



**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**



**UCP/LCP/JB WIRING DIAGRAM FOR
EMERGENCY INSTRUMENT AIR
COMPRESSOR**



- Please refer to comments on I/O List, P&ID and other relevant document.
- After FAT minimum of 20 % installed spare in all respects shall be available.
- Ventilation system (110 V, 50 Hz, UPS) fitted with dust filters and with extraction fans mounted on the top of cabinets shall be provided.
- Multi cable for connection pushbuttons and lamps on LCS not specified, please consider one 10Pair cable for LCS signals to UCP and arrange terminal strip accordingly.
- PB-71103 on local panel, for compressor ESD PB, I/O card connection is missed.
- XS-715 signal and wiring diagram is missed.
- Related I/O card for emergency shut down command from ESD to be specified and also ESD command on the UCP panel.
- Please modify device tag list in page 8 same as following table :

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Component list

Tag	Quantity	Designation	Type number	Manufacturer	Manufacturer part number
-49K1	1	Relay module	TRS 230VAC RC 200 AU	WEIDMÜLLER	1123810000

**EMERGENCY
INSTRUMENT AIR COMPRESSOR**

		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	Nov/04/2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

01	19/10/2021	For approval	HT	RB	KP	
00	02/07/2021	For approval	HT	RB	KP	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
Class: 1						Phase: P



Airpack B.V.

4301 RN Zierikzee
The Netherlands

PHONE: (31) (0) 111 - 415455

FAX: (31) (0) 111 - 413338

E-MAIL : AIRPACK@AIRPACK.NL

WEBPAGE : WWW.AIRPACK.NL

Client : Bushehr Petrochemical Company (BUPC)

Equipment location : Iran, Onshore

Client reference : Bushehr MEG Plant Project

Client dwg. no. : BU-20-VD-303-IN-DIG-0093

Airpack reference : 17811-05B

Airpack dwg. no. : 17811-05B

Generation date : 30/06/2021

E & I manager : RBE

Last modifications : 18/10/2021

Last modifications by : htaher

Revision no. : 01



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
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	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	1	

NOTES ON ELECTRICAL DRAWINGS

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

JB ANALOG IS WALL MOUNTED ON SKID
MATERIAL: SS316 (RAL 5015) BLUE
INGRESS. PROTECTION: IP-65
AREA CLASSIFICATION: Eex'i'

JB DIGITAL IS WALL MOUNTED ON SKID
MATERIAL: SS316 (RAL 6021) GREEN
INGRESS. PROTECTION: IP-65
AREA CLASSIFICATION: Eex'e'

(RAL 9006) Gray

Eex'd' as per TCL shall be selected.

LCP IS WALL MOUNTED ON SKID
MATERIAL: SS316 (RAL 6021) GREEN
INGRESS. PROTECTION: IP-65
AREA CLASSIFICATION: Eex'e'

DISTRIBUTION PANEL IS WALL MOUNTED ON SKID
MATERIAL: ALUMINIUM (RAL 9006) GRAY
INGRESS. PROTECTION: IP-65
AREA CLASSIFICATION: Eex'd'

GLANDS: NICKEL PLATED BRASS GLANDS WITH PVC SHROUDS, ISO METRIC THREADS , IP-66, DOUBLE COMPRESSION, Ex-d/Ex-d dual certified including Locknut, Earth tag & Sealing washer
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

IE connection shall be separate to two bar one as ISE for IS signals and the other one as NISE for NIS signals.

- Terminal blocks shall be spring loaded Klippon type and vibration proof for JB
- 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.

COLOUR CODES INTERNAL WIRING

400 VAC, 50HZ, L1	BLACK
400 VAC, 50HZ, L3	BROWN
400 VAC, 50HZ, L3	GREY
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
INTRINSICALLY SAFE	BLUE

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/5	Table of contents : =20-C-7080+PD-C-7080-01/2 - =20-C-7080+PD-C-7080-01/11	5	18/10/2021	htaher
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=20-C-7080+UCP-C7080-01/1	TERMINAL STRIP DEFINITION	11	14/10/2021	htaher
=20-C-7080+UCP-C7080-01/2	POWER SUPPLY	12	13/10/2021	htaher
=20-C-7080+UCP-C7080-01/3	EMERGENCY SHUTDOWN	13	15/10/2021	htaher
=20-C-7080+UCP-C7080-01/4	SOLENOIDS	14	18/10/2021	htaher
=20-C-7080+UCP-C7080-01/5	PLC LAYOUT	15	13/10/2021	htaher
=20-C-7080+UCP-C7080-01/6	IO RACK I	16	15/10/2021	htaher
=20-C-7080+UCP-C7080-01/7	IO RACK II	17	15/10/2021	htaher
=20-C-7080+UCP-C7080-01/8	DISPLAY	18	13/10/2021	htaher
=20-C-7080+UCP-C7080-01/9	LOOP SPLITTERS	19	18/10/2021	htaher
=20-C-7080+UCP-C7080-01/10	DIGITAL INPUTS I	20	15/10/2021	htaher
=20-C-7080+UCP-C7080-01/11	DIGITAL INPUTS I	21	15/10/2021	htaher
=20-C-7080+UCP-C7080-01/12	DIGITAL INPUTS I	22	15/10/2021	htaher
=20-C-7080+UCP-C7080-01/13	DIGITAL INPUTS I	23	15/10/2021	htaher
=20-C-7080+UCP-C7080-01/14	ANALOG INPUTS I	24	15/10/2021	htaher
=20-C-7080+UCP-C7080-01/15	ANALOG INPUTS I	25	18/10/2021	htaher
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT	Table of contents : /1 - =20-C-7080+UCP-C7080-01/23	
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.	Bushehr MEG Plant Project	
		AIRPACK REF.	17811-05B	

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AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	3	

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=20-C-7080+JNDX-C7080-01/2	CONNECTION SOLENOIDS	53	18/10/2021	htaher
=20-C-7080+JNDX-C7080-01/3	Terminal diagram =20-C-7080+JNDX-C7080-01-X1	54	15/10/2021	htaher
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=20-C-7080+LP-C7080-01/2	CONNECTION PUSHBUTTONS	61	13/10/2021	htaher
=20-C-7080+LP-C7080-01/3	CONNECTION LAMPS	62	15/10/2021	htaher
=20-C-7080+LP-C7080-01/4	CONNECTION ESD BUTTON	63	13/10/2021	htaher
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=20-C-7080+PD-C-7080-01/1	TERMINAL STRIP DEFINITION	66	18/10/2021	htaher



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT	Table of contents : =20-C-7080+UCP-C7080-01/24 - =20-C-7080+PD-C-7080-01/1		DRAWN BY	htaher	=
EQUIPMENT NO.	20-C-7080	ADAPTED TO P&ID REVISION	01	CHECKED BY	RBE	+	
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)		LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
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	AIRPACK REF.	17811-05B		REVISION	01		
			TOTAL PAGE AMOUNT	4			

DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
+UCP-C7080-01-2TH11		SET@	
+UCP-C7080-01-2TH13		SET@	
+UCP-C7080-01-3TH6		SET@	
+UCP-C7080-01-3TH10		SET@	
=20-C-7080+UCP-C7080-01-8A9		DISPLAY	
=20-C-7080+UCP-C7080-01-3ESDR2	EMERGENCY SHUTDOWN RELAY	ESD relay	
=20-C-7080+UCP-C7080-01-3ESDR8		ESD relay expansion	
=20-C-7080+UCP-C7080-01-2F9		230VAC 6A	
=20-C-7080+UCP-C7080-01-2F11		230VAC 2A	

Device tag	Function text	Tech. car.	Symbol
=20-C-7080+UCP-C7080-01-2F13		230VAC 4A	
=20-C-7080+UCP-C7080-01-2F15		110VAC 10A	
=20-C-7080+UCP-C7080-01-2F15.1		24VDC 10A	
=20-C-7080+UCP-C7080-01-2F17		110VAC 10A	
=20-C-7080+UCP-C7080-01-2F17.1		24VDC 10A	
=20-C-7080+UCP-C7080-01-3F4		230VAC 6A	
=20-C-7080+UCP-C7080-01-3F6		230VAC 2A	
=20-C-7080+UCP-C7080-01-3F10		230VAC 4A	
=20-C-7080+UCP-C7080-01-5F2		24VDC 6A	



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SUBJECT	
Device tag list : =+UCP-C7080-01-2TH11 - =20-C-7080+UCP-C7080-01-5F2	
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	15/10/2021	CURRENT PAGE
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DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-7080+UCP-C7080-01-5F11		24VDC 6A	
=20-C-7080+UCP-C7080-01-2G15		QUINT DIODE	
=20-C-7080+UCP-C7080-01-2H10			
=20-C-7080+UCP-C7080-01-3H4			
=20-C-7080+UCP-C7080-01-16H4	COMPRESSOR B OPERATIONAL XL-71106	GREEN	
=20-C-7080+UCP-C7080-01-16H6	COMPRESSOR B RUNNING XL-71107	GREEN	
=20-C-7080+UCP-C7080-01-16H8	COMPRESSOR B COMMON ALARM XL-71108	AMBER	
=20-C-7080+UCP-C7080-01-16H10	COMPRESSOR B COMMON TRIP XL-71109	RED	
=20-C-7080+UCP-C7080-01-17K16	COMPRESSOR B FORCED SHUTDOWN		

