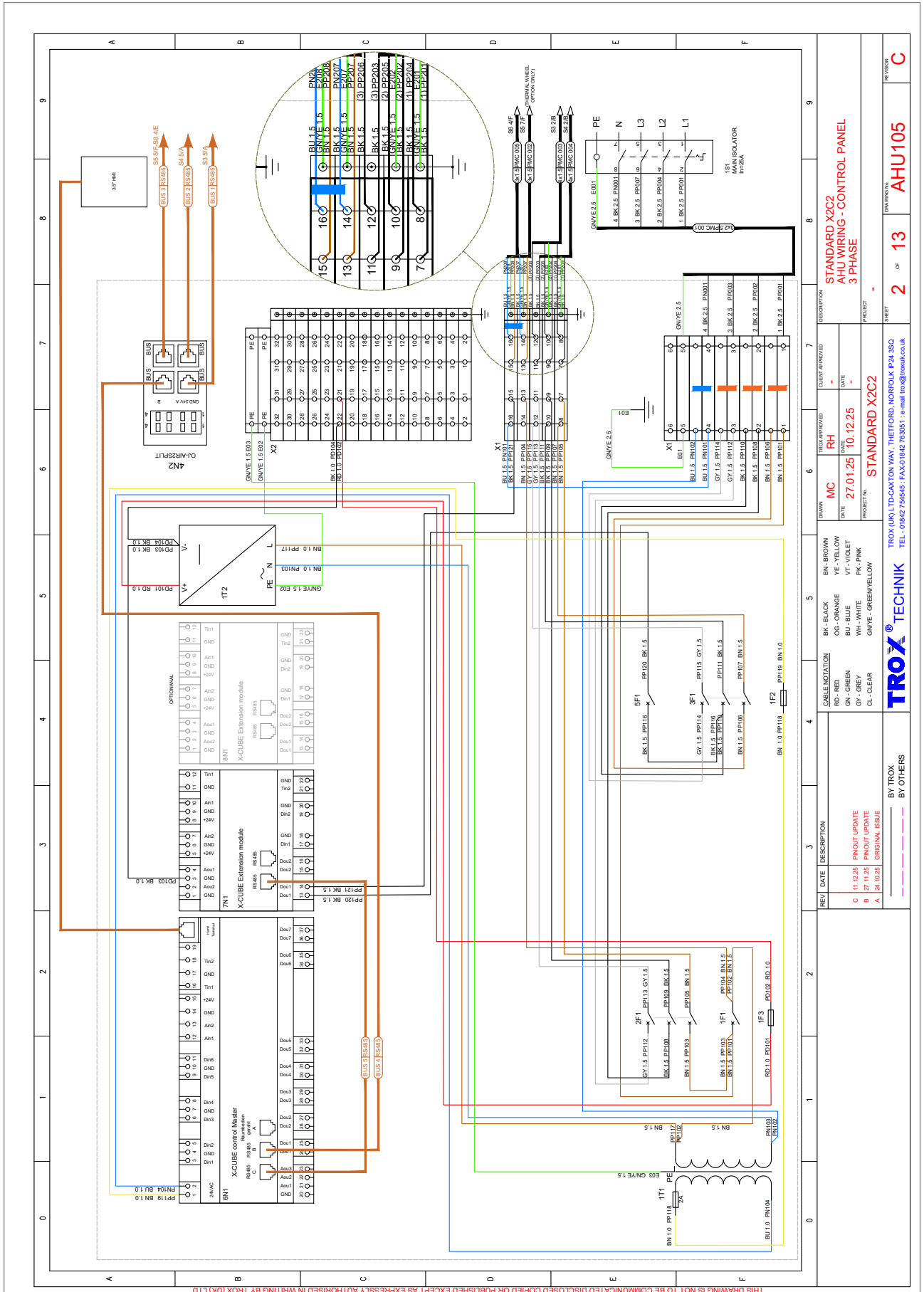
## 2 400 V wiring

Circuit diagrams for the following X-CUBE X2 Compact 2 device variants (400 V):

- Heat recovery with cooling coil
- Heat recovery with heating coil
- Heat recovery with cooling coil and heating coil
- Heat recovery with electric air heater
- Heat recovery system



0	1	2	3	4	5	6	7	8	9	
<p>REVISIONS</p> <p>DATE DESCRIPTION</p> <p>1 10.12.25 PRODUCE</p> <p>2 10.12.25 PRODUCE</p> <p>3 10.12.25 PRODUCE</p> <p>BY TROX</p> <p>BY OTHERS</p>					<p>APPROVED</p> <p>DATE APPROVED</p> <p>MC RH 10.12.25</p> <p>STANDARD X2CC2</p>		<p>REVISIONS</p> <p>DATE APPROVED</p> <p>MC RH 10.12.25</p> <p>STANDARD X2CC2</p>		<p>DESCRIPTION</p> <p>STANDARD X2CC2</p> <p>3 PHASE WIRING COMPLETE</p>	
<p>PROJECT NO. 13 AHU105</p> <p>DATE 10.12.25</p> <p>BY TROX</p> <p>BY OTHERS</p>										



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B	27.01.25	PNOUT UPDATE		
A	29.02.24	ORIGINAL ISSUE		

DRAMA	THROW APPROVED	CHECK APPROVED	DESCRIPTION
MC	RH	-	STANDARD X2C2 AHU WIRING - CONTROL PANEL 3 PHASE

DATE	DATE	PROJECT NO.	PROJECT
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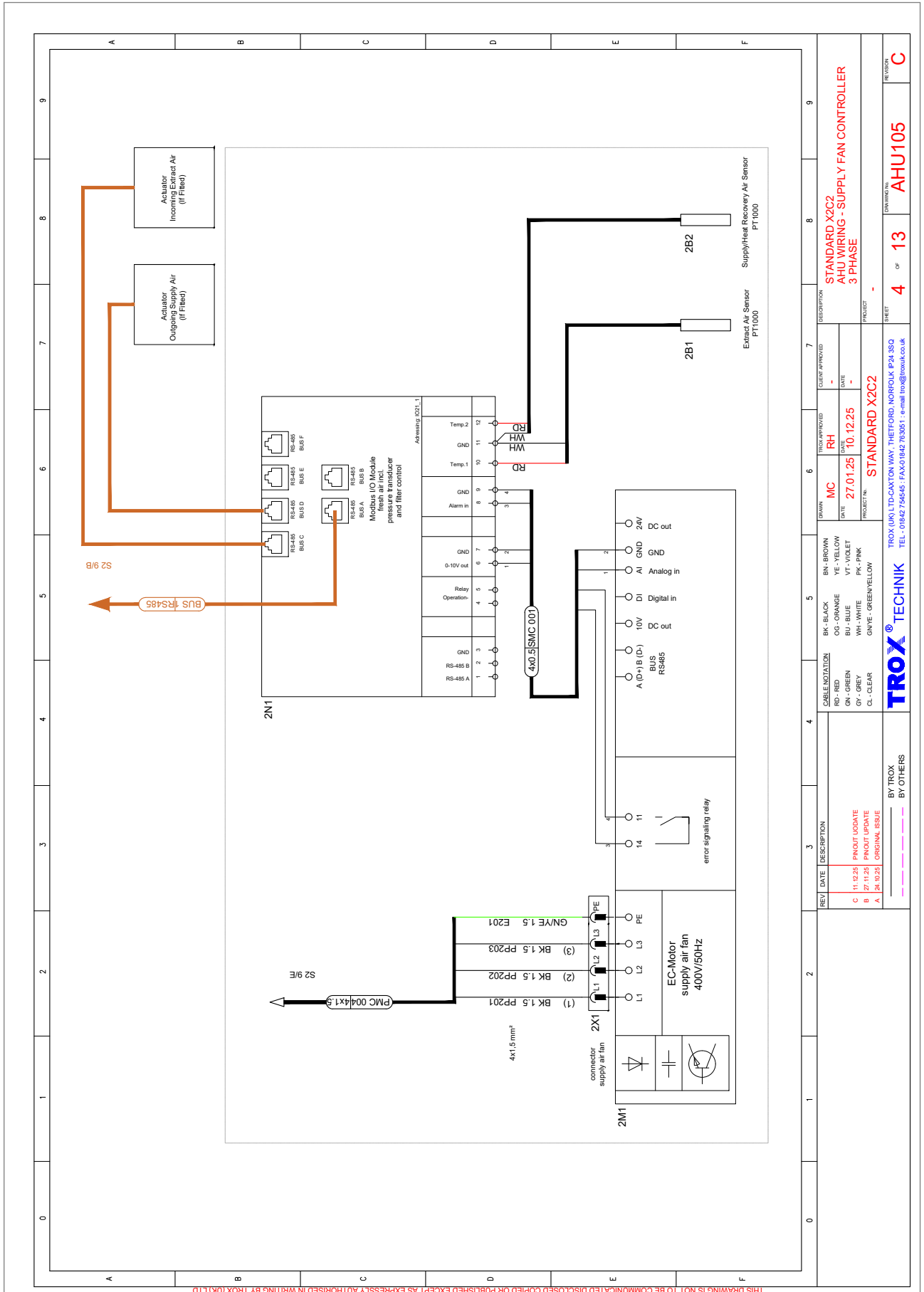
  

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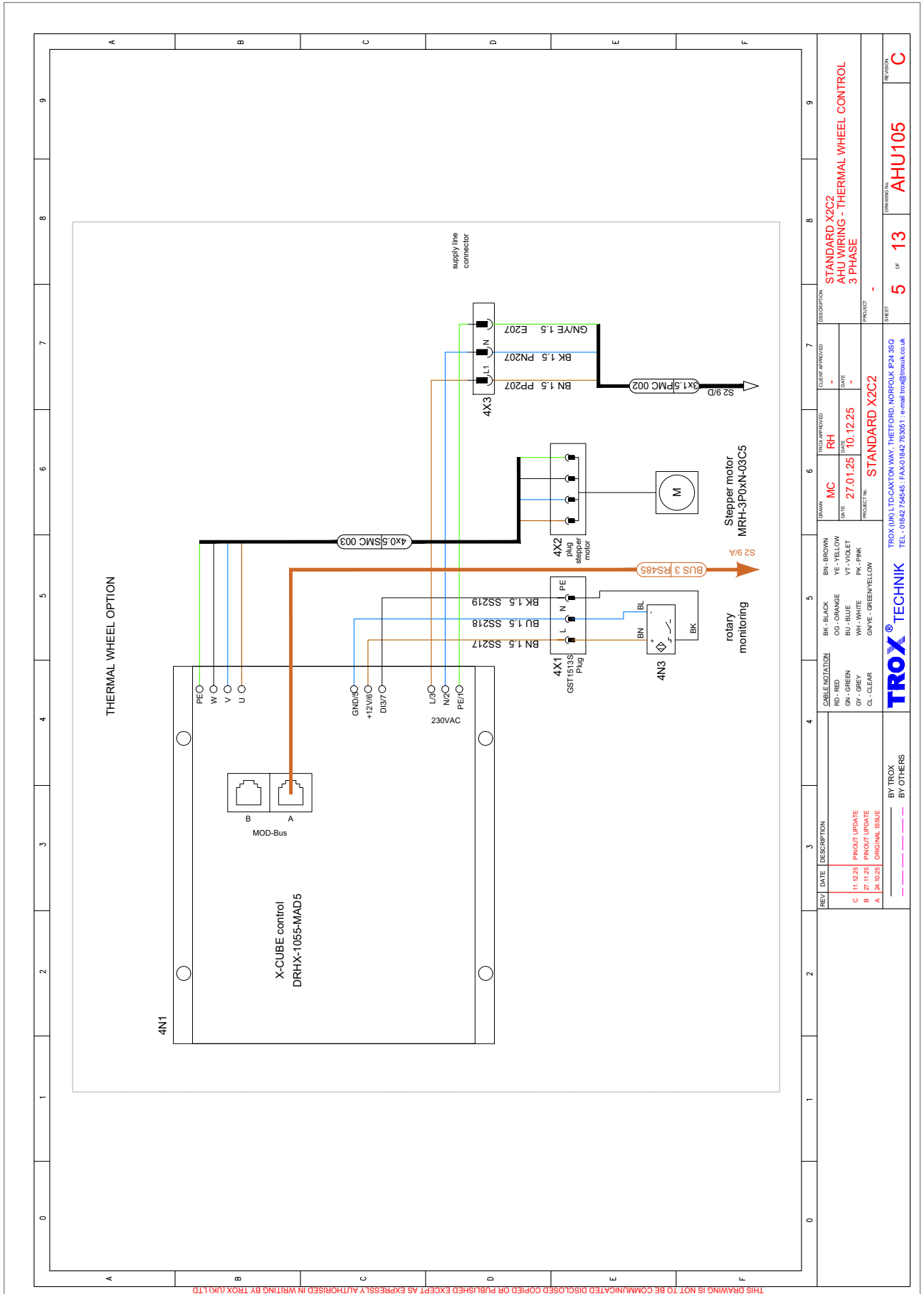
  

