






OWNER:  شرکت پتروشیمی بوشهر BUPC	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	UCP/LCP/JB WIRING DIAGRAM FOR EMERGENCY INSTRUMENT AIR COMPRESSOR						 Netherlands		
MC :  شرکت سمت و سوی توسعه ایرانیان NDV EC	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-05B	BU	20	VD	303	IN	DIG	0093	Rev.:	Page
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- Reply sheet shall be submitted by vendor.
- Reference document to be specified.
- Prerequisite document such as architecture diagram and I/O list shall be issued before this document.
- After FAT minimum of 20 % installed spare in all respects shall be available.
- UCP, LCP and JB tag to be modify as per comments on page 2 of P&ID.
- Component list BOM same as below table shall be add.





Component list

Tag	Quantity	Designation	Type number	Manufacturer	Manufacturer part number
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## UCP/LCP/JB WIRING DIAGRAM FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 BUSHEHR PETROCHEMICAL COMPANY MEG PLANT	
<b>Document Review</b>	
Issue Purpose:	FA
Result Code: AP,AN,CM,RE,NC	CM
Next Status : IFC,IFA,IFI,AFC,AB	IFA
Responsible Department	MECHANICAL
Commented Date	Jul.14.2021
<b>Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.</b>	

<del>01</del>	<del>02/07/2021</del>	<del>For approval</del>	<del>HT</del>	<del>RB</del>	<del>KP</del>	
00	24/11/2020	For approval	HT	RB	KP	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

OWNER:  شرکت پتروشیمی بوشهر	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>  <b>UCP/LCP/JB WIRING DIAGRAM FOR EMERGENCY INSTRUMENT AIR COMPRESSOR</b>	EPC CONTRACTOR:  														
MC :   شرکت سمت و سوی توسعه ایرانیان	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Project</th> <th>Area</th> <th>Phase</th> <th>Unit</th> <th>Dis.</th> <th>Doc.</th> <th>Seq.</th> </tr> <tr> <td>BU</td> <td>20</td> <td>VD</td> <td>303</td> <td>IN</td> <td>DIG</td> <td style="border: 2px solid red;">0093</td> </tr> </table>	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	BU	20	VD	303	IN	DIG	0093	Contract No : 52-98/445
Project	Area	Phase	Unit	Dis.	Doc.	Seq.										
BU	20	VD	303	IN	DIG	0093										
Owner Document Number: 17811-05B							<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Rev.:</th> <th>Page</th> </tr> <tr> <td style="border: 2px solid red;">00</td> <td>2 of 64</td> </tr> </table>	Rev.:	Page	00	2 of 64					
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66.					
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Till 108	X				



## Airpack B.V.

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Client : Bushehr Petrochemical Company (BUPC)

Equipment location : Iran, Onshore

Client reference : Bushehr MEG Plant Project

Client dwg. no. : BU-20-VD-303-IN-DIG-0045

Airpack reference : 17811-05B

Airpack dwg. no. : 17811-05B

Generation date : 30/06/2021

E & I manager : RBE

Last modifications : 01/07/2021

Last modifications by : htaher

Revision no. : 01



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT Title page / cover sheet	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

DRAWN BY	htaher	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	1	

# NOTES ON ELECTRICAL DRAWINGS

**MARK**

MAKE OF PLC IS SIEMENS S7-400 FH

ESD SIGNALS WILL BE CONNECTED HARDWIRED (4-WIRE CABLE)

ELECTRICAL SCHEME IS DRAWN IN NON ENERGIZED STATE

ACCEPT, RESET, CAN BE CONTROLLED ON THE UCP  
ALARMS-, TRIPS- AND RUNNING STATUS WILL BE VISIBLE WITH LAMPS ON UCP  
PROCESS VALUES AND ALARMS WILL BE VISIBLE ON UCP HMI

UCP ARE LOCATED IN CONTROL ROOM  
MATERIAL: PAINTED SHEET STEEL (RAL 7035)  
INGRESS. PROTECTION: IP-42  
AREA CLASSIFICATION: SAFE AREA

JB'S ARE WALL MOUNTED ON SKID  
MATERIAL: SS316  
INGRESS. PROTECTION: IP-65  
AREA CLASSIFICATION: **Eex'e'**

**EXd**

LCP ARE WALL MOUNTED ON SKID  
MATERIAL: SS316  
INGRESS. PROTECTION: IP-65  
AREA CLASSIFICATION: **Eex'e'**

**GLANDS: NICKEL PLATED BRASS GLANDS WITH PVC SHROUDS, ISO METRIC THREADS , IP-66**  
CABLE TRAYS: GALVANIZED STEEL WITHOUT COVER

AMBIENT TEMPERATURE: 5 / 55 °C

ALL "PE" CONNECTIONS WILL BE CONNECTED ON A "PE"-BAR  
ALL "IE" CONNECTIONS WILL BE CONNECTED ON A "IE"-BAR

## COLOUR CODES INTERNAL WIRING

110 VAC / 230 VAC, 50HZ, L	BROWN
110 VAC / 230 VAC, 50HZ, N	BLUE
24VDC +	RED
0 VDC	BLACK
CURRENT LOOPS	PURPLE
VOLT FREE CONTACTS	ORANGE
PROTECTION EARTH	GREEN / YELLOW
INSTRUMENT SAFETY EARTH	GREEN

Please confirm that following specification as per project standard is applicable for cable glands.

1	Type: Double Seal Compression	TYPE M20-O: X 1.5
2		TYPE M20-O X 1.5
3		TYPE M20-A X 1.5
4		TYPE M25-B X 1.5
5		TYPE M32-C X 1.5
6		TYPE M40-C: X 1.5
6		<b>TYPE M50 X 1.5</b>
7	Type of Protection	EExd IIB T3
8	Specification:	According to IEC 60529 and BS 5501 Part 1, 5, 6; EN 50014/EN 50016; EN 50019
9	Material	Brass Coated Nickel Plated (Electro less)
10	Accessories	Locknut, Earth Tag, Shroud & Sealing washer
11	Type of Armour	SWA
12	Degree of Protection	IP65
13	Thread size:	1.5 mm
14	Service Condition:	Outdoor

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EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	
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EQUIPMENT NO.	20-C-7080	ADAPTED TO P&ID REVISION	01	
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	
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# UNIT CONTROL PANEL

20-UCPC-7002-1

UCP-C7080-01

## TERMINAL STRIP DEFINITION

- X0 = POWER SUPPLY 110VAC / 230VAC FROM CUSTOMER
- X1 = SOLENOIDS
- X2 = ANALOGUE INPUTS
- X2.1 = ANALOGUE OUTPUTS
- X4 = SERIAL COMMUNICATION RS-485 TO CUSTOMER
- X5 = CONNECTION PUSHBUTTONS / LAMPS
- X8 = SIGNALS TO / FROM DISTRIBUTION BOARD
- X9 = EMERGENCY SHUTDOWN
- X11 = SIGNALS FROM DCS

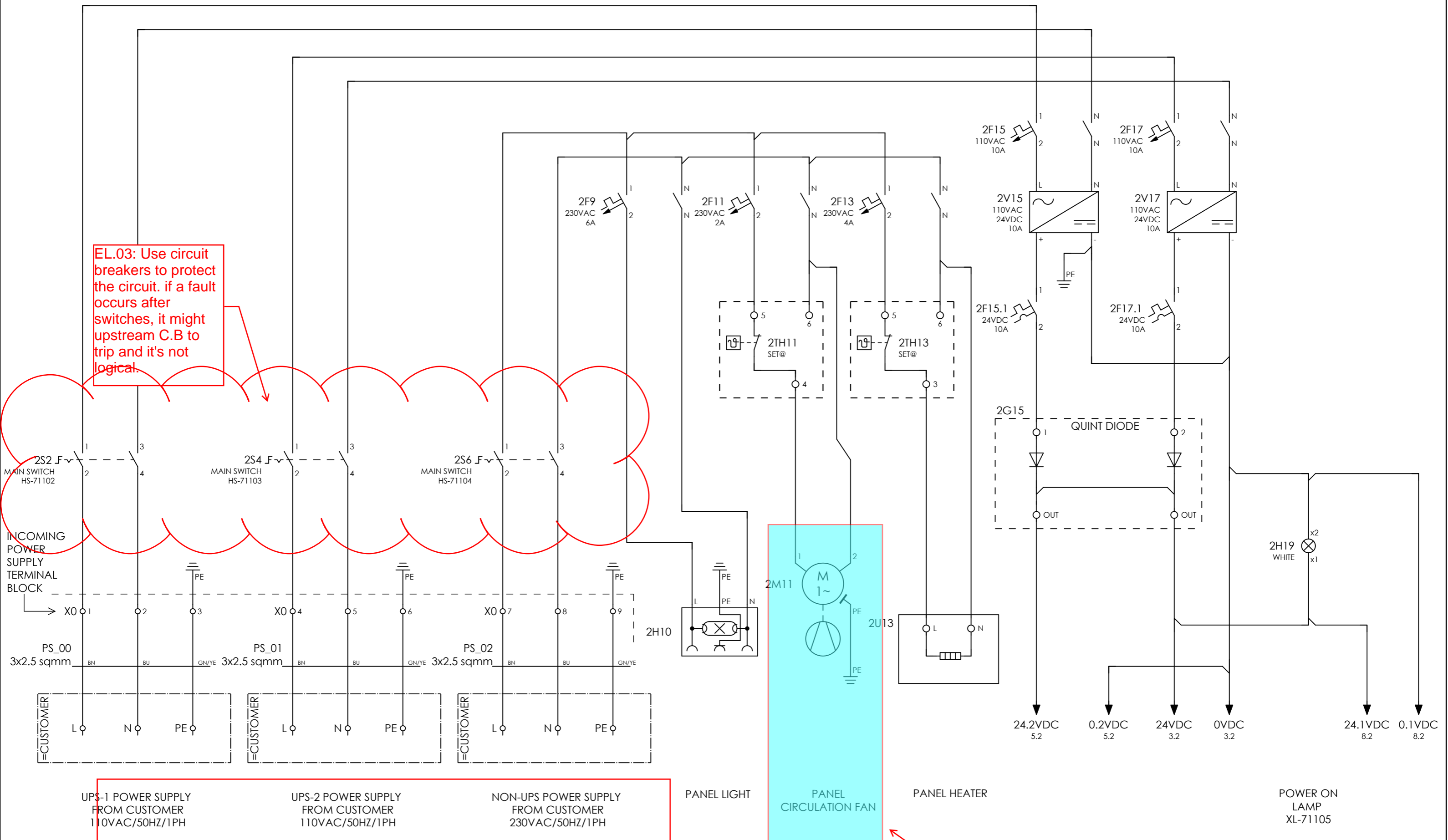


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT		DRAWN BY	
TERMINAL STRIP DEFINITION		htaheer	
ADAPTED TO P&ID REVISION	01	CHECKED BY	RBE
CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	01/07/2021
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK DWG NO.	17811-05B
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EL.03: Use circuit breakers to protect the circuit. if a fault occurs after switches, it might upstream C.B to trip and it's not logical.

UPS-1 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH  
 UPS-2 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH  
 NON-UPS POWER SUPPLY FROM CUSTOMER 230VAC/50HZ/1PH

EL02: Incoming power supply terminal numbers shall be clarified.

EL.04: Add a page and show the legend and symbol list.

Ventilation system shall be use UPS power supply.

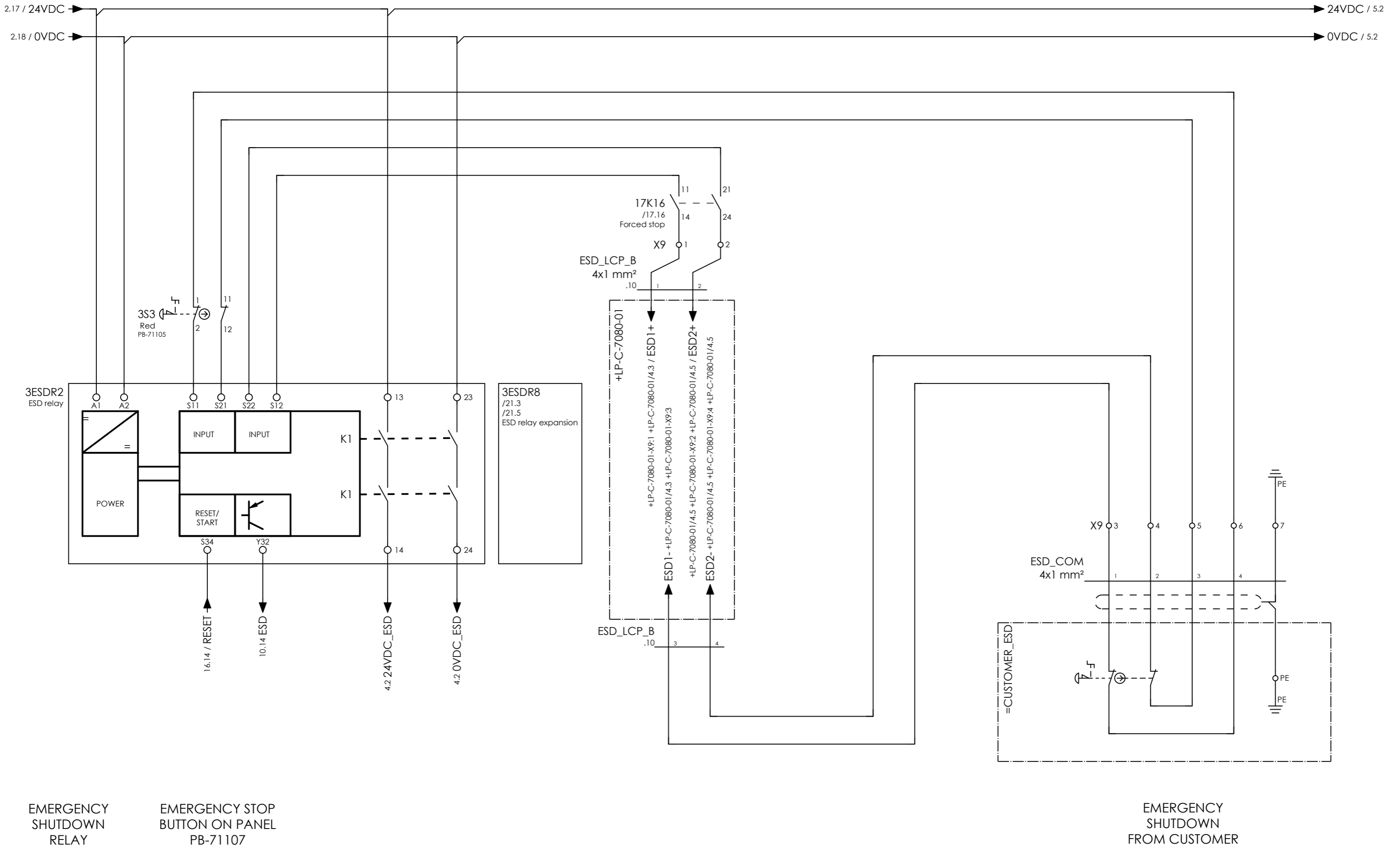


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SUBJECT POWER SUPPLY	
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EMERGENCY SHUTDOWN RELAY

EMERGENCY STOP BUTTON ON PANEL PB-71107

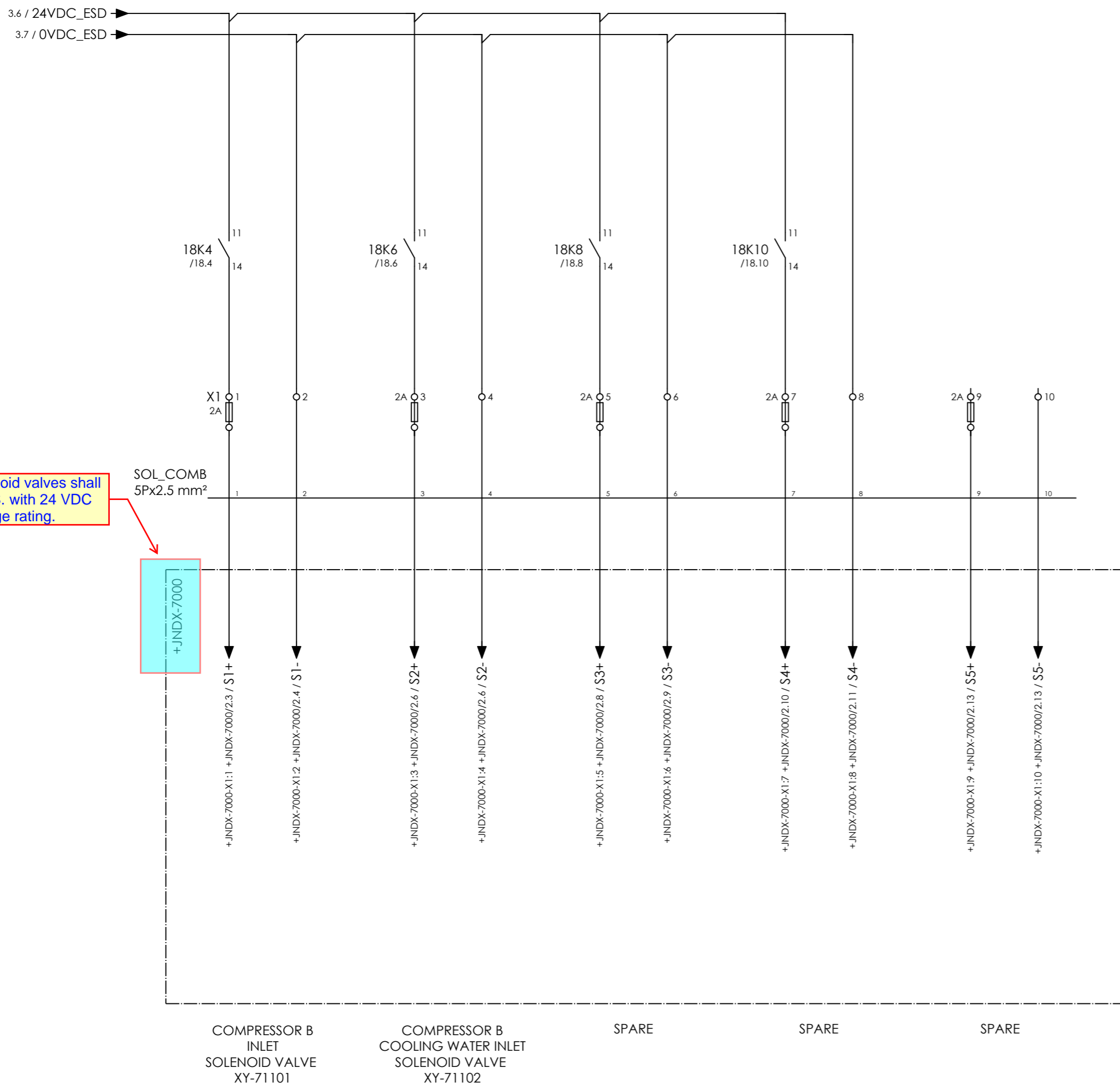
EMERGENCY SHUTDOWN FROM CUSTOMER



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
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SUBJECT EMERGENCY SHUTDOWN	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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Solenoid valves shall be I.S. with 24 VDC voltage rating.

