



Vendor  	<b>ABT 360 KT/Y PP PLANT Project</b>			Owner   سراج گستران رجمال SERAJ GOSTARAN REJAL (سهایی خاص)
	Wiring Diagram (including Terminal Diagram)			
	Vendor's Doc. No.: 2 3 2 4 9 - 0 5	Rev.: 00		
PPEC Doc. No.: L03-RE037-EL-DIG-001				

**PPEC REQ. NO. : L03-RE037-EL-DIG-001**

**ITEM NO. :**

**TOTAL PAGES : 54**

1) tag number shall be corrected in following format

PT-PK6801-XX (XX: serial number)

TT-PK6801-XX

By PPEC And Comments Must Be Considered By Vendor. Fabrication Can Proceed Accordingly. Revised Document To Be Issued Either For Review Or As Final Certified. However PPEC Will Check The Revised Document For Proper Incorporation Of Comments.

- **NOT RETURNED:** Document Was Received For Information And Not Returned To The Vendor.



Name :  
Signature:  
Date :

Req. No. :

Seq. No.:

PPEC review & comments does not absolve the vendor of the responsibility for the corrected design, manufacturing and operation of the equipment

00	16-04-2025	Issue for Engineering	R.T.	S.K.	J.J.	
REV.	DATE	Description	Prepared by	Checked by	Approved by	Authorized by

Vendor	ABT 360 KT/Y PP PLANT		Contractor (DEC)	Owner
	Wiring Diagram (including Terminal Diagram)			
	Vendor's Doc. No.: 2 3 2 4 9 - 0 5	Rev.: 00		
PPEC Doc. No.: L03-RE037-EL-DIG-001				
				

PAGE NO.		CHANGE INDEX DURING FORMAL ISSUE						REASON OF LATEST CHANGE
		FIRST ISSUE	SECOND ISSUE	THIRTH ISSUE	FOURTH ISSUE	FIFTH ISSUE	SIXTH ISSUE	
		REV.00	REV.01	REV.02	REV.03	REV.04	REV.05	
1		X						
2		X						
3		X						
4		X						
5		X						
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37		X						
38		X						
39		X						
54		X						



# Airpack B.V.

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Client : Seraj Gostaran Rejal

Equipment location : Iran, Onshore

Client reference : ABT 360 KT/Y PP PLANT Project

Client dwg. no. : L03-RE037-EL-DIG-001

Airpack reference : 23249-05 Wiring Diagram

Airpack dwg. no. : 23249-05

Generation date : 4/2/2025

E & I manager : RBE

Last modifications : 4/14/2025

Last modifications by : RTR

Revision no. : 00



CLIENT DWG NO.	L03-RE037-EL-DIG-001
EQUIPMENT NO.	PK-6801
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT Title page / cover sheet	
ADAPTED TO P&ID REVISION	00
CLIENT	Seraj Gostaran Rejal
CLIENT REF.	ABT 360 KT/Y PP PLANT Project
AIRPACK REF.	23249-05 Wiring Diagram

DRAWN BY	RTR
CHECKED BY	RBE
LAST MODIFICATION DATE	4/11/2025
AIRPACK DWG NO.	23249-05
REVISION	00
TOTAL PAGE AMOUNT	1

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CURRENT PAGE

# COMMENTS ON ELECTRICAL DRAWINGS

Make of PLC is Siemens S7-1200.	Color codes internal wiring.
ESD signals will be connected hardwired (4-wire cable).	
Wiring diagram is drawn in non energized state.	
Alarms, trips and running status will be visible with lamps on LCP. Process values and alarms will be visible on display (door mounted in UCP).	
LCP is wall mounted on skid. Material: Stainless Steel SS316. Ingress protection: IP-65. Area classification: Ex II 3G IIA/B T3, E xe. Bottom cable entry with drain and breather.	230 VAC, 50HZ, L Brown
	230 VAC, 50HZ, N Blue
	24VDC + Red
	0 VDC Black
	Current loops Purple
	Volt free contacts Orange
	Protection earth Green / Yellow
JB is wall mountend on skid. Material: Stainless Steel SS316. Ingress protection: IP-65. Area classification: Ex II 3G IIA/B T3, E xe. Bottom cable entry with drain and breather.	
UCP is located in the Controlroom Material: Painted sheet steel (RAL-7035). Ingress protection: IP-42. Area classification: Safe area	
Glands: Brass glands without shrouds, iso metric threads, IP-66. Cable trays: Galvanised steel with cover. All cable trays shall be earthed.	
Terminal Block Colors: I.S. Signals - Light Blue Non I.S. Signals - Grey	
Ambient temperature: -2°C / 55 °C.	
All Protective earth ("PE") connections are connected on a "PE" - Bar. All Instrument earth ("IE") connections are connected on a "IE" - Bar.	