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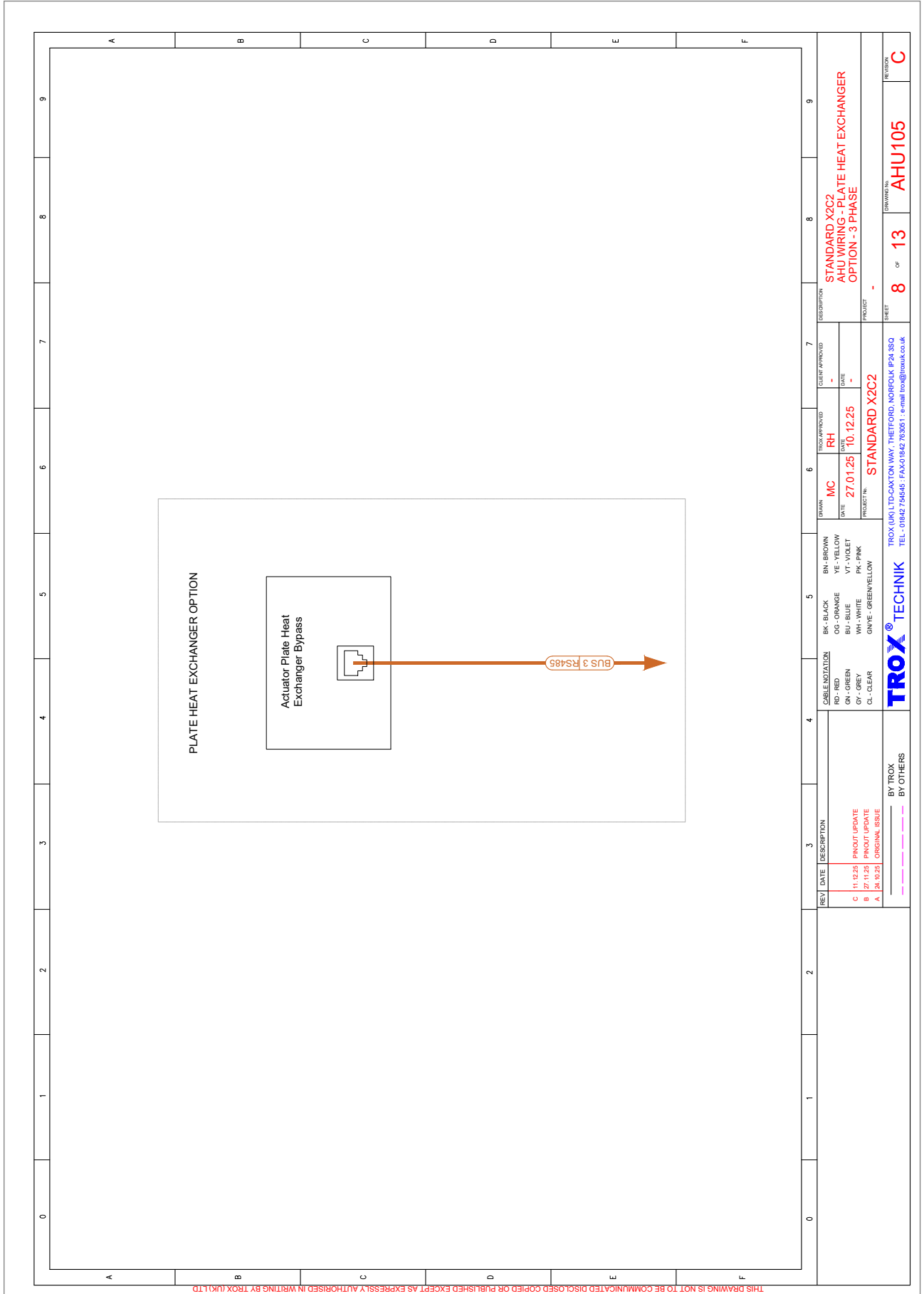
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C	11.12.25	FINOUT UPDATE	BK - BLACK RD - RED OG - ORANGE GN - GREEN GY - GREY CL - CLEAR	MC	RH	-	STANDARD X2C2 AHU WIRING - PLATE HEAT EXCHANGER OPTION - 3 PHASE
B	27.11.25	FINOUT UPDATE	BN - BROWN YE - YELLOW VT - VIOLET PK - PINK	DATE	27.01.25	10.12.25	
A	24.10.25	ORIGINAL ISSUE	WH - WHITE GNVE - GREEN/YELLOW	PROJECT NO.	STANDARD X2C2	-	

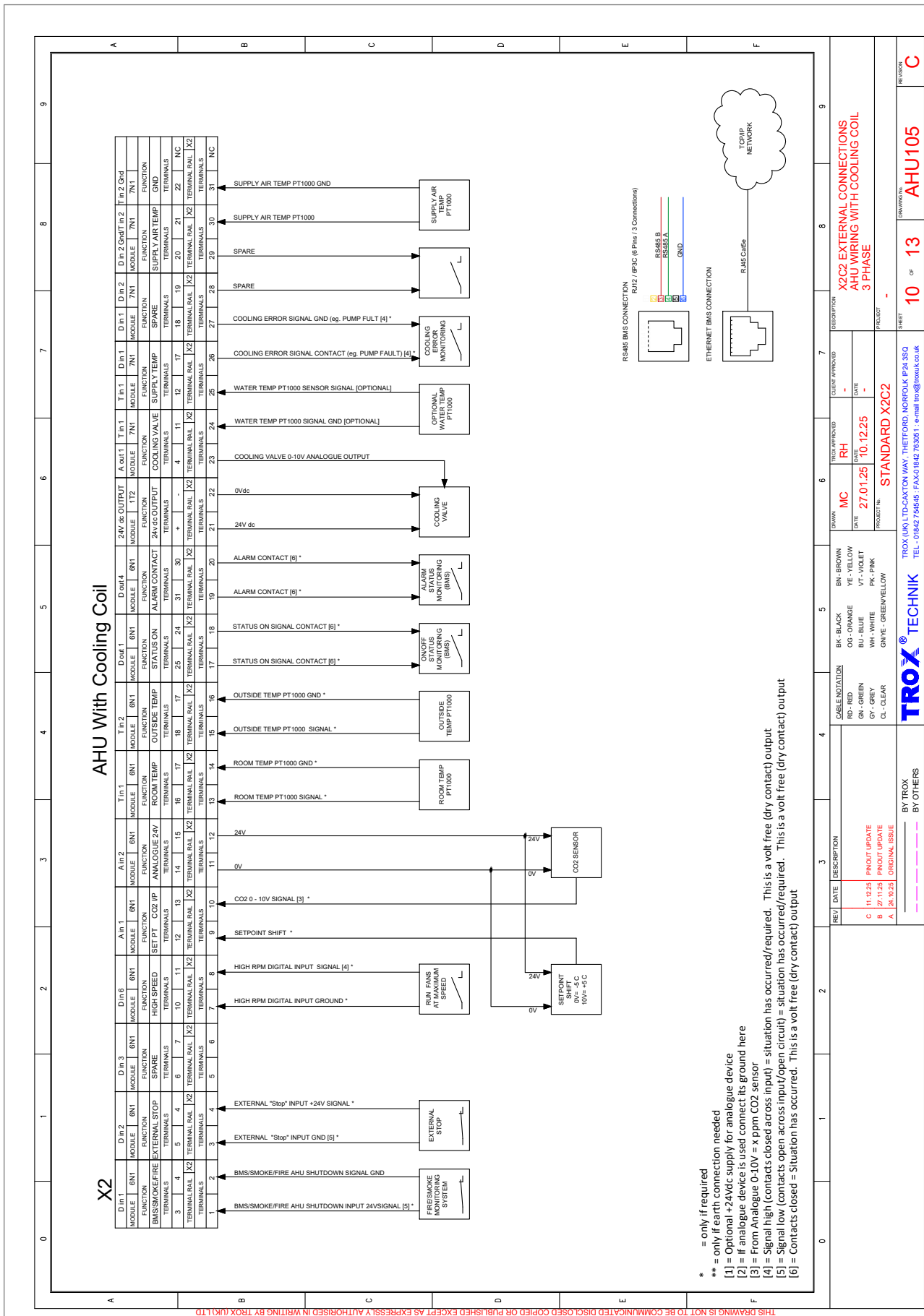
  

BY TROX	BY OTHERS
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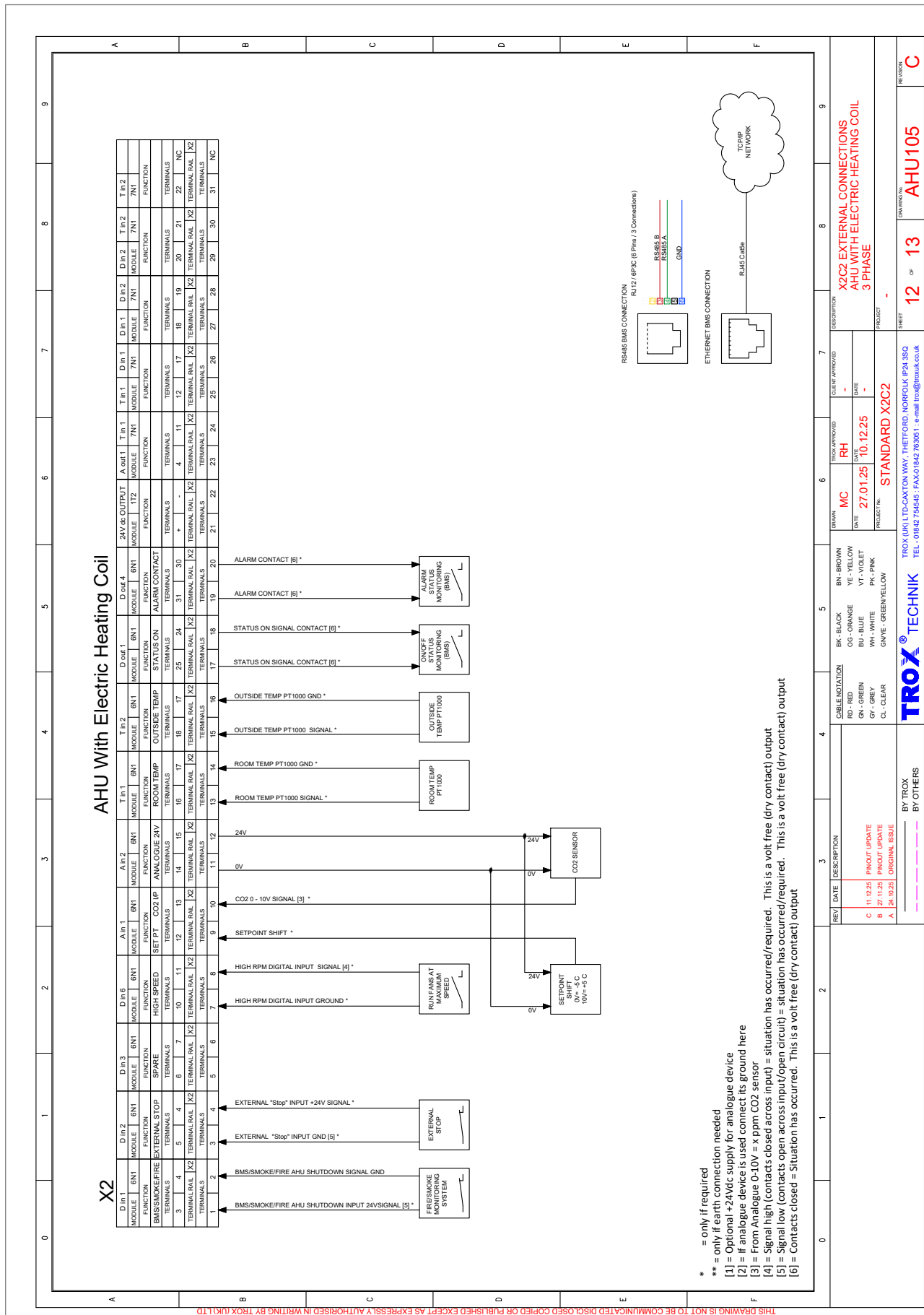
  