Device tag	Function text	Tech. car.	Symbol
=20-C-7080+UCP-C7080-01-18K4			
=20-C-7080+UCP-C7080-01-18K6			
=20-C-7080+UCP-C7080-01-18K8	SPARE		
=20-C-7080+UCP-C7080-01-18K10	=		
=20-C-7080+UCP-C7080-01-19K4	COMPRESSOR B MAIN MOTOR 20-C-7080-M START/STOP		
=20-C-7080+UCP-C7080-01-19K6	COMPRESSOR B OIL HEATER LG-71101 ON/OFF		
=20-C-7080+UCP-C7080-01-19K10			
=20-C-7080+UCP-C7080-01-33K4			
=20-C-7080+UCP-C7080-01-2M11			

DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-7080+UCP-C7080-01-3M6			
=20-C-7080+UCP-C7080-01-5M2	PLC POWER SUPPLY		
=20-C-7080+UCP-C7080-01-5M3	S7-400 CPU		
=20-C-7080+UCP-C7080-01-5M11	PLC POWER SUPPLY		
=20-C-7080+UCP-C7080-01-5M12	S7-400 CPU		
=20-C-7080+UCP-C7080-01-6M4	CP 343-1		
=20-C-7080+UCP-C7080-01-6M7	32 DI	SM321 24VDC	
=20-C-7080+UCP-C7080-01-6M11	32 DO	SM322 24VDC	
=20-C-7080+UCP-C7080-01-7M4	CP 343-1		

Device tag	Function text	Tech. car.	Symbol
=20-C-7080+UCP-C7080-01-7M7	32 DI	SM321 24VDC	
=20-C-7080+UCP-C7080-01-7M11	32 DO	SM322 24VDC	
=20-C-7080+UCP-C7080-01-2S2			
=20-C-7080+UCP-C7080-01-2S4			
=20-C-7080+UCP-C7080-01-2S6			
=20-C-7080+UCP-C7080-01-3S3		Red	
=20-C-7080+UCP-C7080-01-10S4	GREEN		
=20-C-7080+UCP-C7080-01-10S6	RED		
=20-C-7080+UCP-C7080-01-10S8	BLACK		



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SUBJECT	
Device tag list : =20-C-7080+UCP-C7080-01-3M6 - =20-C-7080+UCP-C7080-01-10S8	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
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CHECKED BY	RBE	+
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
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REVISION	01	
TOTAL PAGE AMOUNT	8	

DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-7080+UCP-C7080-01-10S10	BLACK		
=20-C-7080+UCP-C7080-01-10S12	=		
=20-C-7080+UCP-C7080-01-2U13			
=20-C-7080+UCP-C7080-01-3U10			
=20-C-7080+UCP-C7080-01-16U12	COMPRESSOR B HOURMETER HM-71101		
=20-C-7080+UCP-C7080-01-2V15		110VAC 24VDC 10A	
=20-C-7080+UCP-C7080-01-2V17		110VAC 24VDC 10A	
=20-C-7080+LP-C7080-01-3H4		GREEN	
=20-C-7080+LP-C7080-01-3H6		GREEN	

Device tag	Function text	Tech. car.	Symbol
=20-C-7080+LP-C7080-01-3H8	AMBER		
=20-C-7080+LP-C7080-01-3H10	RED		
=20-C-7080+LP-C7080-01-2S4	GREEN		
=20-C-7080+LP-C7080-01-2S6	RED		
=20-C-7080+LP-C7080-01-2S8	BLACK		
=20-C-7080+LP-C7080-01-2S10	LOCAL/OFF/REMOTE		
=20-C-7080+LP-C7080-01-4S3	Red		
=20-C-7080+PD-C-7080-01-2F17	6A		
=20-C-7080+PD-C-7080-01-2F17.1	6A		



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SUBJECT		Device tag list : =20-C-7080+UCP-C7080-01-10S10 - =20-C-7080+PD-C-7080-01-2F17.1
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	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	9	

DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol	Device tag	Function text	Tech. car.	Symbol
=20-C-7080+PD-C-7080-01-3F3	COMPRESSOR B MAIN MOTOR 20-C-7080-M START/STOP	400VAC		=20-C-7080+PD-C-7080-01-X10			ϕ^2
=20-C-7080+PD-C-7080-01-4F4		230VAC 5A					
=20-C-7080+PD-C-7080-01-5K4		COMPRESSOR B OIL HEATER LG-71101 ON/OFF					
=20-C-7080+PD-C-7080-01-5K6		COMPRESSOR B OIL HEATER LG-71101 ON/OFF					
=20-C-7080+PD-C-7080-01-4TH8		Thermostat					
=20-C-7080+PD-C-7080-01-3U3							
=20-C-7080+PD-C-7080-01-4U4							
=20-C-7080+PD-C-7080-01-2V17		400VAC 24VDC 5A					

EL-03: description shall be specified.



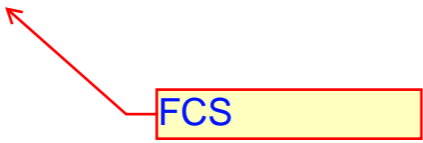
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT	Device tag list : =20-C-7080+PD-C-7080-01-3F3 - =20-C-7080+PD-C-7080-01-X10
EQUIPMENT NO.	20-C-7080	ADAPTED TO P&ID REVISION	01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	CLIENT REF.	Bushehr MEG Plant Project	
	AIRPACK REF.	17811-05B	

DRAWN BY	htaher	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	10	

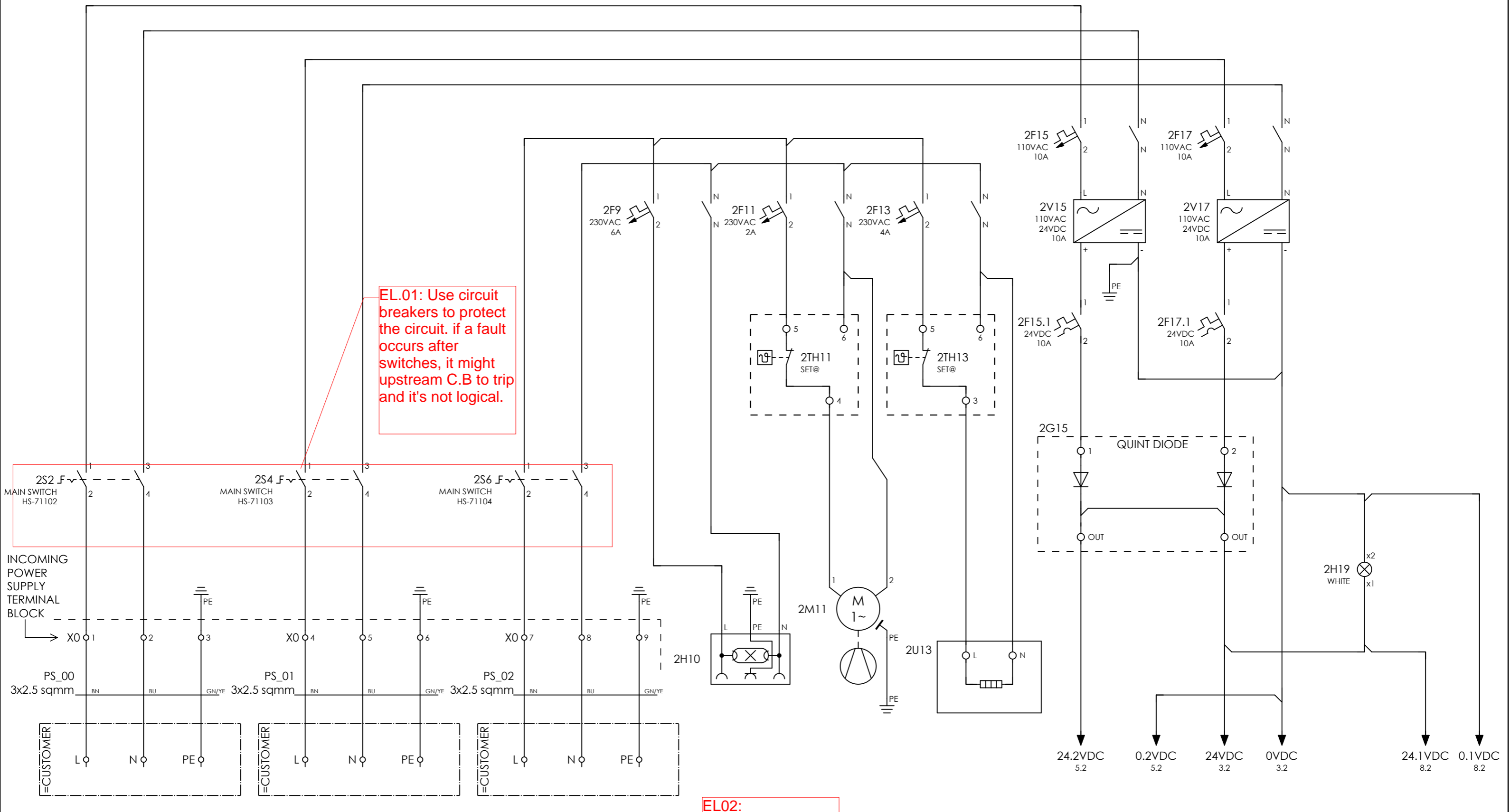
TERMINAL STRIP DEFINITION

UNIT CONTROL PANEL
UCP-C7080-01

- X0 = POWER SUPPLY 110VAC / 230VAC FROM CUSTOMER
- X1 = SOLENOIDS
- X2 = ANALOGUE INPUTS
- X4 = SERIAL COMMUNICATION MODBUS TCP/IP 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-0093	SUBJECT		DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ UCP-C7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	15/10/2021	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	



EL.01: Use circuit breakers to protect the circuit. if a fault occurs after switches, it might trip upstream C.B to trip and it's not logical.