SOL\_COMB  
5Px2.5 mm<sup>2</sup>

+JNDX-7000

COMPRESSOR B  
INLET  
SOLENOID VALVE  
XY-71101

COMPRESSOR B  
COOLING WATER INLET  
SOLENOID VALVE  
XY-71102

SPARE

SPARE

SPARE

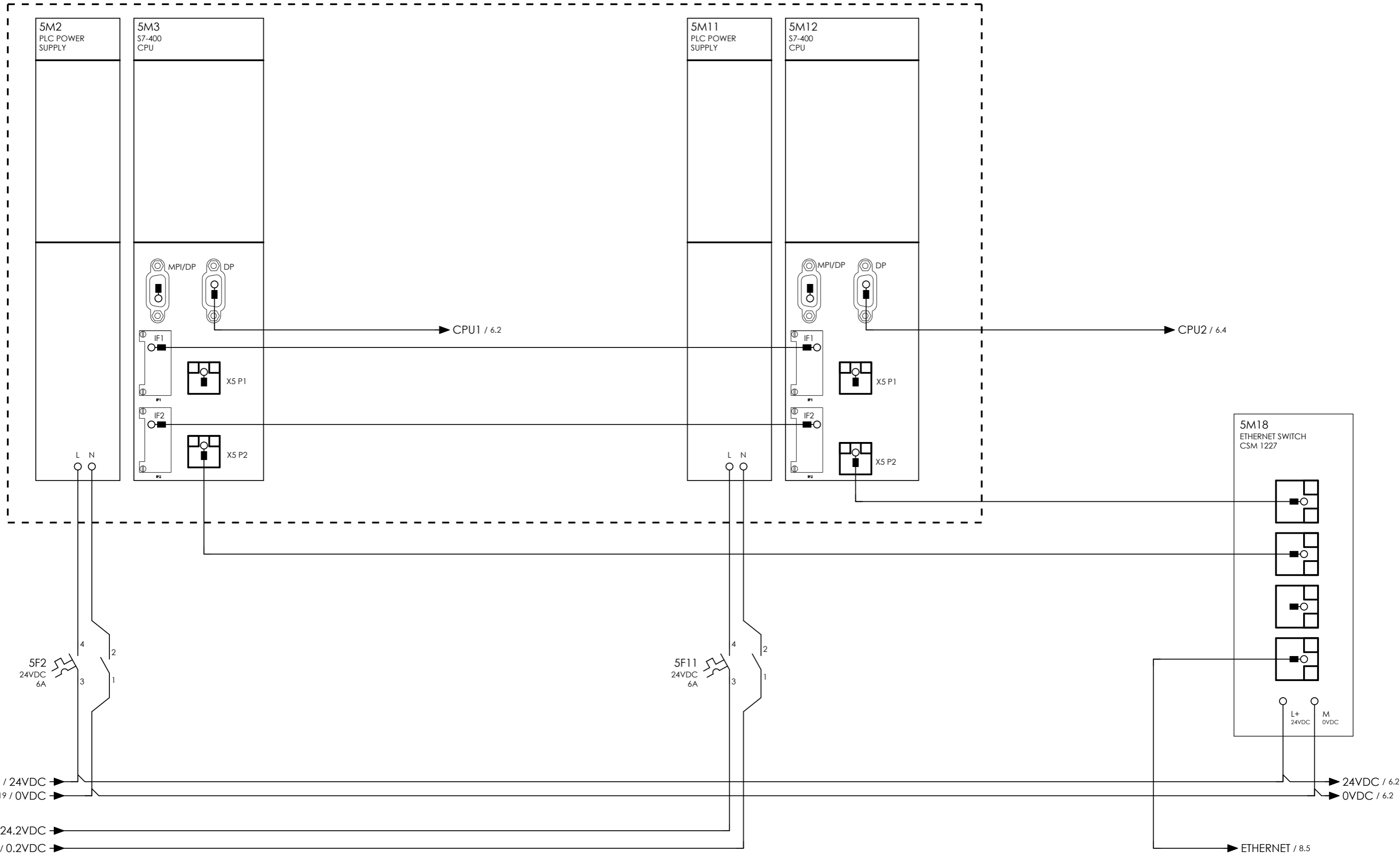


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SUBJECT SOLENOIDS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
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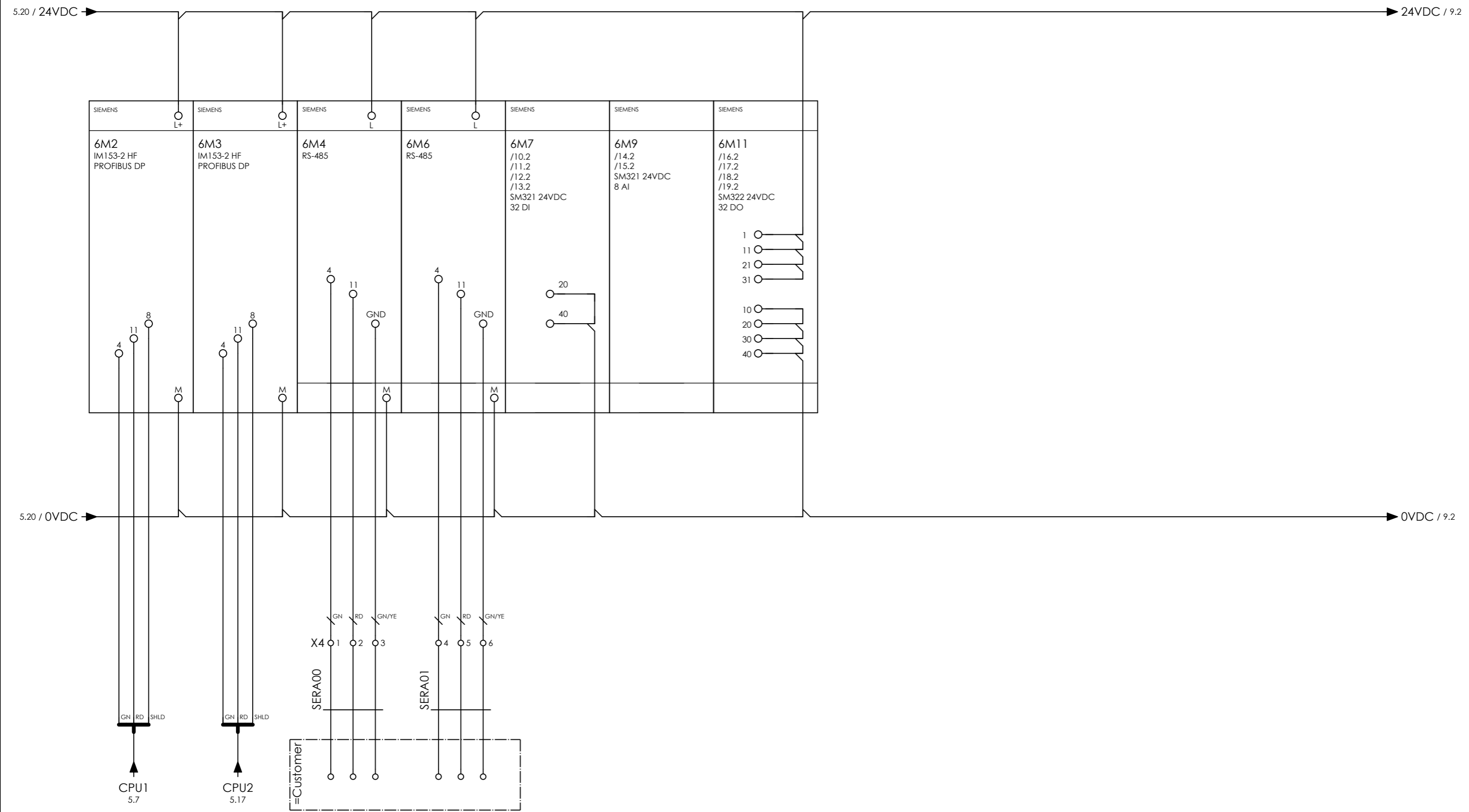
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EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT PLC LAYOUT	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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CHECKED BY	RBE	+ 20-UCPC-7002-1
LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	9	



SERIAL COMMUNICATION TO CUSTOMER  
RS-485

Modbus TCP/IP  
shall be considered



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT IO RACK	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

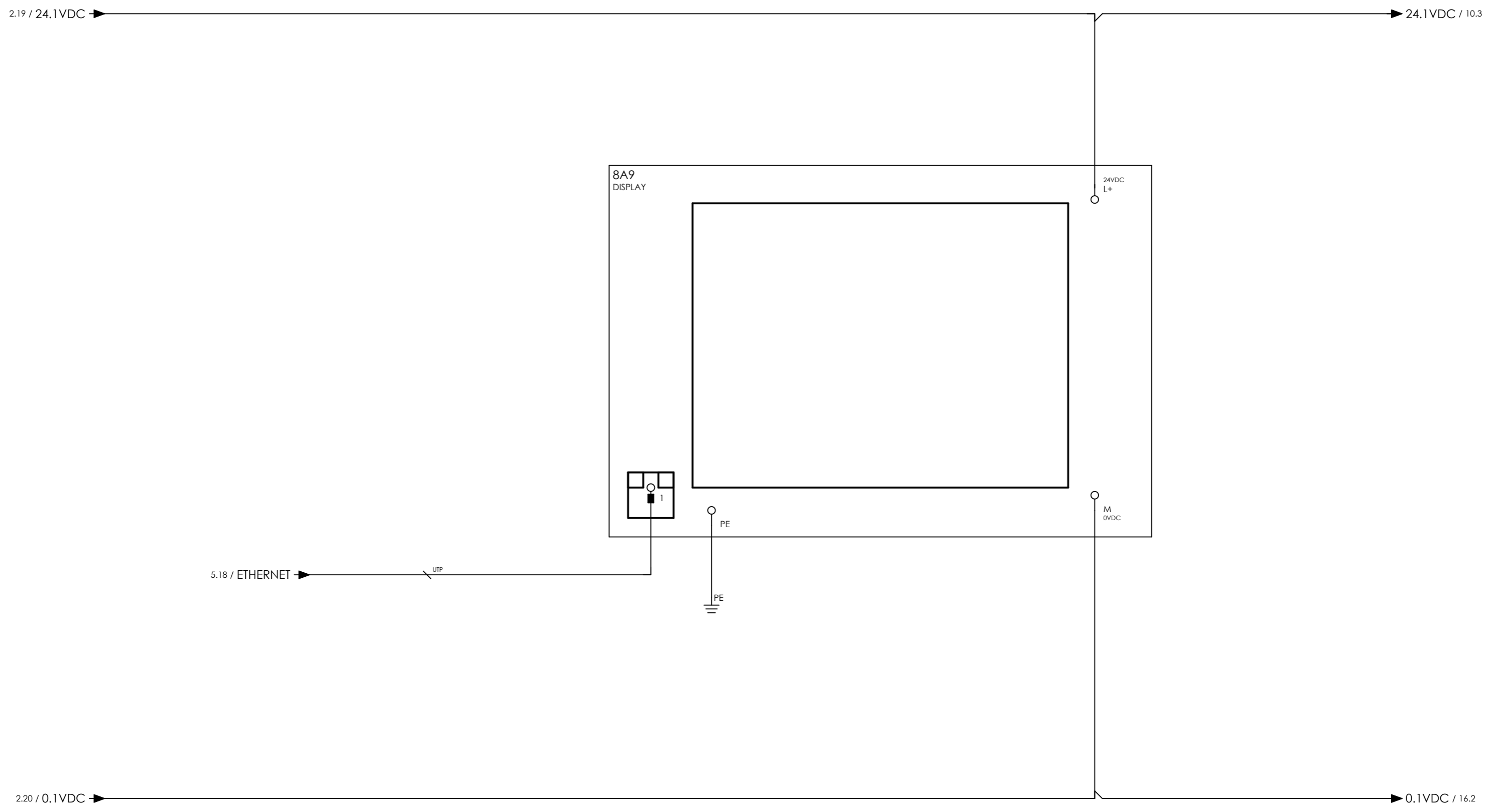
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LAST MODIFICATION DATE	01/07/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	10

= 20-C-7080
+ 20-UCPC-7002-1
CURRENT PAGE

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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045	SUBJECT		DRAWN BY	htaheh	= 20-C-7080
EQUIPMENT NO.	20-C-7080	EMPTY PAGE		CHECKED BY	RBE	+ 20-UCPC-7002-1
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05B	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		AIRPACK REF.	17811-05B	TOTAL PAGE AMOUNT	11	



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DISPLAY	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

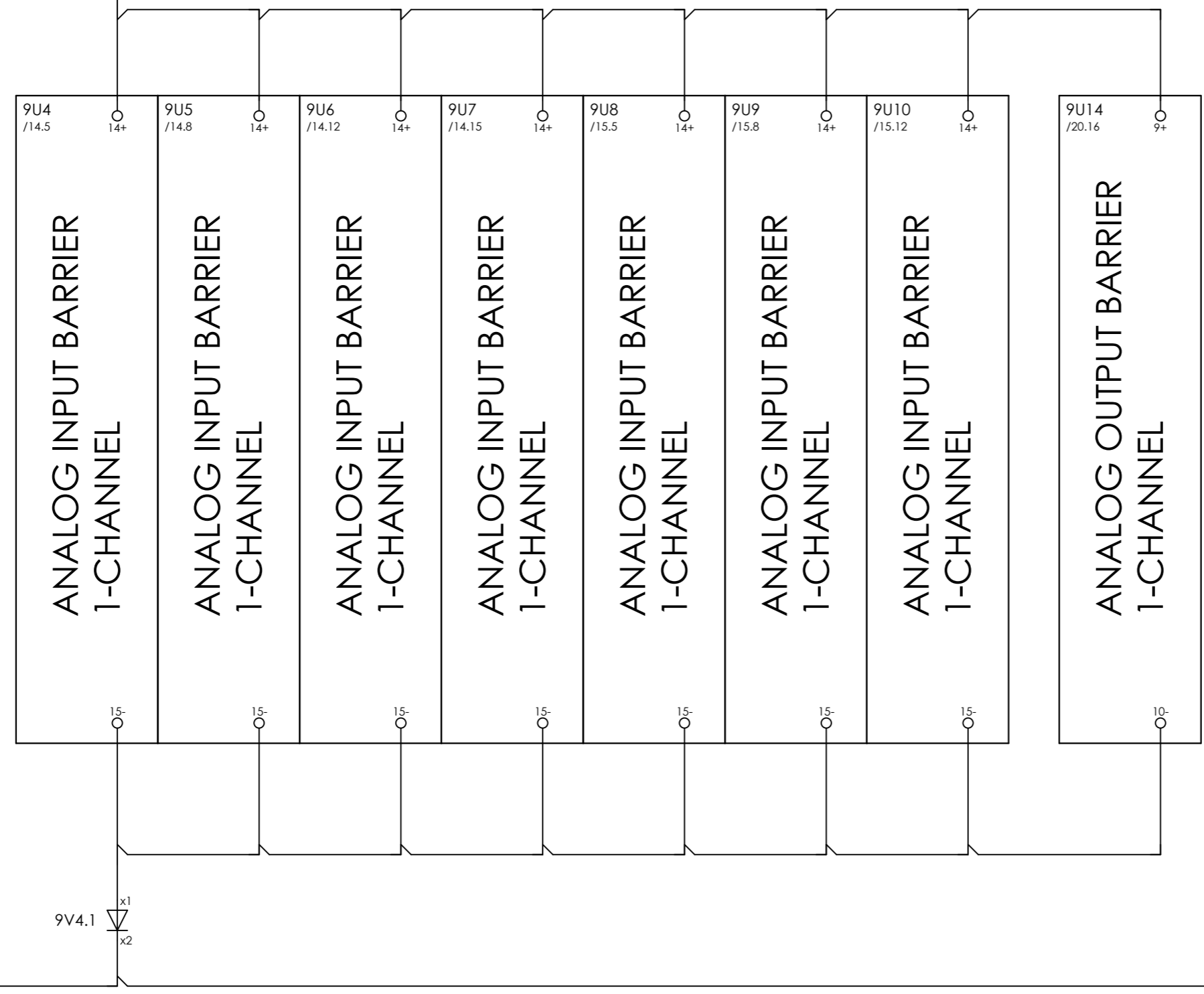
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AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	12

= 20-C-7080
+ 20-UCPC-7002-1
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6.18 / 24VDC → 24VDC / 11.3

20 % spare to be consider



6.18 / 0VDC → 0VDC / 14.11



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045	SUBJECT	BARRIERS
EQUIPMENT NO.	20-C-7080	ADAPTED TO P&ID REVISION	01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	CLIENT REF.	CLIENT REF.	Bushehr MEG Plant Project
	AIRPACK REF.	AIRPACK REF.	17811-05B

DRAWN BY	htaher	= 20-C-7080
CHECKED BY	RBE	+ 20-UCPC-7002-1
LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	13	