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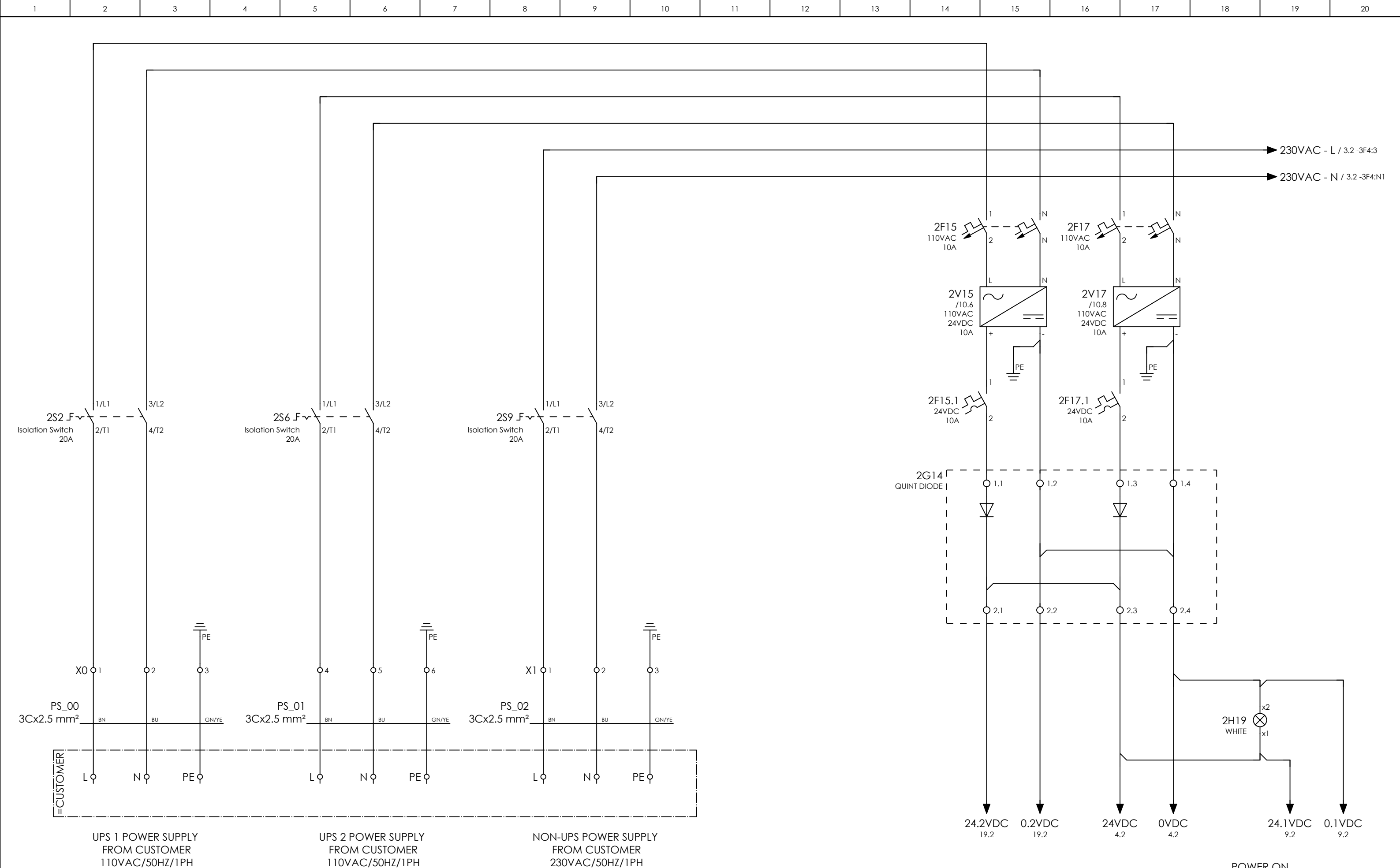
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/2	Project description	2	4/2/2025	rtriegaardt
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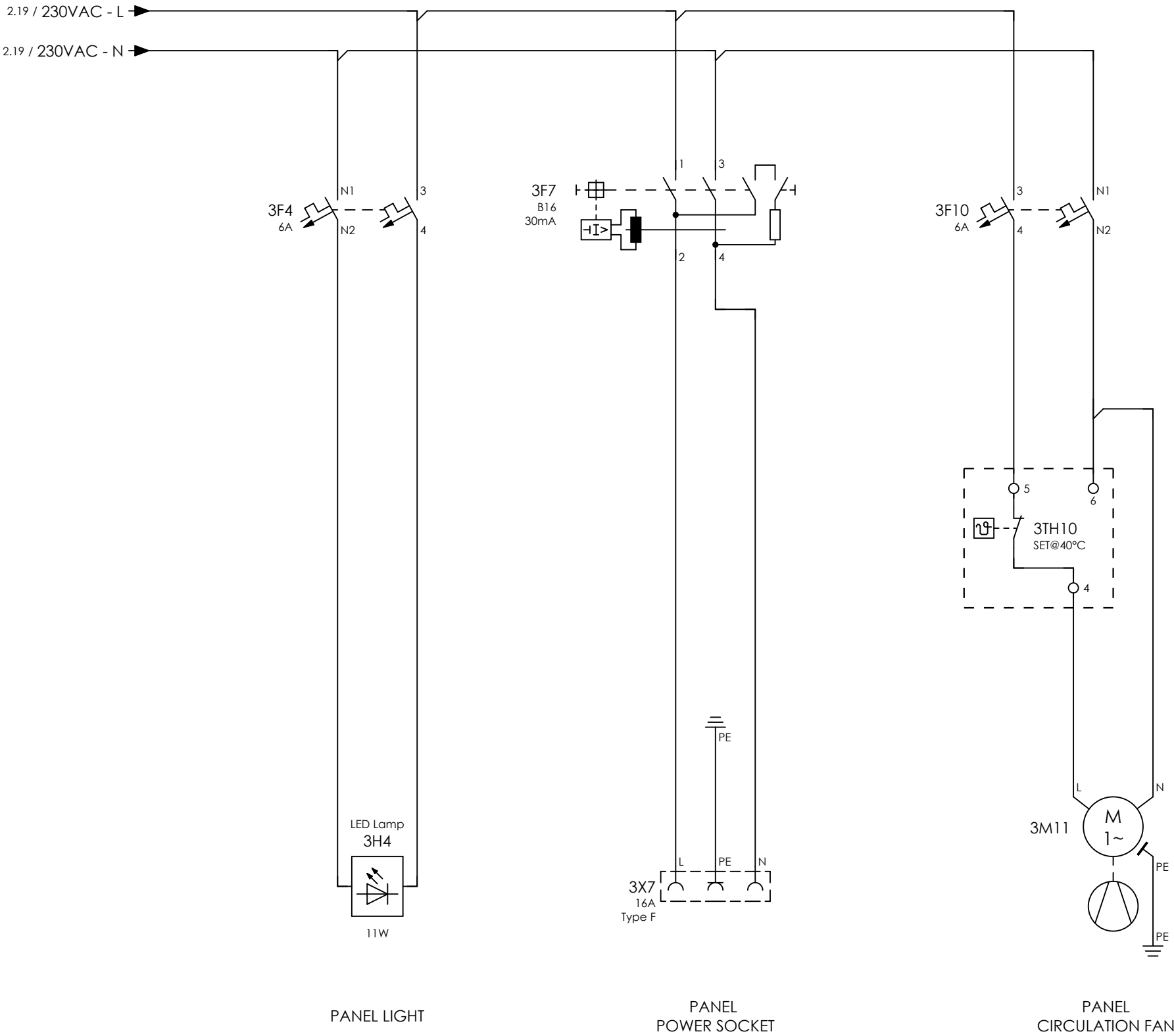
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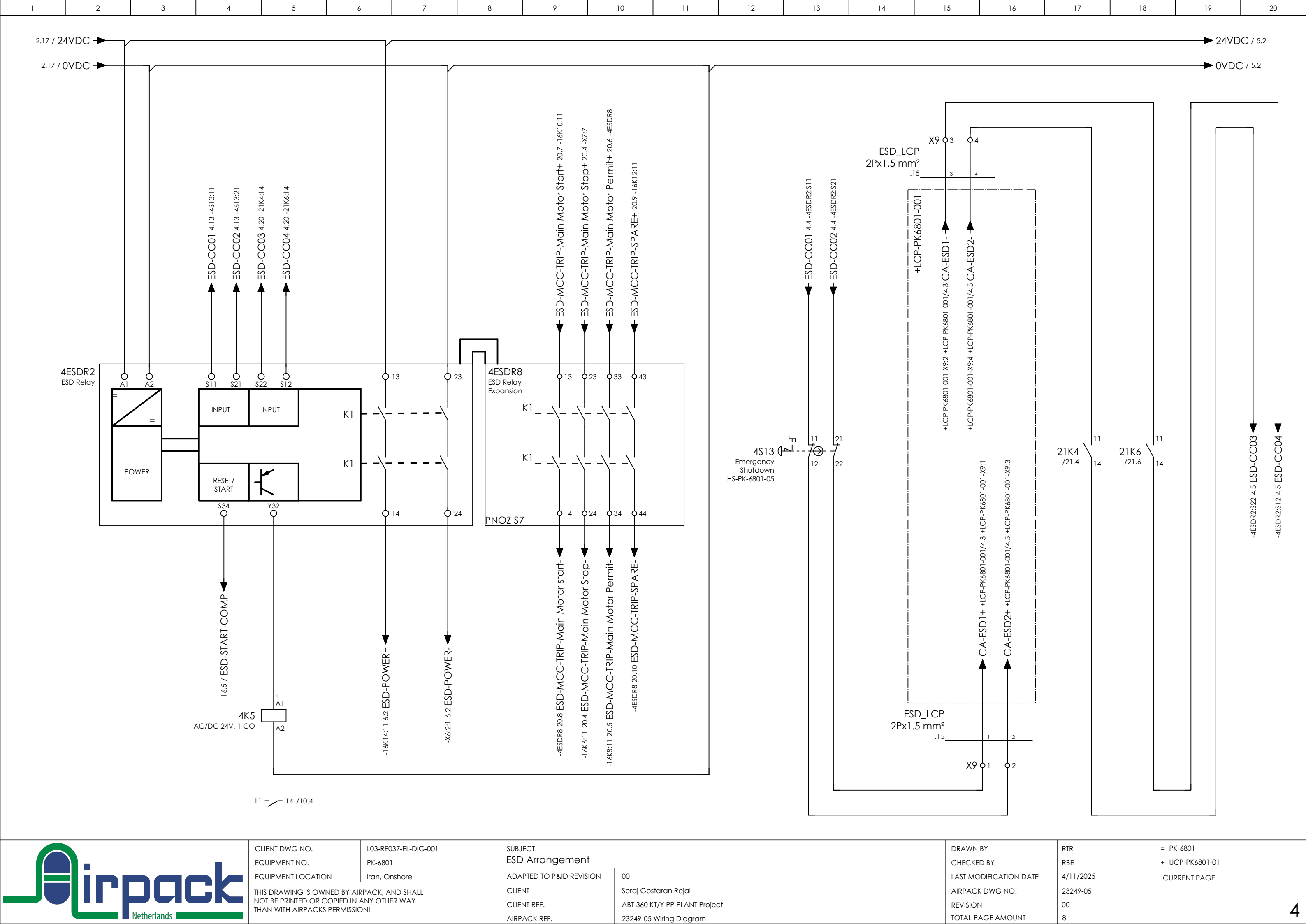
TERMINAL STRIP DEFINITION

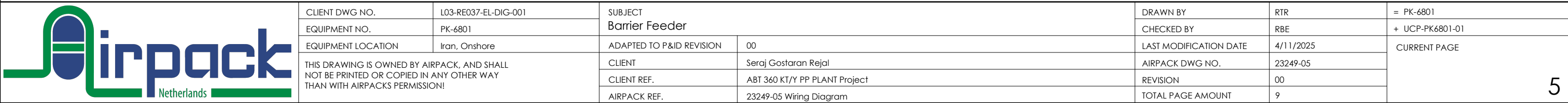
- X0 = POWER SUPPLY 110VAC UPS FROM CUSTOMER
- X1 = POWER SUPPLY 230VAC FROM CUSTOMER
- X2 = ANALOGUE TRANSMITTER INPUTS
- X5 = DIGITAL OUTPUTS (TO/FROM LCP)
- X6 = SOLENOID VALVES
- X7 = SIGNALS FROM MCC
- X8 = SIGNALS TO MCC
- X9 = ESD TERMINALS
- X10 = FROM DCS ESD
- X11 = TO DCS
- X12 = FROM DCS