2S2_F MAIN SWITCH HS-71102
 2S4_F MAIN SWITCH HS-71103
 2S6_F MAIN SWITCH HS-71104

INCOMING POWER SUPPLY TERMINAL BLOCK
 X0 1 2 3 4 5 6 7 8 9
 PS_00 3x2.5 sqmm BN BU GN/YE
 PS_01 3x2.5 sqmm BN BU GN/YE
 PS_02 3x2.5 sqmm BN BU GN/YE

=CUSTOMER L N PE
 =CUSTOMER L N PE
 =CUSTOMER L N PE

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.

PANEL CULATION FAN
 PANEL HEATER
 POWER ON LAMP XL-71105



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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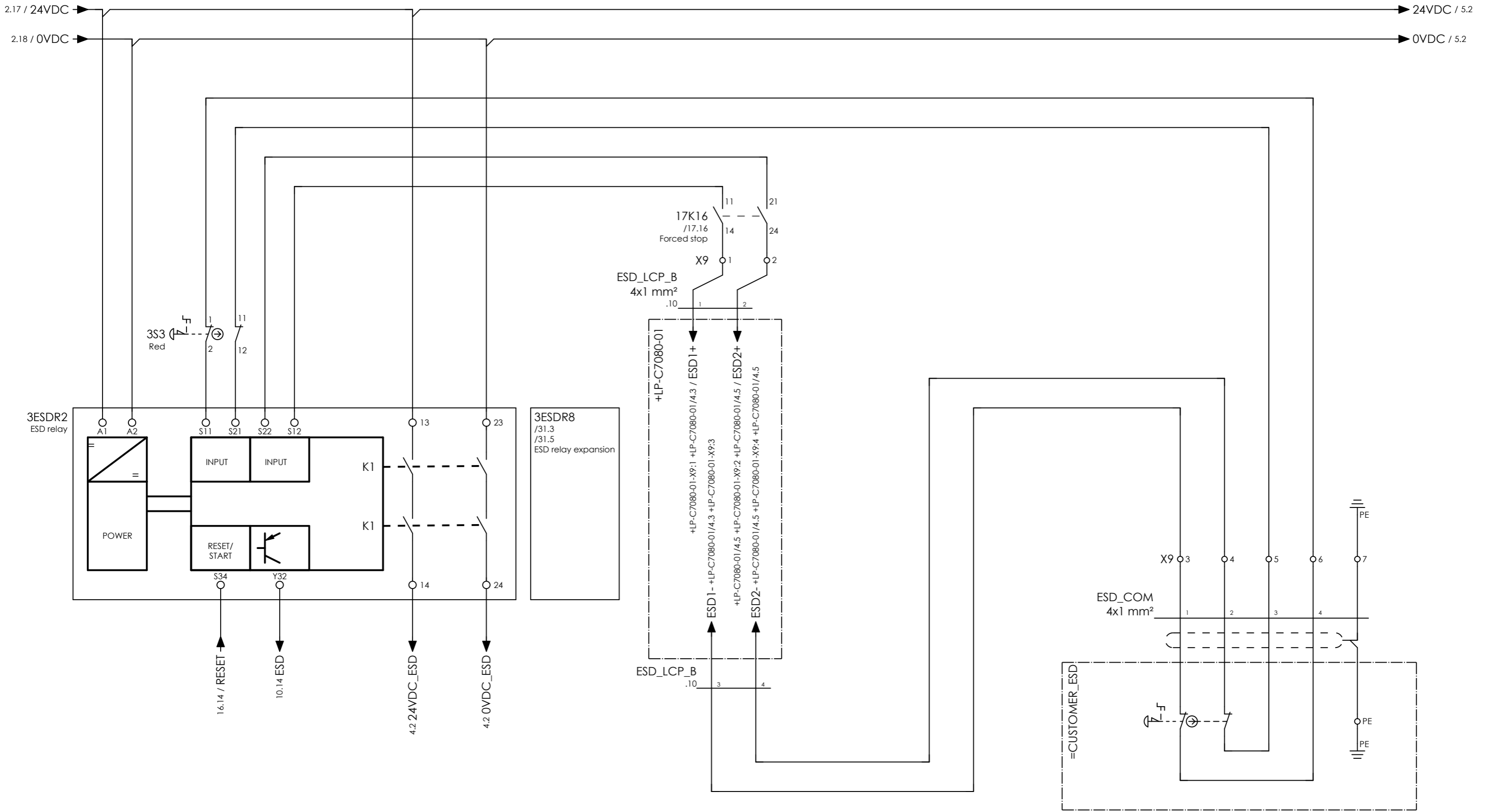
SUBJECT	POWER SUPPLY
ADAPTED TO P&ID REVISION	01

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

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	12

CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	20-C-7080
EQUIPMENT NO.	20-C-7080	+ UCP-C7080-01
EQUIPMENT LOCATION	Iran, Onshore	CURRENT PAGE



EMERGENCY SHUTDOWN RELAY

EMERGENCY STOP BUTTON ON PANEL PB-71107

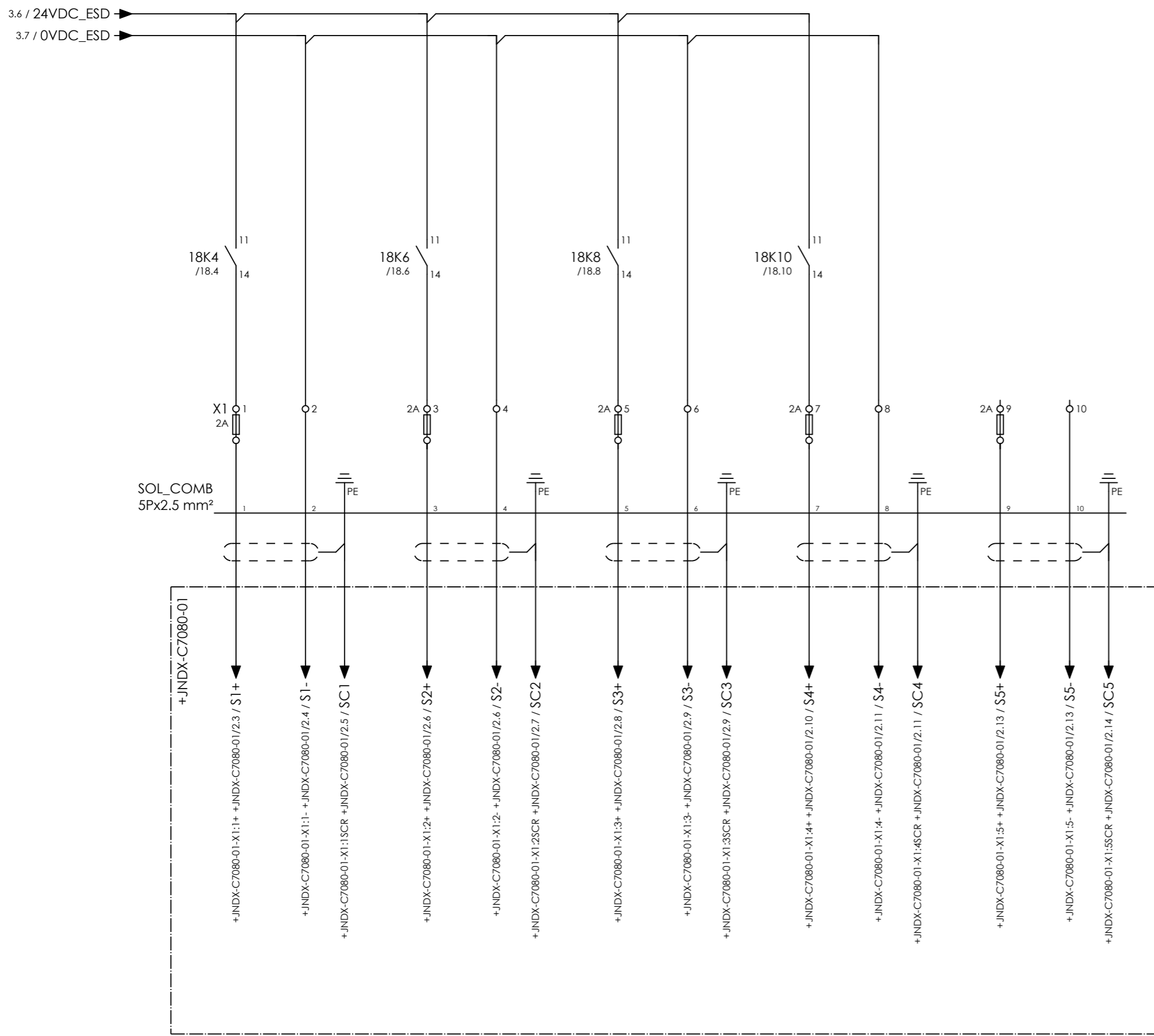
EMERGENCY SHUTDOWN FROM CUSTOMER HS-715-SD-1



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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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

DRAWN BY	htaher	= 20-C-7080
CHECKED BY	RBE	+ UCP-C7080-01
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	13	