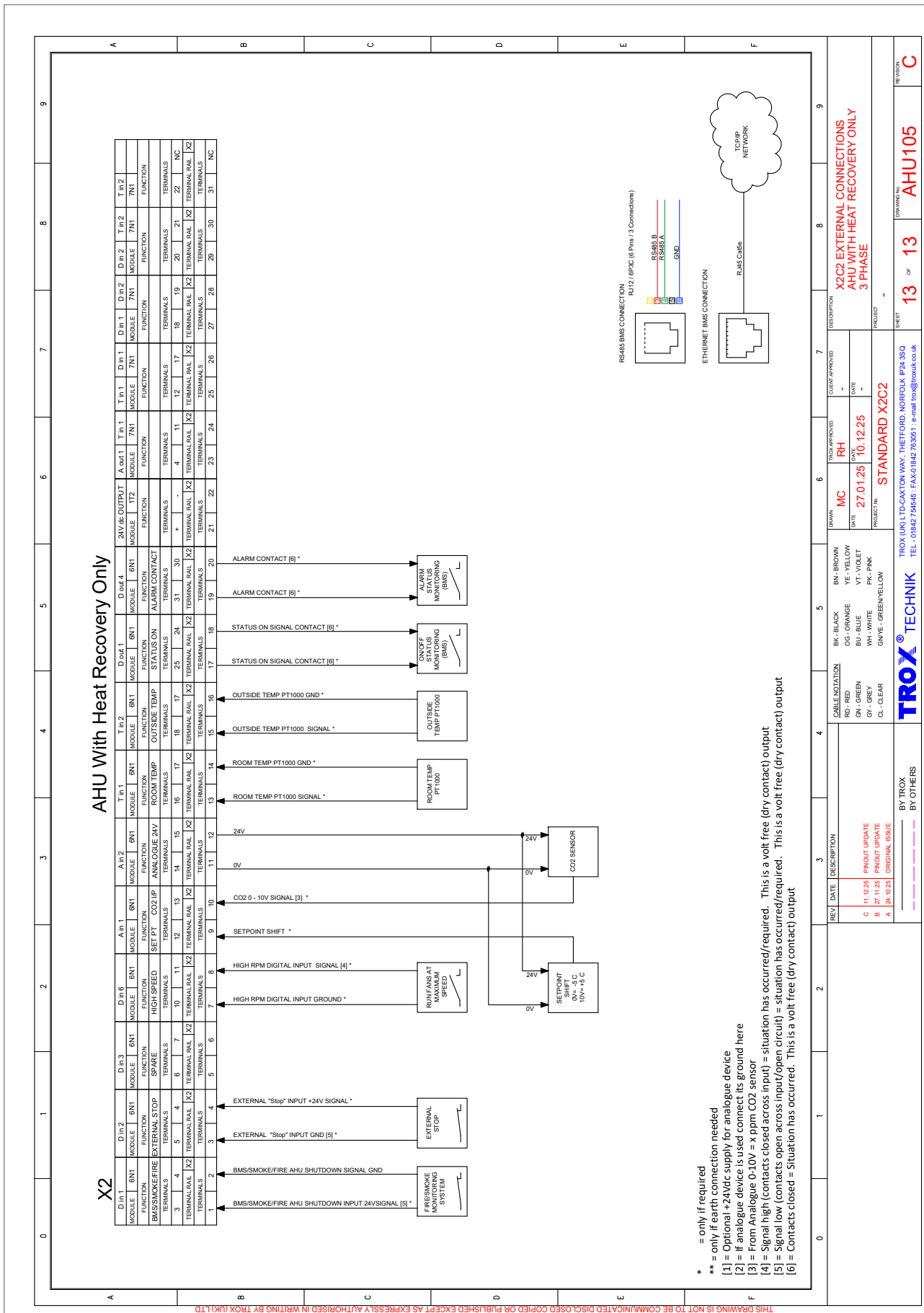
TROX (UK) LTD - GAXTON WAY, THEFTORD, NORFOLK IP24 3SQ TEL - 01842 795455 : FAX 01842 793051 : e-mail trox@troxuk.co.uk	8	of	13	AHU105	C
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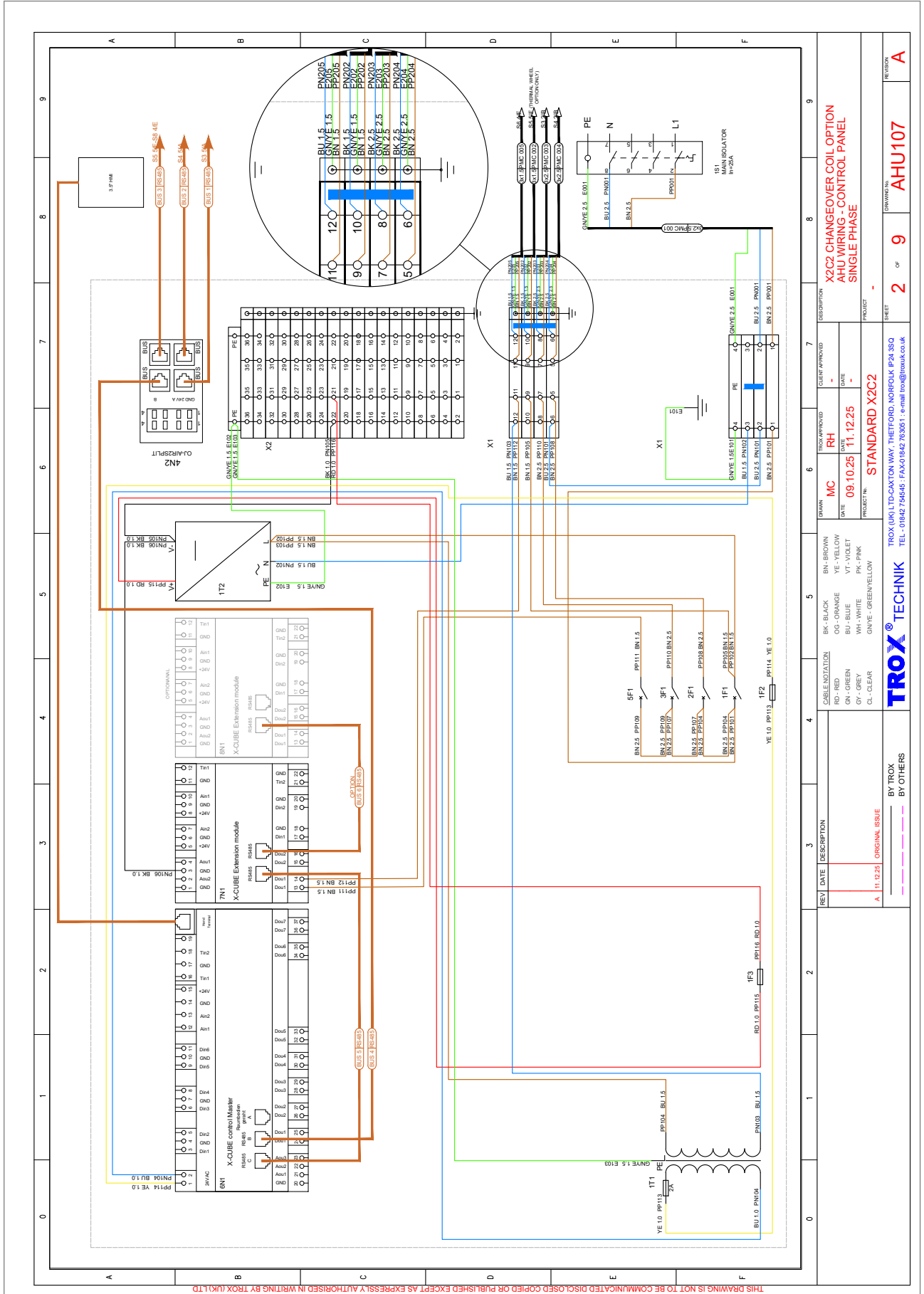




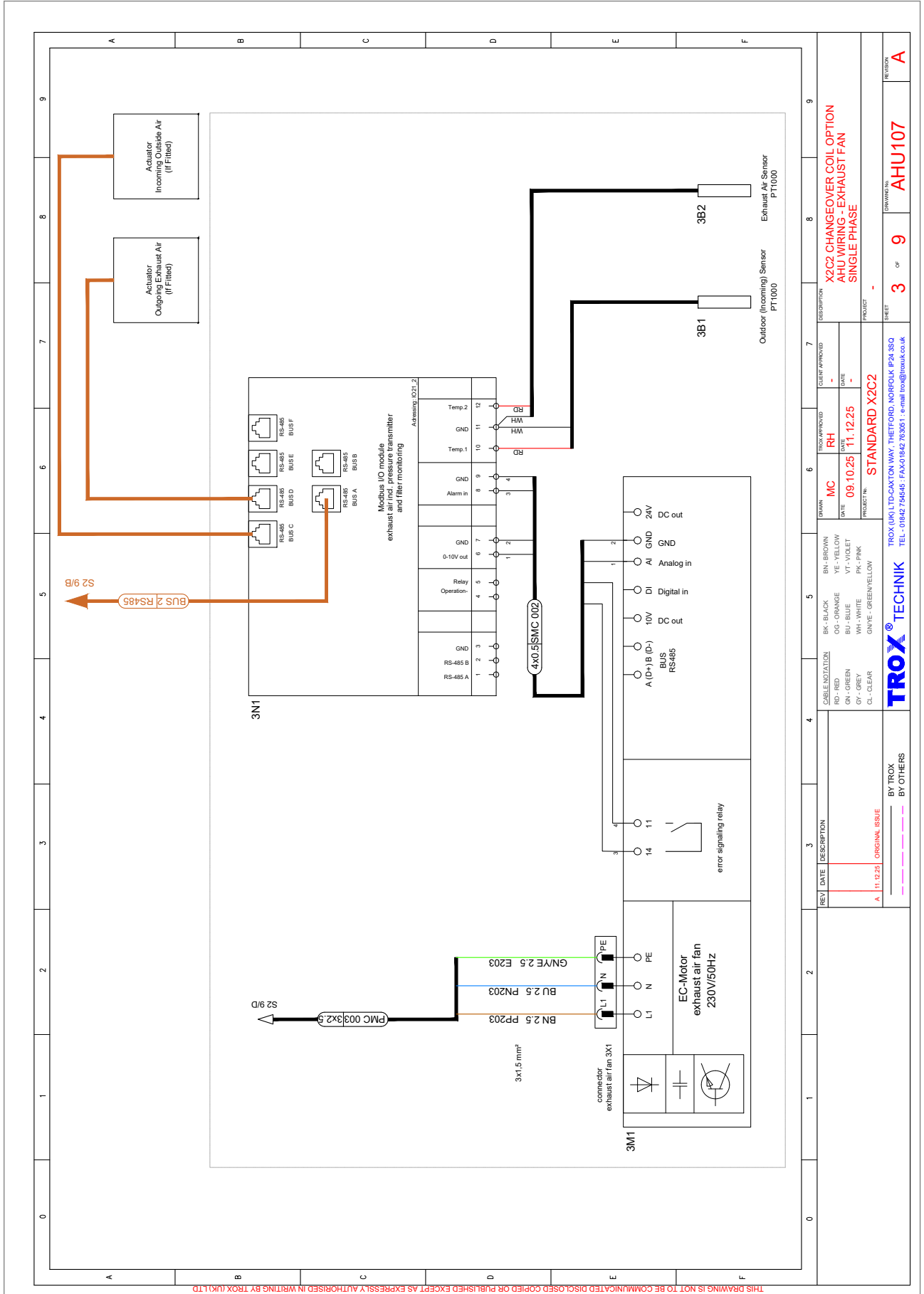
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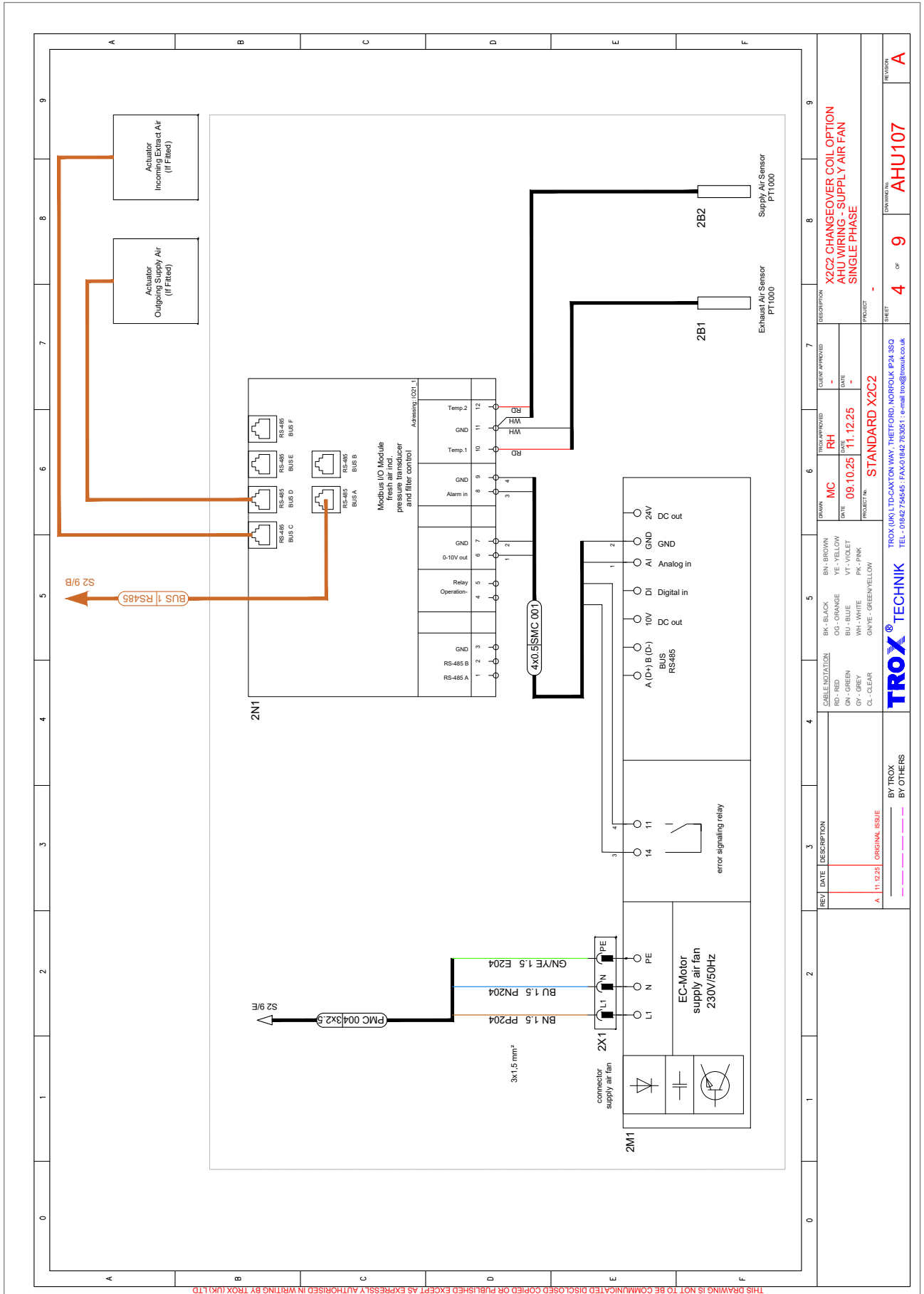
\*\* = only if required  
 \*\*\* = only if earth connection needed  
 [1] = Optional +24Vdc supply for analogue device  
 [2] = If analogue device is used connect its ground here  
 [3] = From Analogue 0-10V = x ppm CO<sub>2</sub> sensor  
 [4] = Signal high (contacts closed across input) = situation has occurred/required. This is a volt free (dry contact) output  
 [5] = Signal low (contacts open across input/open circuit) = situation has occurred/required. This is a volt free (dry contact) output  
 [6] = Contacts closed = Situation has occurred. This is a volt free (dry contact) output