8.19 / 24.1VDC → 24.1VDC /

10S4 E  
GREEN

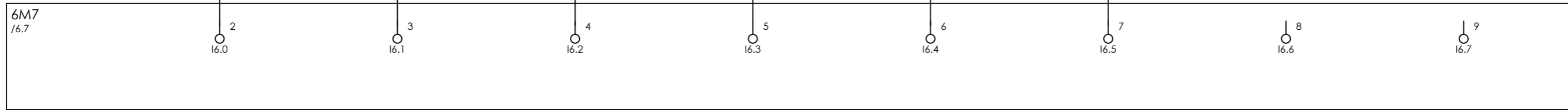
10S6 E  
RED

10S8 E  
BLACK

10S10 E  
BLACK

10S12 E  
BLACK

ESD / 3.4



COMPRESSOR B  
START  
PB-71105

COMPRESSOR B  
STOP  
PB-71106

COMPRESSOR B  
LAMPTEST  
PB-71108

COMPRESSOR B  
ACCEPT  
PB-71109

COMPRESSOR B  
RESET  
PB-71109

ESD  
ENGAGED

SPARE

SPARE

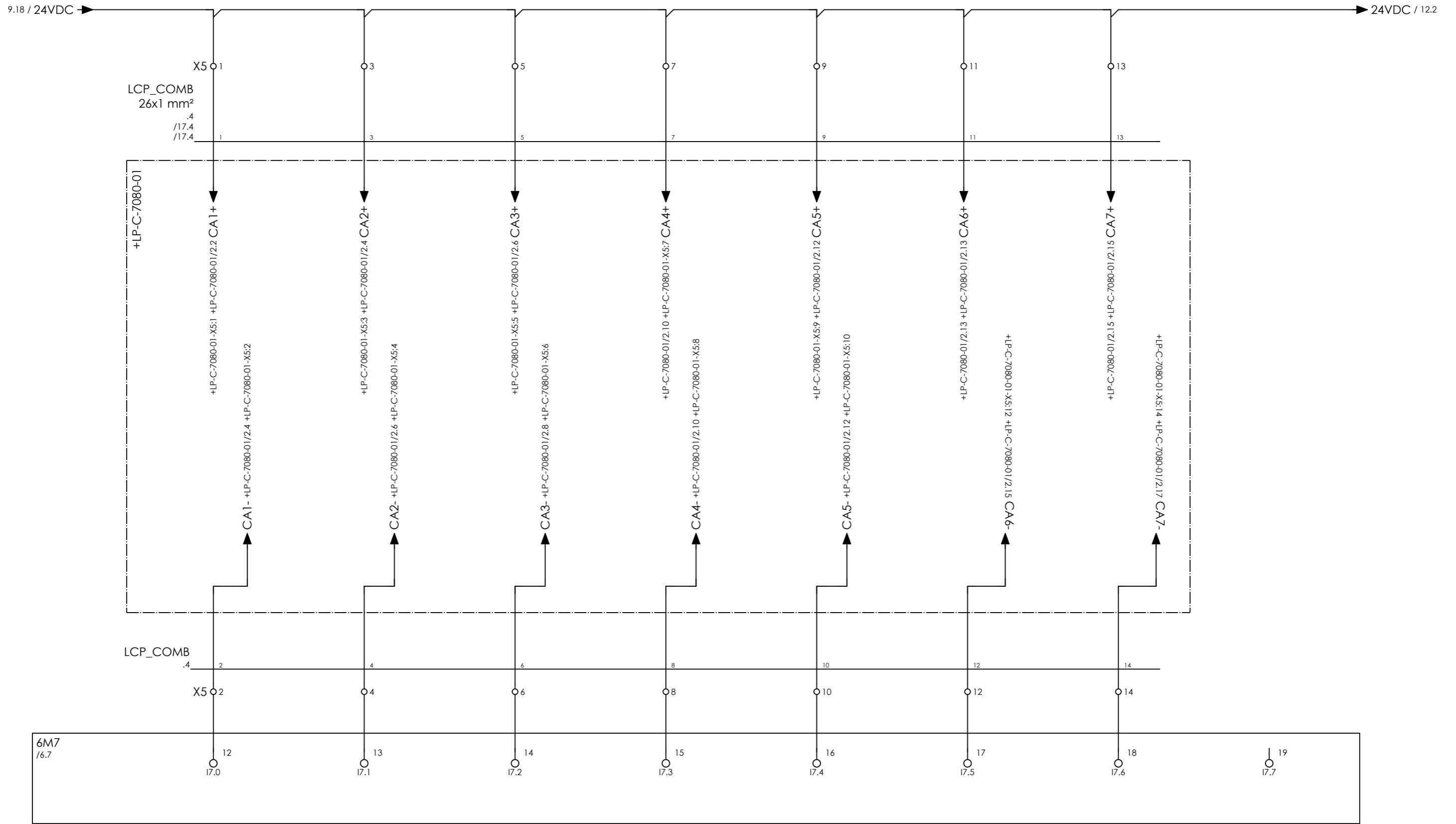


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT		DIGITAL INPUTS	
ADAPTED TO P&ID REVISION	01		
CLIENT	Bushehr Petrochemical Company (BUPC)		
CLIENT REF.	Bushehr MEG Plant Project		
AIRPACK REF.	17811-05B		

DRAWN BY	htaher	= 20-C-7080
CHECKED BY	RBE	+ 20-UCPC-7002-1
LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	14	



COMPRESSOR B  
START  
PB-71101

COMPRESSOR B  
STOP  
PB-71102

COMPRESSOR B  
LAMPTEST  
PB-71104

COMPRESSOR B  
LOCAL  
PB-71105

COMPRESSOR B  
REMOTE  
PB-71105

SPARE

SPARE

SPARE

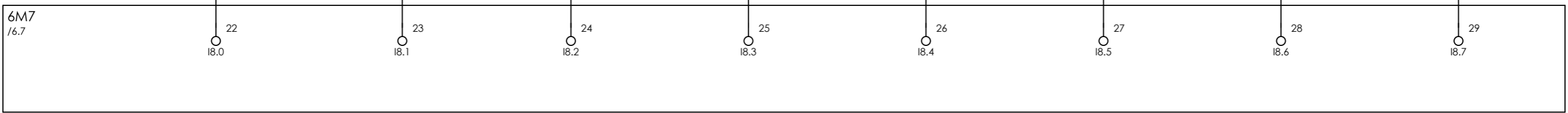


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DIGITAL INPUTS	
ADAPTED TO P&ID REVISION	01	CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK REF.	17811-05B

DRAWN BY	htaher	= 20-C-7080
CHECKED BY	RBE	+ 20-UCPC-7002-1
LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	15	

11.19 / 24VDC → 24VDC / 14.11



COMPRESSOR B MAIN MOTOR 20-C-7080-M RUNNING    COMPRESSOR B MAIN MOTOR 20-C-7080-M FAULT    COMPRESSOR B OIL HEATER 20-HE-7080 RUNNING    COMPRESSOR B OIL HEATER 20-HE-7080 FAULT    SPARE    SPARE    COMPRESSOR B PID CONTROL ALARM    TIME SYNCHRONIZATION

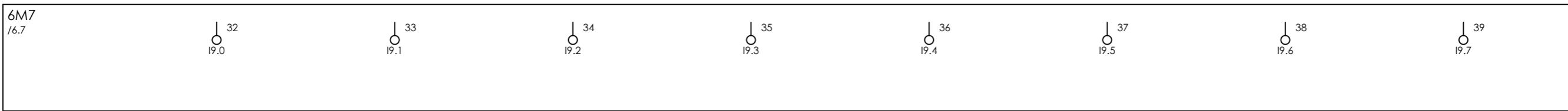


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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LAST MODIFICATION DATE	01/07/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	16

= 20-C-7080
+ 20-UCPC-7002-1
CURRENT PAGE



SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

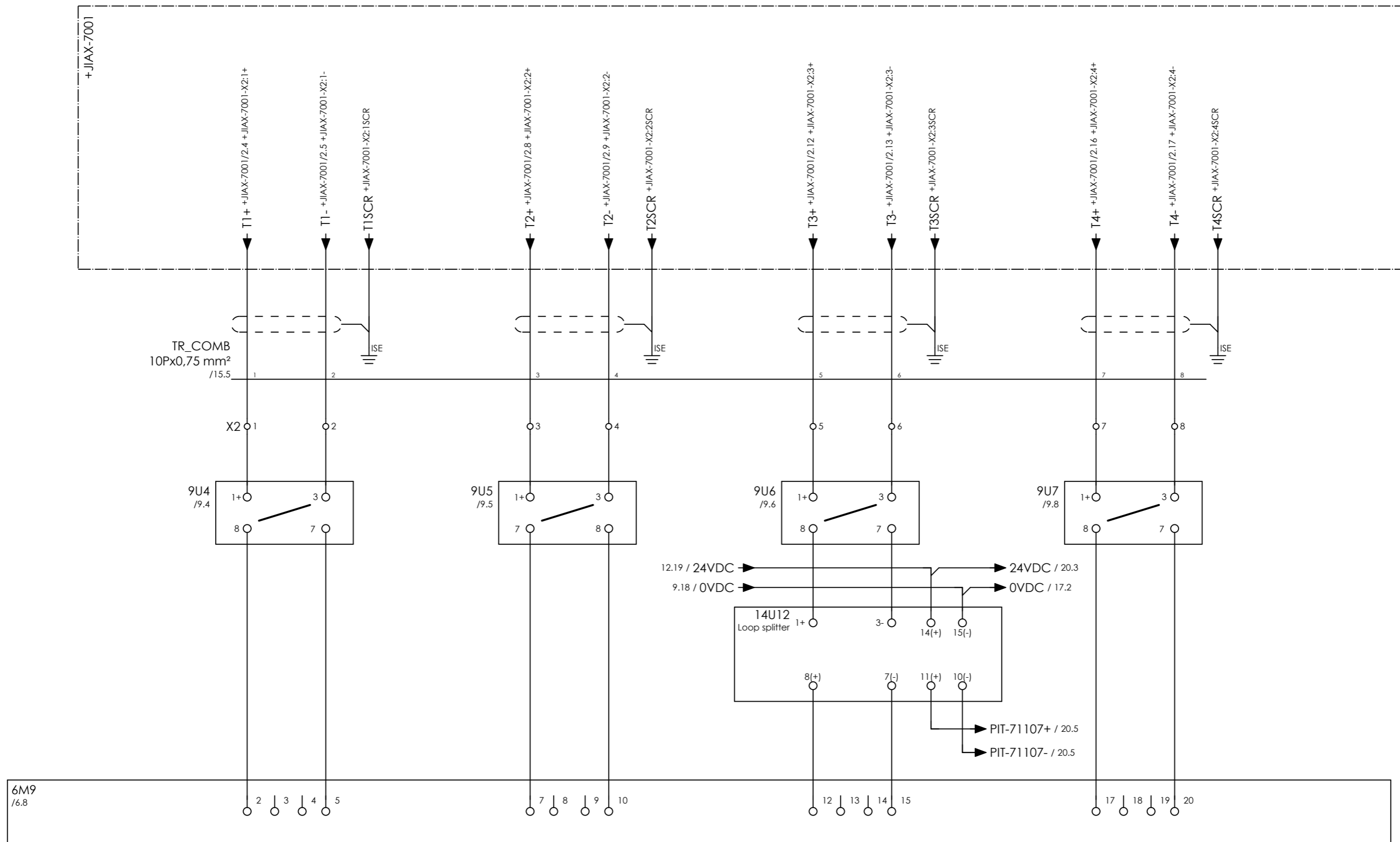


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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CHECKED BY	RBE
LAST MODIFICATION DATE	01/07/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	17

= 20-C-7080
+ 20-UCPC-7002-1
CURRENT PAGE



COMPRESSOR B  
INLET PRESSURE  
PIT-71103

COMPRESSOR B  
OIL SYSTEM PRESSURE  
PIT-71104

COMPRESSOR B  
OUTLET PPRESSURE  
PIT-71107

COMPRESSOR B  
INLET TEMPERATURE  
TIT-71101

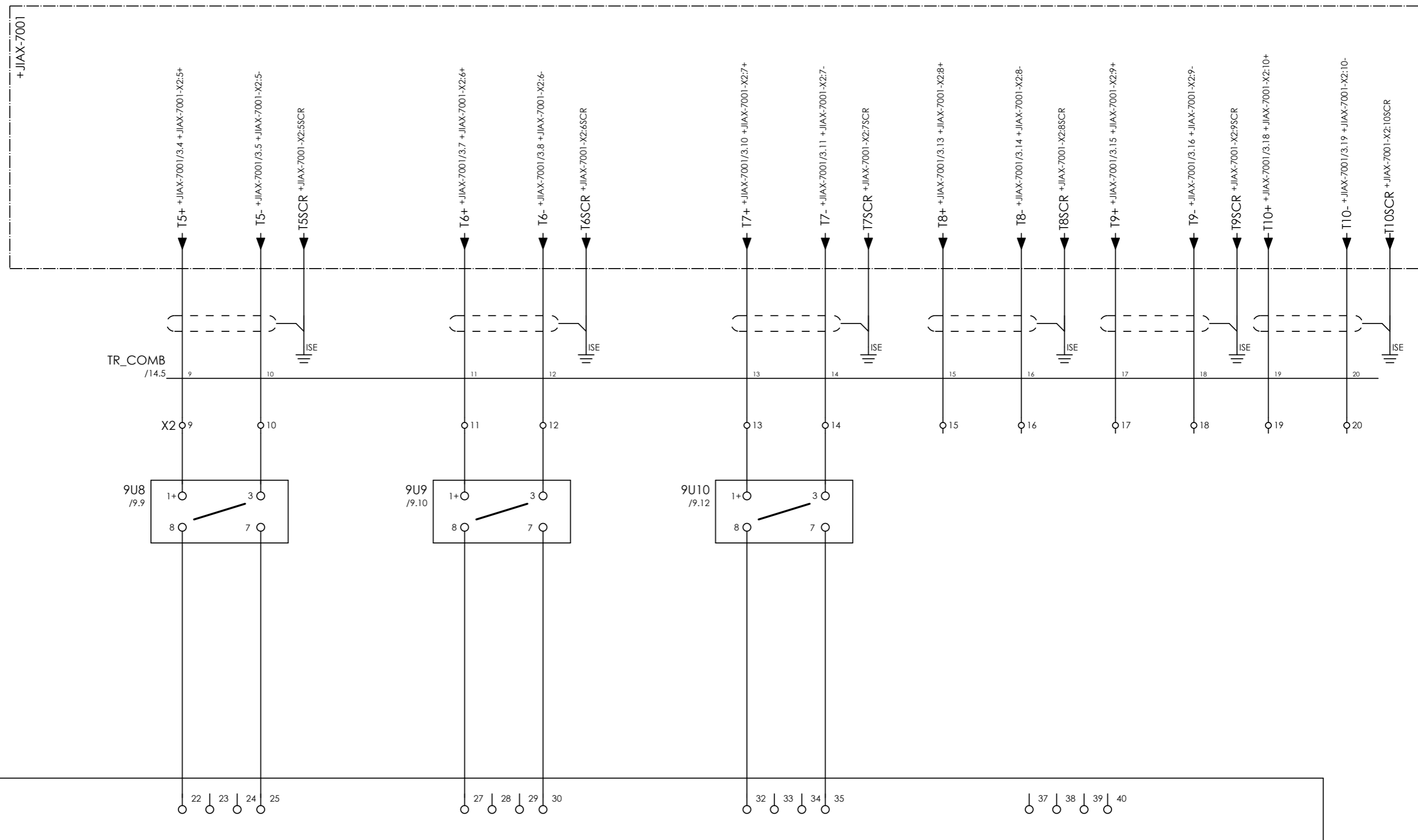


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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CHECKED BY	RBE
LAST MODIFICATION DATE	01/07/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	18

= 20-C-7080
+ 20-UCPC-7002-1
CURRENT PAGE



COMPRESSOR B  
UPSTREAM AFTER COOLER TEMPERATURE  
TIT-71102

COMPRESSOR B  
COOLING WATER OUTLET FLOW  
FT-71101

COMPRESSOR B  
BEARING VIBRATION  
VT-71101

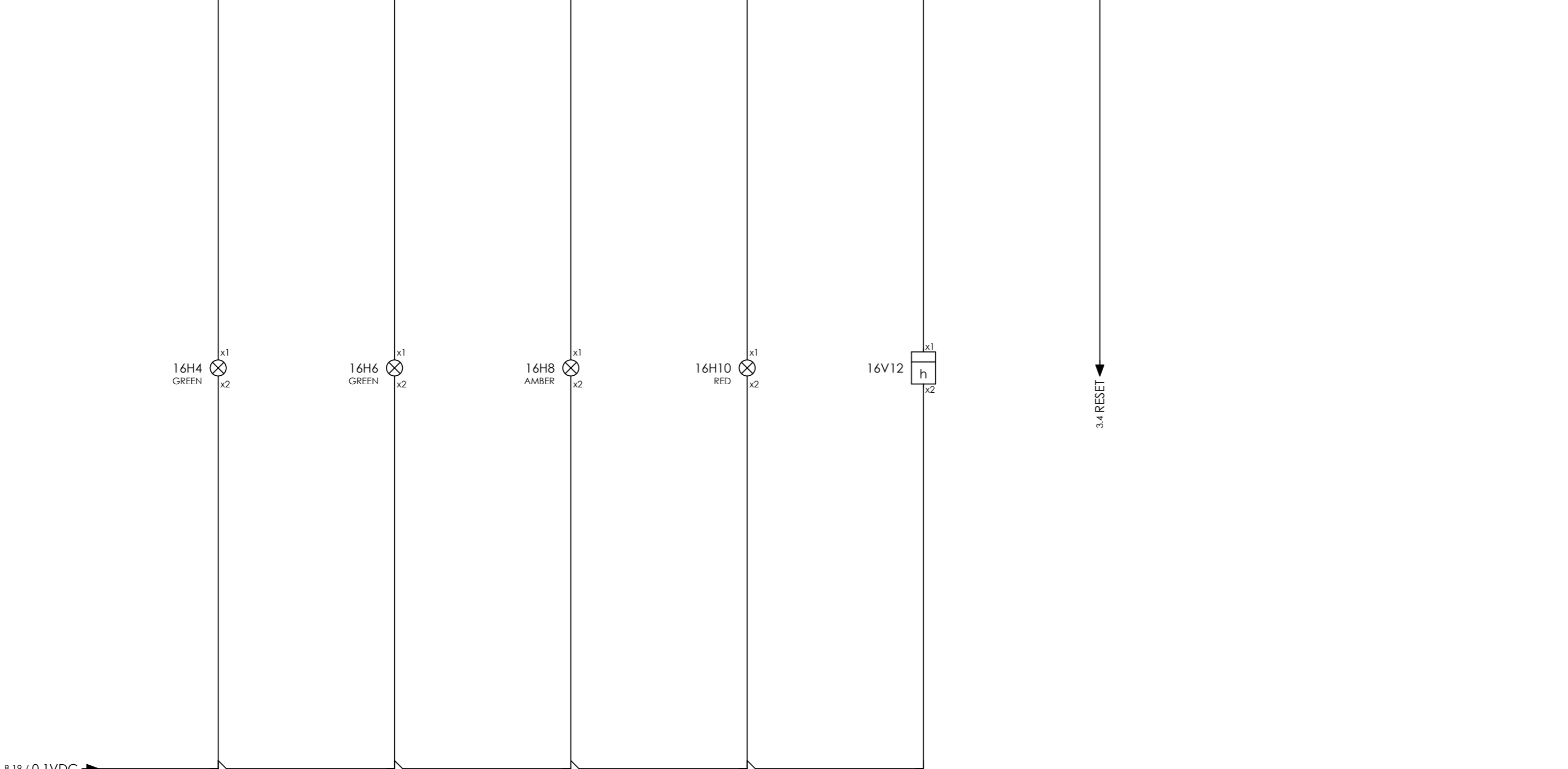
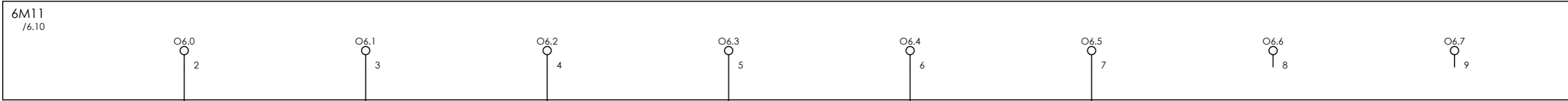
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