SOL_COMB
5Px2.5 mm²

COMPRESSOR B
INLET
SOLENOID VALVE
XY-71101

COMPRESSOR B
COOLING WATER INLET
SOLENOID VALVE
XY-71102

SPARE

SPARE

SPARE

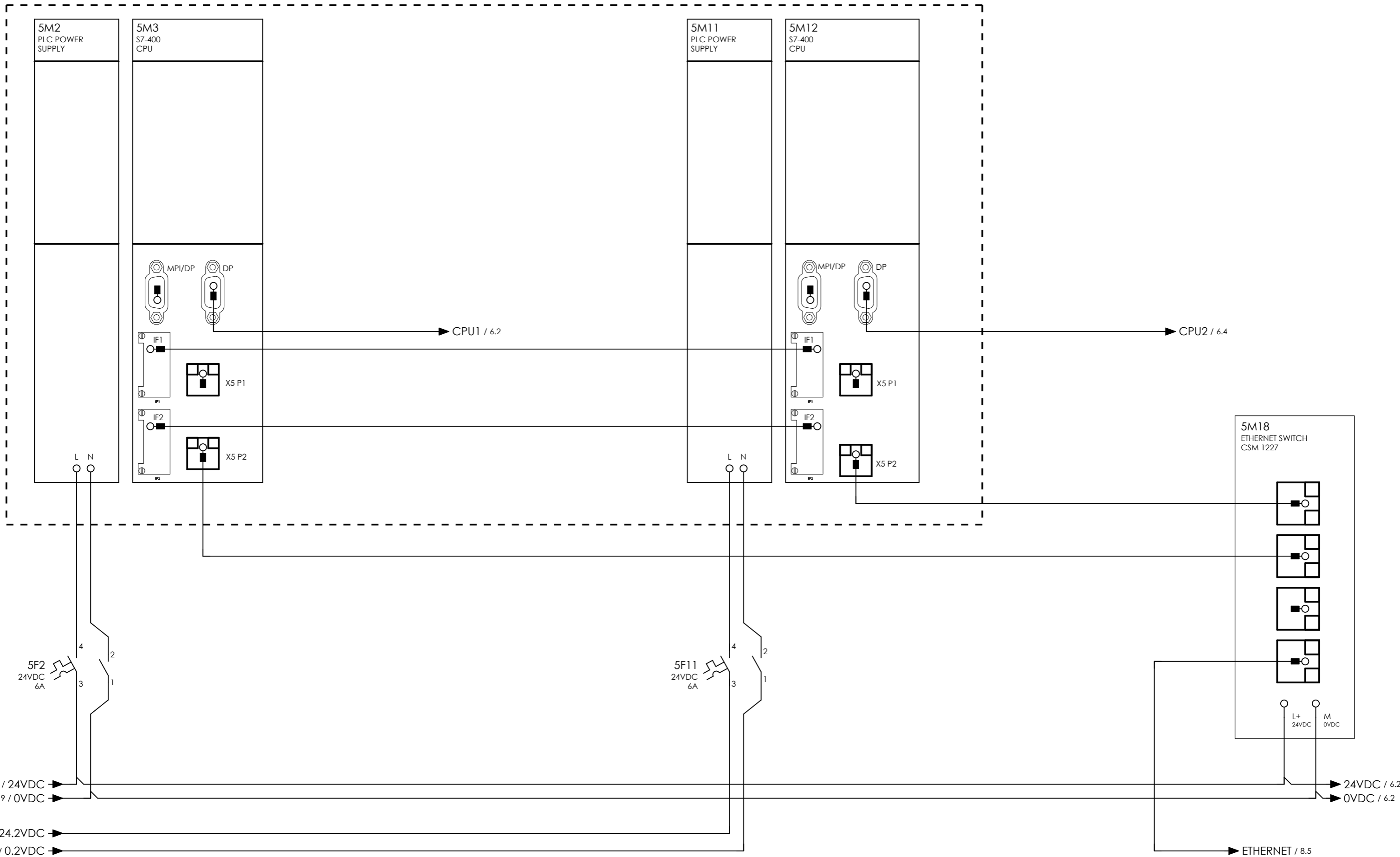


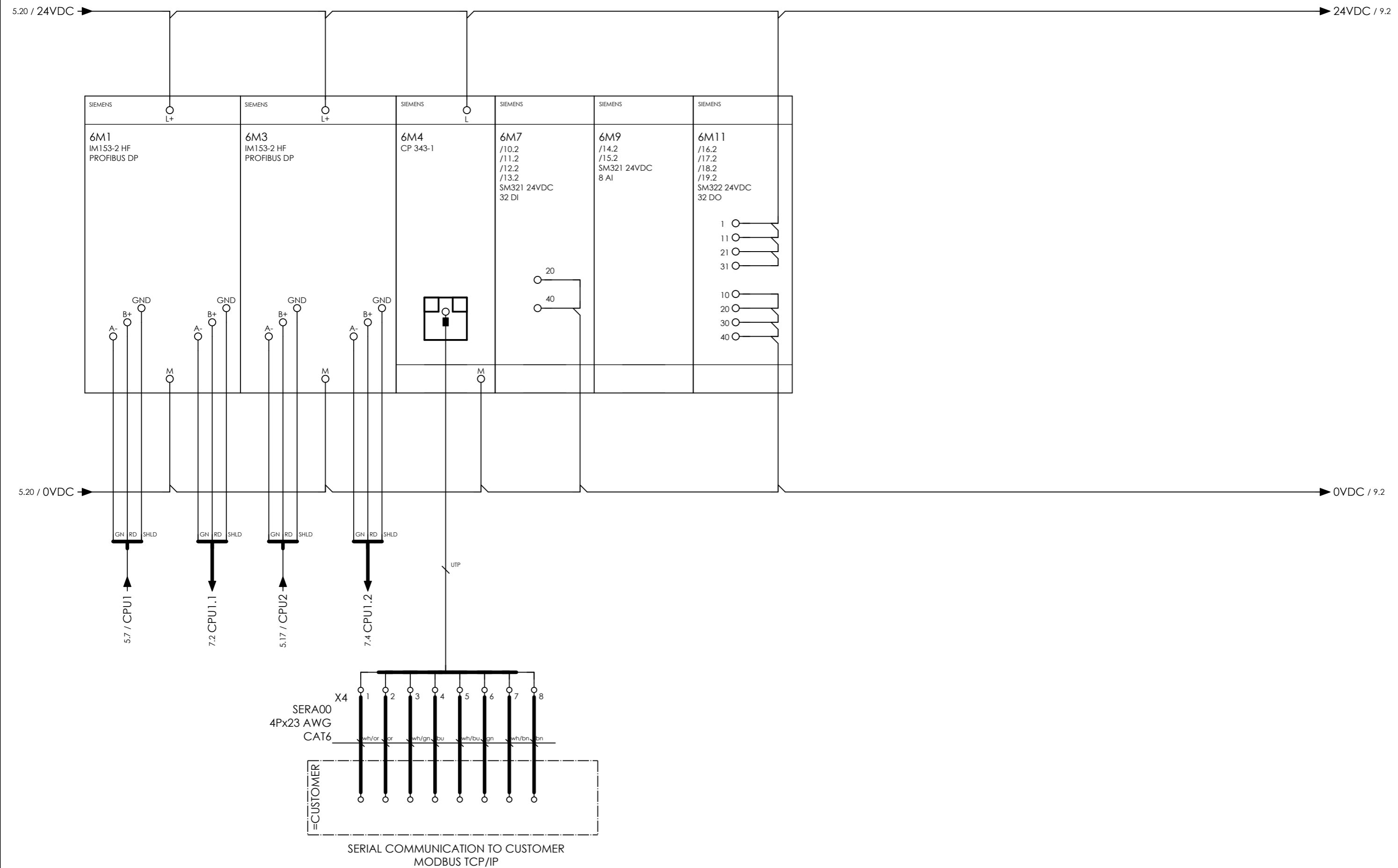
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EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT SOLENOIDS	
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	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	14