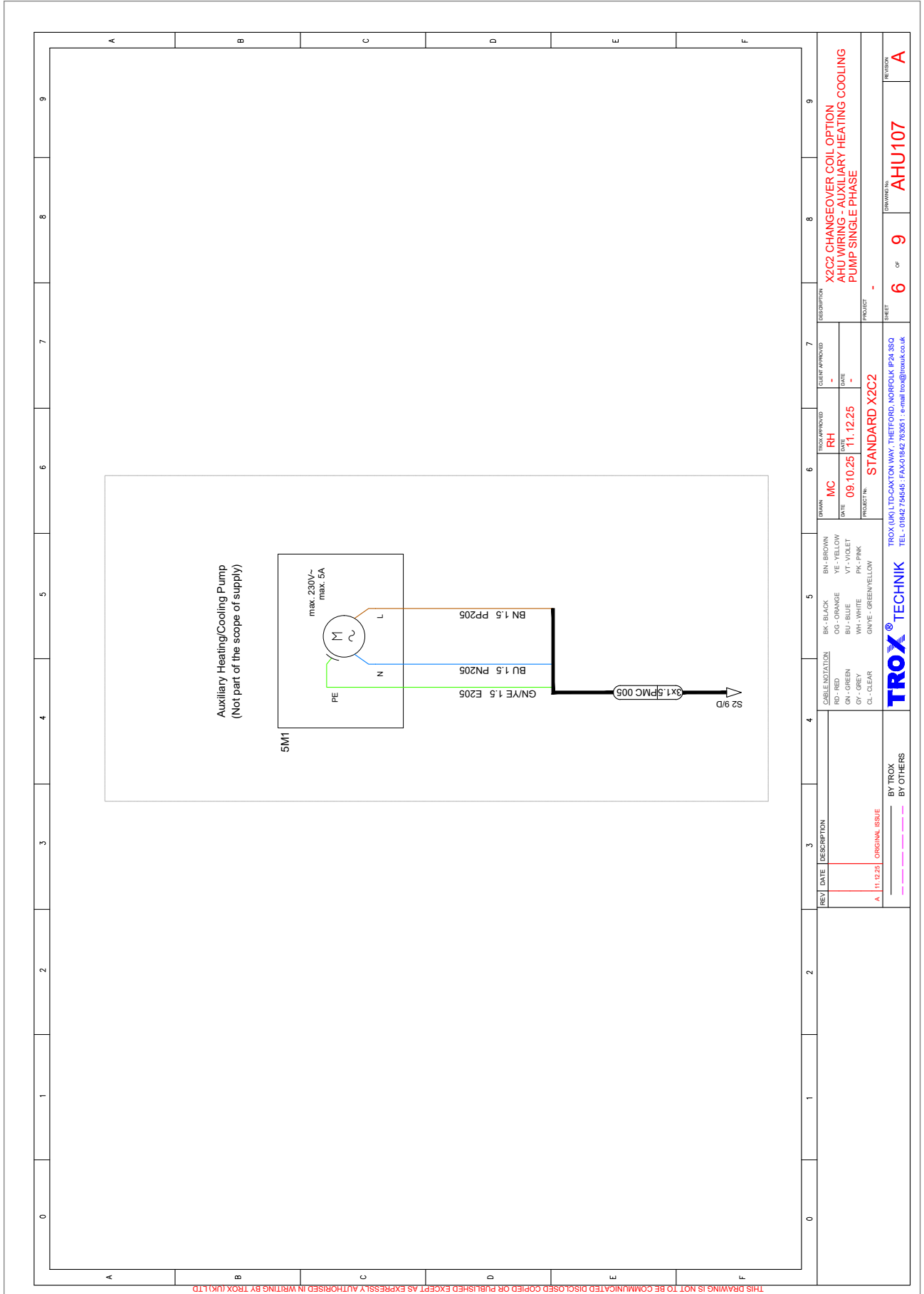


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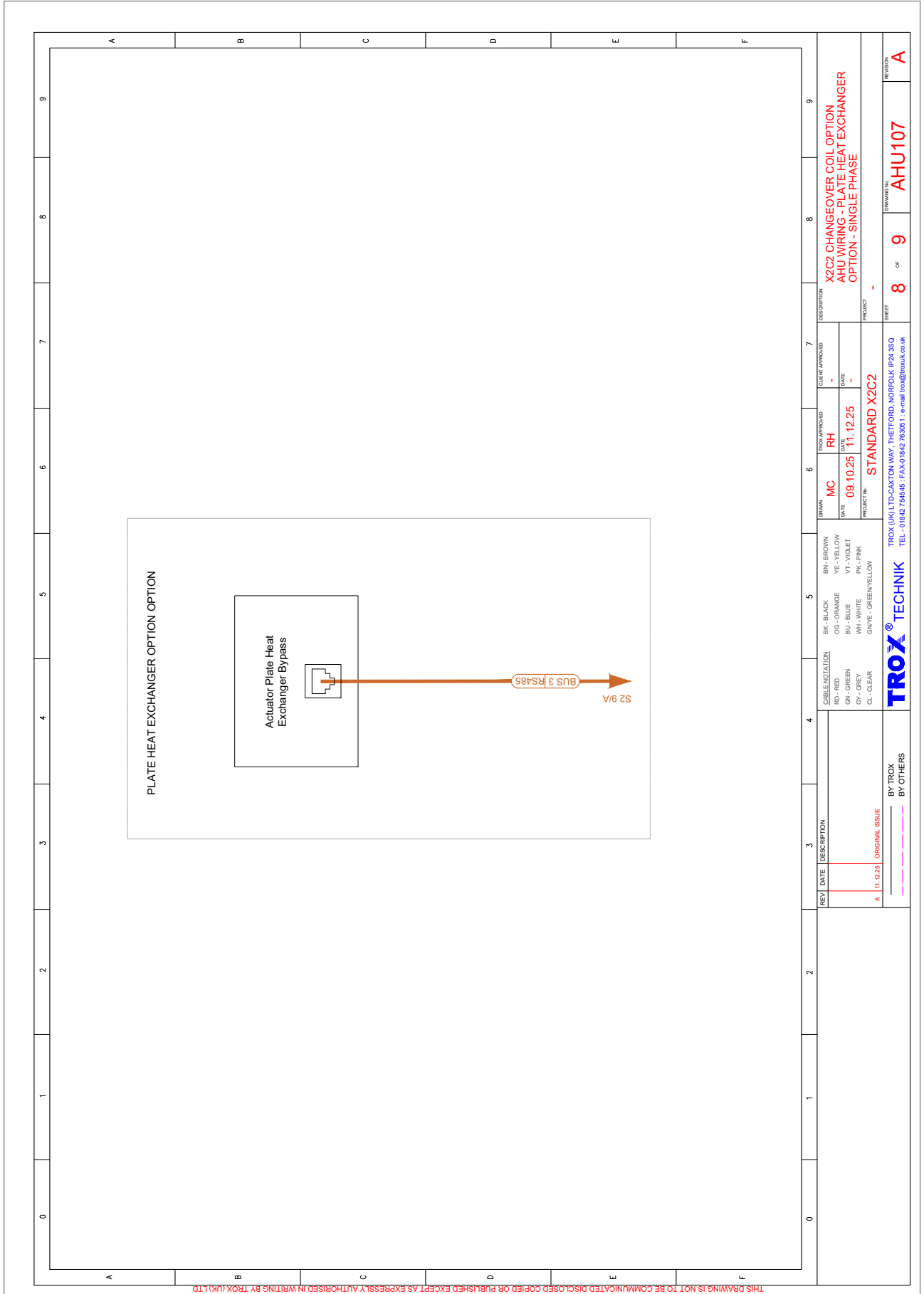




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A	11.12.21	ORIGINAL ISSUE	BK - BLACK RD - RED GN - GREEN GR - GREY CL - CLEAR	MC DATE: 09.10.25 BY: RH	DATE: 11.12.25 BY:	X2C2 CHANGEOVER COIL OPTION AHU WIRING AUXILIARY HEATING COOLING PUMP-SINGLE PHASE	
			BK - BROWN OG - ORANGE BU - BLUE WH - WHITE GNVE - GREEN/YELLOW	PROJECT NO: STANDARD X2C2		PROJECT	
BY TROX BY OTHERS			<b>TROX</b> TECHNİK TROX (UK) LTD-GAYTON WAY, THEFTORD, NORFOLK IP24 3SQ TEL - 01842 756545 FAX 01842 763051 e-mail trox@troxuk.co.uk		SHEET 6 OF 9 DRAWING NO. AHU107	REVISION	A





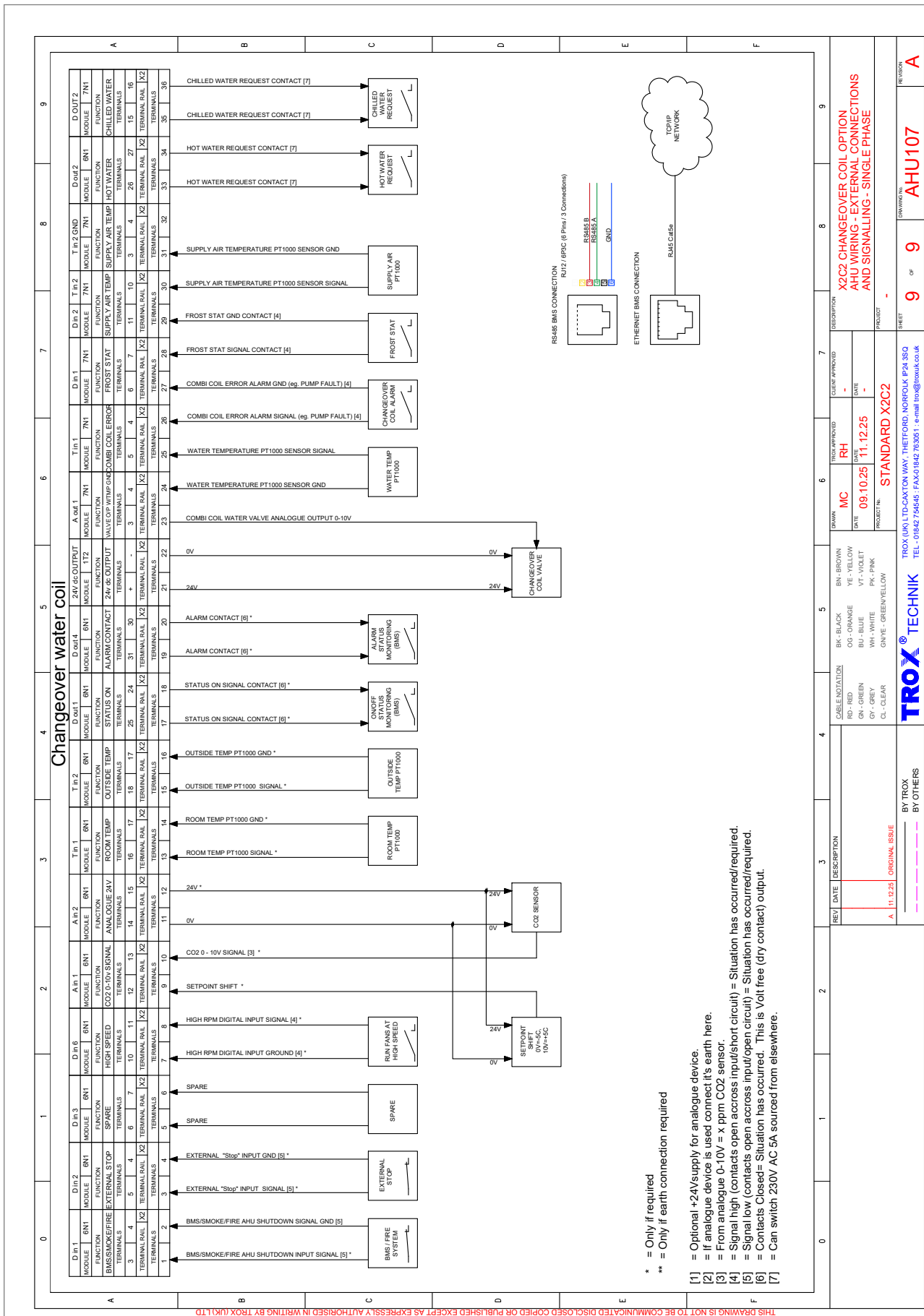
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				DATE: 09.10.25	DATE: 11.12.25		
				PROJECT NO: STANDARD X2C2			

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BY OTHERS					

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REV	DATE	DESCRIPTION
MC	09.10.25	MC
RH	11.12.25	RH

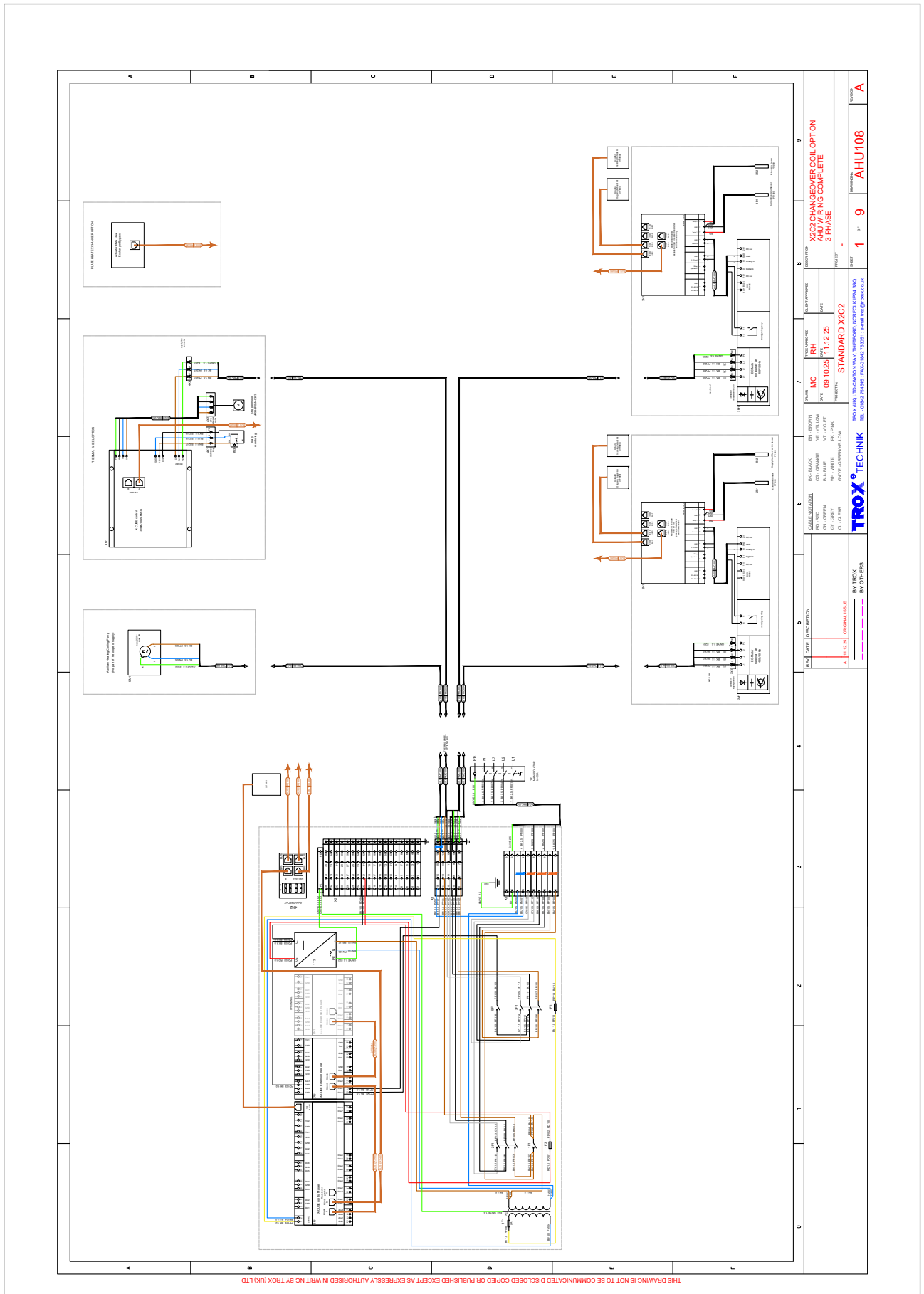
**DESCRIPTION:** X2C2 CHANGEOVER COIL OPTION  
**PROJECT:** AHU WIRING - EXTERNAL CONNECTIONS AND SIGNALLING - SINGLE PHASE  
**PROJECT NO.:** STANDARD X2C2  
**DATE:** 09.10.25  
**DATE:** 11.12.25  
**DATE:** 11.12.25

**BY TROX**  
**BY OTHERS**

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 TEL - 01842 756545 - FAX 01842 763051 - e-mail trox@troxuk.co.uk