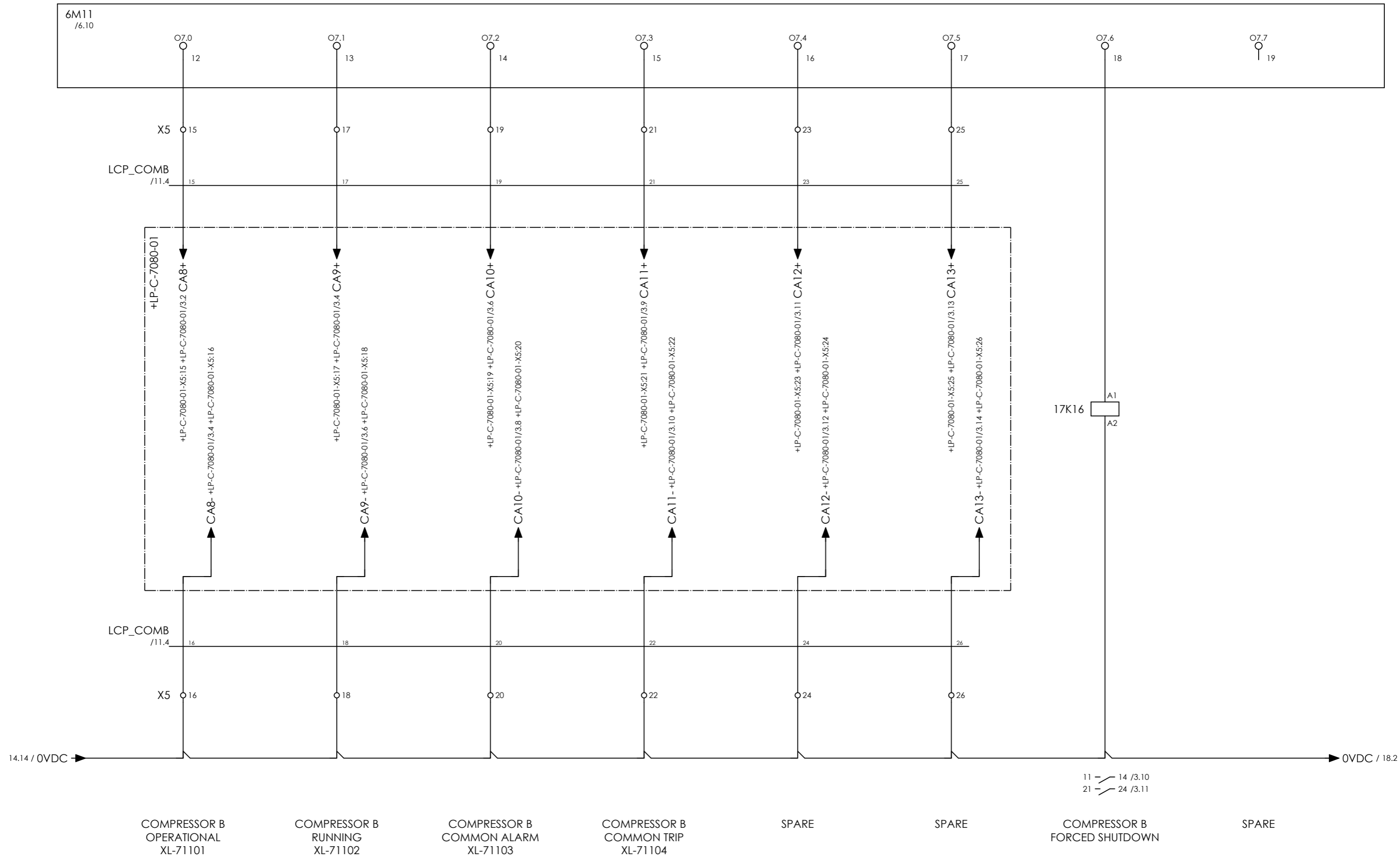
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LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	19	



COMPRESSOR B OPERATIONAL XL-71106      COMPRESSOR B RUNNING XL-71107      COMPRESSOR B COMMON ALARM XL-71108      COMPRESSOR B COMMON TRIP XL-71109      COMPRESSOR B HOURMETER HM-71101      RESET ESD RELAY      SPARE      SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045	SUBJECT		DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	DIGITAL OUTPUTS		CHECKED BY	RBE	+ 20-UCPC-7002-1
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05B	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
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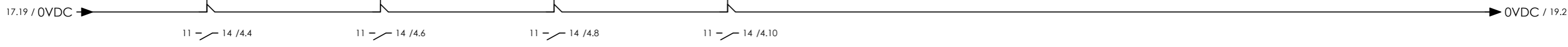
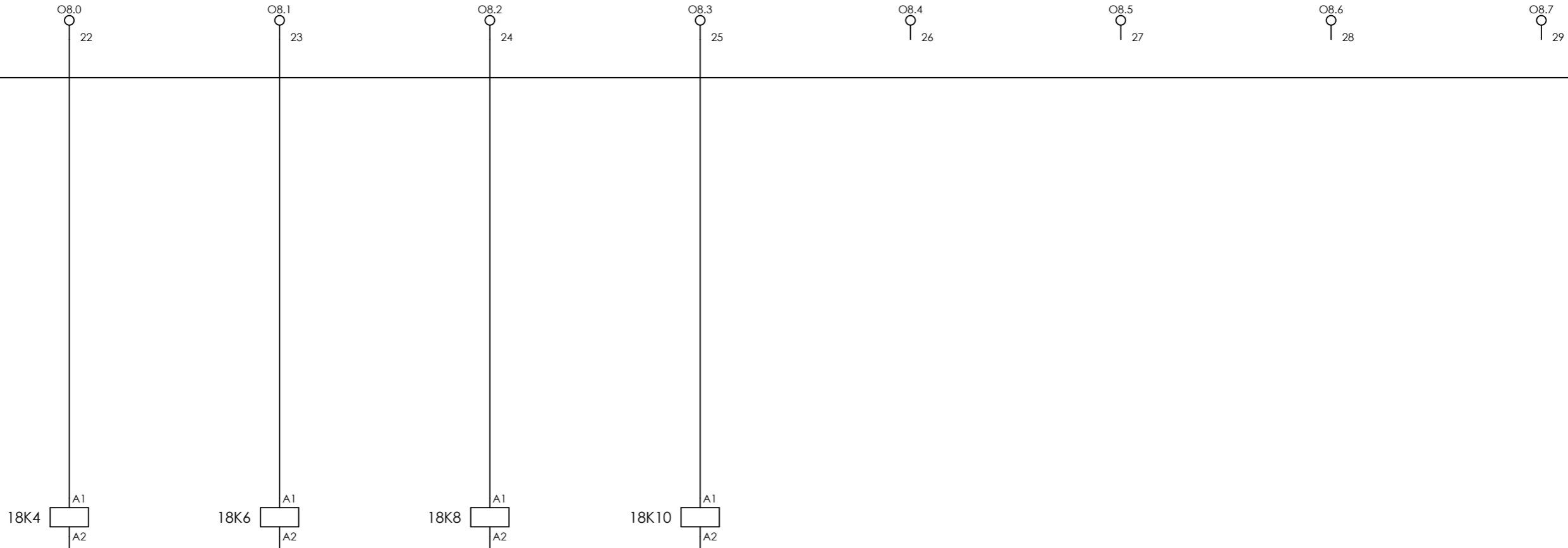
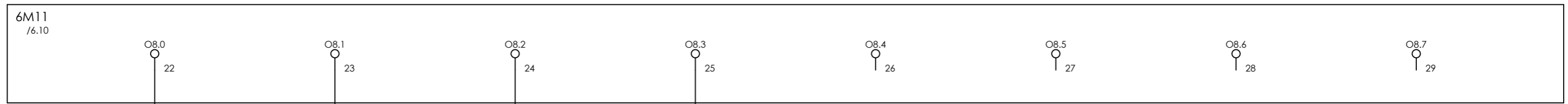


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT	
DIGITAL OUTPUTS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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LAST MODIFICATION DATE	01/07/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
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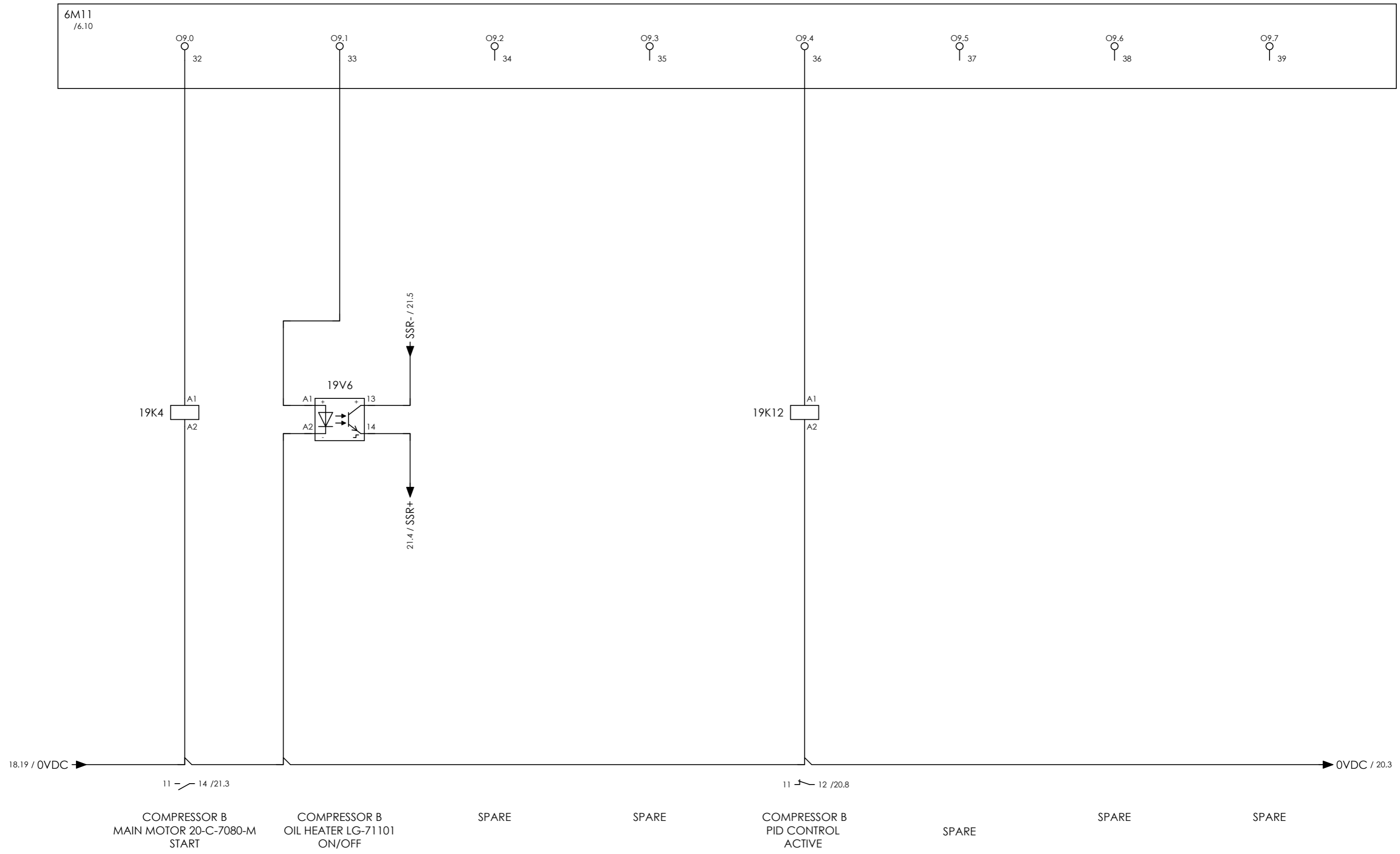
= 20-C-7080
+ 20-UCPC-7002-1
CURRENT PAGE



COMPRESSOR B INLET SOLENOID VALVE XY-71101  
 COMPRESSOR B COOLING WATER INLET SOLENOID VALVE XY-71102  
 SPARE  
 SPARE  
 SPARE  
 SPARE  
 SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045	SUBJECT		DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	DIGITAL OUTPUTS		CHECKED BY	RBE	+ 20-UCPC-7002-1
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05B	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
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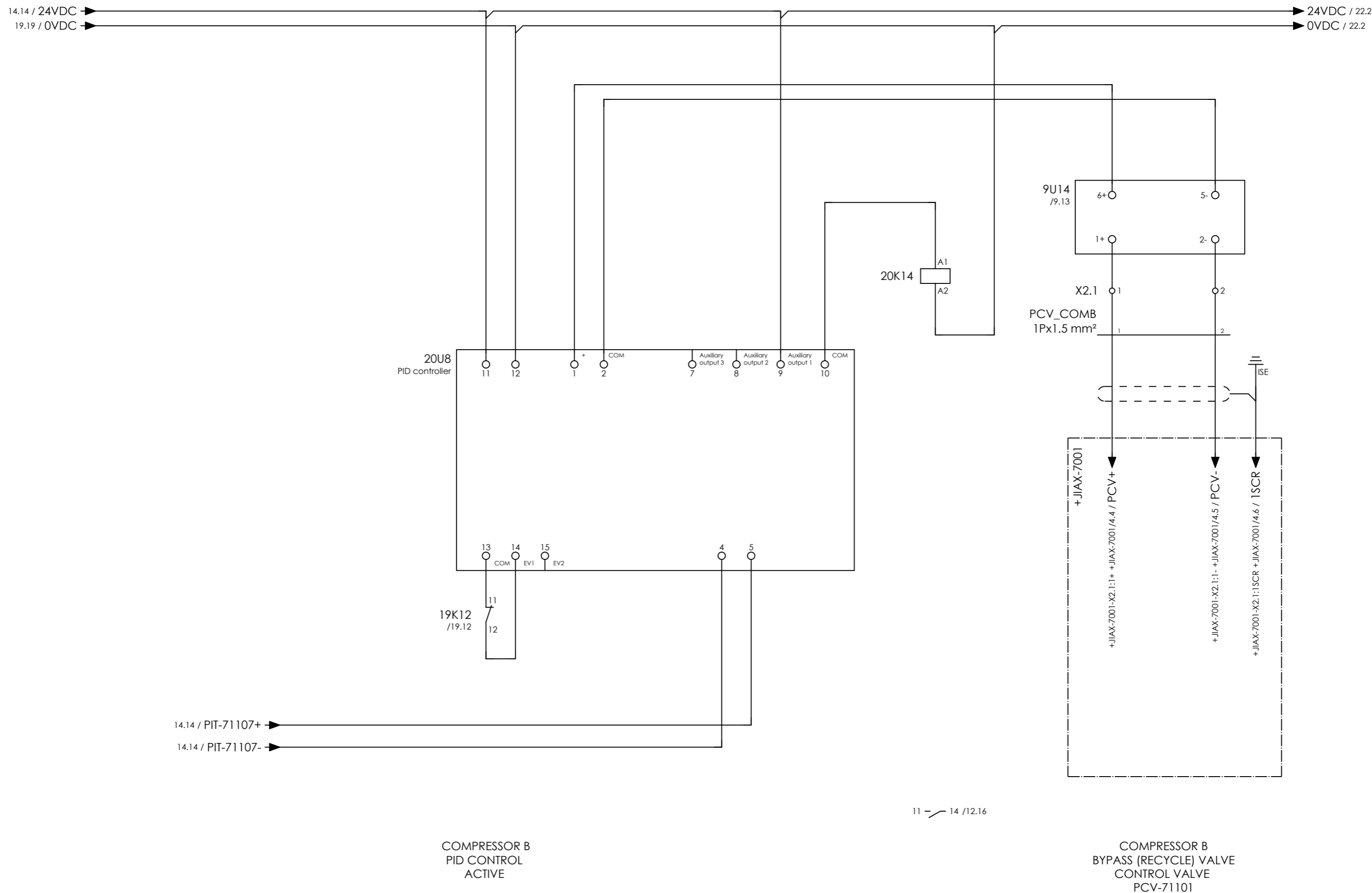