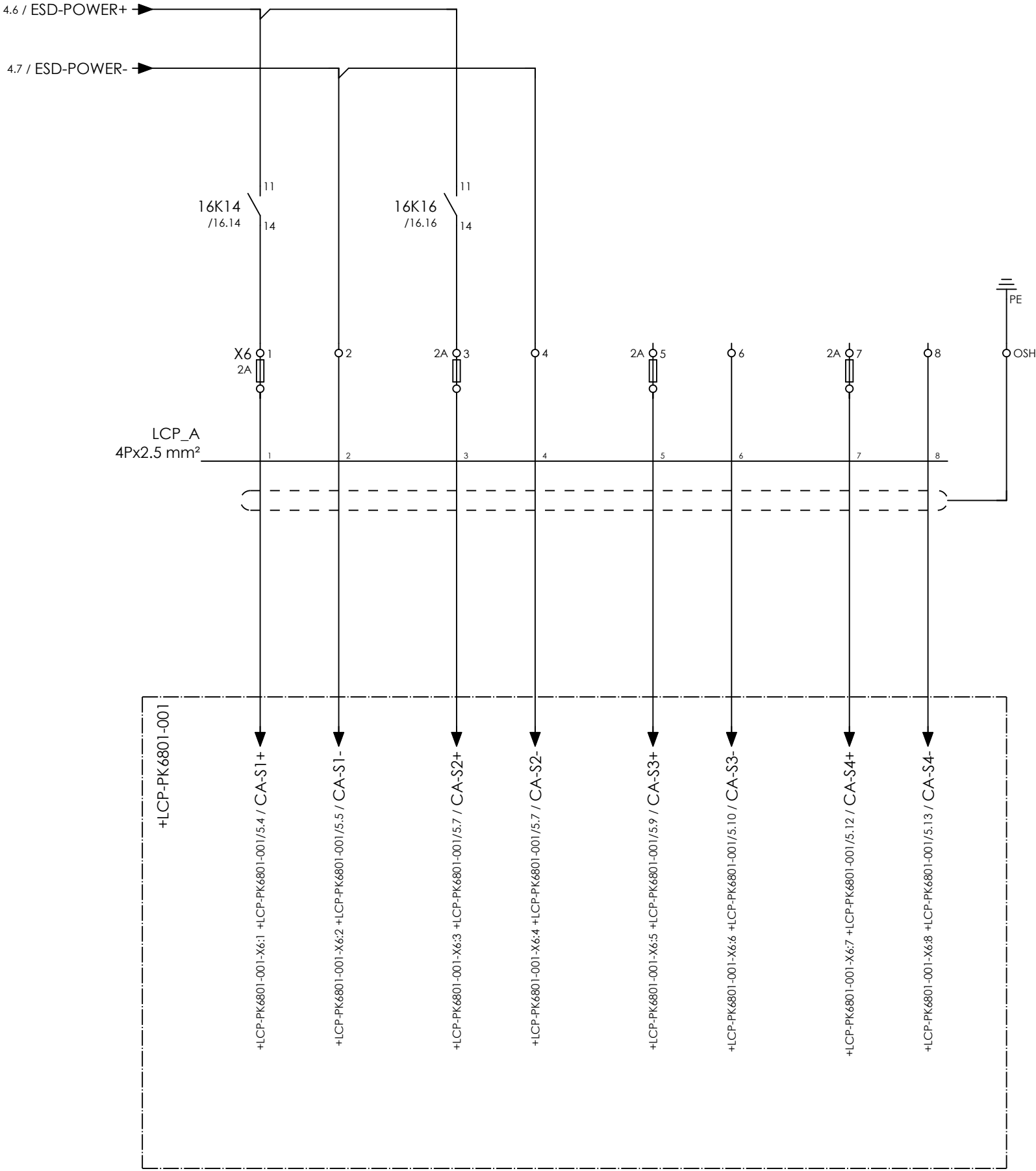


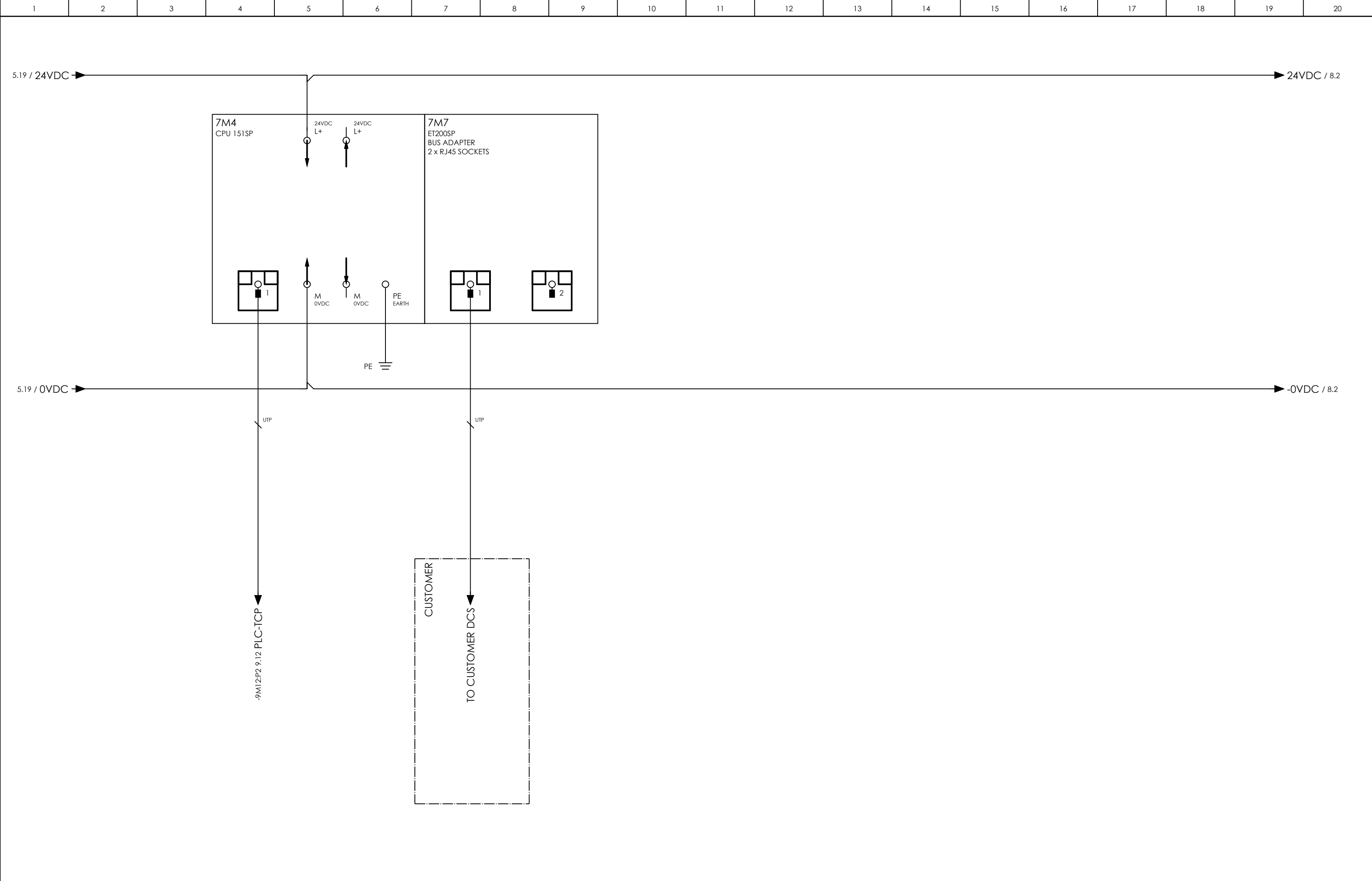


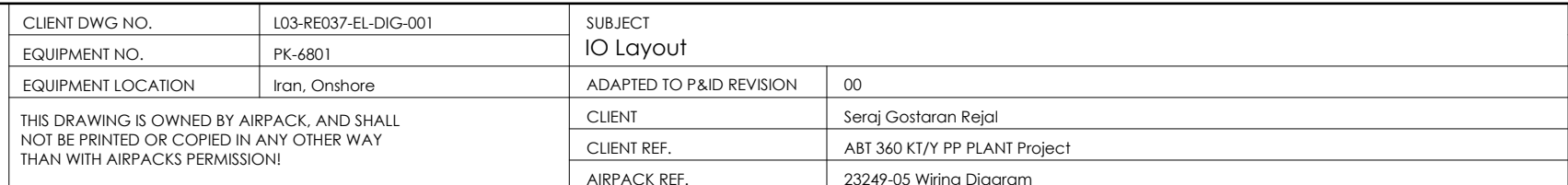


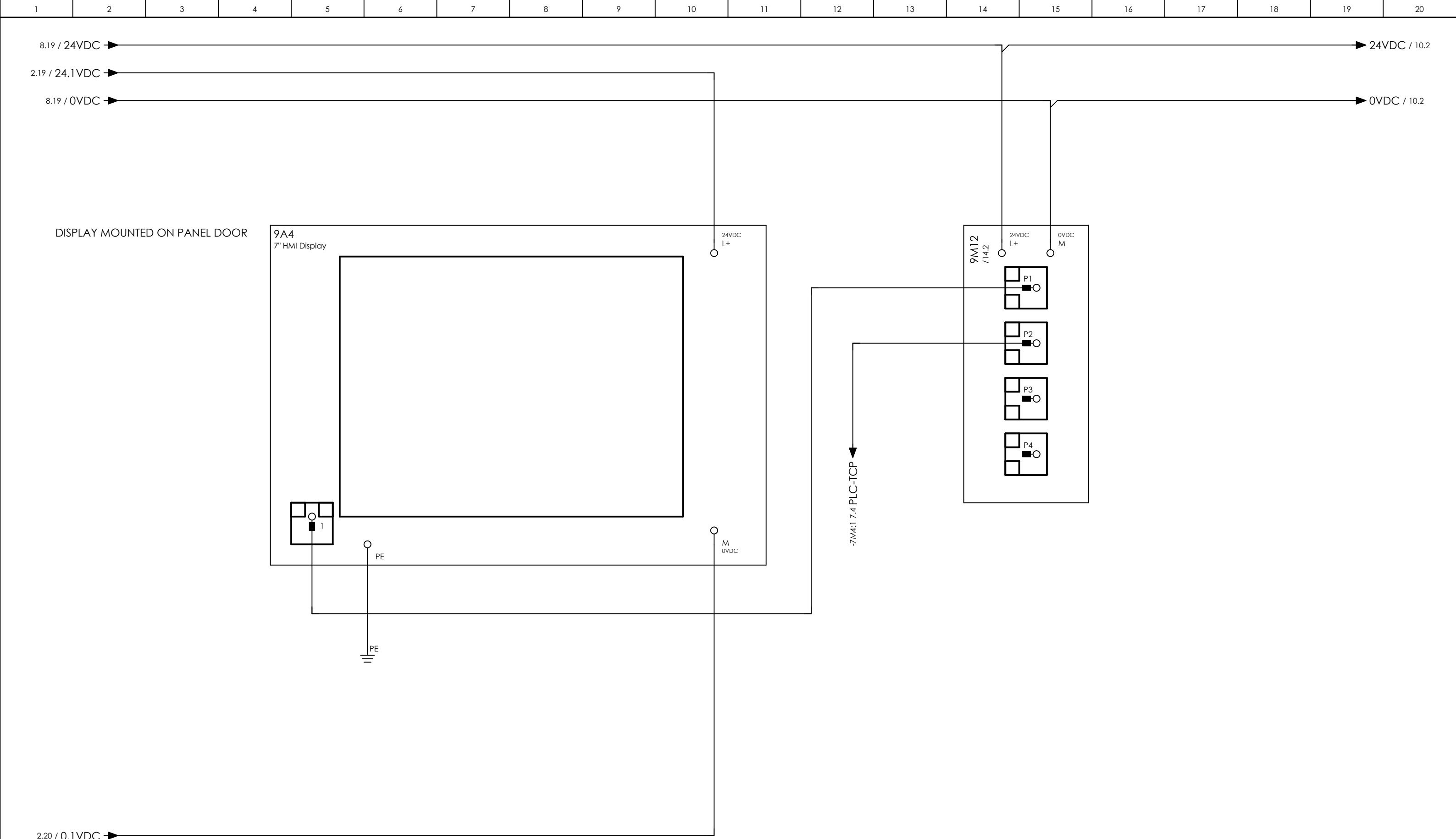