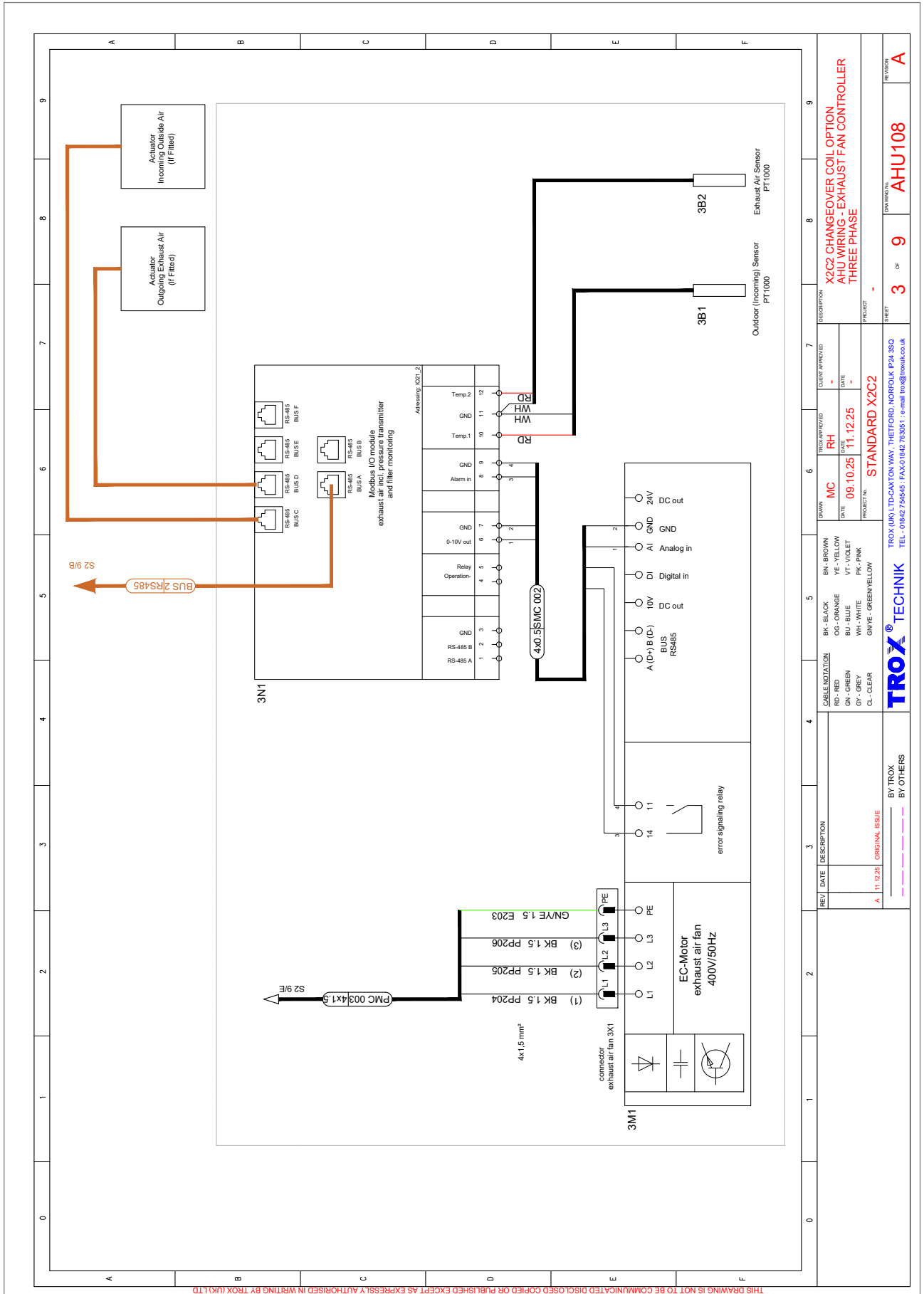
**9** of **9**  
**AHU107**

4 Cooling coil/heating coil wiring Changeover 400 V



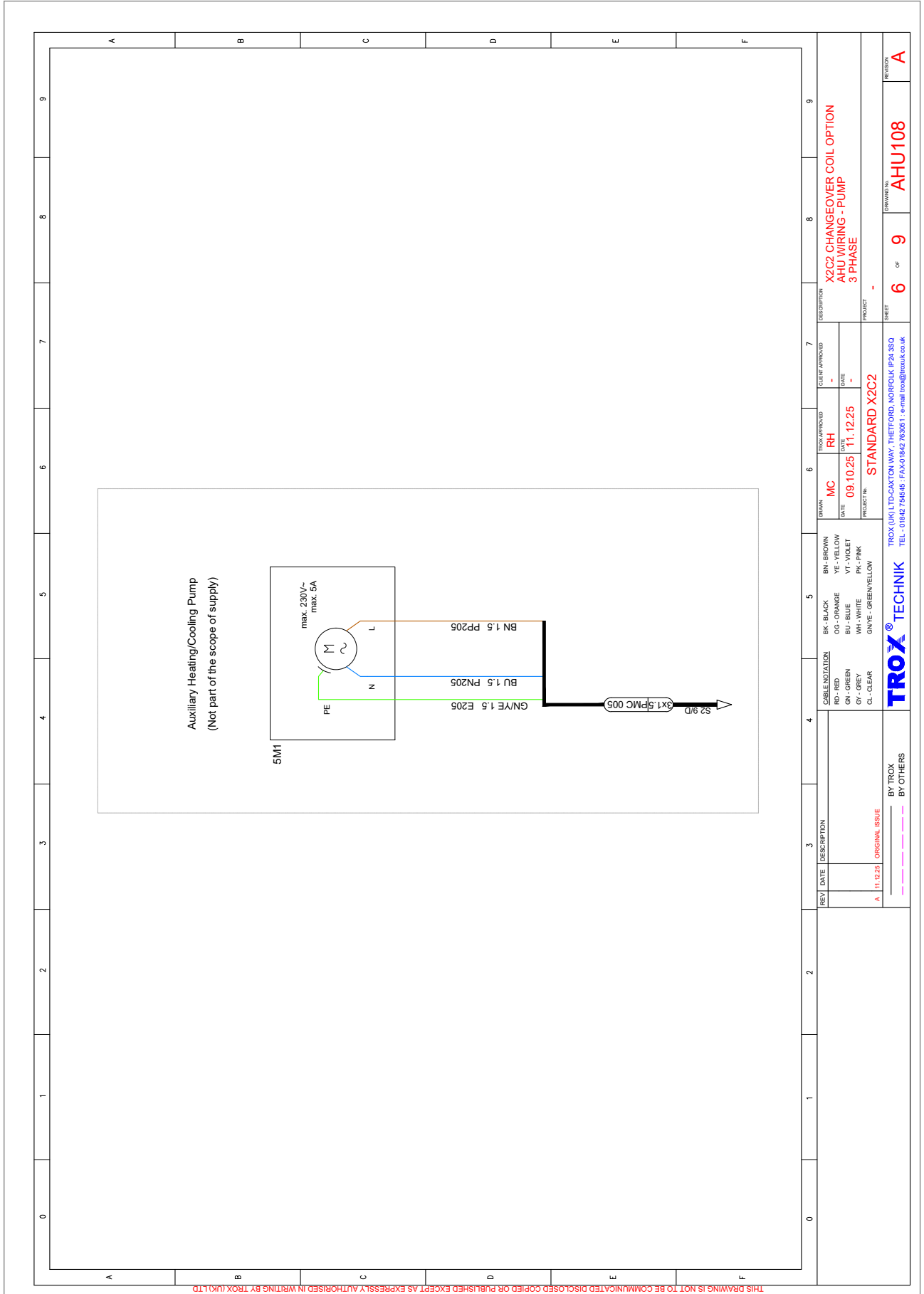
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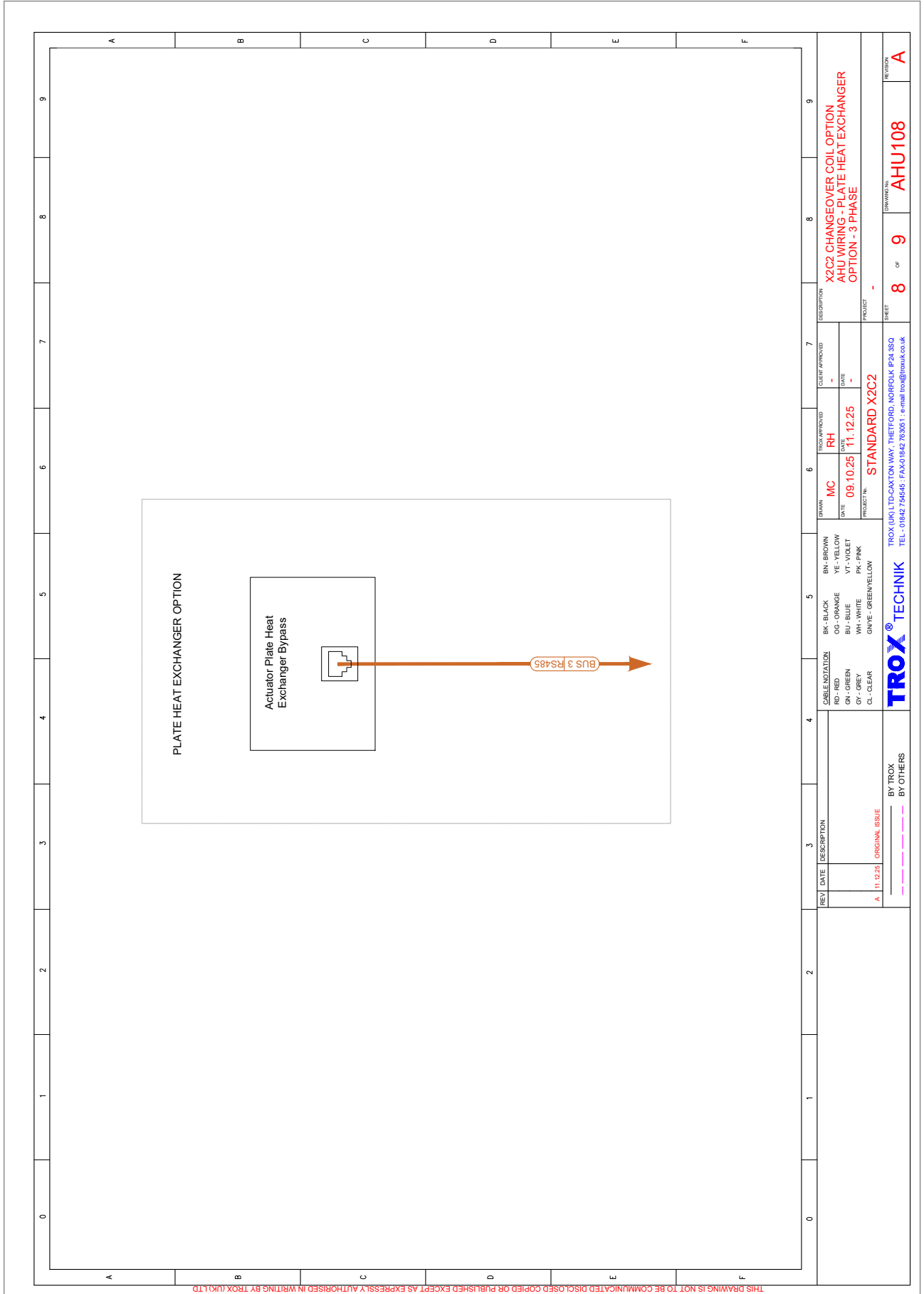