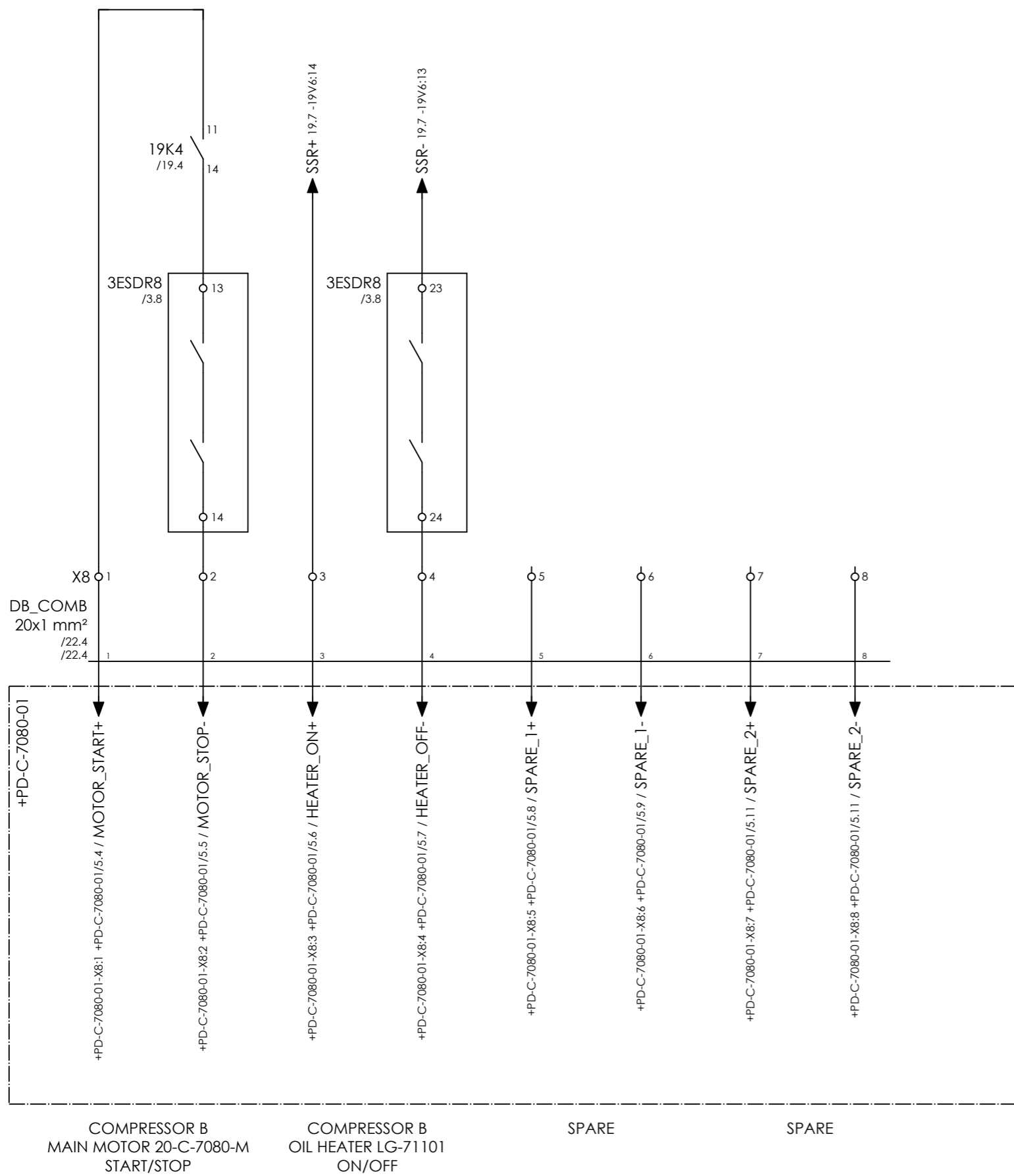
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EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT	
DIGITAL OUTPUTS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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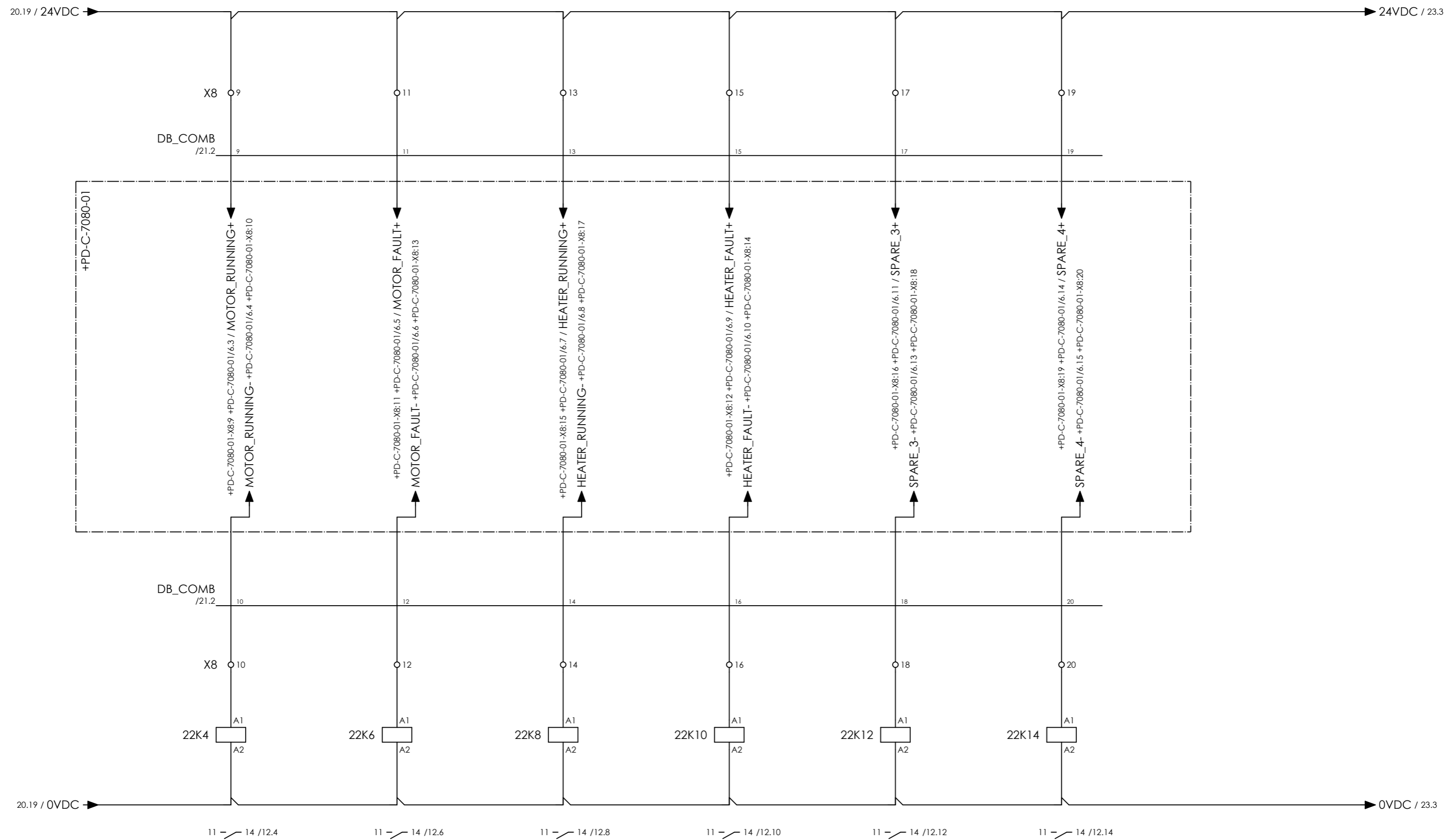
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

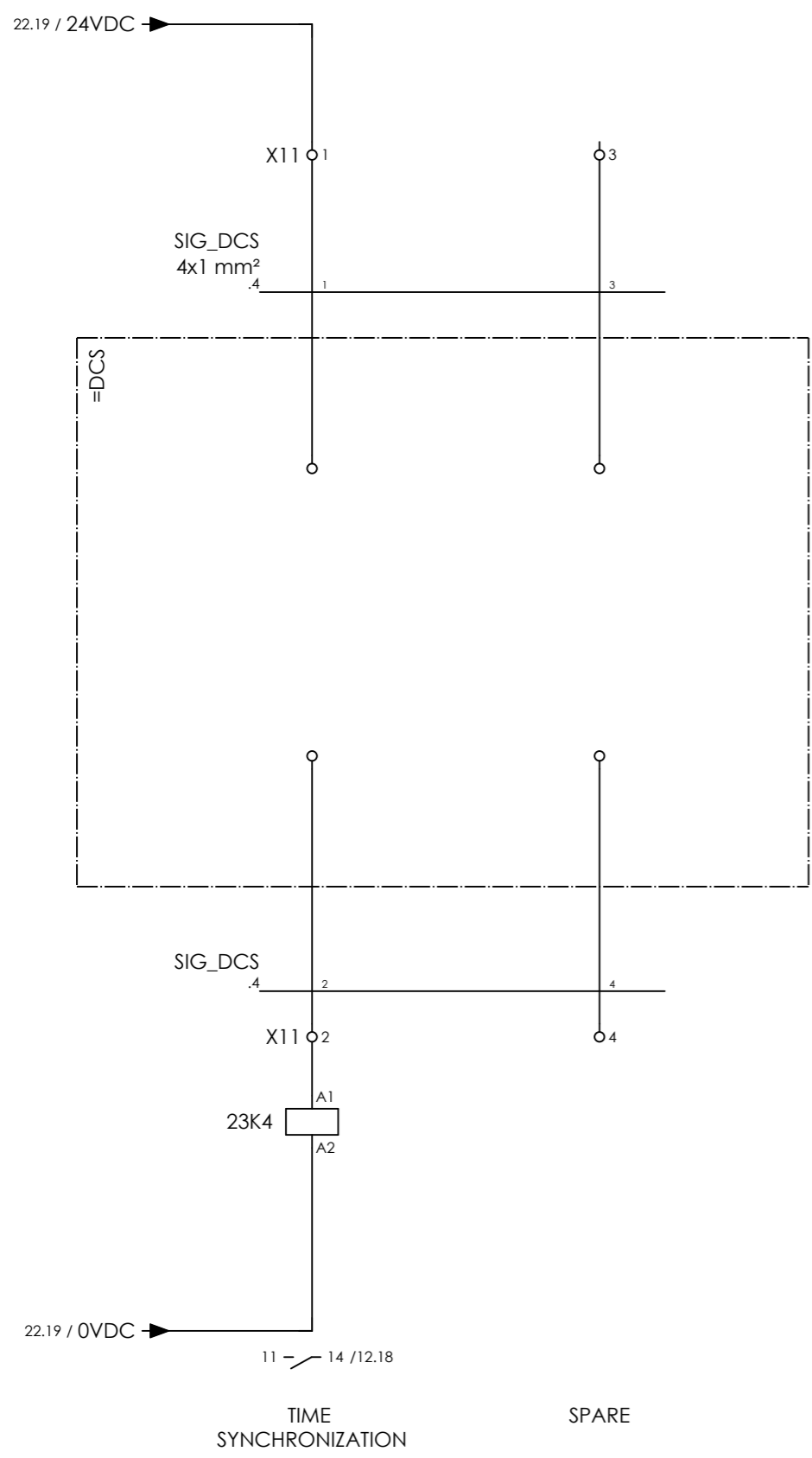
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SIGNALS TO DISTRIBUTION BOARD		CHECKED BY		RBE		+ 20-UCPC-7002-1	
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	01/07/2021		CURRENT PAGE		
CLIENT	Bushehr Petrochemical Company (BUPC)		AIRPACK DWG NO.	17811-05B			
CLIENT REF.	Bushehr MEG Plant Project		REVISION	01			
AIRPACK REF.	17811-05B		TOTAL PAGE AMOUNT	25			



11 - 14 /12.4      11 - 14 /12.6      11 - 14 /12.8      11 - 14 /12.10      11 - 14 /12.12      11 - 14 /12.14  
 COMPRESSOR B MAIN MOTOR 20-C-7080-M RUNNING    COMPRESSOR B MAIN MOTOR 20-C-7080-M FAULT    COMPRESSOR B OIL HEATER 20-HE-7080 RUNNING    COMPRESSOR B OIL HEATER 20-HE-7080 FAULT    SPARE    SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045	SUBJECT		DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	SIGNALS FROM DISTRIBUTION BOARD		CHECKED BY	RBE	+ 20-UCPC-7002-1
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05B	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		AIRPACK REF.	17811-05B	TOTAL PAGE AMOUNT	26	



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SIGNALS FROM DCS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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CHECKED BY	RBE
LAST MODIFICATION DATE	01/07/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	27

= 20-C-7080
+ 20-UCPC-7002-1
CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-7080+20-UCPC-7002-1-X0 POWER SUPPLY 110VAC / 230VAC FROM CUSTOMER							Cable name	
Terminal	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	
-PS_02	3x2.5 sqmm	1	.	=CUSTOMER-L	-2S2	2	.	=CUSTOMER-N	4	
-PS_01	3x2.5 sqmm	2	.	=CUSTOMER-N	-2S2	3	.	=CUSTOMER-PE	PE	
-PS_00	3x2.5 sqmm	3	.	=CUSTOMER-PE		4	.	=CUSTOMER-L	2	
		4	.	=CUSTOMER-L	-2S4	5	.	=CUSTOMER-N	4	
		5	.	=CUSTOMER-N	-2S4	6	.	=CUSTOMER-PE	PE	
		6	.	=CUSTOMER-PE		7	.	=CUSTOMER-L	2	
		7	.	=CUSTOMER-L	-2S6	8	.	=CUSTOMER-N	4	
		8	.	=CUSTOMER-N	-2S6	9	.	=CUSTOMER-PE	PE	
		9	.	=CUSTOMER-PE						



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0045  
 EQUIPMENT NO. 20-C-7080  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-7080+20-UCPC-7002-1-X0  
 ADAPTED TO P&ID REVISION 01  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05B

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 AIRPACK DWG NO. 17811-05B  
 REVISION 01  
 TOTAL PAGE AMOUNT 28

= 20-C-7080  
 + 20-UCPC-7002-1  
 CURRENT PAGE  
 24

# Terminal diagram

Cable name		Strip =20-C-7080+20-UCPC-7002-1-X1 SOLENOIDS										Cable name	
Terminal	Connection point	Target designation	Terminal	Connection point	Jumper	Target designation	Connection point	Terminal	Connection point	Target designation	Terminal	Connection point	
1	1	+JNDX-7000-X1	1	1		-20K4	14						
2	2	+JNDX-7000-X1	2	2	•	-3ESDR2	24	•					
3	3	+JNDX-7000-X1	3	3		-20K6	14						
4	4	+JNDX-7000-X1	4	4	•			•					
5	5	+JNDX-7000-X1	5	5		-20K8	14						
6	6	+JNDX-7000-X1	6	6	•			•					
7	7	+JNDX-7000-X1	7	7		-20K10	14						
8	8	+JNDX-7000-X1	8	8	•			•					
9	9	+JNDX-7000-X1	9	9									
10	10	+JNDX-7000-X1	10	10									



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0045  
 EQUIPMENT NO. 20-C-7080  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-7080+20-UCPC-7002-1-X1  
 ADAPTED TO P&ID REVISION 01  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05B

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 AIRPACK DWG NO. 17811-05B  
 REVISION 01  
 TOTAL PAGE AMOUNT 29

= 20-C-7080  
 + 20-UCPC-7002-1  
 CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-7080+20-UCPC-7002-1-X2 ANALOGUE INPUTS						Cable name		
Terminal	Connection point	Terminal	Jumper	Target designation	Connection point	Target designation	Connection point	Terminal	Jumper	Target designation
-TR_COMB	10Px0,75 mm²	1	.	+JIAX-7001-X2	1	-9U4	1+			
		2	.	+JIAX-7001-X2	2	-9U4	3			
		3	.	+JIAX-7001-X2	3	-9U5	1+			
		4	.	+JIAX-7001-X2	4	-9U5	3			
		5	.	+JIAX-7001-X2	5	-9U6	1+			
		6	.	+JIAX-7001-X2	6	-9U6	3			
		7	.	+JIAX-7001-X2	7	-9U7	1+			
		8	.	+JIAX-7001-X2	8	-9U7	3			
		9	.	+JIAX-7001-X2	9	-9U8	1+			
		10	.	+JIAX-7001-X2	10	-9U8	3			
		11	.	+JIAX-7001-X2	11	-9U9	1+			
		12	.	+JIAX-7001-X2	12	-9U9	3			
		13	.	+JIAX-7001-X2	13	-9U10	1+			
		14	.	+JIAX-7001-X2	14	-9U10	3			
		15	.	+JIAX-7001-X2	15					
		16	.	+JIAX-7001-X2	16					
		17	.	+JIAX-7001-X2	17					
		18	.	+JIAX-7001-X2	18					
		19	.	+JIAX-7001-X2	19					
		20	.	+JIAX-7001-X2	20					



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 EQUIPMENT NO. 20-C-7080  
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SUBJECT Terminal diagram =20-C-7080+20-UCPC-7002-1-X2  
 ADAPTED TO P&ID REVISION 01  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05B

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 + 20-UCPC-7002-1  
 CURRENT PAGE  
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# Terminal diagram

Cable name		Strip		Terminal		Connection point		Jumper		Target designation		Connection point		Target designation	
=20-C-7080+20-UCPC-7002-1-X2.1		ANALOGUE OUTPUTS		1	2	1	2	.	.	-22U8	-22U8	1	2		
-PCV_COMB		1Px1.5 mm²		1	2	1	2					1	2		



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SUBJECT Terminal diagram =20-C-7080+20-UCPC-7002-1-X2.1  
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 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05B

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 AIRPACK DWG NO. 17811-05B  
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= 20-C-7080  
 + 20-UCPC-7002-1  
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# Terminal diagram

Cable name		Strip =20-C-7080+20-UCPC-7002-1-X5 CONNECTION PUSHBUTTONS / LAMPS										Cable name	
Terminal	Connection point	Target designation	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	
-LCP_COMB	26x1 mm <sup>2</sup>		1	•	-9V4	1	1	•	-9V4	X1			
		+LP-C-7080-01-X5	2	•	-6M7	2	2	•	-6M7	12			
		+LP-C-7080-01-X5	3	•	-6M7	3	3	•	-6M7	13			
		+LP-C-7080-01-X5	4	•	-6M7	4	4	•	-6M7	14			
		+LP-C-7080-01-X5	5	•	-6M7	5	5	•	-6M7	15			
		+LP-C-7080-01-X5	6	•	-6M7	6	6	•	-6M7	16			
		+LP-C-7080-01-X5	7	•	-6M7	7	7	•	-6M7	17			
		+LP-C-7080-01-X5	8	•	-6M7	8	8	•	-6M7	18			
		+LP-C-7080-01-X5	9	•	-6M7	9	9	•	-6M7	19			
		+LP-C-7080-01-X5	10	•	-6M7	10	10	•	-6M7	20			
		+LP-C-7080-01-X5	11	•	-24K4	11	11	•	-24K4	15(-)			
		+LP-C-7080-01-X5	12	•	-6M7	12	12	•	-6M7	13			
		+LP-C-7080-01-X5	13	•	-6M7	13	13	•	-6M7	14			
		+LP-C-7080-01-X5	14	•	-6M7	14	14	•	-6M7	15			
		+LP-C-7080-01-X5	15	•	-6M11	15	15	•	-6M11	16			
		+LP-C-7080-01-X5	16	•	-14U8	16	16	•	-14U8	17			
		+LP-C-7080-01-X5	17	•	-6M11	17	17	•	-6M11	18			
		+LP-C-7080-01-X5	18	•	-6M11	18	18	•	-6M11	19			
		+LP-C-7080-01-X5	19	•	-6M11	19	19	•	-6M11	20			
		+LP-C-7080-01-X5	20	•	-6M11	20	20	•	-6M11	21			
		+LP-C-7080-01-X5	21	•	-6M11	21	21	•	-6M11	22			
		+LP-C-7080-01-X5	22	•	-6M11	22	22	•	-6M11	23			
		+LP-C-7080-01-X5	23	•	-6M11	23	23	•	-6M11	24			
		+LP-C-7080-01-X5	24	•	-6M11	24	24	•	-6M11	25			
		+LP-C-7080-01-X5	25	•	-6M11	25	25	•	-6M11	26			
		+LP-C-7080-01-X5	26	•	-19K16	26	26	•	-19K16	A2			



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 CLIENT REF. Bushehr MEG Plant Project  
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 + 20-UCPC-7002-1  
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# TERMINAL STRIP DEFINITION

X1 = CONNECTION SOLENOIDS

## JUNCTION BOX

JNDX-7000

Solenoid valves shall be I.S. with 24 VDC voltage rating.