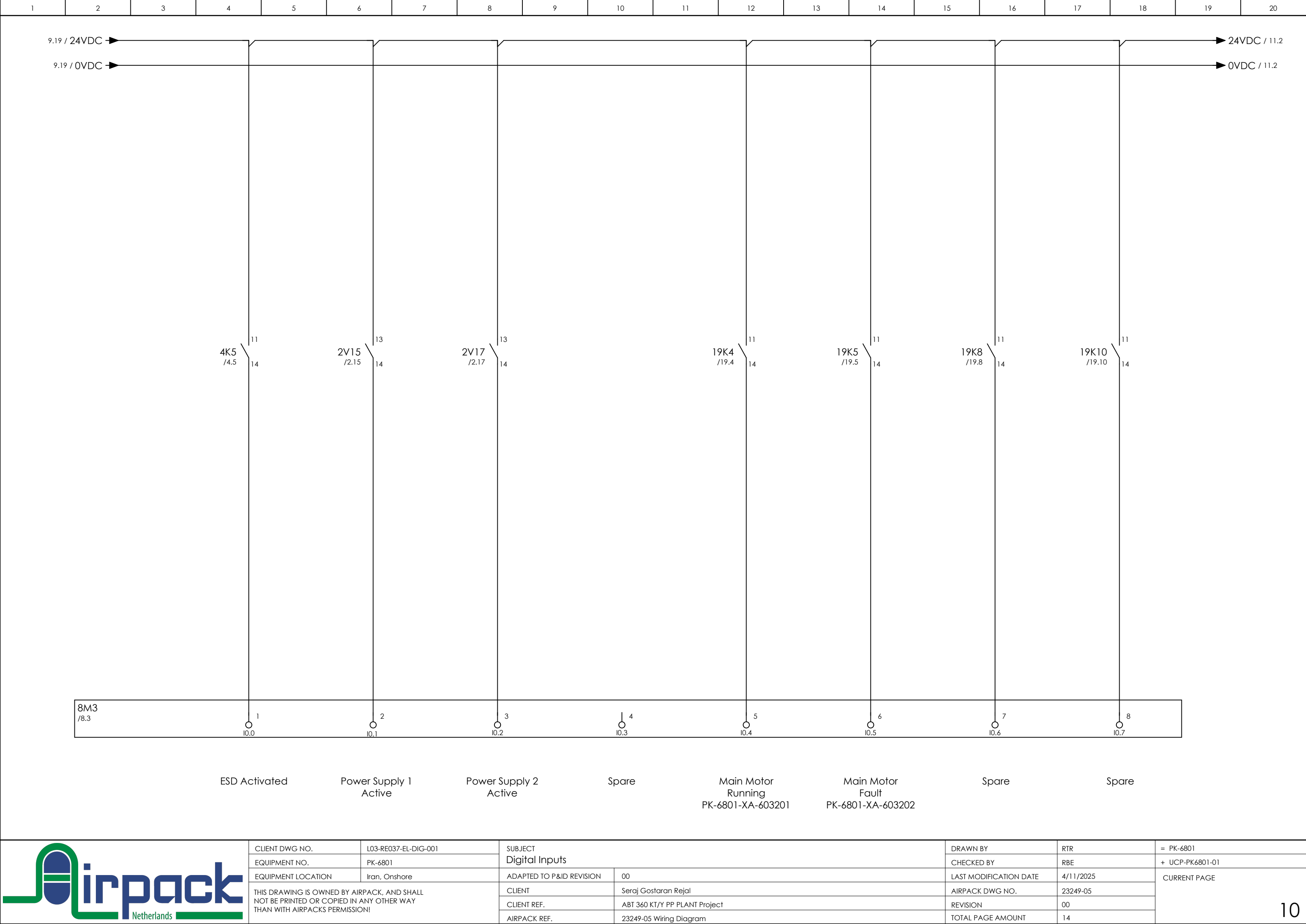






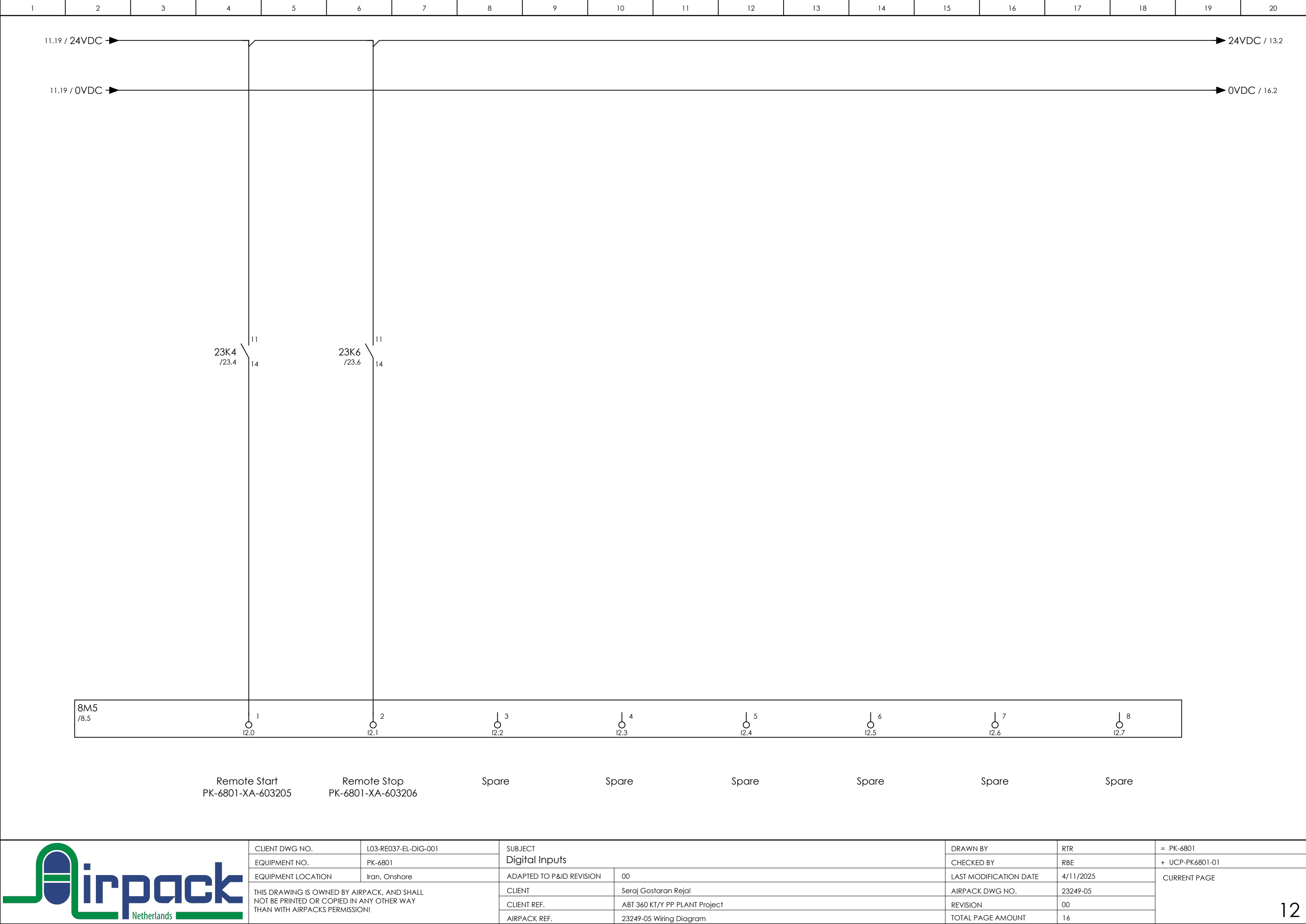


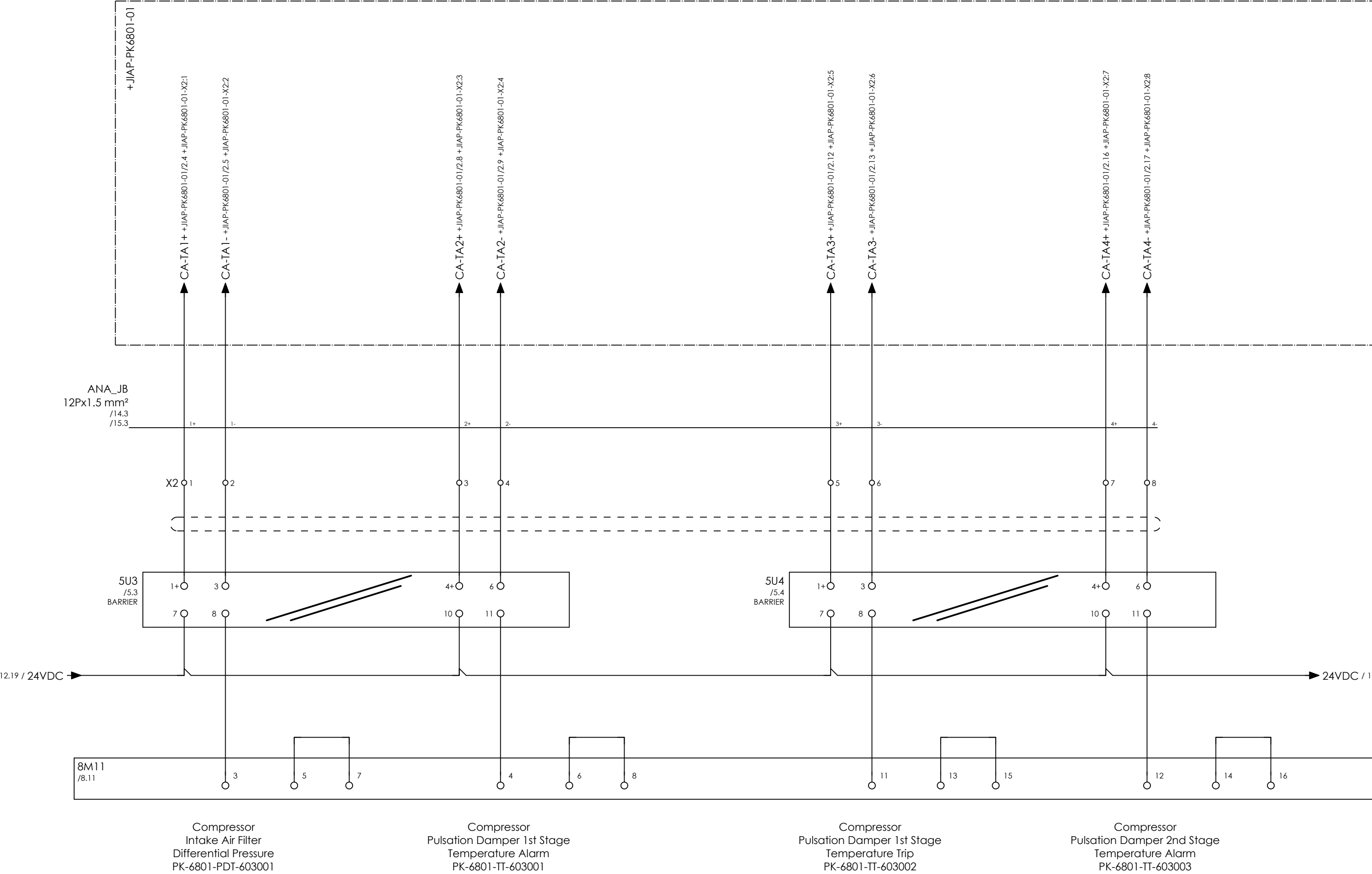