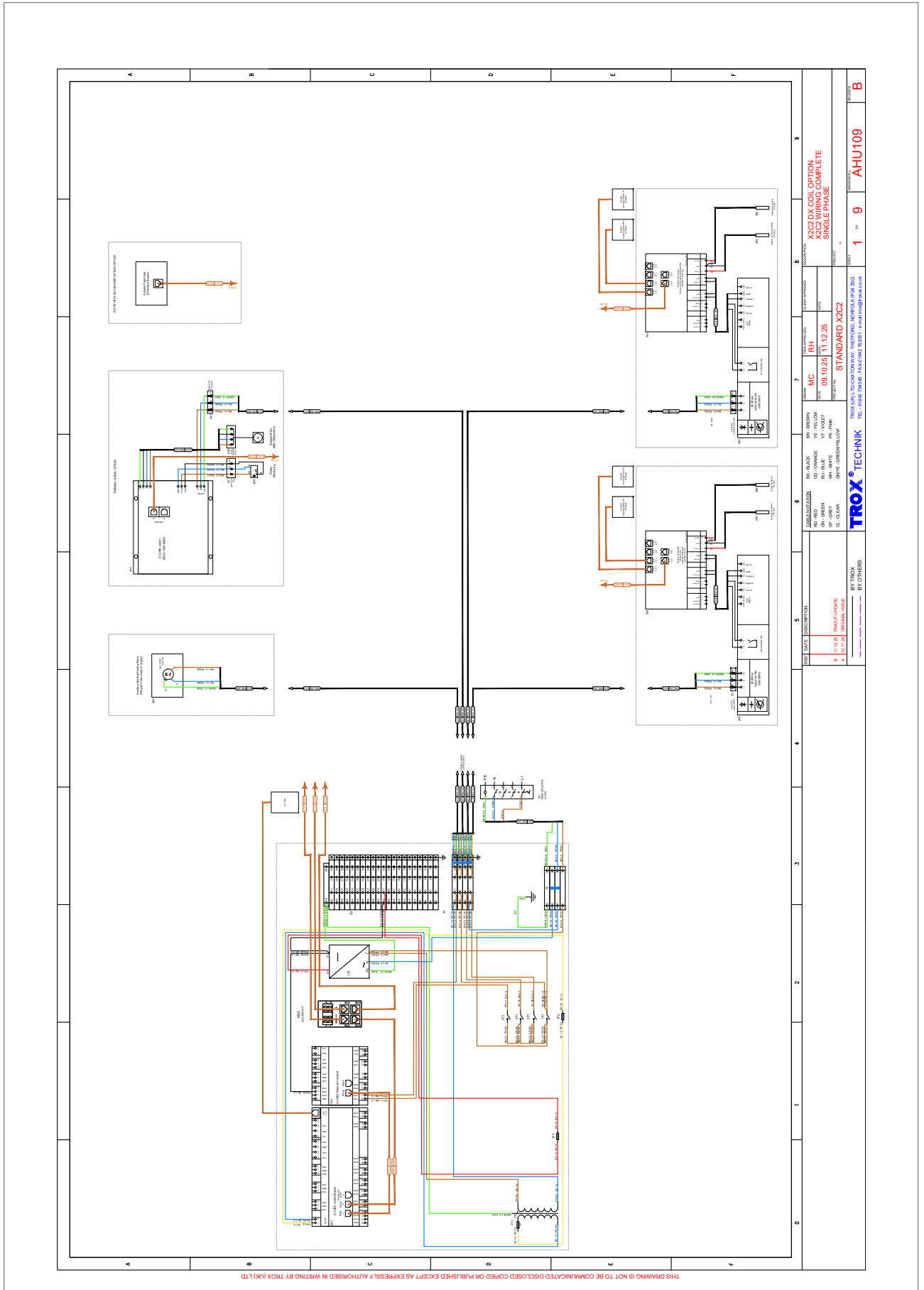


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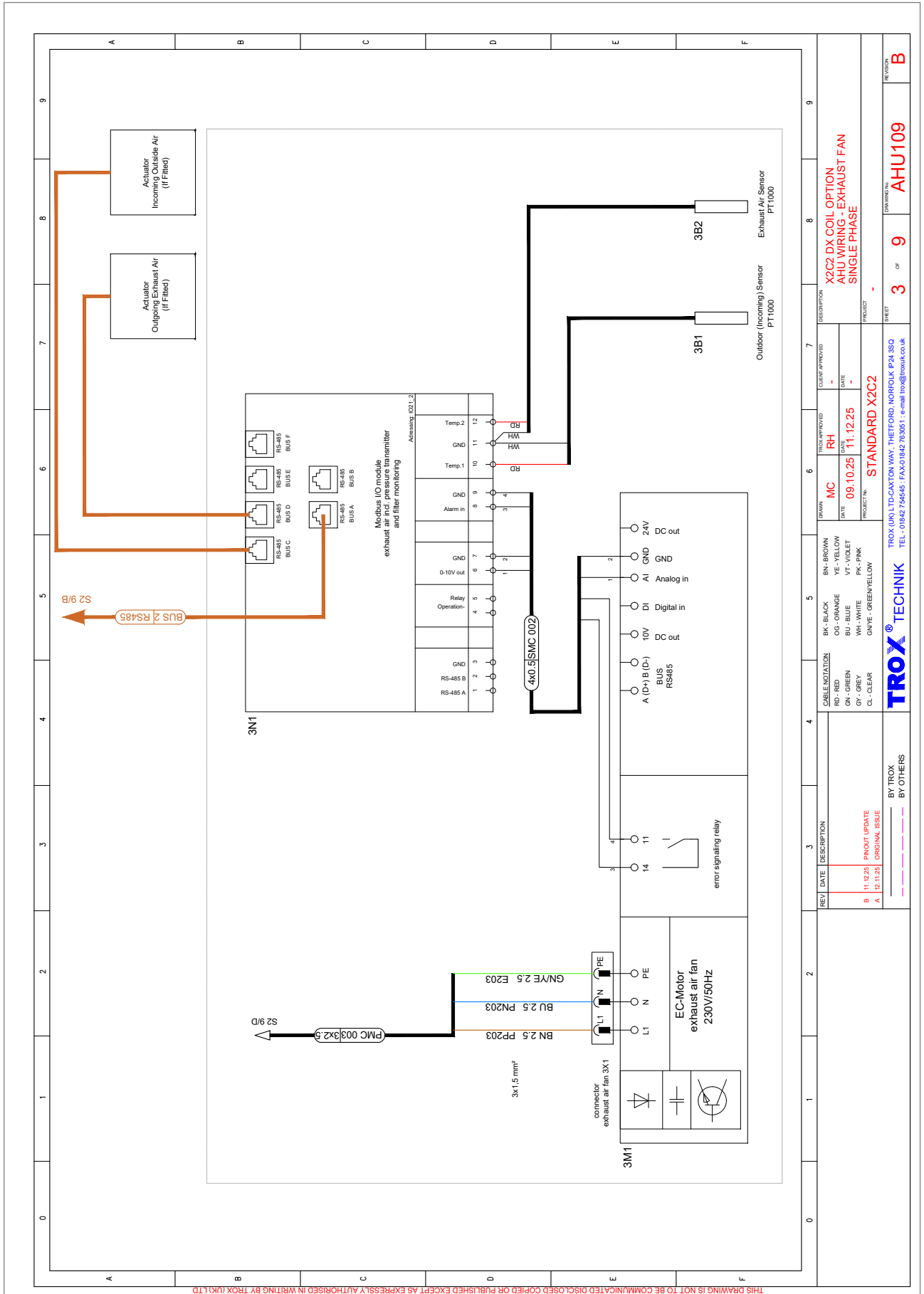
REV	DATE	DESCRIPTION	BY TROX	BY OTHERS
A	11.12.21	ORIGINAL ISSUE	---	---
CABLE INDICATION BK - BLACK RD - RED GN - GREEN GR - GREY CL - CLEAR BN - BROWN YE - YELLOW OG - ORANGE BU - BLUE WH - WHITE GNVE - GREEN/YELLOW VT - VIOLET PK - PINK				
DRAWN MC DATE 09.10.25		CHECKED RH DATE 11.12.25		PROJECT NO. STANDARD X2C2
DESCRIPTION X2C2 CHANGEOVER COIL OPTION AHU WIRING - PLATE HEAT EXCHANGER OPTION - 3 PHASE			SHEET 8 OF 9	DRAWING NO. AHU108
TROX TECHNIK TROX (UK) LTD-CAXTON WAY, THEETFORD, NORFOLK IP24 3SQ TEL - 01842 756545 ; FAX 01842 763051 ; e-mail trox@troxuk.co.uk				



5 Wiring direct evaporator (DX) Changeover 230 V





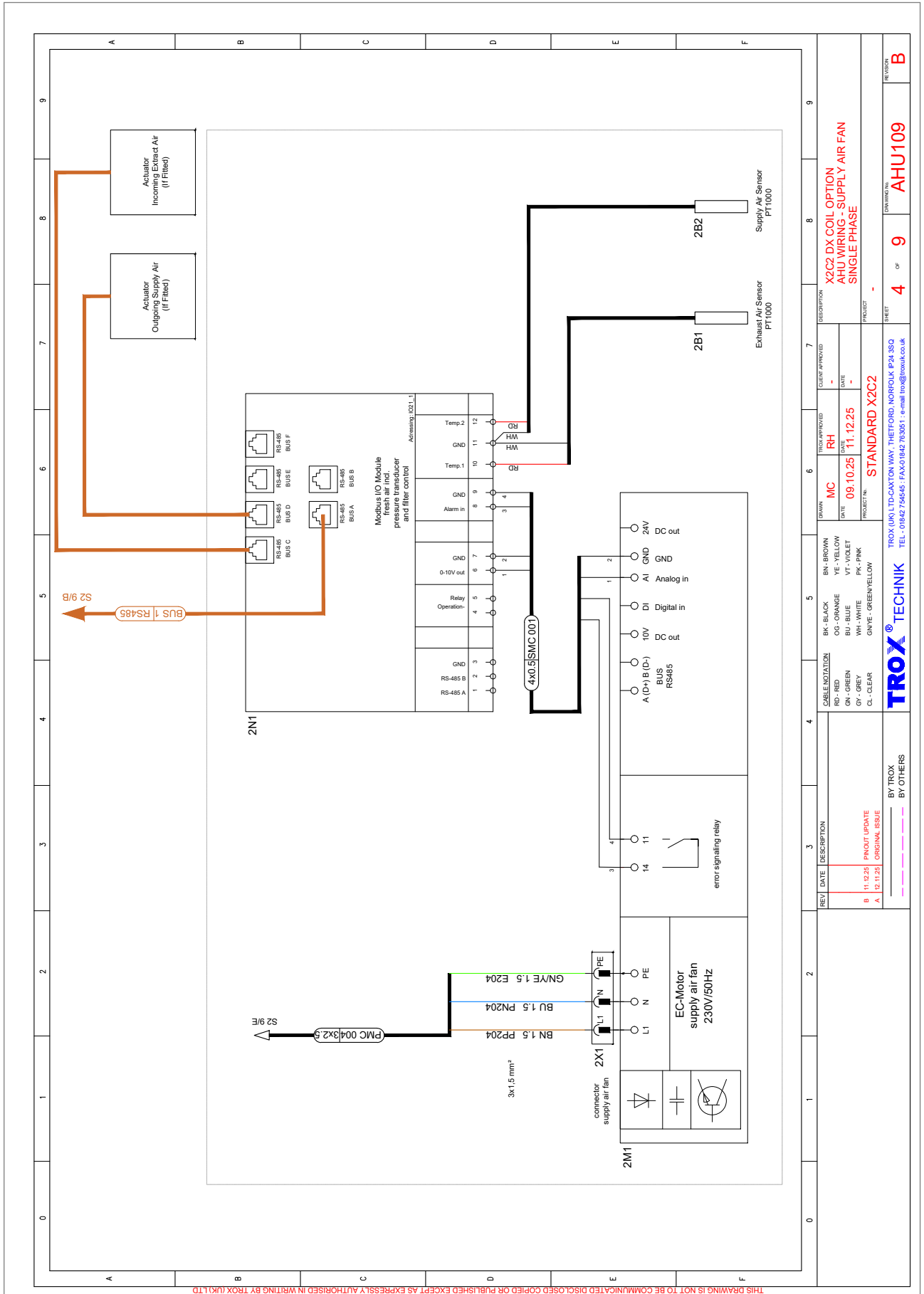


REV	DATE	DESCRIPTION	BY TROX	BY OTHERS
A	12.12.20	ORIGINAL ISSUE		
B	11.12.20	FINOUT UPDATE		

DESIGN	MC	DESIGNED BY	RH
DATE	09.10.25	DATE	11.12.25
PROJECT NO.	STANDARD X2C2	PROJECT	

DESCRIPTION	X2C2 DX COIL OPTION AHU WIRING EXHAUST FAN SINGLE PHASE
DRWET	3 of 9
FORMWORK NO.	AHU109
REVISION	B

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REV	DATE	DESCRIPTION	DESIGNED	APPROVED	CHECKED	DATE	DESCRIPTION
A	12.12.25	ORIGINAL ISSUE					
B	11.12.25	FINOUT UPDATE					

DRAMA	MC	THROW APPROVED	RH	DATE	11.12.25	DESCRIPTION	X2C2 DX COIL OPTION AHU WIRING SUPPLY AIR FAN SINGLE PHASE
DATE	09.10.25	DATE					
PROJECT NO.	STANDARD X2C2	PROJECT					

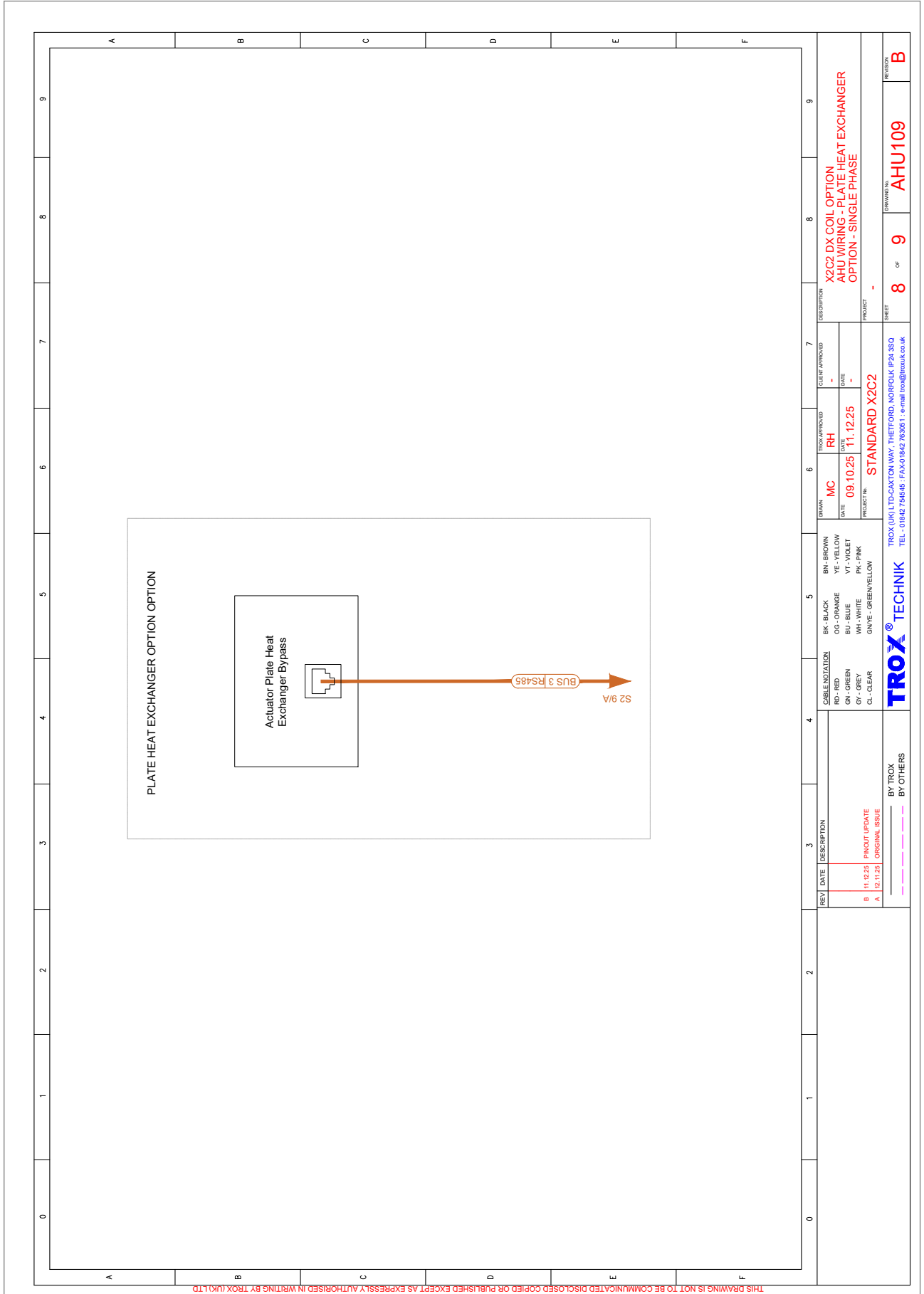
  

BY TROX	BY OTHERS	DATE	4	OF	9	REVISION	B
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REV	DATE	DESCRIPTION	BY TROX	BY OTHERS
B	11.12.25	FINOUT UPDATE		
A	12.11.25	ORIGINAL ISSUE		