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



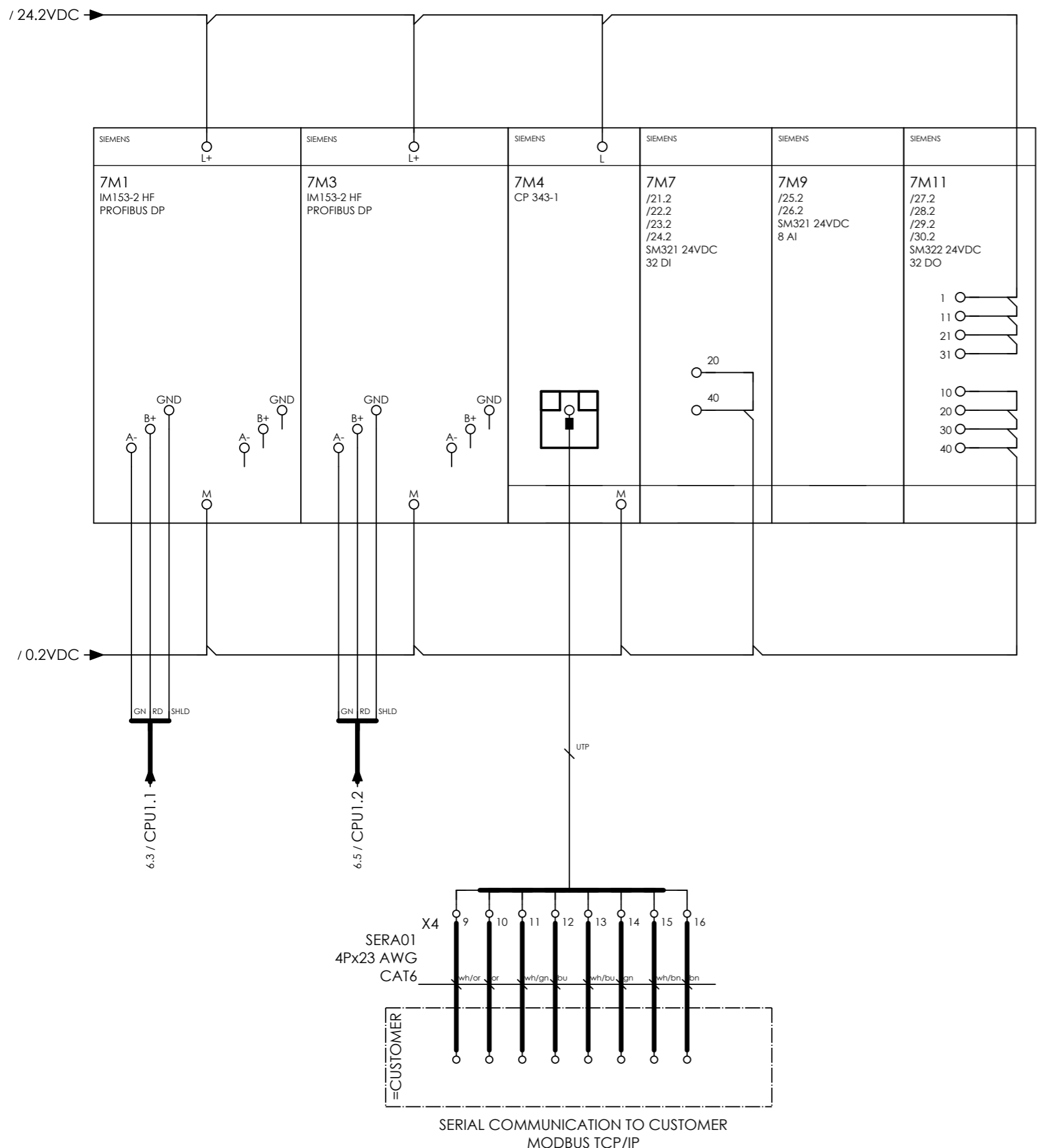


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT IO RACK I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

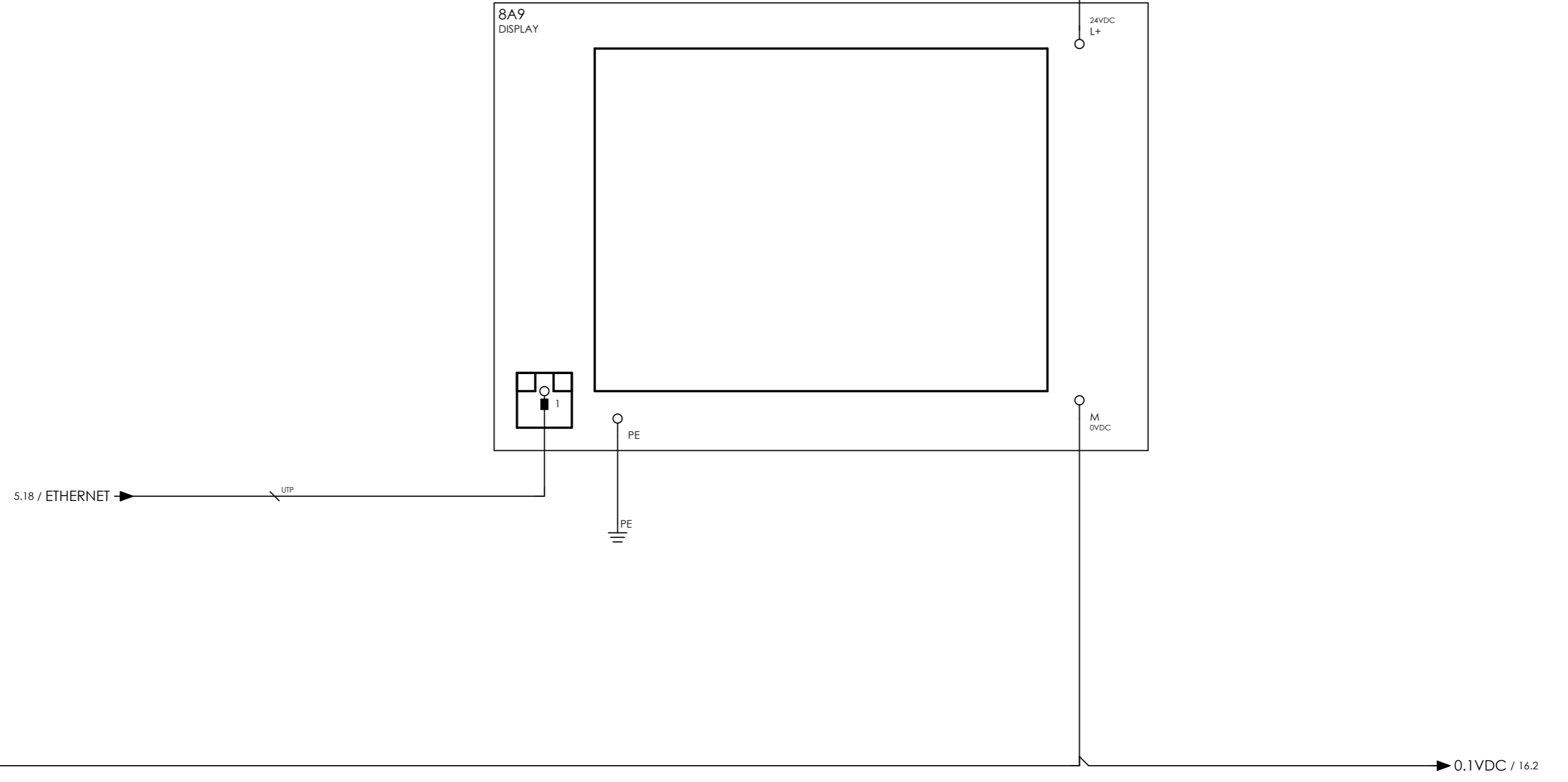
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LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	16

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



2.19 / 24.1VDC → 24.1VDC / 10.3

- Please clarify to considering display page on the panel door.
 - As per MR vendor must consider industrial workstation too.



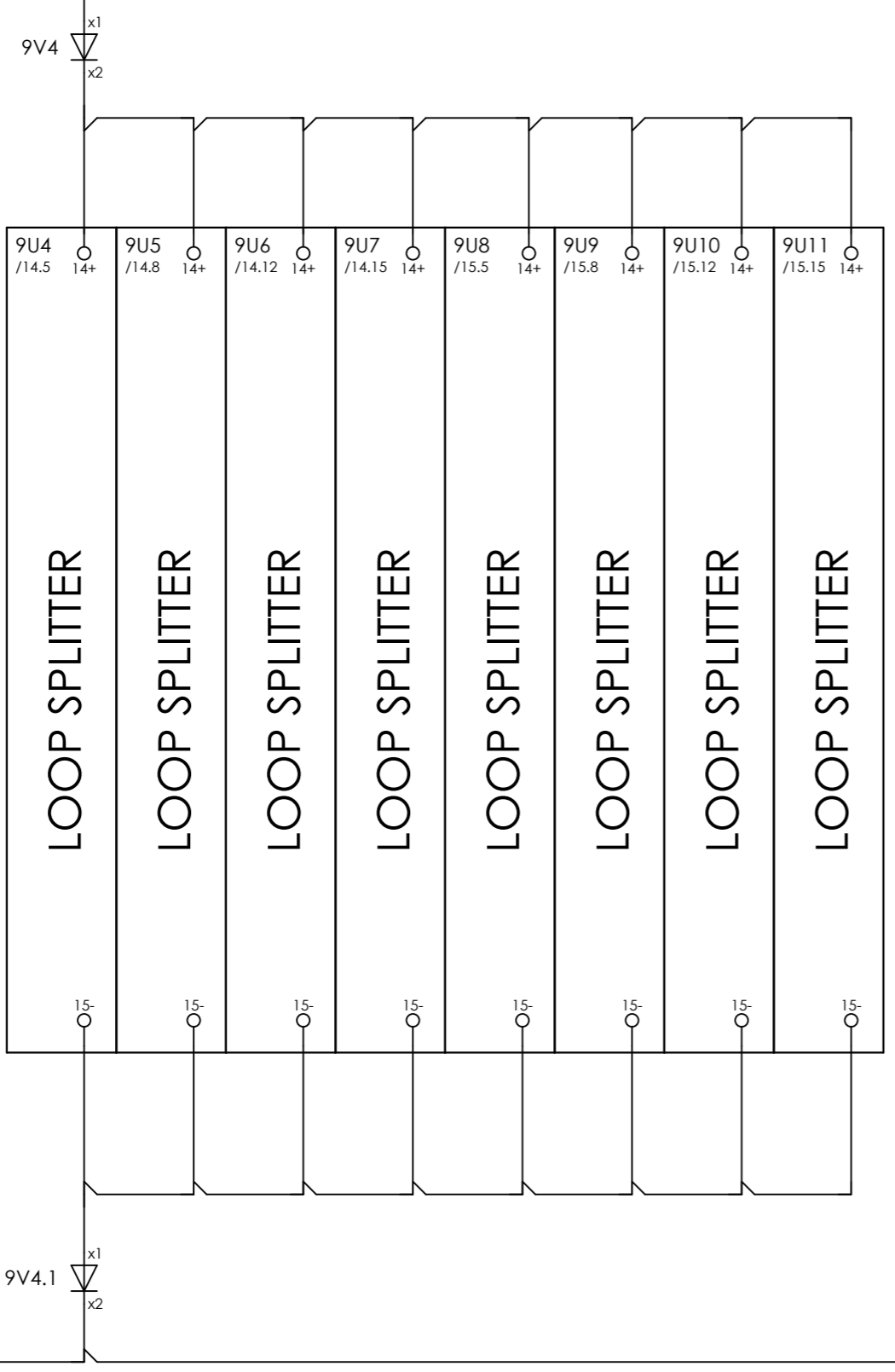
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	18