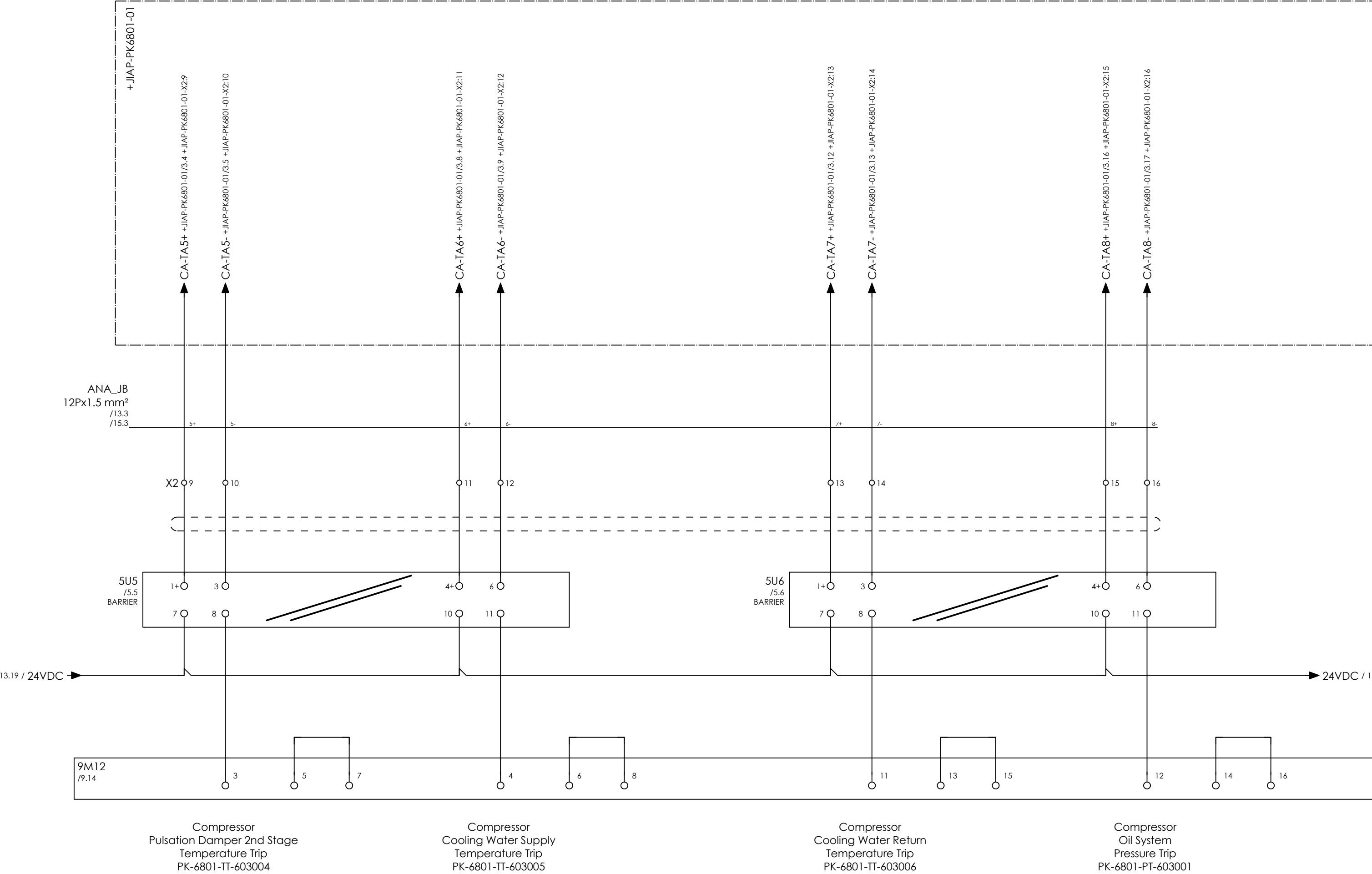




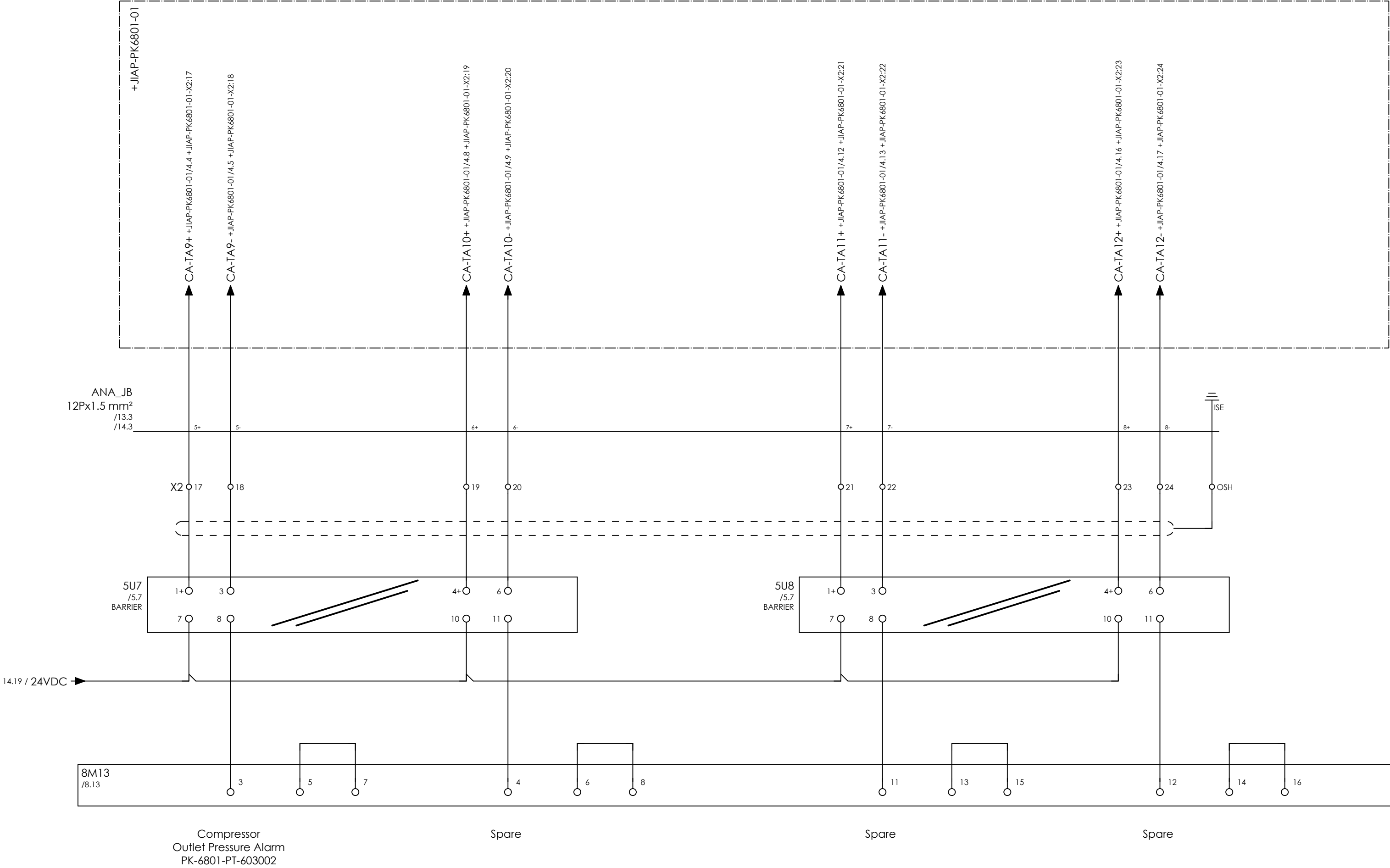




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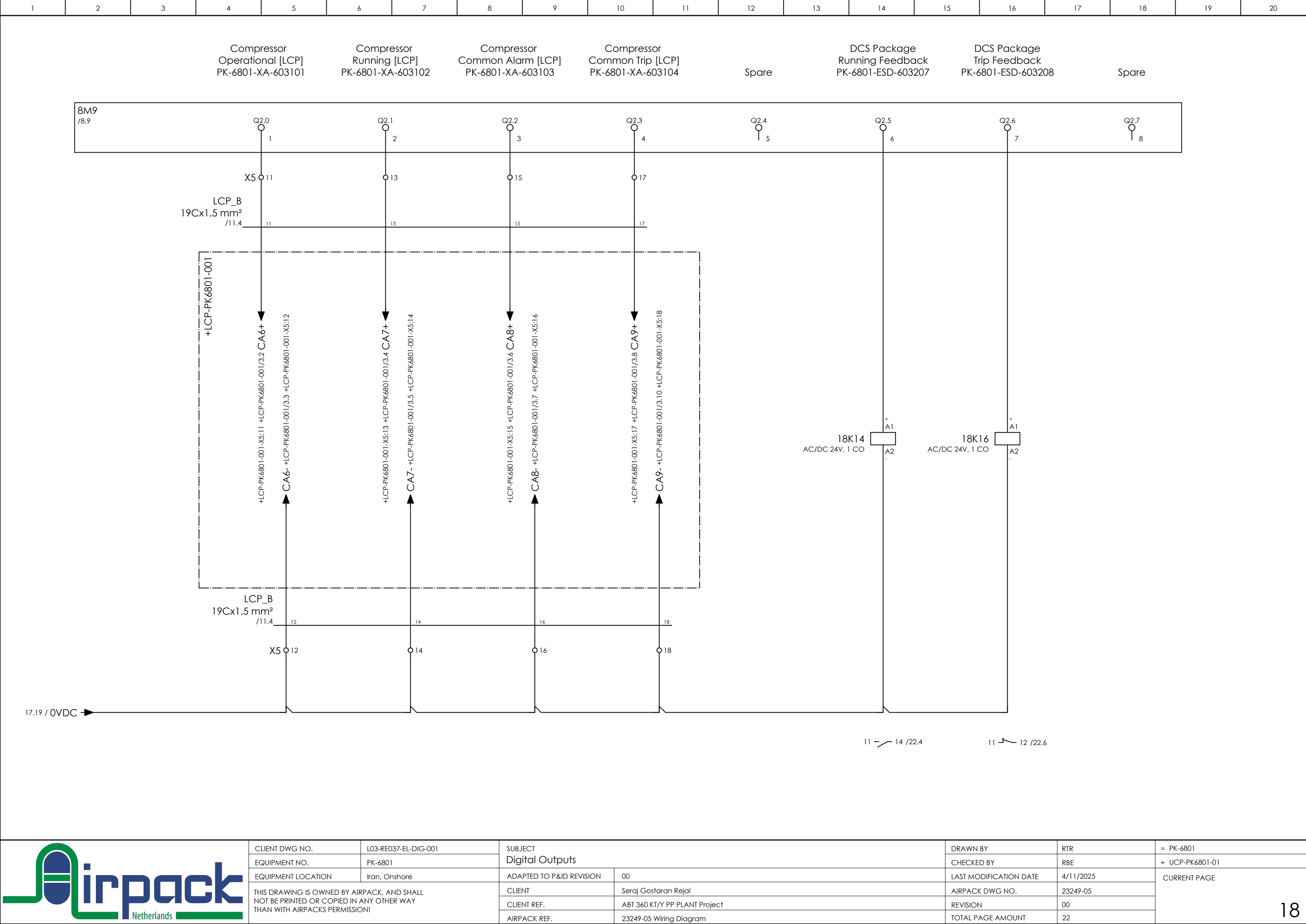