JIDX-C7080-xx  
xx=your sequence

- General comments for JB wiring**
- Cable type, color and gland size shall be specified and followed same as attached file.
  - JB and LCP layout shall be added same as attached file.
  - Entry for multi-pair cables to junction box shall be from bottom.
  - The minimum degree of protection shall be IP 65.
  - Terminals shall be certified EEx 'e' (for EEXi and Non EEXi signals) in accordance with IEC/CENELEC standards IEC 60079.
  - The following color codes shall be considered for body of each Junction box:
    - EEx "e" JB, shall be green (RAL 6021).
    - EEx "d" JB, shall be gray (RAL 9006).
    - Each junction box in Intrinsically Safe circuit shall be blue (RAL 5015).
  - Each box shall have terminal blocks with the following characteristics:
    - Terminal blocks shall be spring loaded Klippon type and vibration proof
    - Rating of terminal blocks shall be 600V as minimum
    - Number of terminals in each junction box shall be 16 or 31 or 41 or 61
  - Screens shall be insulated from earth at instrument side. They shall be continuous through to the control room marshaling cabinet where they will be connected to the clean system.

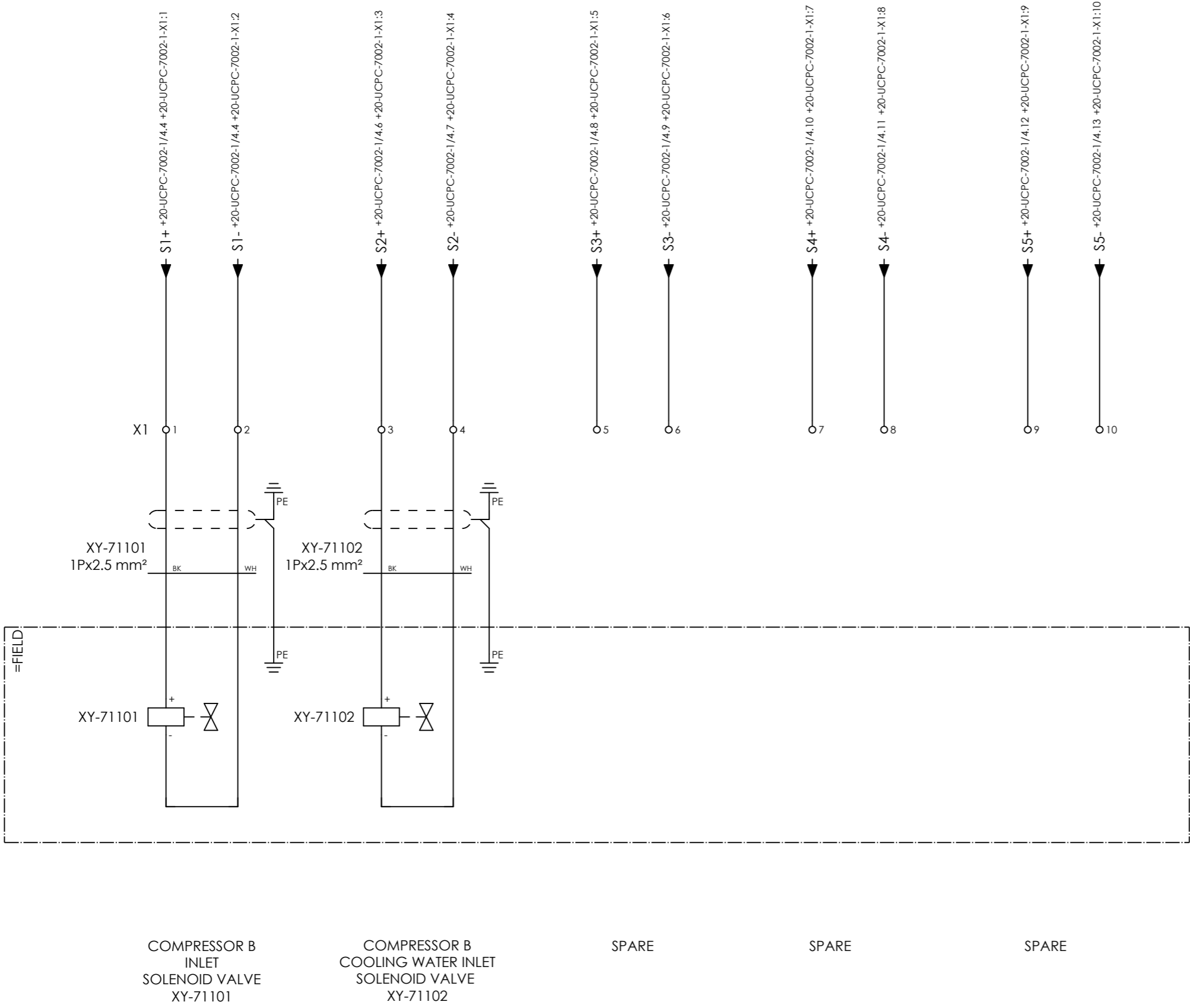


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT	
TERMINAL STRIP DEFINITION	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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+ JNDX-7000
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EQUIPMENT NO.	20-C-7080
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SUBJECT CONNECTION SOLENOIDS	
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REVISION	
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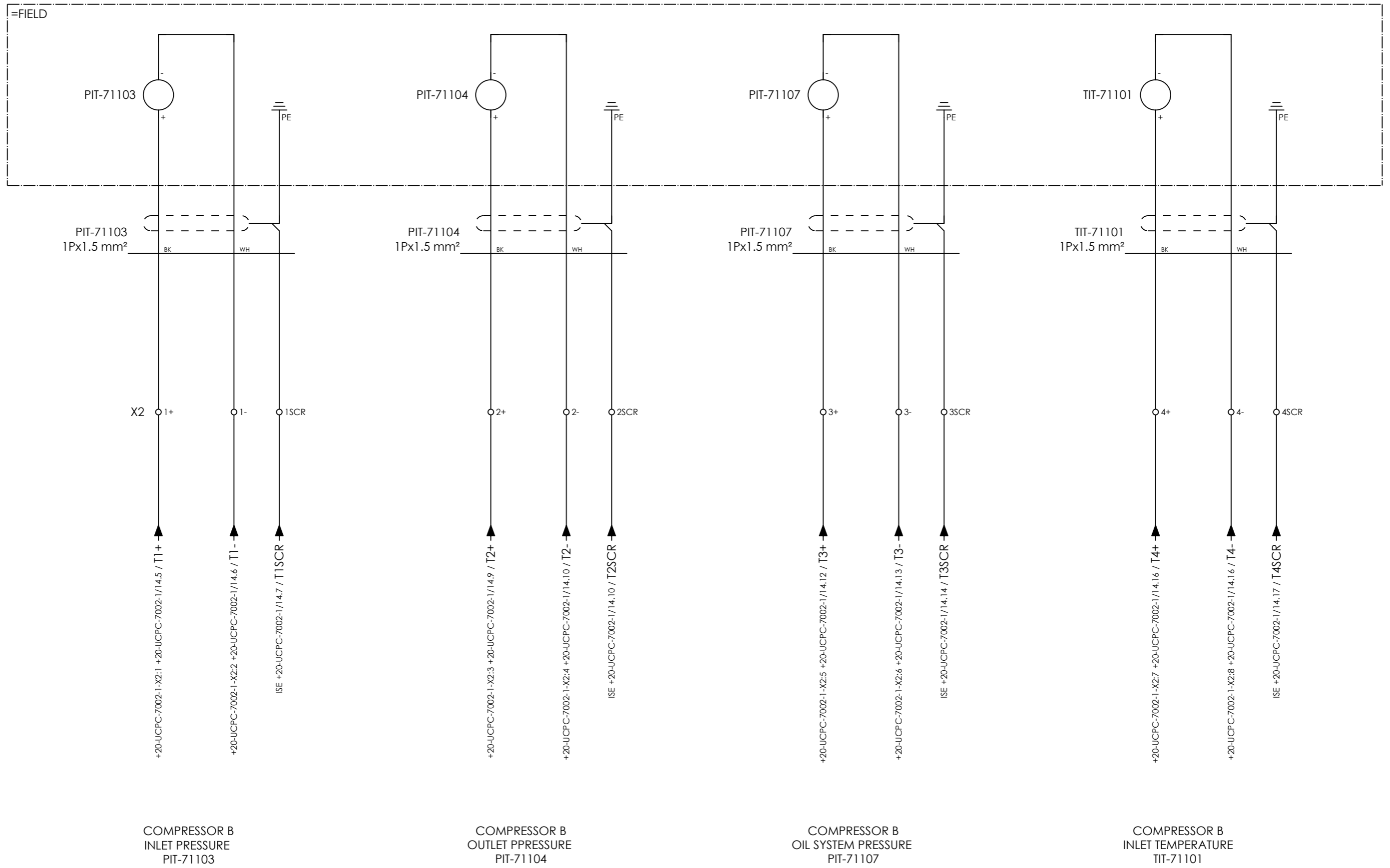
# JUNCTION BOX JIAX-7001

## TERMINAL STRIP DEFINITION

X2 = CONNECTION TRANSMITTERS  
X2.1 = CONNECTION CONTROL VALVE



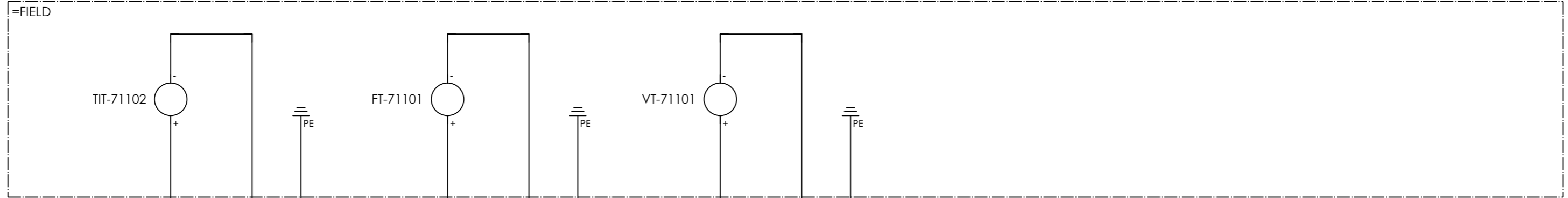
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION		
		AIRPACK REF.	17811-05B	PAGE NUMBER	94	



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SUBJECT CONNECTION TRANSMITTERS	
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TIT-71102  
1Px1.5 mm<sup>2</sup>

FT-71101  
1Px1.5 mm<sup>2</sup>

VT-71101  
1Px1.5 mm<sup>2</sup>

X2 5+ 5- 5SCR

6+ 6- 6SCR

7+ 7- 7SCR

8+ 8- 8SCR

9+ 9- 9SCR

10+ 10- 10SCR

+20-UCPC-7002-1-X2:9 +20-UCPC-7002-1/15.5 / T5+  
+20-UCPC-7002-1-X2:10 +20-UCPC-7002-1/15.6 / T5-  
ISE +20-UCPC-7002-1/15.7 / T5SCR

+20-UCPC-7002-1-X2:11 +20-UCPC-7002-1/15.9 / T6+  
+20-UCPC-7002-1-X2:12 +20-UCPC-7002-1/15.10 / T6-  
ISE +20-UCPC-7002-1/15.10 / T6SCR

+20-UCPC-7002-1-X2:13 +20-UCPC-7002-1/15.12 / T7+  
+20-UCPC-7002-1-X2:14 +20-UCPC-7002-1/15.13 / T7-  
ISE +20-UCPC-7002-1/15.14 / T7SCR

+20-UCPC-7002-1-X2:15 +20-UCPC-7002-1/15.14 / T8+  
+20-UCPC-7002-1-X2:16 +20-UCPC-7002-1/15.15 / T8-  
ISE +20-UCPC-7002-1/15.16 / T8SCR

+20-UCPC-7002-1-X2:17 +20-UCPC-7002-1/15.17 / T9+  
+20-UCPC-7002-1-X2:18 +20-UCPC-7002-1/15.18 / T9-  
ISE +20-UCPC-7002-1/15.18 / T9SCR

+20-UCPC-7002-1-X2:19 +20-UCPC-7002-1/15.18 / T10+  
+20-UCPC-7002-1-X2:20 +20-UCPC-7002-1/15.19 / T10-  
ISE +20-UCPC-7002-1/15.20 / T10SCR

COMPRESSOR B  
UPSTREAM AFTER COOLER TEMPERATURE  
TIT-71102

COMPRESSOR B  
COOLING WATER OUTLET FLOW  
FT-71101

COMPRESSOR B  
BEARING VIBRATION  
VT-71101

SPARE

SPARE

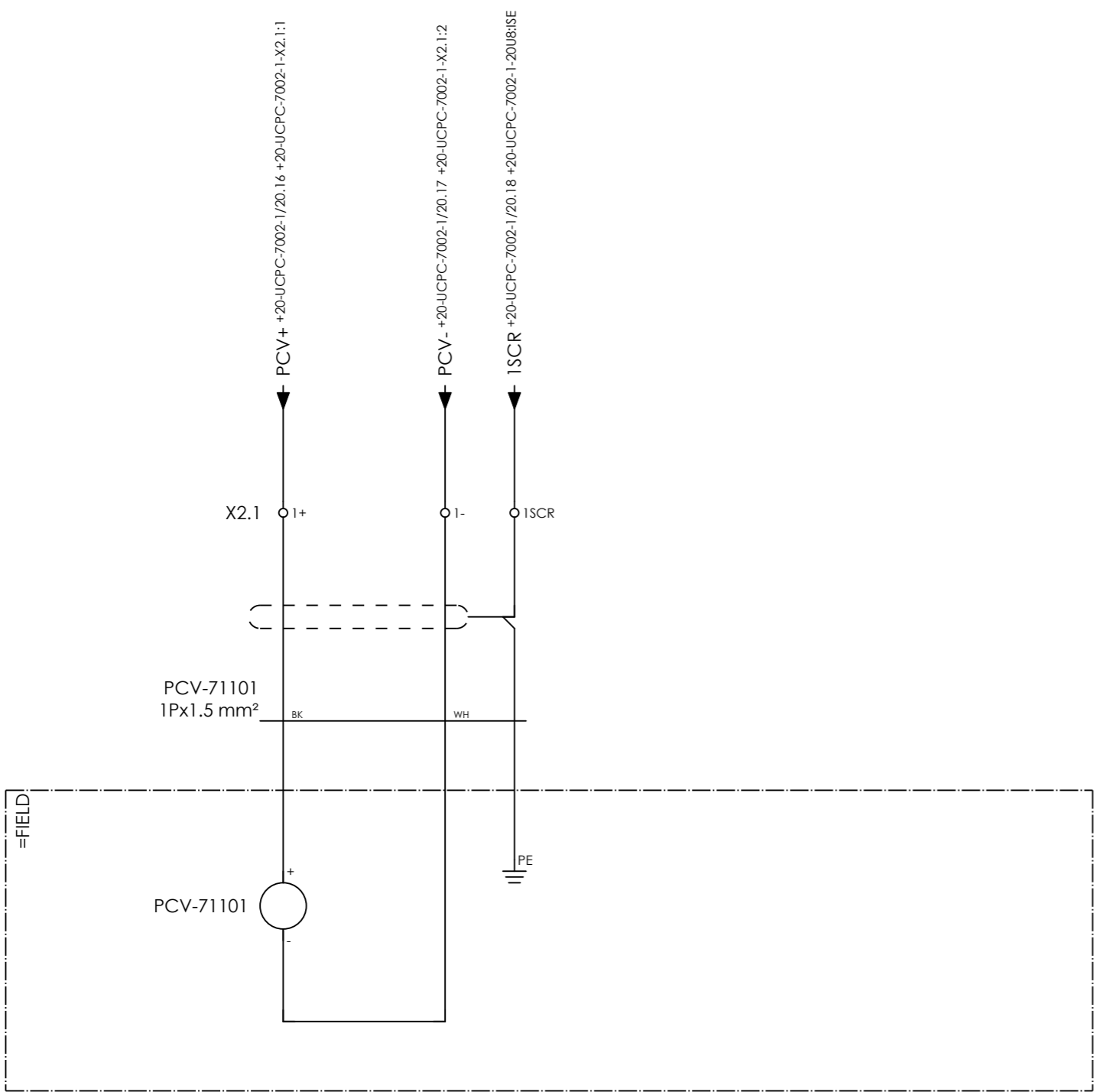
SPARE



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SUBJECT CONNECTION TRANSMITTERS	
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AIRPACK REF.	17811-05B

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COMPRESSOR B  
 BYPASS (RECYCLE) VALVE  
 CONTROL VALVE  
 PCV-71101