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE

6.18 / 24VDC → 24VDC / 11.3



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
 EQUIPMENT NO. 20-C-7080
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT LOOP SPLITTERS
 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 15/10/2021
 AIRPACK DWG NO. 17811-05B
 REVISION 01
 TOTAL PAGE AMOUNT 19

= 20-C-7080
 + UCP-C7080-01
 CURRENT PAGE
 9

8.19 / 24.1VDC → 24.1VDC /

10S4 E
GREEN

10S6 E
RED

10S8 E
BLACK

10S10 E
BLACK

10S12 E
BLACK

ESD / 3.4

21.4 DI.1

21.6 DI.2

21.8 DI.3

21.10 DI.4

21.12 DI.5

21.14 DI.6

6M7
16.7

16.0

16.1

16.2

16.3

16.4

16.5

16.6

16.7

COMPRESSOR B
START
PB-71105

COMPRESSOR B
STOP
PB-71106

COMPRESSOR B
LAMPTEST
PB-71108

COMPRESSOR B
ACCEPT
PB-71109

COMPRESSOR B
RESET
PB-71110

ESD
ENGAGED

SPARE

SPARE

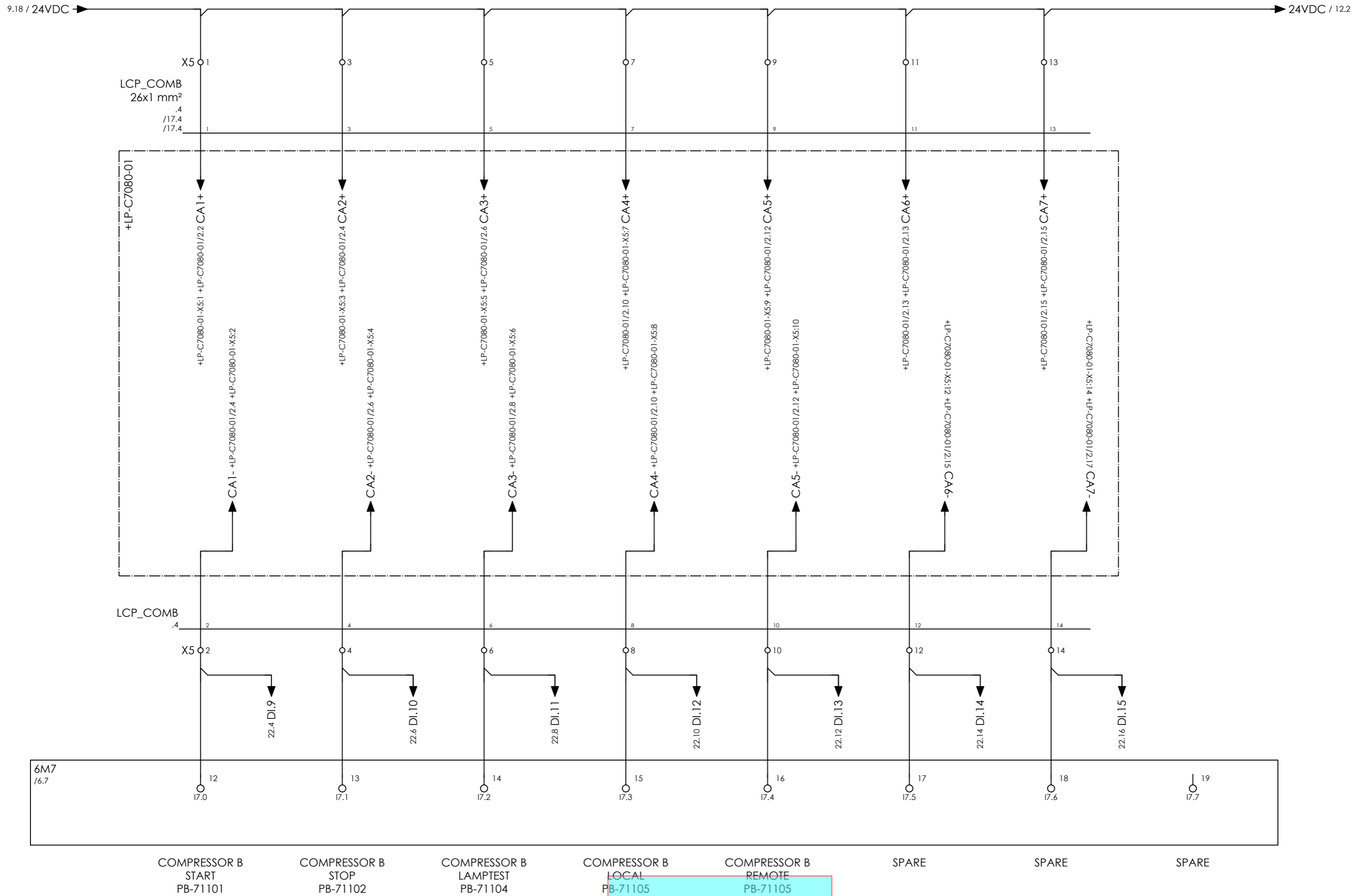


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT DIGITAL INPUTS I	
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	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	20

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



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-0093
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!	

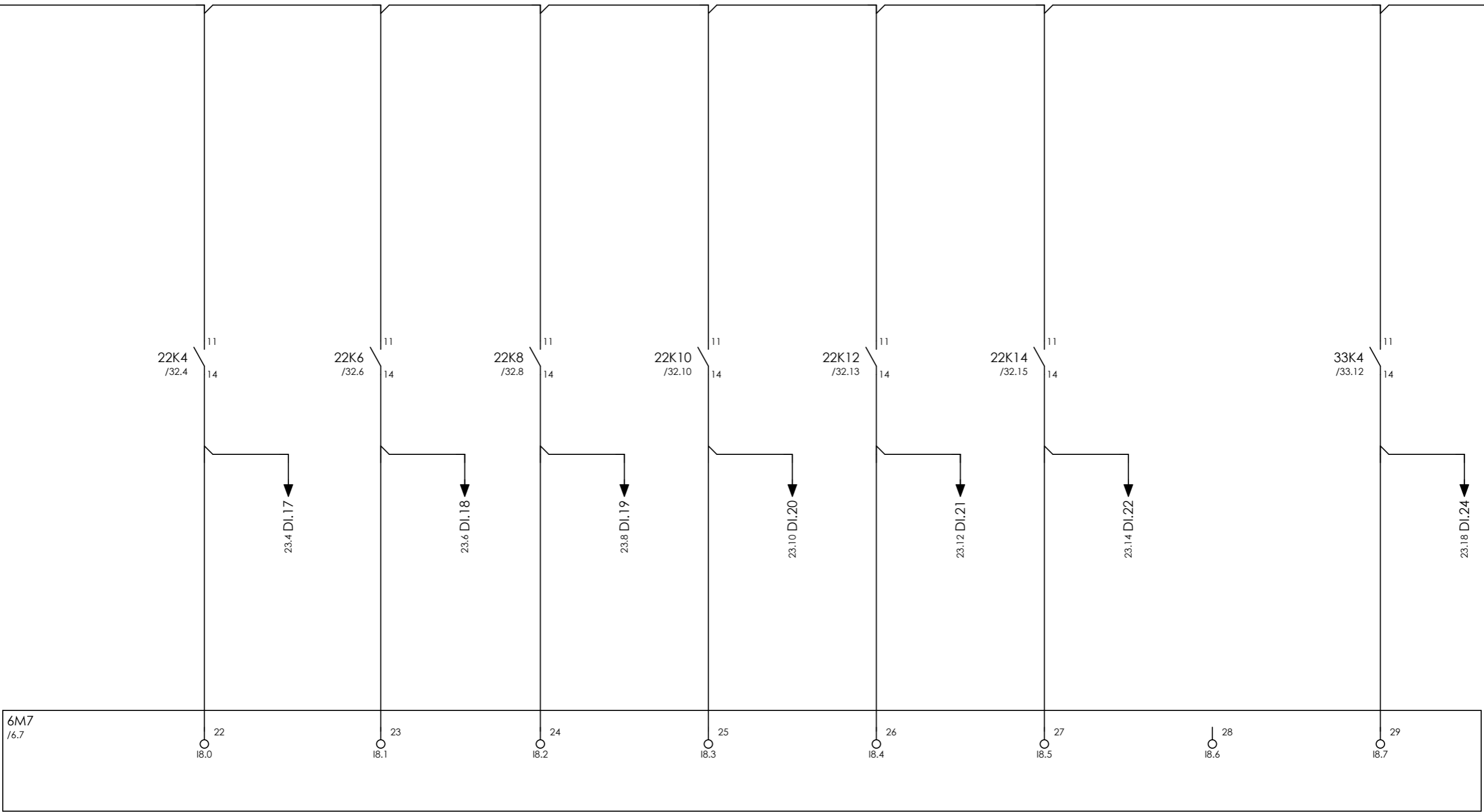
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ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