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	EQUIPMENT NO.	PK-6801	Analog Inputs		CHECKED BY	RBE	+ UCP-PK6801-01
	EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	00	LAST MODIFICATION DATE	4/11/2025	CURRENT PAGE
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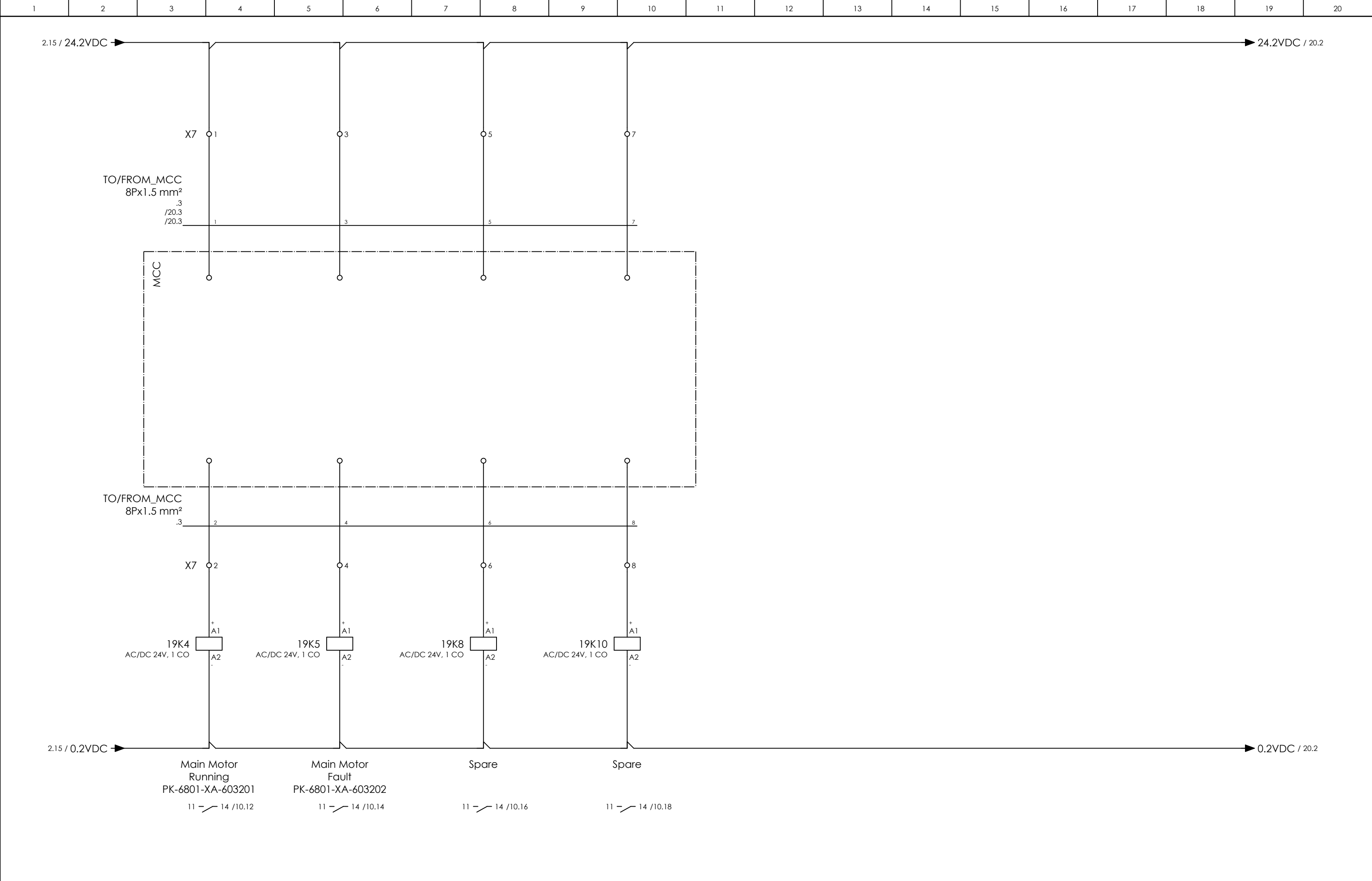


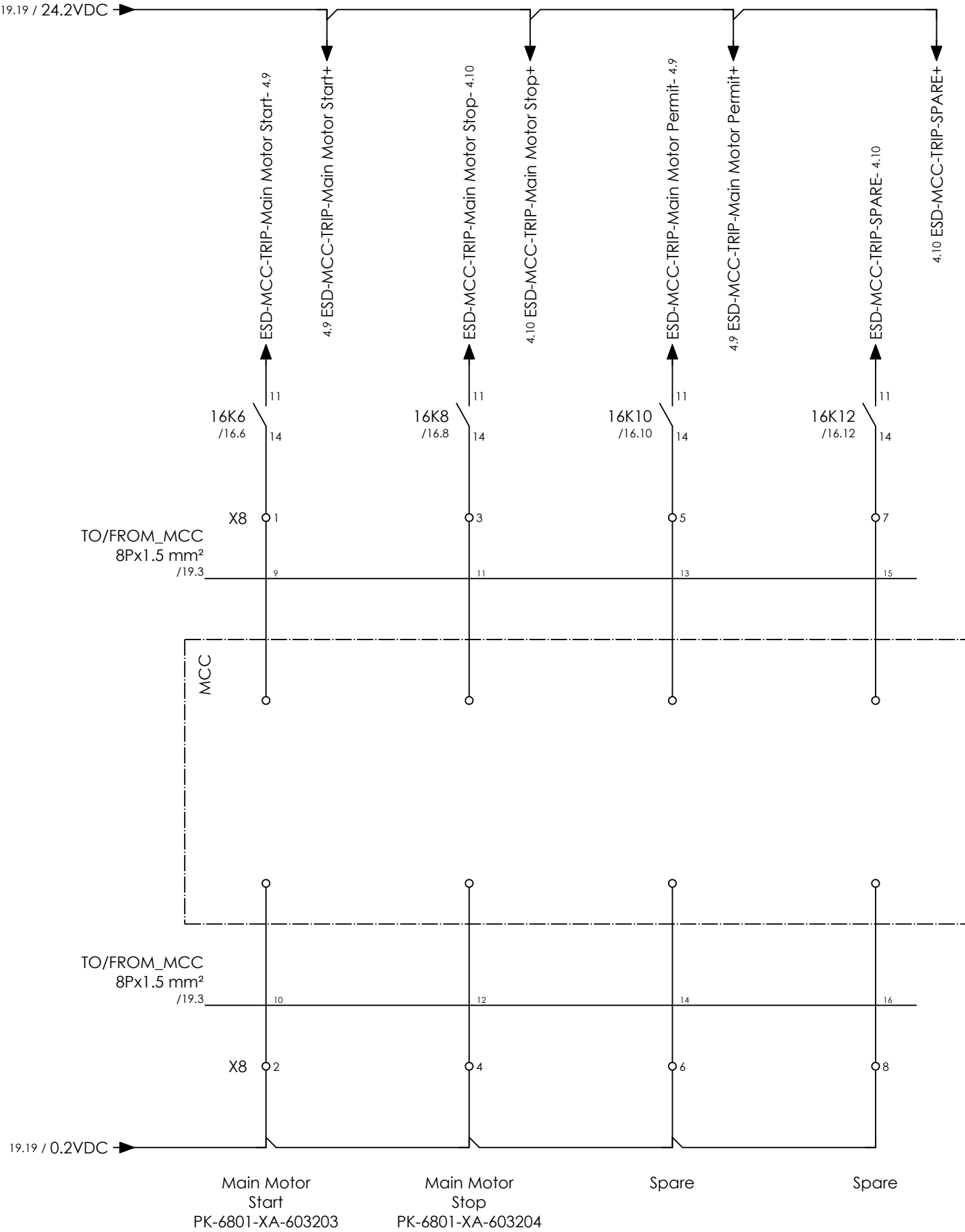
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# Terminal diagram