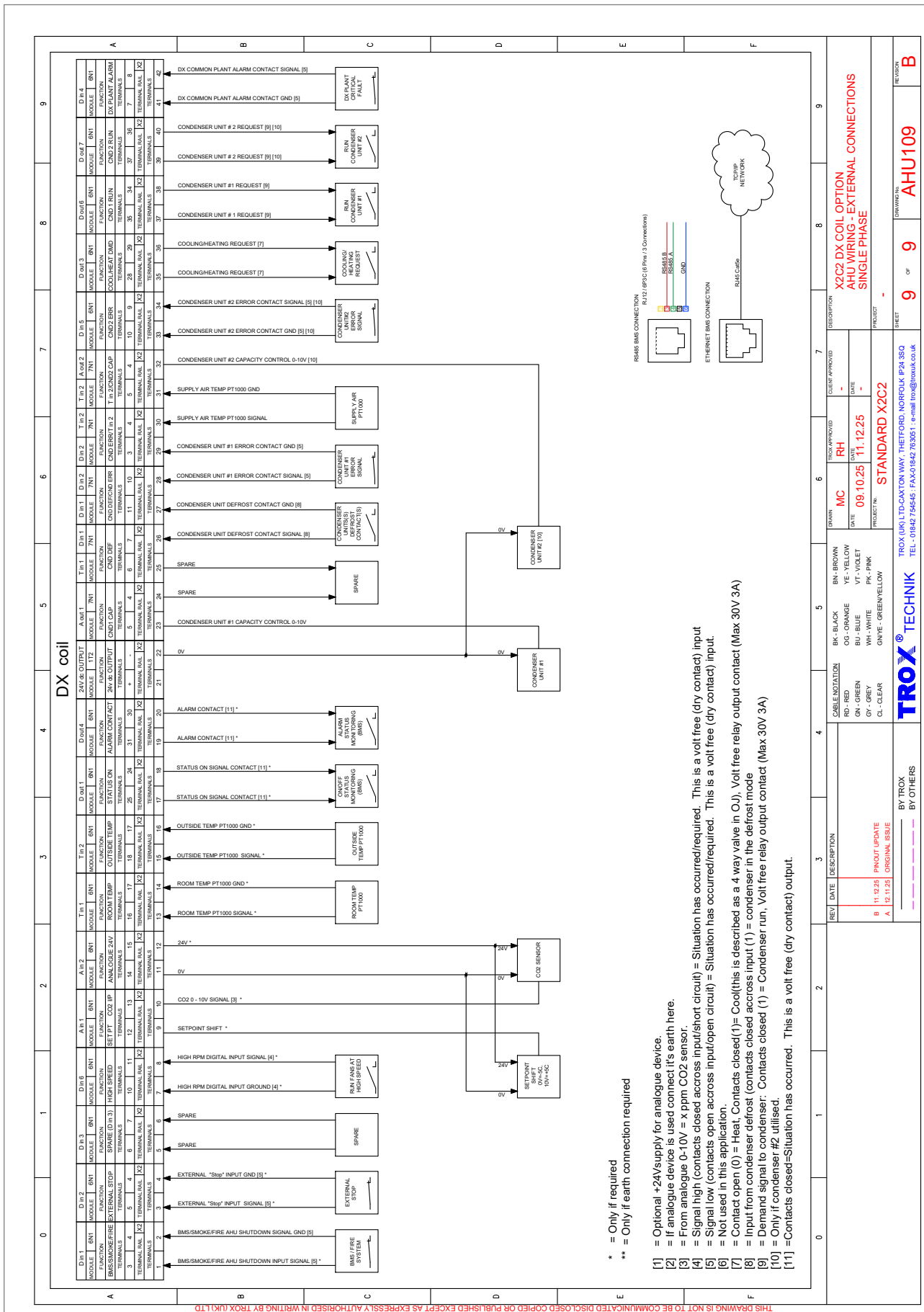
  

DATE	09.10.25	DATE	11.12.25
BY	MC	BY	RH
PROJECT NO.	STANDARD X2C2	PROJECT	

DESCRIPTION	X2C2 DX COIL OPTION AHU WIRING - PLATE HEAT EXCHANGER OPTION - SINGLE PHASE
SHEET	8 OF 9
REVISION	AHU109

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- \* = Only if required
- \*\* = Only if earth connection required
- [1] = Optional +24V supply for analogue device.
- [2] = If analogue device is used connect it's earth here.
- [3] = From analogue 0-10V = x ppm CO2 sensor.
- [4] = Signal high (contacts closed across input/short circuit) = Situation has occurred/required. This is a volt free (dry contact) input
- [5] = Signal low (contacts open across input/open circuit) = Situation has occurred/required. This is a volt free (dry contact) input.
- [6] = Not used in this application.
- [7] = Contact open (0) = Heat, Contacts closed(1) = Cool (this is described as a 4 way valve in O.U). Volt free relay output contact (Max 30V 3A)
- [8] = Input from condenser defrost (contacts closed across input (1) = condenser in the defrost mode
- [9] = Demand signal to condenser: Contacts closed (1) = Condenser run, Volt free relay output contact (Max 30V 3A)
- [10] = Only if condenser #2 utilised.
- [11] = Contacts closed=Situation has occurred. This is a volt free (dry contact) output.

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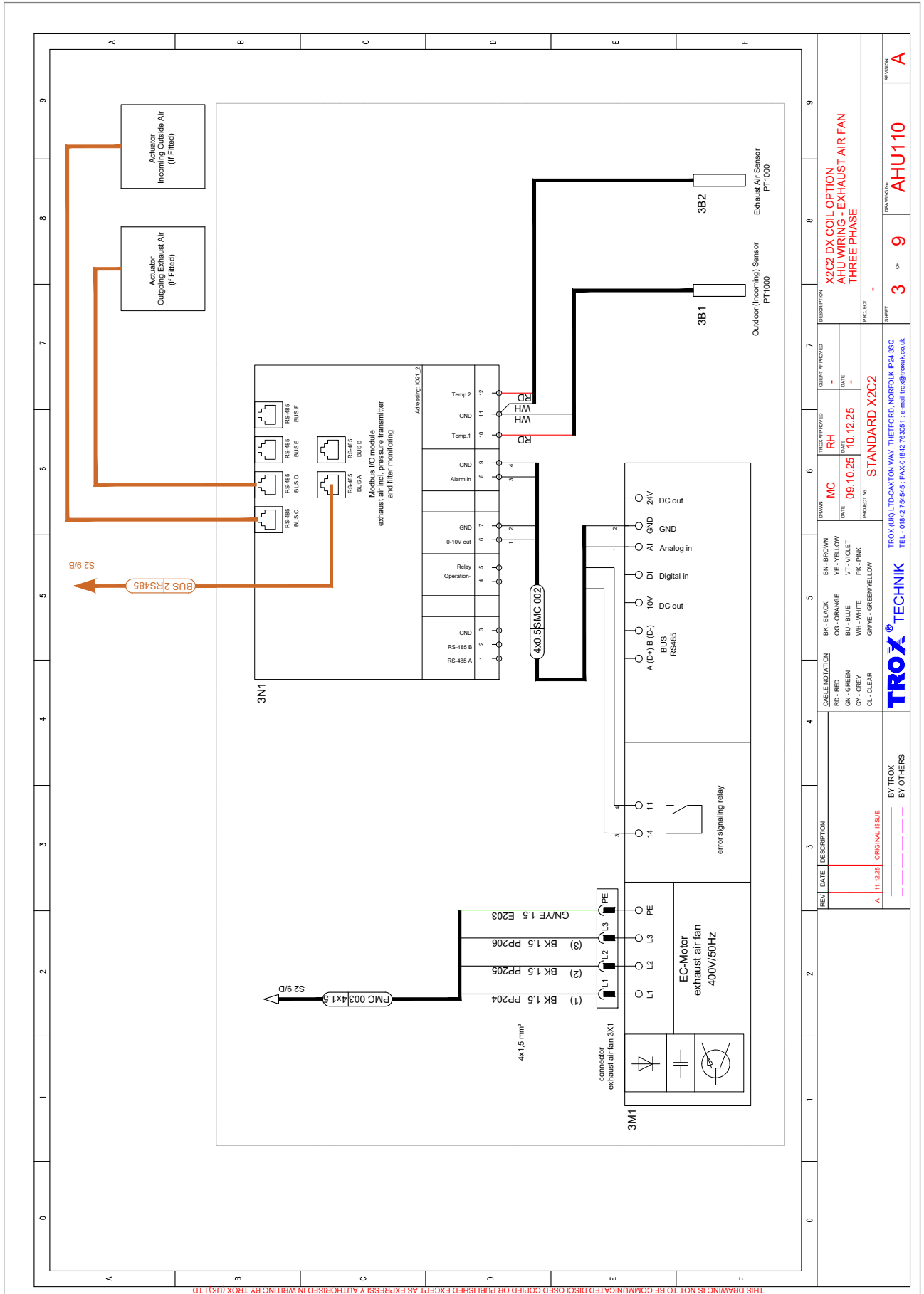
REV	DATE	DESCRIPTION	BY	CHKD	DATE	DESCRIPTION
A	12.12.20	ORIGINAL ISSUE	BY TROX			
B	11.12.25	PIVOT UPDATE	BY OTHERS			

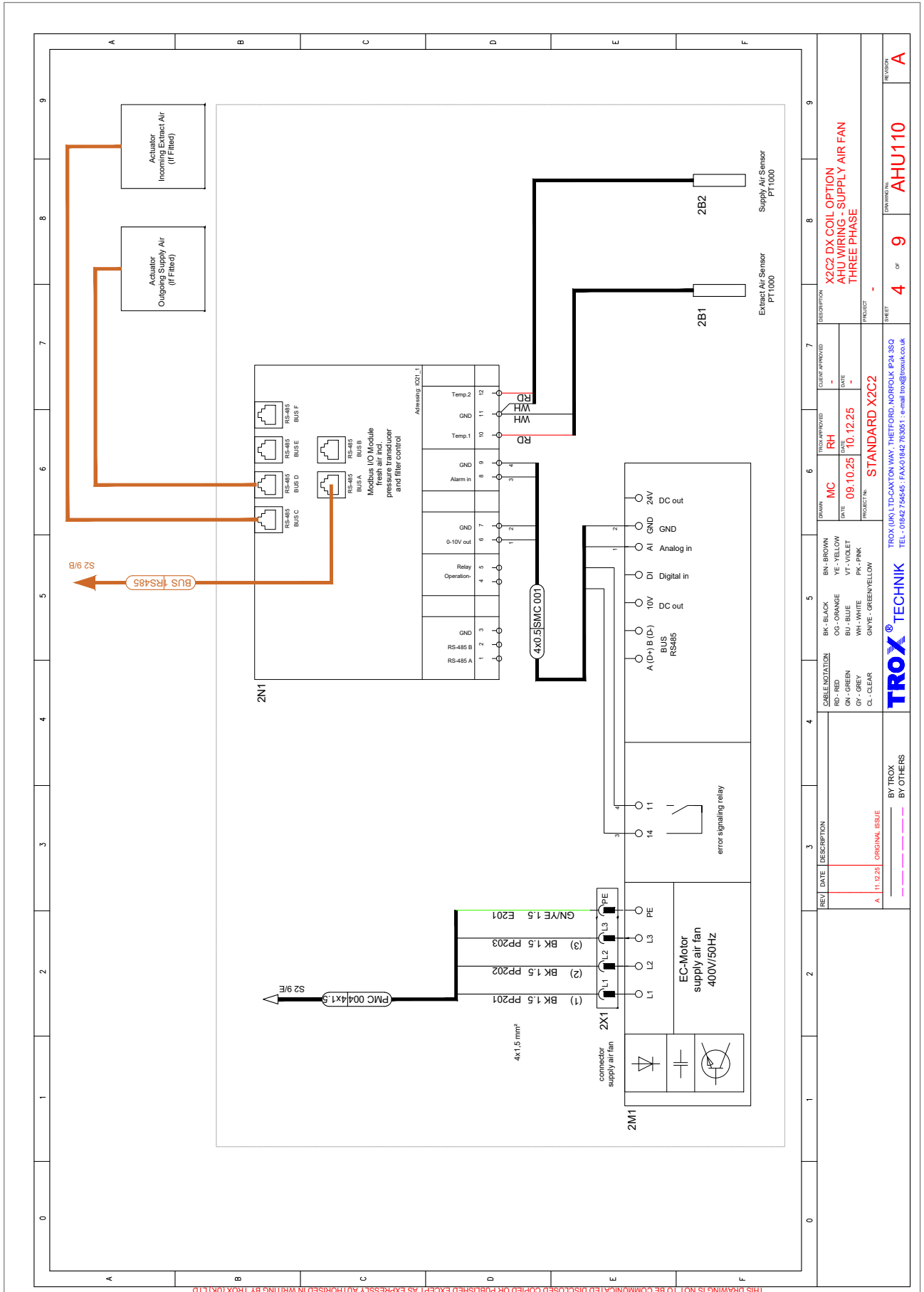
  

REVISION	9	OF	9	PROJECT NO.	STANDARD X2C2
DATE	09.10.25	DATE	11.12.25	CLIENT APPROVED	RH
DESCRIPTION	X2C2 DX COIL OPTION AHU WIRING EXTERNAL CONNECTIONS SINGLE PHASE				
PROJECT	-				
DESIGNER	TROX (UK) LTD-CANTON WAY, THEFTORD, NORFOLK IP24 3SQ				
TELEPHONE	TEL - 01842 754545 FAX-01842 753051 e-mail trox@trox.co.uk				
REVISION	AHU109				