BY	RBE
DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	21

htaher	= 20-C-7080
RBE	+ UCP-C7080-01
CURRENT PAGE	

Tag to be modified

11.19 / 24VDC → 24VDC / 32.2



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

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

COMPRESSOR B
OIL HEATER LG-71101
ON

COMPRESSOR B
OIL HEATER LG-71101
FAULT

SPARE

SPARE

SPARE

TIME
SYNCHRONIZATION
XCS-715



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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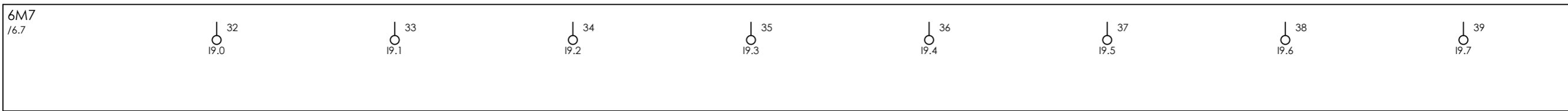
SUBJECT	DIGITAL INPUTS I
ADAPTED TO P&ID REVISION	01

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

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	15/10/2021

AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	22

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

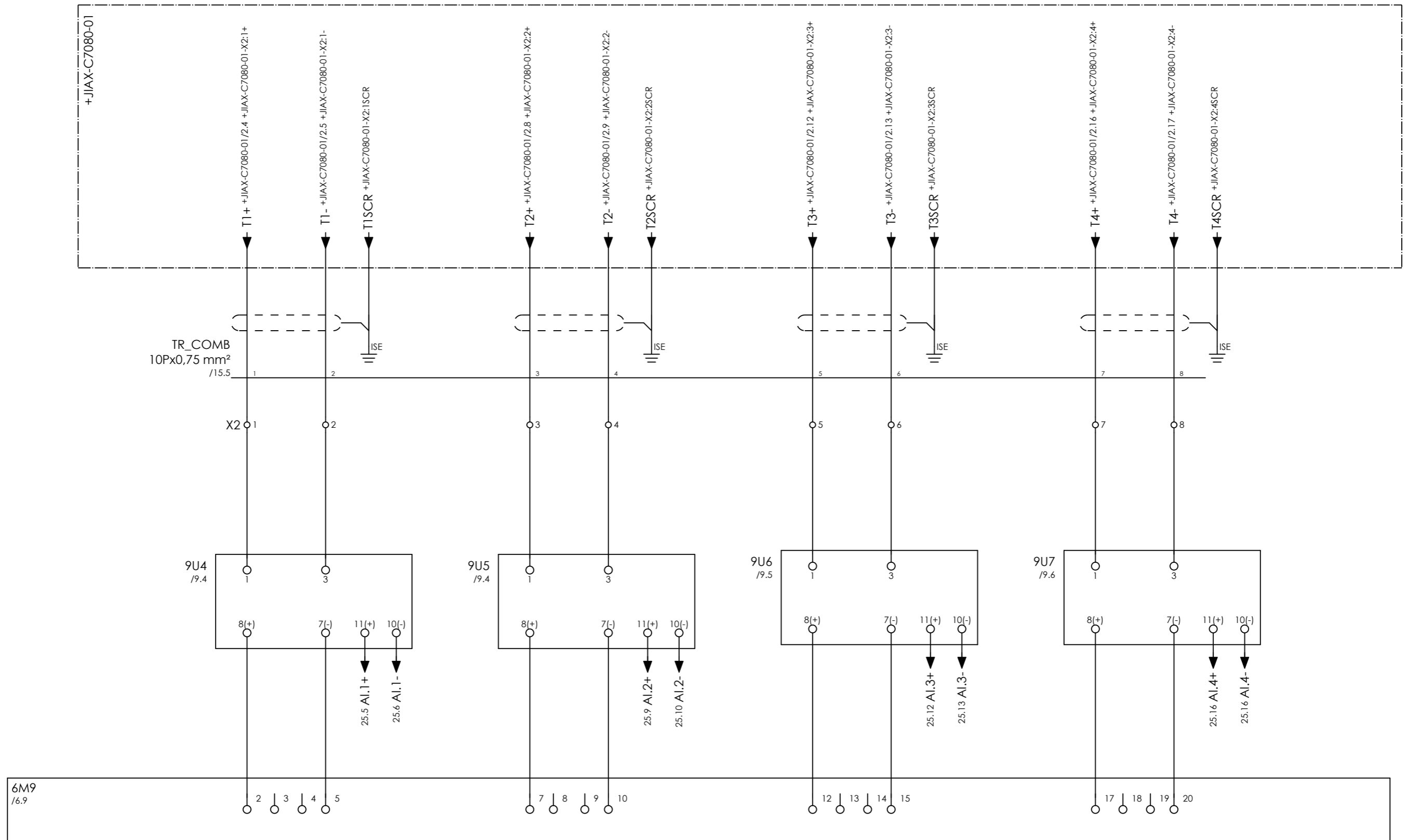


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	23

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



COMPRESSOR B
INLET PRESSURE
PIT-71103

COMPRESSOR B
OIL SYSTEM PRESSURE
PIT-71104

COMPRESSOR B
OUTLET PPRESSURE
PIT-71107

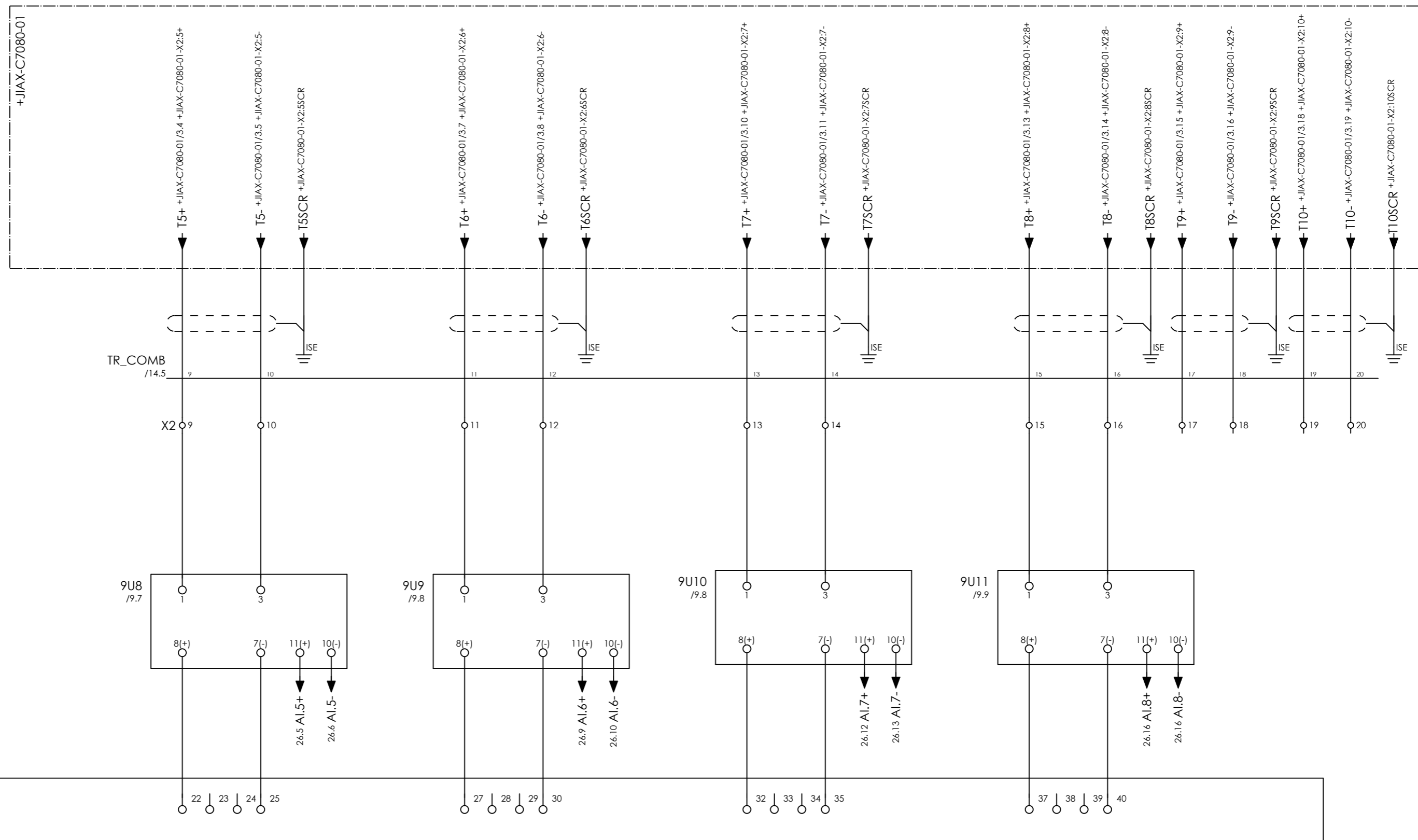
COMPRESSOR B
INLET TEMPERATURE
TIT-71101