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	EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	00	LAST MODIFICATION DATE	4/11/2025	CURRENT PAGE
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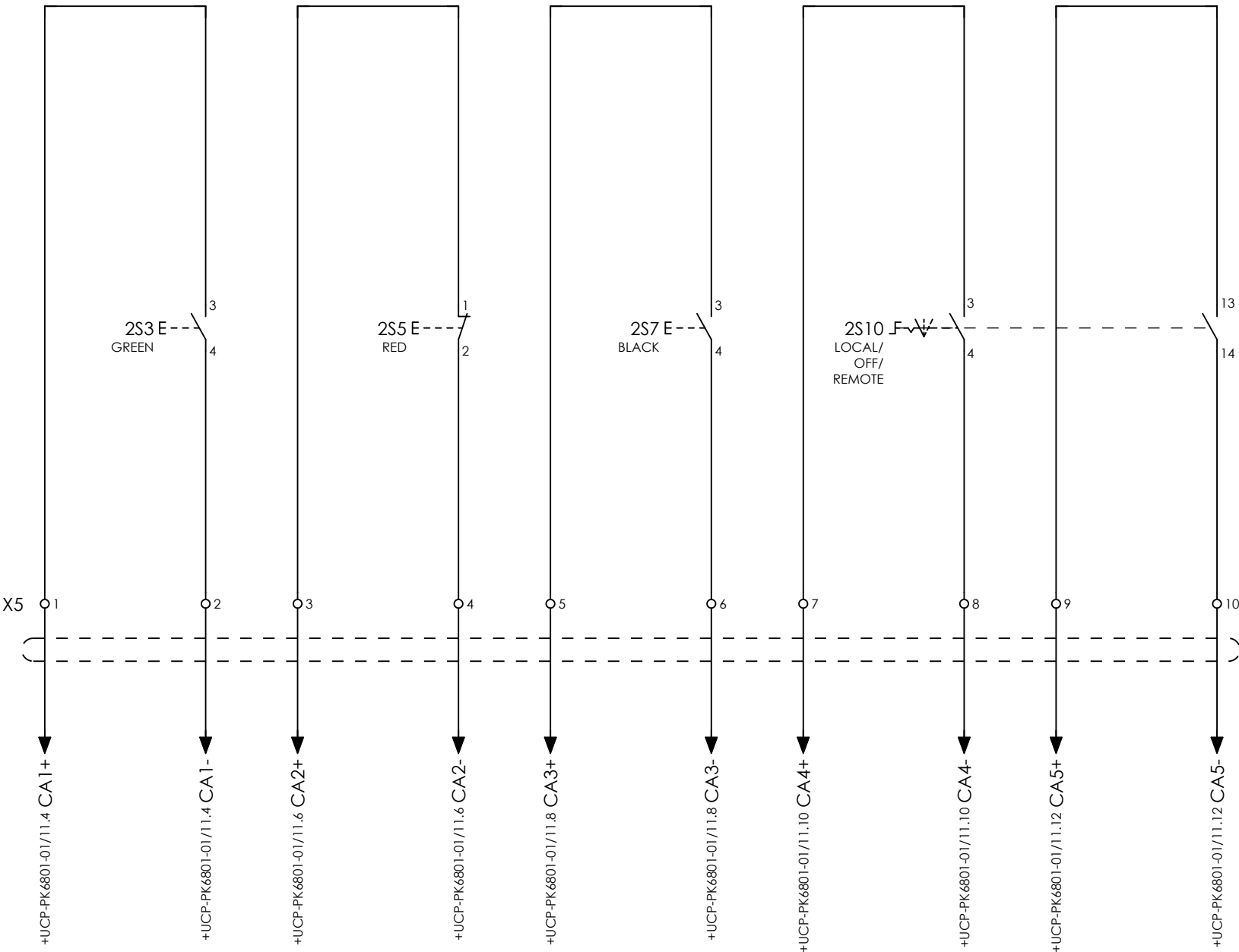
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TERMINAL STRIP DEFINITION

X5 = CONNECTION PUSHBUTTONS & LAMPS COMPRESSOR  
X6 = CONNECTION SOLENOID VALVES COMPRESSOR  
X9 = CONNECTION ESD BUTTON COMPRESSOR



Compressor  
Start Button LCP  
PK-6801-HS-603101

Compressor  
Stop Button LCP  
PK-6801-HS-603102

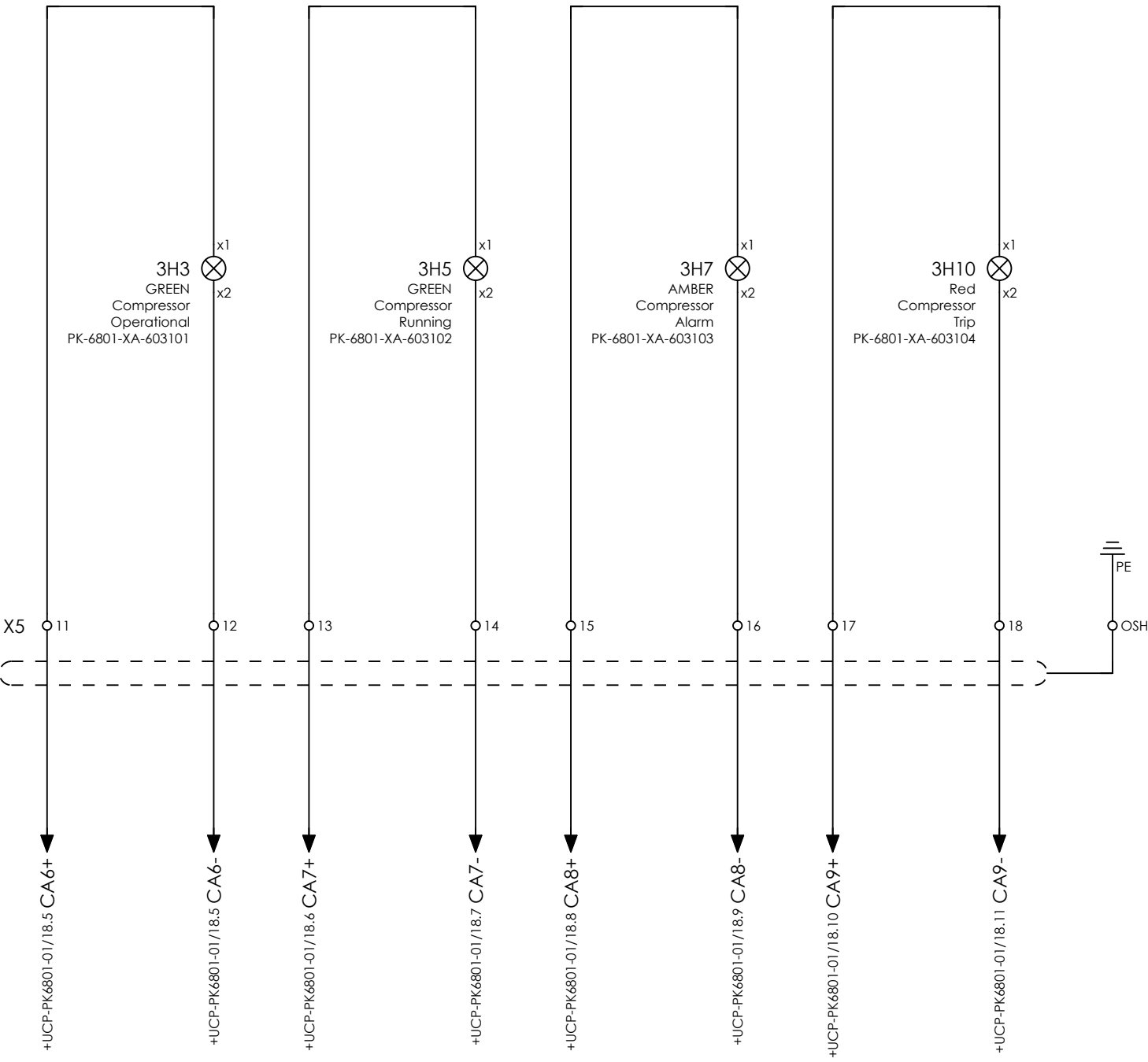
Compressor  
Common Lamptest  
PK-6801-HS-603103

Compressor  
Local Selector Switch  
PK-6801-SW-603101

Compressor  
Remote Selector Switch  
PK-6801-SW-603102



CLIENT DWG NO.	L03-RE037-EL-DIG-001	SUBJECT Local Pushbuttons		DRAWN BY	RTR	= PK-6801
EQUIPMENT NO.	PK-6801			CHECKED BY	RBE	+ LCP-PK6801-001
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	00	LAST MODIFICATION DATE	4/11/2025	CURRENT PAGE
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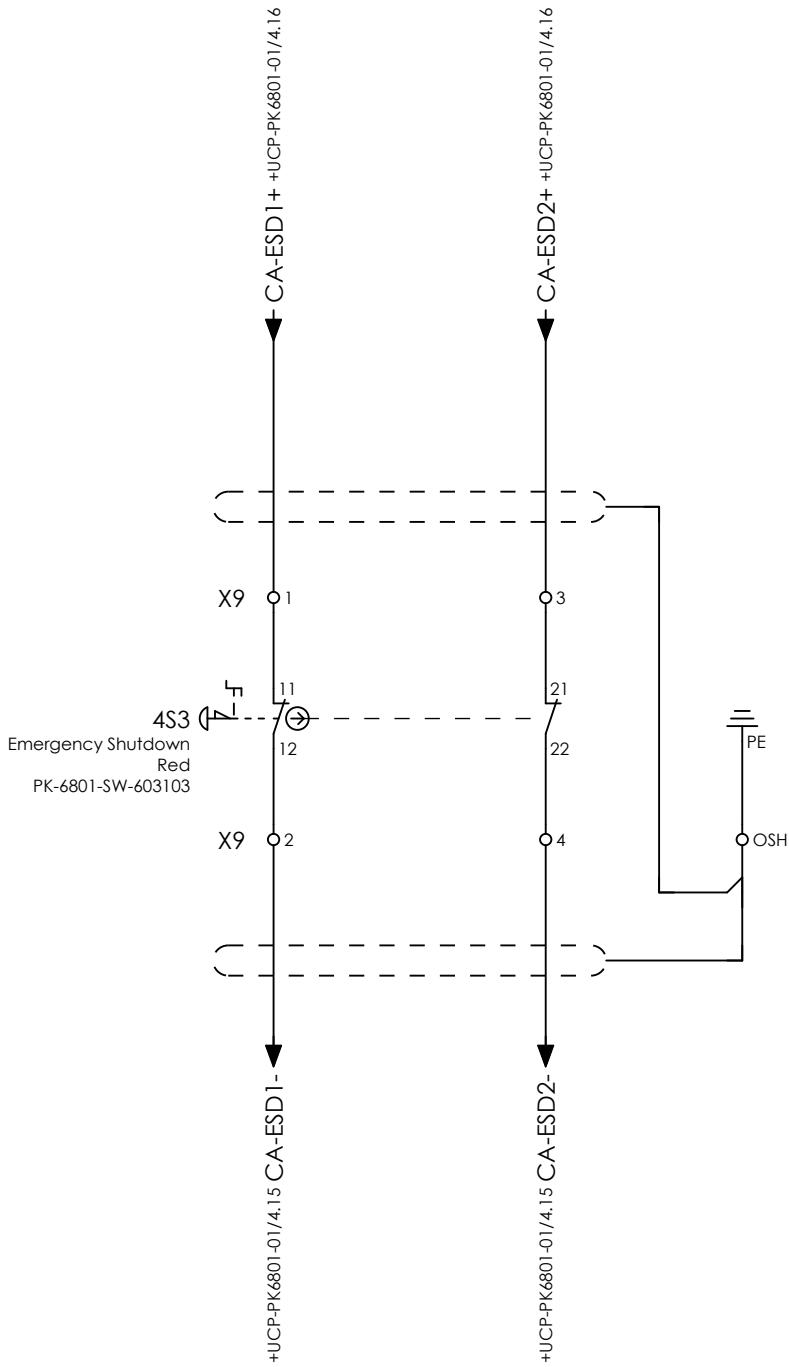