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EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION CONTROL VALVE	
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AIRPACK REF.	17811-05B

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# Terminal diagram

Cable name		Strip =20-C-7080+JIAX-7001-X2 CONNECTION TRANSMITTERS										Cable name	
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
=FIELD-PIT-71103	+	1+	.	+20-UCPC-7002-1-X2	1	1+	.						
=FIELD-PIT-71103	-	1-	.	+20-UCPC-7002-1-X2	2	1-	.						
		1SCR				1SCR							
=FIELD-PIT-71104	+	2+	.	+20-UCPC-7002-1-X2	3	2+	.						
=FIELD-PIT-71104	-	2-	.	+20-UCPC-7002-1-X2	4	2-	.						
		2SCR				2SCR							
=FIELD-PIT-71107	+	3+	.	+20-UCPC-7002-1-X2	5	3+	.						
=FIELD-PIT-71107	-	3-	.	+20-UCPC-7002-1-X2	6	3-	.						
		3SCR				3SCR							
=FIELD-TIT-71101	+	4+	.	+20-UCPC-7002-1-X2	7	4+	.						
=FIELD-TIT-71101	-	4-	.	+20-UCPC-7002-1-X2	8	4-	.						
		4SCR				4SCR							
=FIELD-TIT-71102	+	5+	.	+20-UCPC-7002-1-X2	9	5+	.						
=FIELD-TIT-71102	-	5-	.	+20-UCPC-7002-1-X2	10	5-	.						
		5SCR				5SCR							
-TIT-71102													
-TIT-71101													
-PIT-71107													
-PIT-71104													
-PIT-71103													



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 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-7080+JIAX-7001-2-X2  
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 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05B

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 AIRPACK DWG NO. 17811-05B  
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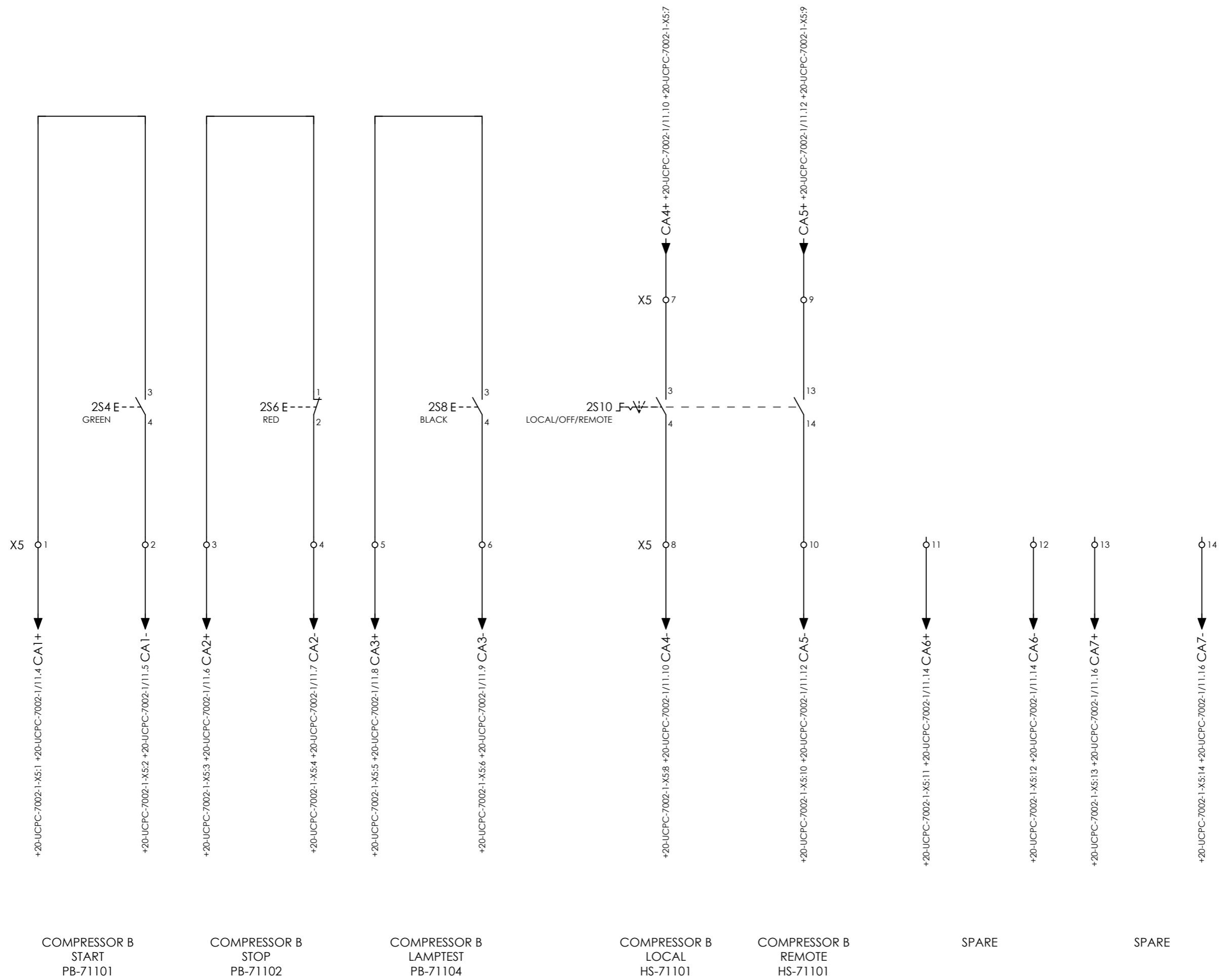
# LOCAL CONTROL PANEL LP-C-7080-01

## TERMINAL STRIP DEFINITION

- X5 = CONNECTION PUSHBUTTONS AND LAMPS
- X9 = CONNECTION ESD BUTTON
- X10 = CONNECTION AMPEREMETER FROM MCC



CLIENT DWG NO.		SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080			CHECKED BY	RBE	+ LP-C-7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION		LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION		
		AIRPACK REF.	17811-05B	PAGE NUMBER	94	

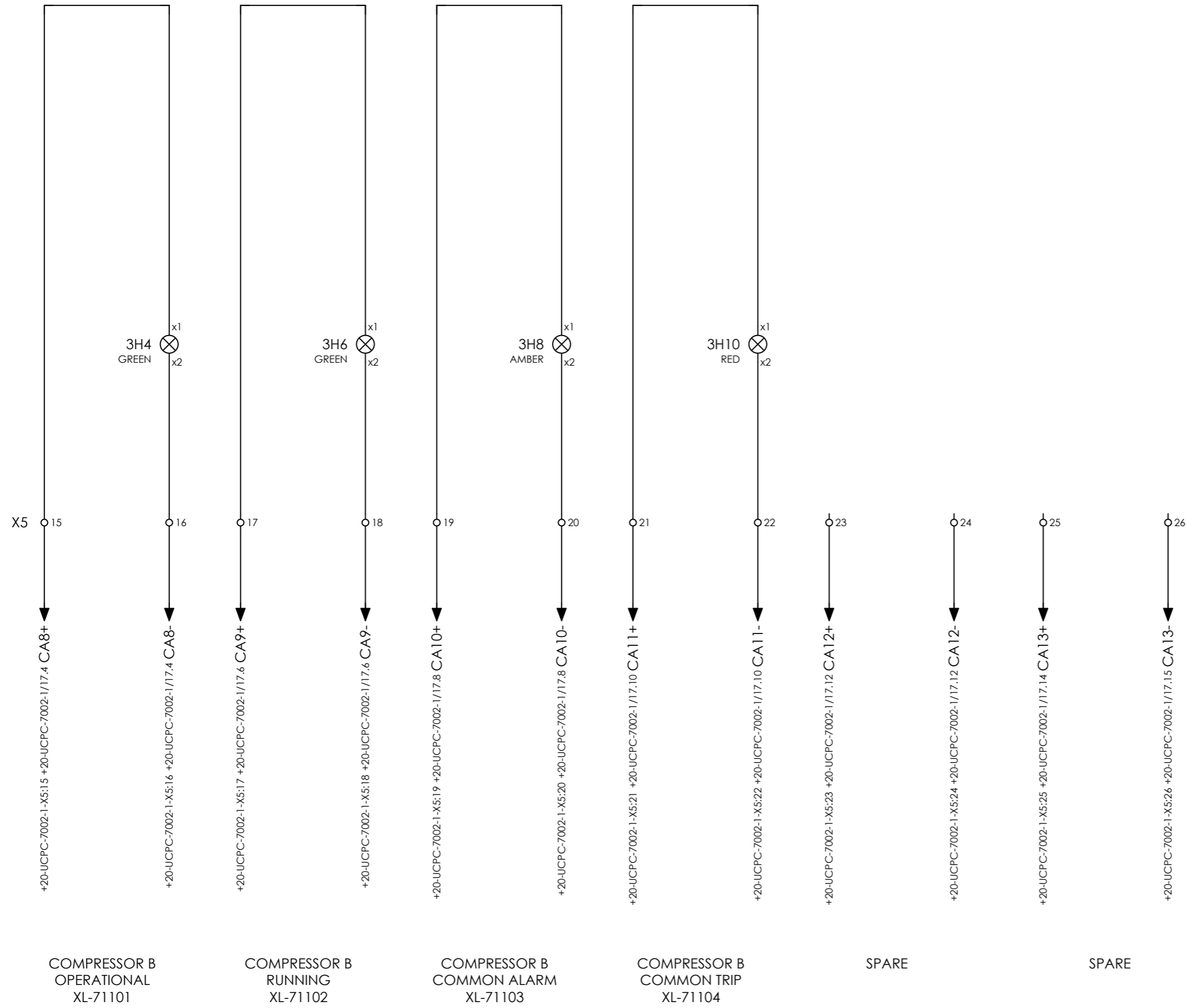


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT CONNECTION PUSHBUTTONS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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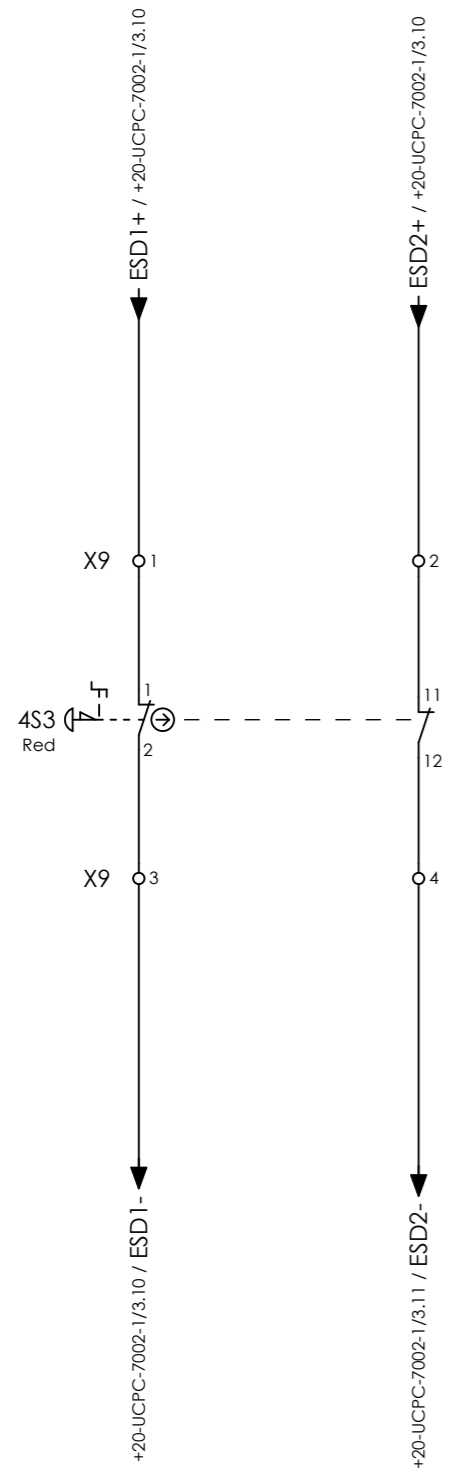


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EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT CONNECTION LAMPS	
ADAPTED TO P&ID REVISION	01
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CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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AIRPACK DWG NO.	17811-05B
REVISION	01
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COMPRESSOR B  
ESD BUTTON  
PB-71103



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION ESD BUTTON	
ADAPTED TO P&ID REVISION	01
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AIRPACK REF.	17811-05B

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LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	50	

# Terminal diagram

Cable name		Strip =20-C-7080+LP-C-7080-01-X5 CONNECTION PUSHBUTTONS AND LAMPS										Cable name	
		Target designation	Connection point	Terminal	Jumper	Target designation	Connection point						
+UCP-LCP_COMB	26x1 mm <sup>2</sup>	+20-UCPC-7002-1-X5	1	1	.	-2S4	3						
		+20-UCPC-7002-1-X5	2	2	.	-2S4	4						
		+20-UCPC-7002-1-X5	3	3	.	-2S6	1						
		+20-UCPC-7002-1-X5	4	4	.	-2S6	2						
		+20-UCPC-7002-1-X5	5	5	.	-2S8	3						
		+20-UCPC-7002-1-X5	6	6	.	-2S8	4						
		+20-UCPC-7002-1-X5	7	7	.	-2S10	3						
		+20-UCPC-7002-1-X5	8	8	.	-2S10	4						
		+20-UCPC-7002-1-X5	9	9	.	-2S10	13						
		+20-UCPC-7002-1-X5	10	10	.	-2S10	14						
		+20-UCPC-7002-1-X5	11	11	.								
		+20-UCPC-7002-1-X5	12	12	.								
		+20-UCPC-7002-1-X5	13	13	.								
		+20-UCPC-7002-1-X5	14	14	.								
		+20-UCPC-7002-1-X5	15	15	.	-3H4	x1						
		+20-UCPC-7002-1-X5	16	16	.	-3H4	x2						
		+20-UCPC-7002-1-X5	17	17	.	-3H6	x1						
		+20-UCPC-7002-1-X5	18	18	.	-3H6	x2						
		+20-UCPC-7002-1-X5	19	19	.	-3H8	x1						
		+20-UCPC-7002-1-X5	20	20	.	-3H8	x2						
		+20-UCPC-7002-1-X5	21	21	.	-3H10	x1						
		+20-UCPC-7002-1-X5	22	22	.	-3H10	x2						
		+20-UCPC-7002-1-X5	23	23	.								
		+20-UCPC-7002-1-X5	24	24	.								
		+20-UCPC-7002-1-X5	25	25	.								
		+20-UCPC-7002-1-X5	26	26	.								

Signals tag to be specified.



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0045  
 EQUIPMENT NO. 20-C-7080  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-7080+LP-C-7080-01-X5  
 ADAPTED TO P&ID REVISION 01  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05B

DRAWN BY htaher  
 CHECKED BY RBE  
 LAST MODIFICATION DATE 01/07/2021  
 AIRPACK DWG NO. 17811-05B  
 REVISION 01  
 TOTAL PAGE AMOUNT 51