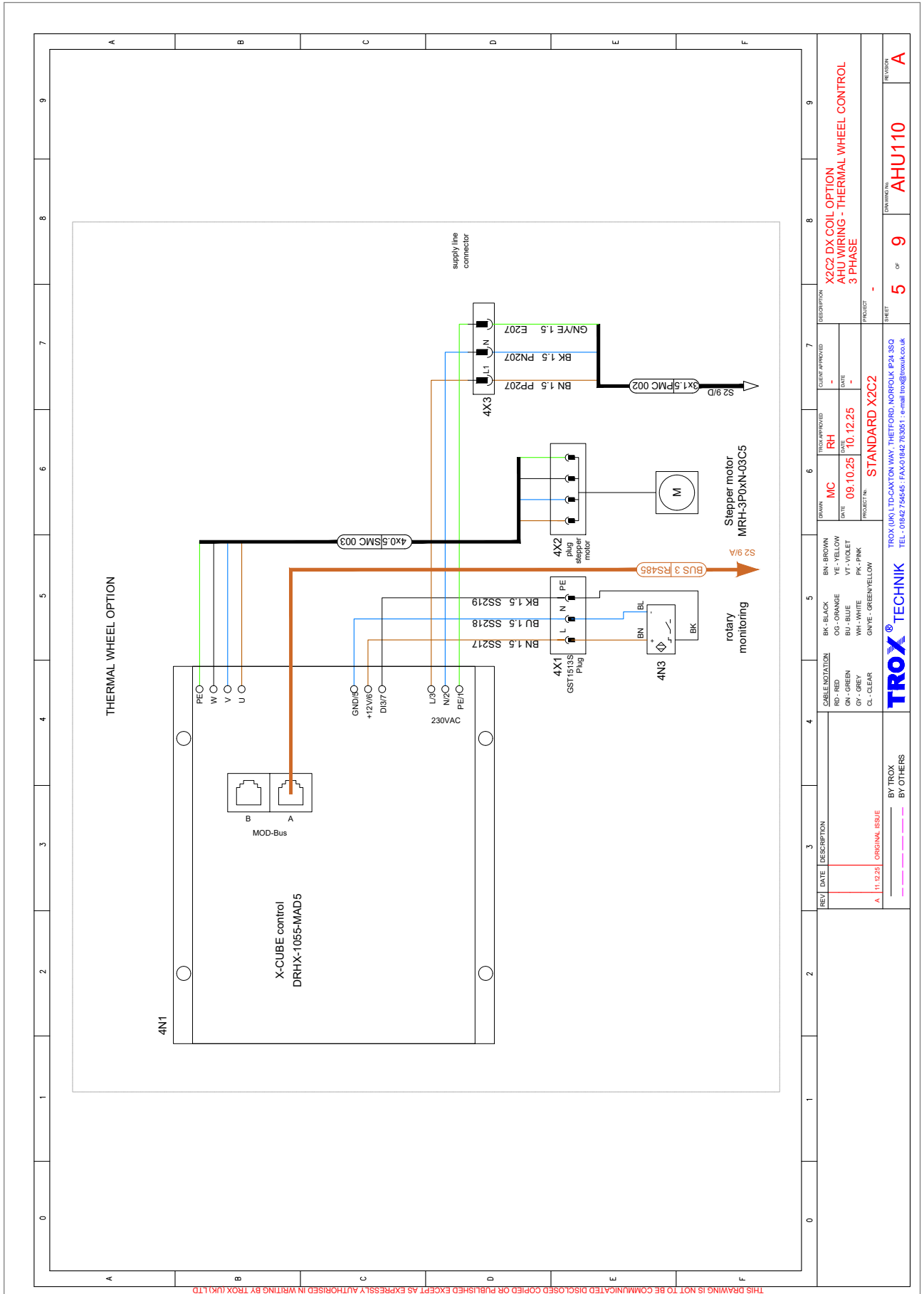


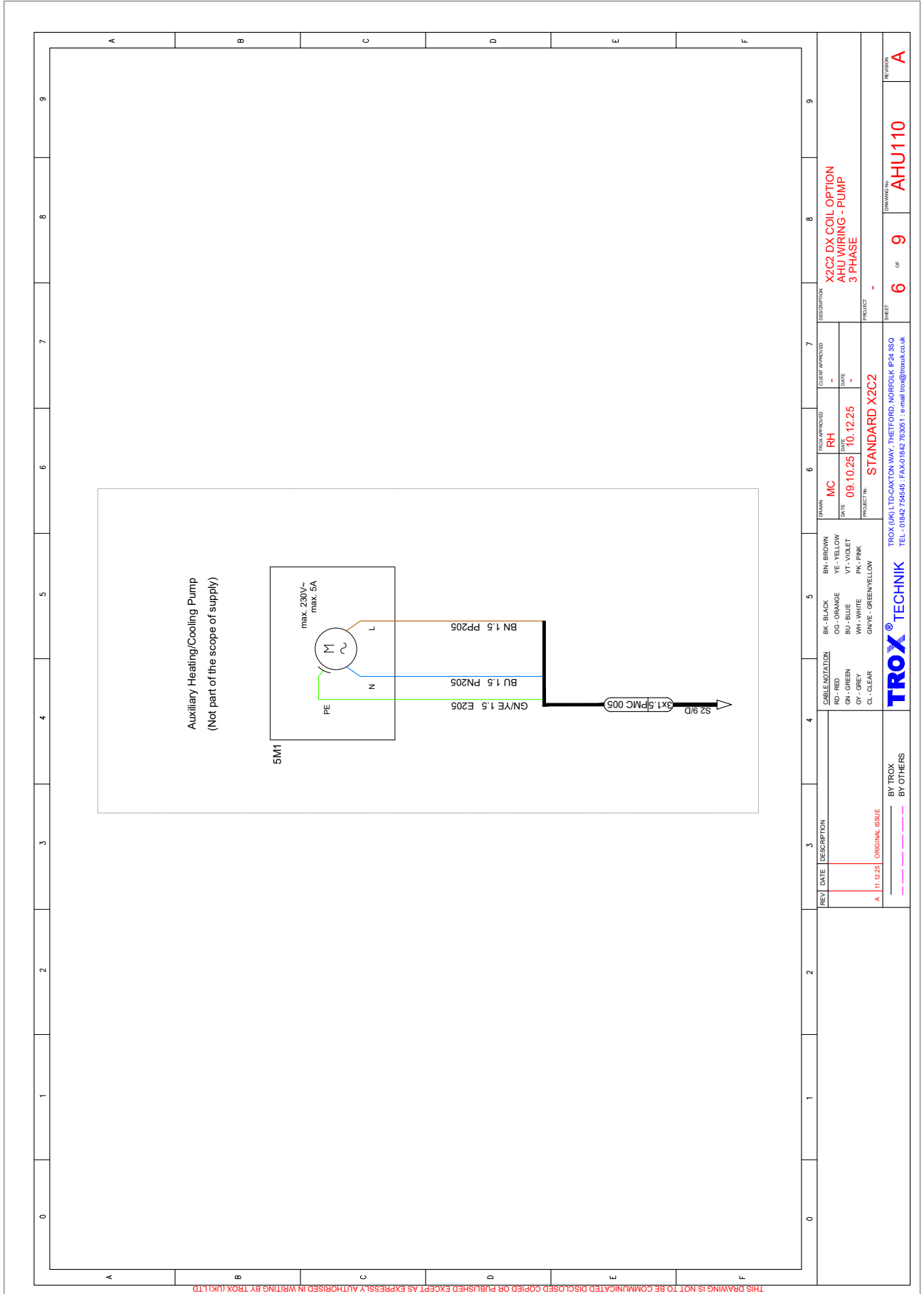




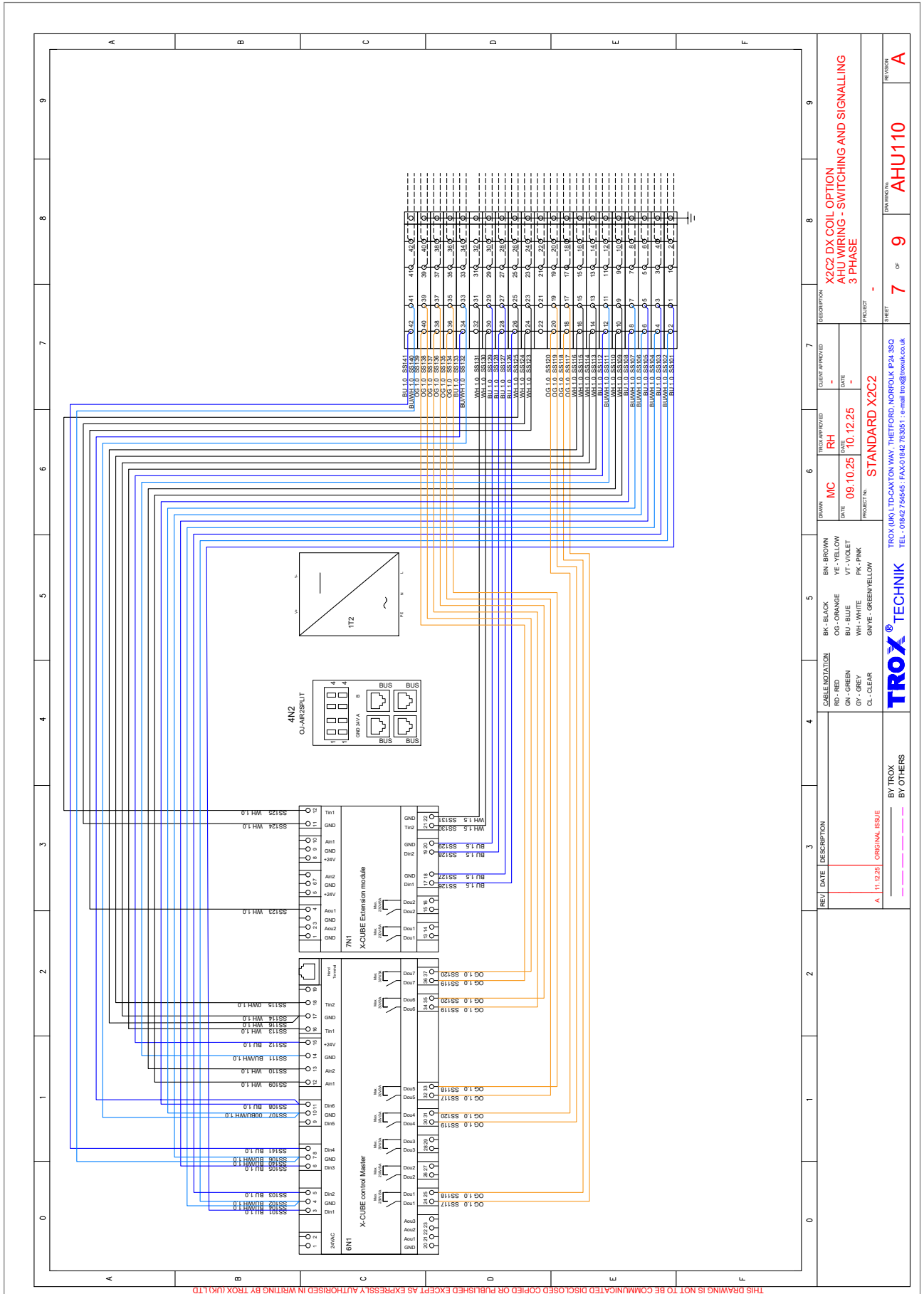


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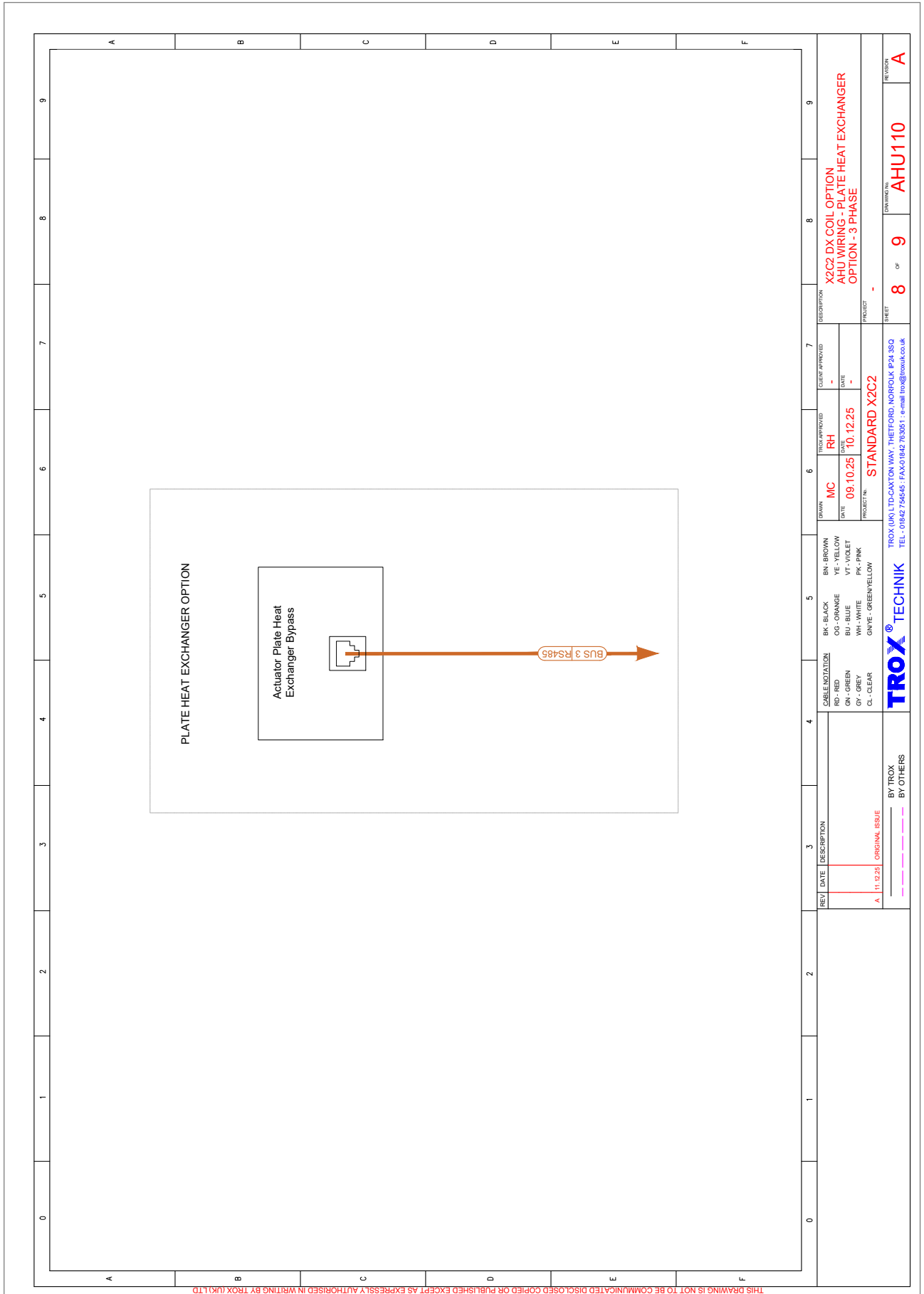




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