Compressor  
Operational  
PK-6801-XA-603101


Compressor  
Running  
PK-6801-XA-603102

Compressor  
Alarm  
PK-6801-XA-603103

Compressor  
Trip  
PK-6801-XA-603104



Compressor  
Emergency shutdown [LCP]  
PK-6801-SW-603103

	CLIENT DWG NO.	L03-RE037-EL-DIG-001	SUBJECT		DRAWN BY	RTR	= PK-6801
	EQUIPMENT NO.	PK-6801	ESD		CHECKED BY	RBE	+ LCP-PK6801-001
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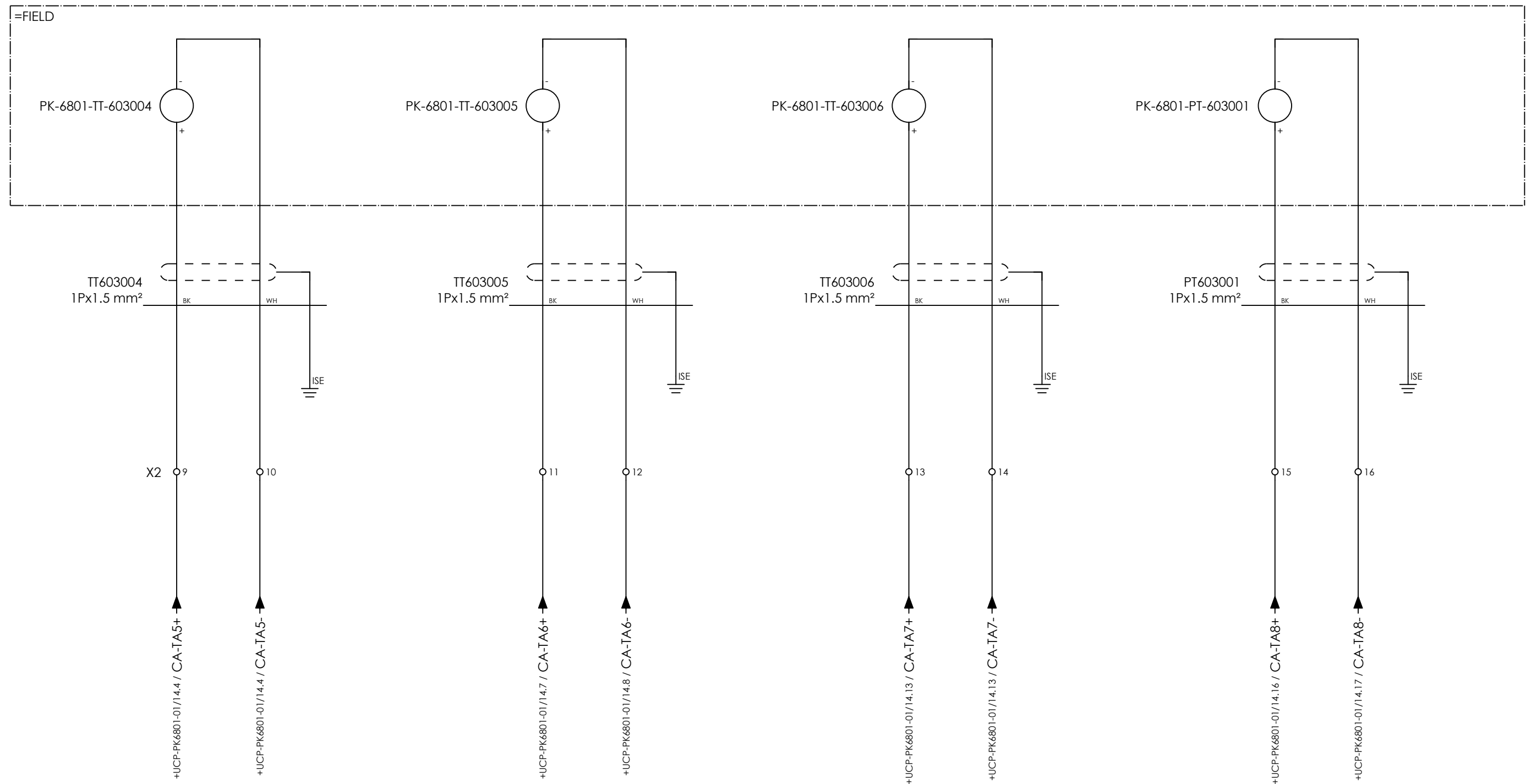
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TERMINAL STRIP DEFINITION

X2 = CONNECTION TRANSMITTERS COMPRESSOR



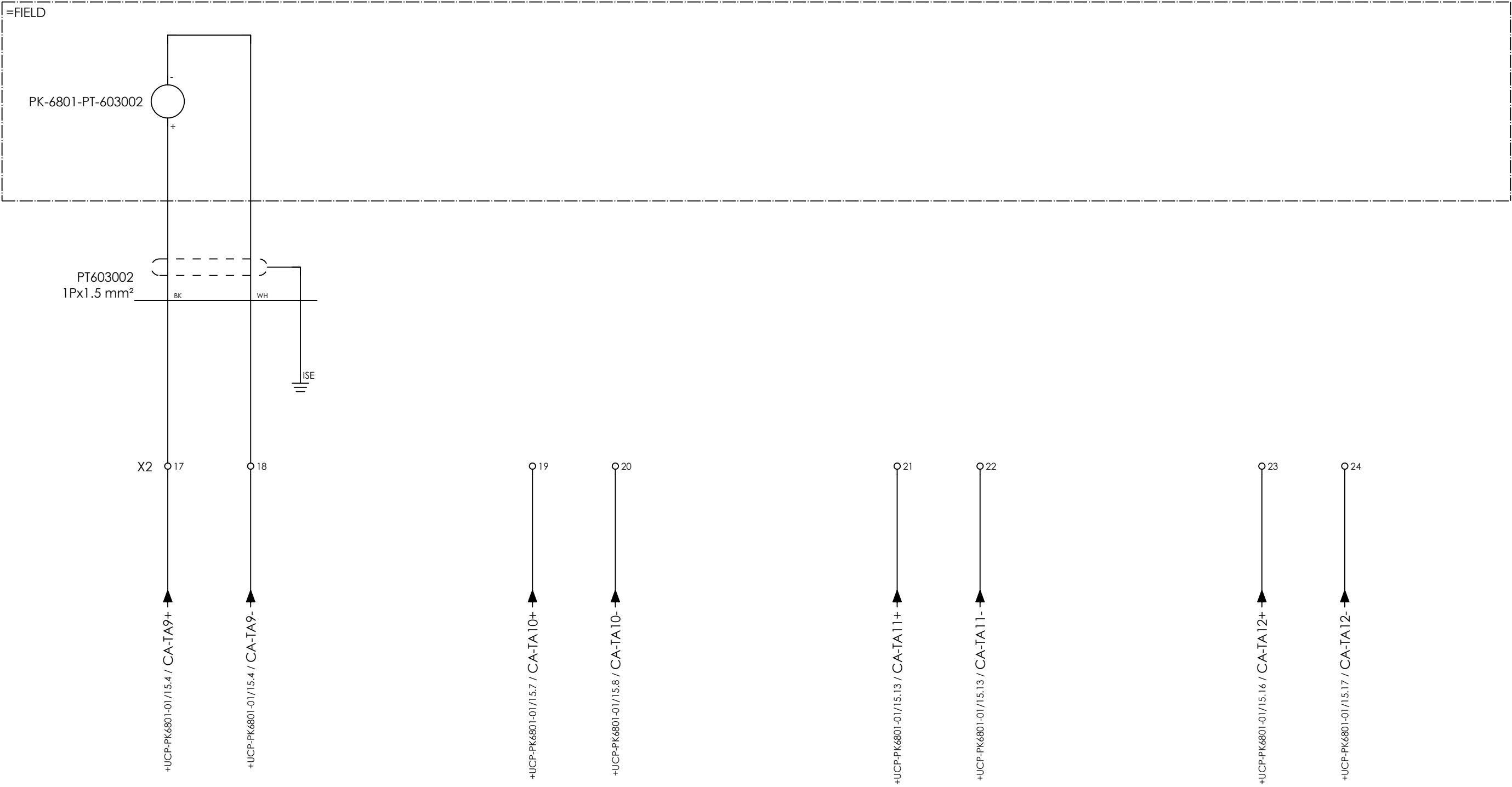


Compressor  
Pulsation Damper 2nd Stage  
Temperature Trip  
PK-6801-TT-603004

Compressor  
Cooling Water Supply  
Temperature Trip  
PK-6801-TT-603005

Compressor  
Cooling Water Return  
Temperature Trip  
PK-6801-TT-603006

Compressor  
Oil System  
Pressure Trip  
PK-6801-PT-603001



Compressor  
Outlet Pressure Alarm  
PK-6801-PT-603002

Spare

Spare

Spare

[illegible]

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