= 20-C-7080  
 + LP-C-7080-01  
 CURRENT PAGE



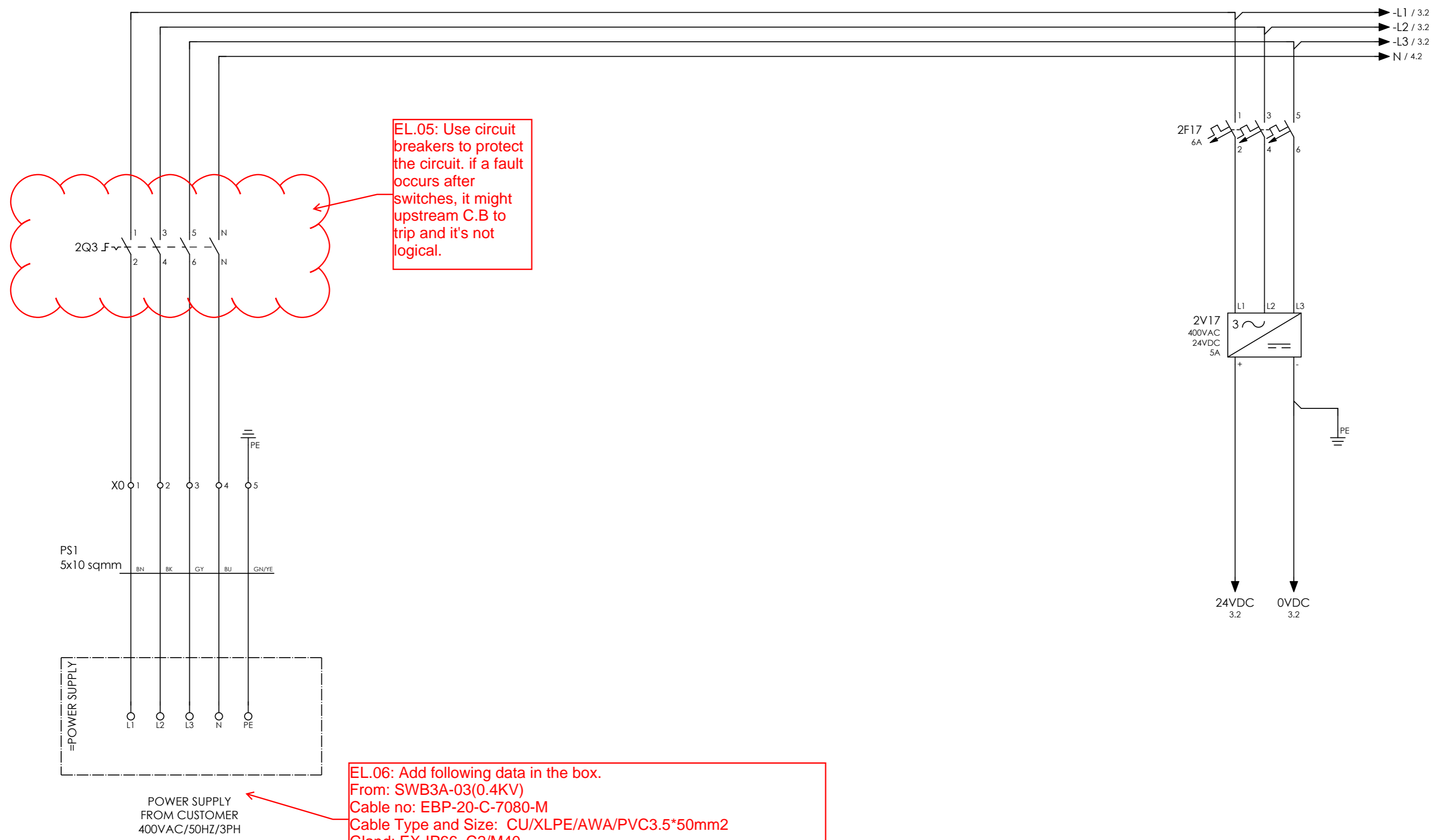
# POWER DISTRIBUTION BOARD PD-C-7080-01

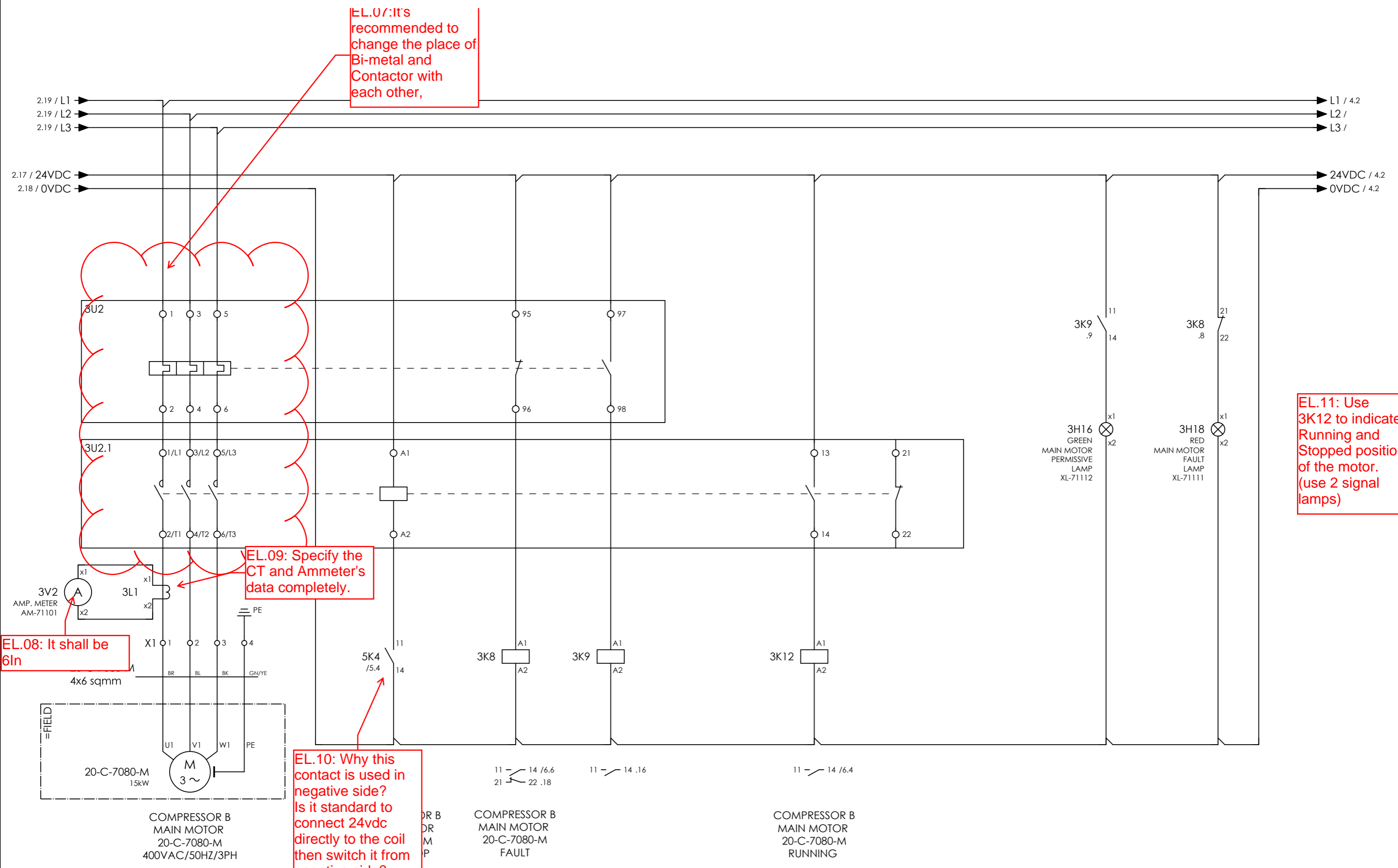
## TERMINAL STRIP DEFINITION

X0 = POWER SUPPLY 400VAC FROM CUSTOMER  
 X1 = MAIN MOTOR  
 X2 = HEATER  
 X8 = SIGNALS TO / FROM UCP



CLIENT DWG NO.		SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	ADAPTED TO P&ID REVISION		CHECKED BY	RBE	+ PD-C-7080-01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
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		AIRPACK REF.	17811-05B	REVISION		
				PAGE NUMBER	94	





EL.07: It's recommended to change the place of Bi-metal and Contactor with each other,

EL.09: Specify the CT and Ammeter's data completely.

EL.08: It shall be 6In

EL.10: Why this contact is used in negative side? Is it standard to connect 24vdc directly to the coil then switch it from negative side?

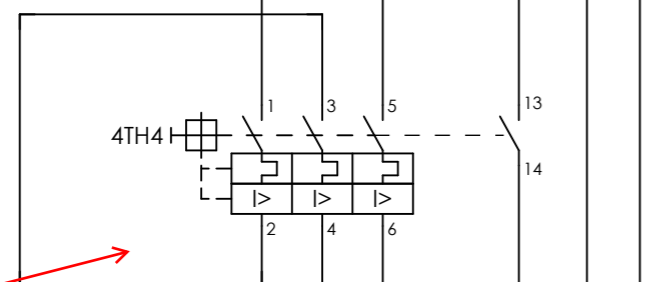
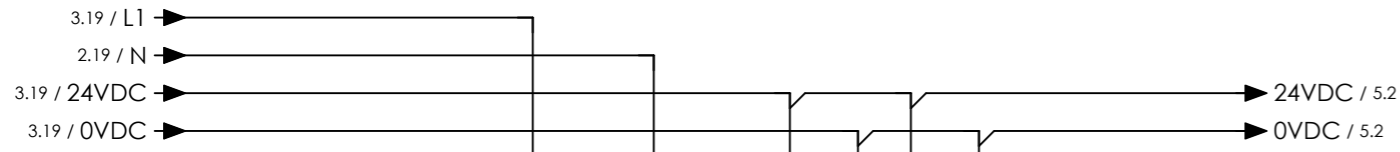
EL.11: Use 3K12 to indicate Running and Stopped position of the motor. (use 2 signal lamps)



CLIENT	VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT MAIN MOTOR	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

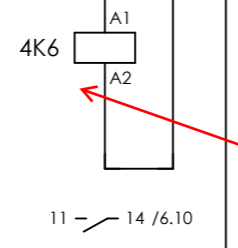
DRAWN BY	htaher	= 20-C-7080
CHECKED BY	RBE	+ PD-C-7080-01
LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	55	



EL.12: Specify the type and rating of C.B.

EL.15: It seems using this aux. relay as Heater Running in this part of the circuit is not sounds suitable, because after that there is a SSR switch and it might be in open status. Please check and clarify.

EL.13: Please clarify about the thyristor switch. Add all switch data beside of it,



EL.14: Add all aux. relay's name beside them.

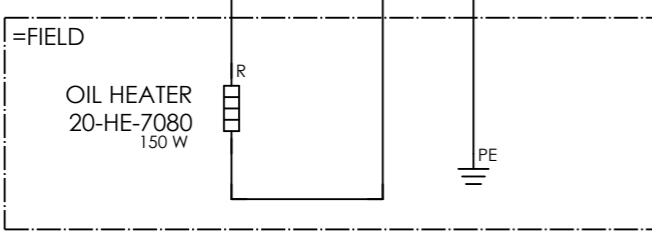
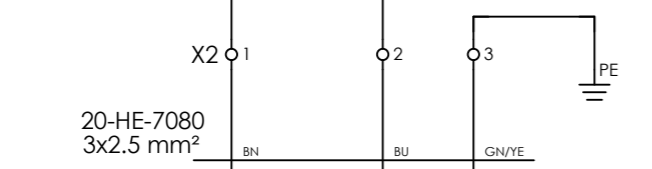
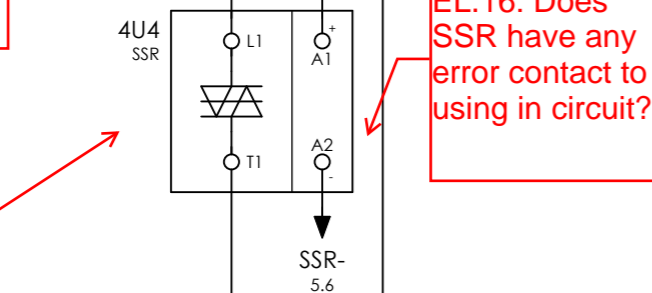
EL.16: Does SSR have any error contact to using in circuit?

EL.17: Is it standard to connect 24vdc directly to the coil then switch it from negative side? Please clarify it.

EL.18: Panel layout arrangement shall be prepared and issued.

EL.19: Part list shall be added in document.

EL.20: Other parts of the wiring document shall be checked by Instrument dep.



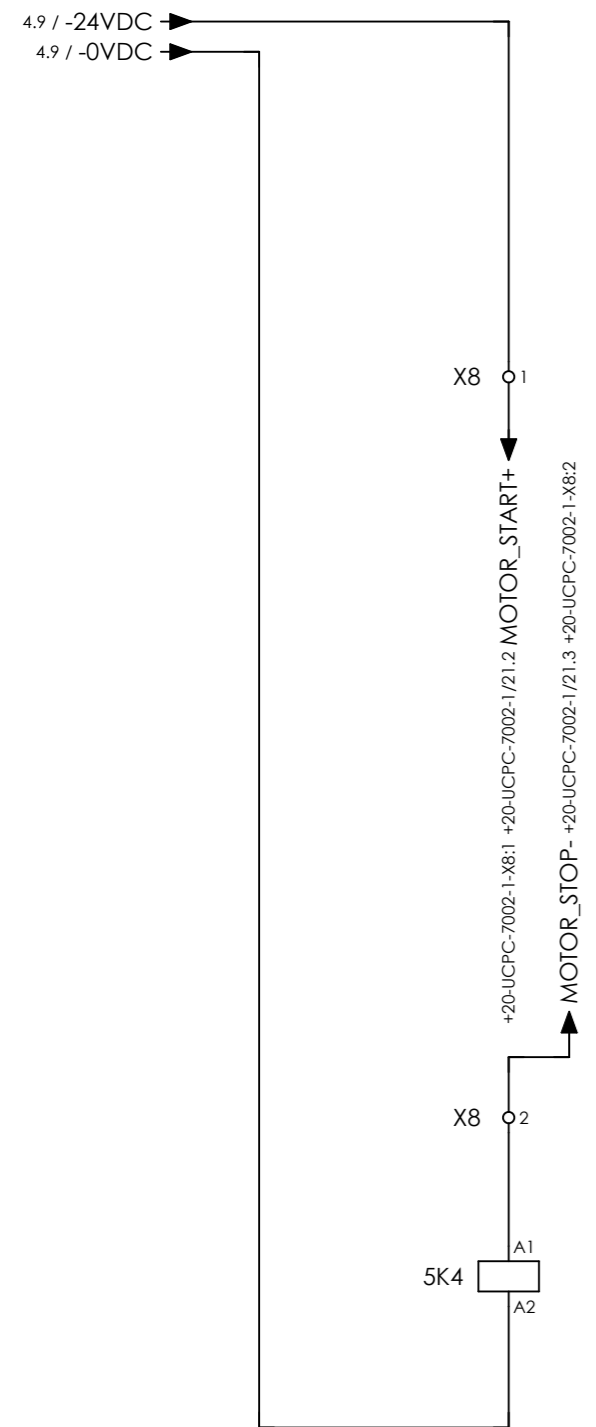
OIL HEATER 20-HE-7080  
230VAC/50HZ/1PH



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
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EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT HEATER	
ADAPTED TO P&ID REVISION	01
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CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

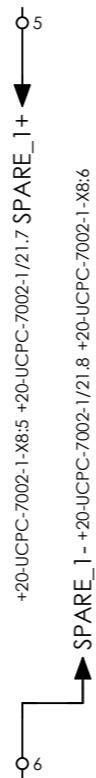
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CHECKED BY	RBE	+ PD-C-7080-01
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AIRPACK DWG NO.	17811-05B	
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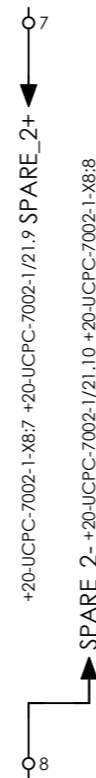
COMPRESSOR B  
MAIN MOTOR 20-C-7080-M  
START/STOP



COMPRESSOR B  
OIL HEATER LG-71101  
ON/OFF



SPARE

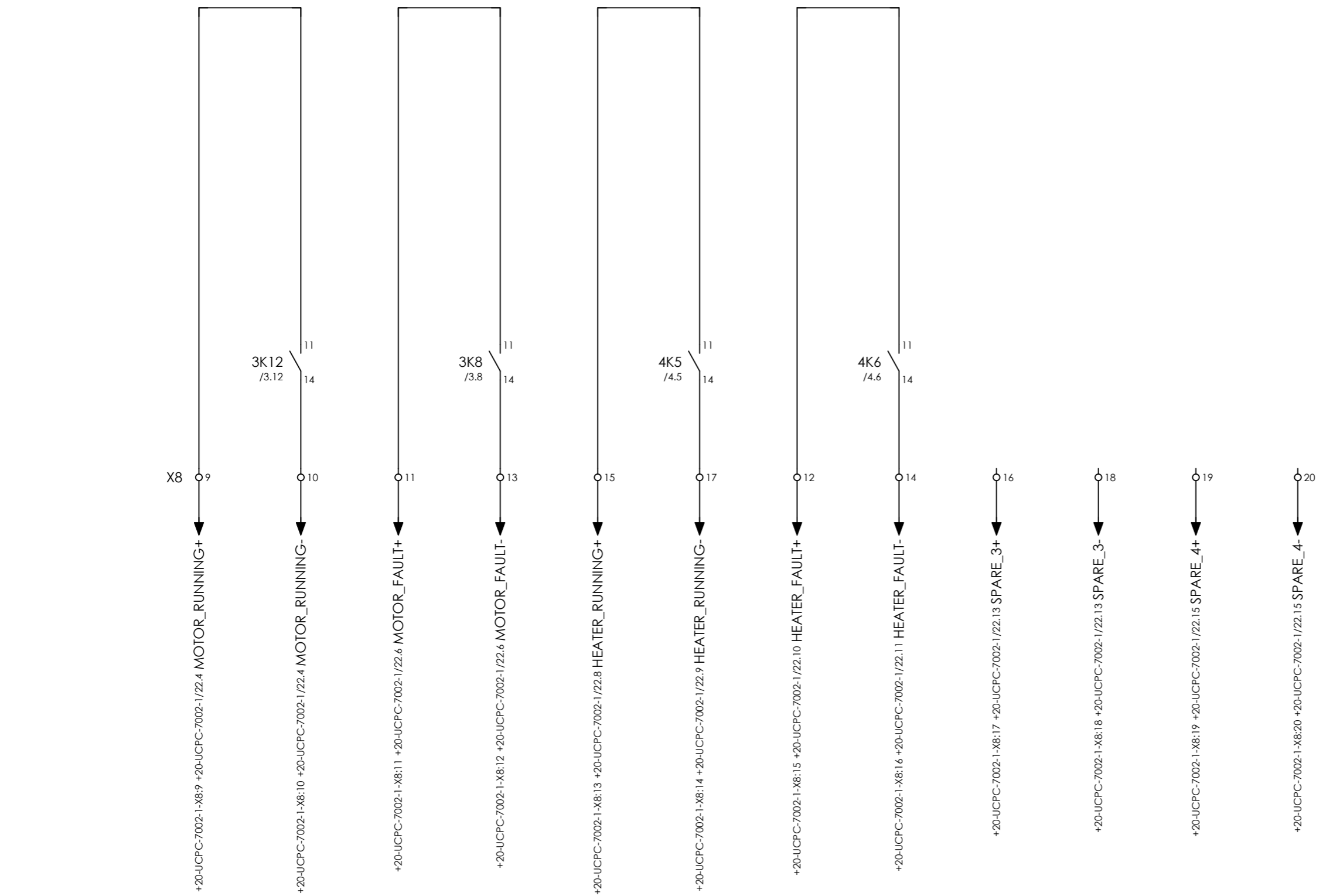


SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
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EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	htaher	= 20-C-7080
SIGNALS FROM UCP		CHECKED BY	RBE	+ PD-C-7080-01
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05B	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
AIRPACK REF.	17811-05B	TOTAL PAGE AMOUNT	57	



COMPRESSOR B  
MAIN MOTOR  
20-C-7080-M  
RUNNING

COMPRESSOR B  
MAIN MOTOR  
20-C-7080-M  
FAULT

COMPRESSOR B  
OIL HEATER  
20-HE-7080  
RUNNING

COMPRESSOR B  
OIL HEATER  
20-HE-7080  
FAULT

SPARE

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0045
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT SIGNALS TO UCP		DRAWN BY	htaher	= 20-C-7080
ADAPTED TO P&ID REVISION		CHECKED BY	RBE	+ PD-C-7080-01
CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	01/07/2021	CURRENT PAGE
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK DWG NO.	17811-05B	
AIRPACK REF.	17811-05B	REVISION	01	
		TOTAL PAGE AMOUNT	58	

# Terminal diagram

Cable name		Strip =20-C-7080+PD-C-7080-01-X0 POWER SUPPLY 400VAC FROM CUSTOMER					Cable name	
Terminal	Connection point	Jumper	Target designation	Connection point	Terminal	Target designation	Connection point	
1	2	.	-2Q3	L1	1	L1	BN	
2	4	.	-2Q3	L2	2	L2	BK	
3	6	.	-2Q3	L3	3	L3	GY	
4	N	.	-2Q3	N	4	N	BU	
5	PE	.		PE	5	PE	GN/YE	



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 CLIENT REF. Bushehr MEG Plant Project  
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 + PD-C-7080-01  
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