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
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	+ UCP-C7080-01
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	24	



COMPRESSOR B
UPSTREAM AFTER COOLER TEMPERATURE
TIT-71102

COMPRESSOR B
COOLING WATER OUTLET FLOW
FT-71101

COMPRESSOR B
BEARING VIBRATION
VT-71101

SPARE

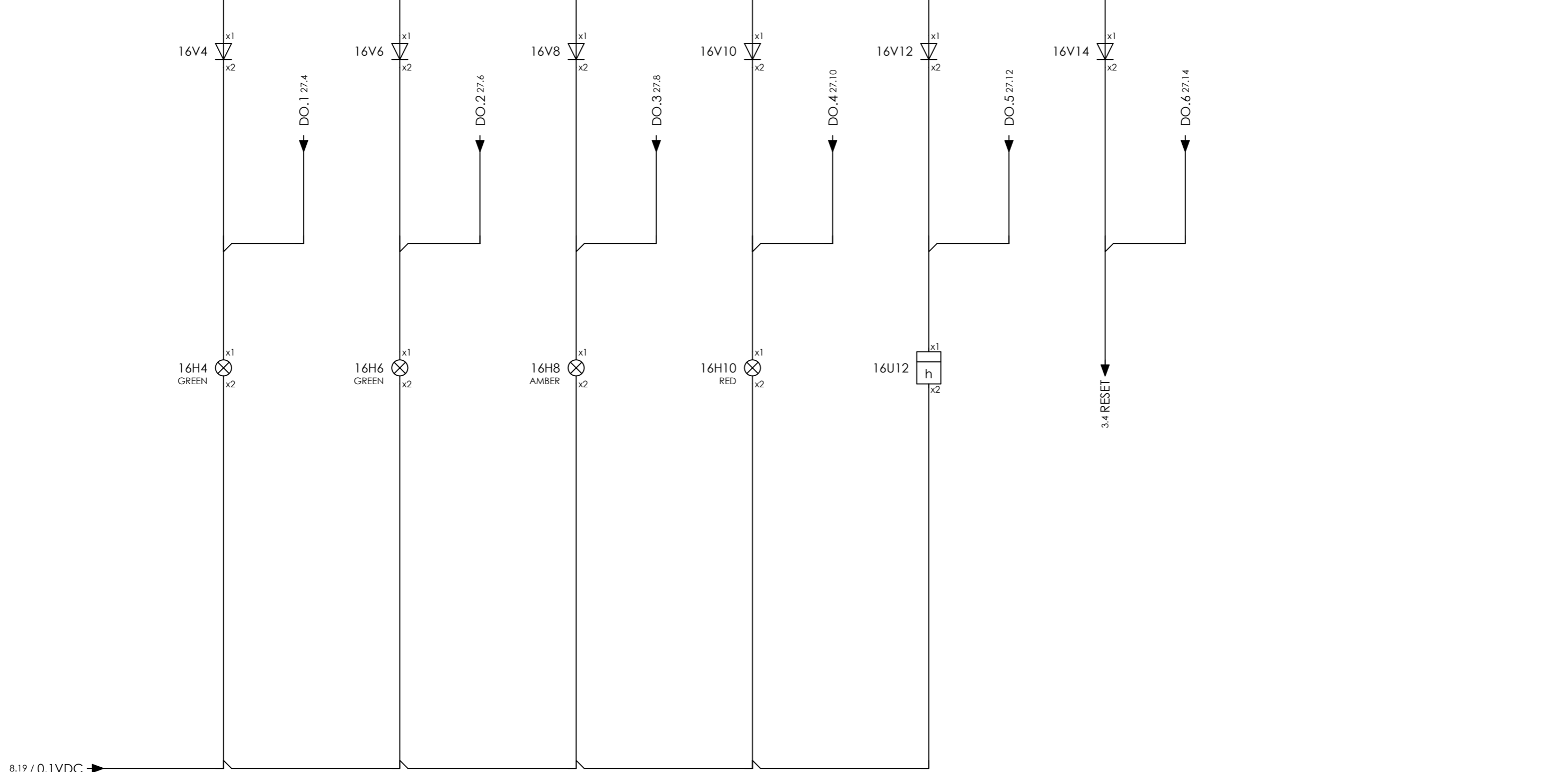
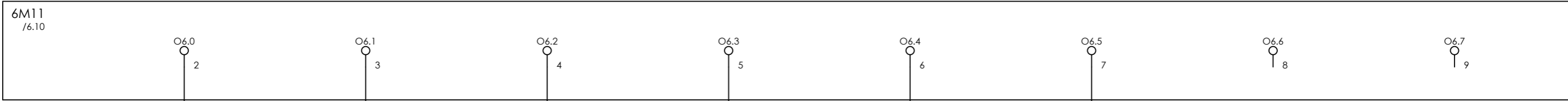


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

DRAWN BY	htaher
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LAST MODIFICATION DATE	15/10/2021
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REVISION	01
TOTAL PAGE AMOUNT	25

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+ UCP-C7080-01
CURRENT PAGE



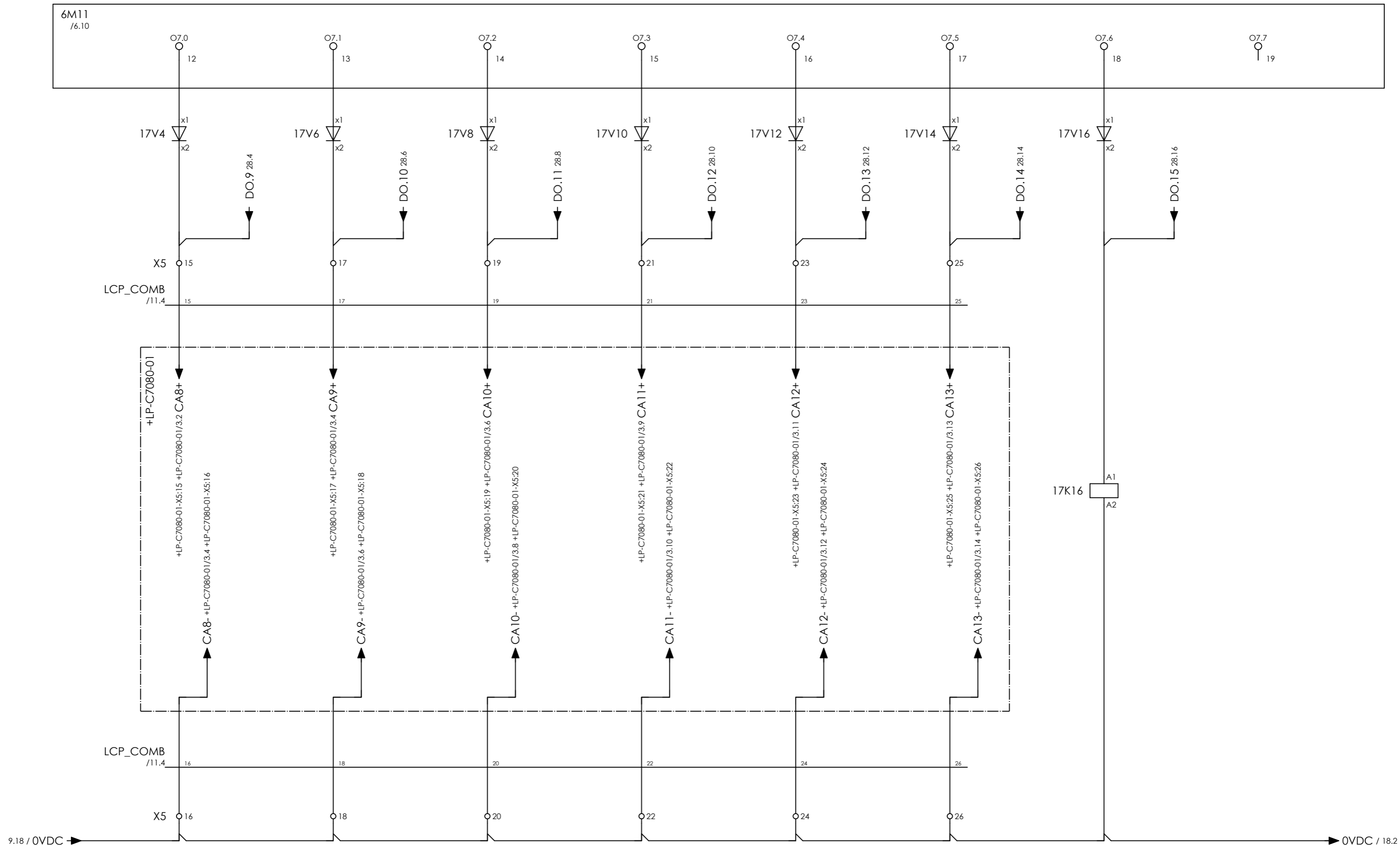
COMPRESSOR B OPERATIONAL XL-71106 COMPRESSOR B RUNNING XL-71107 COMPRESSOR B COMMON ALARM XL-71108 COMPRESSOR B COMMON TRIP XL-71109 COMPRESSOR B HOURMETER HM-71101 RESET ESD RELAY SPARE SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS I	
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	+ UCP-C7080-01
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	26	



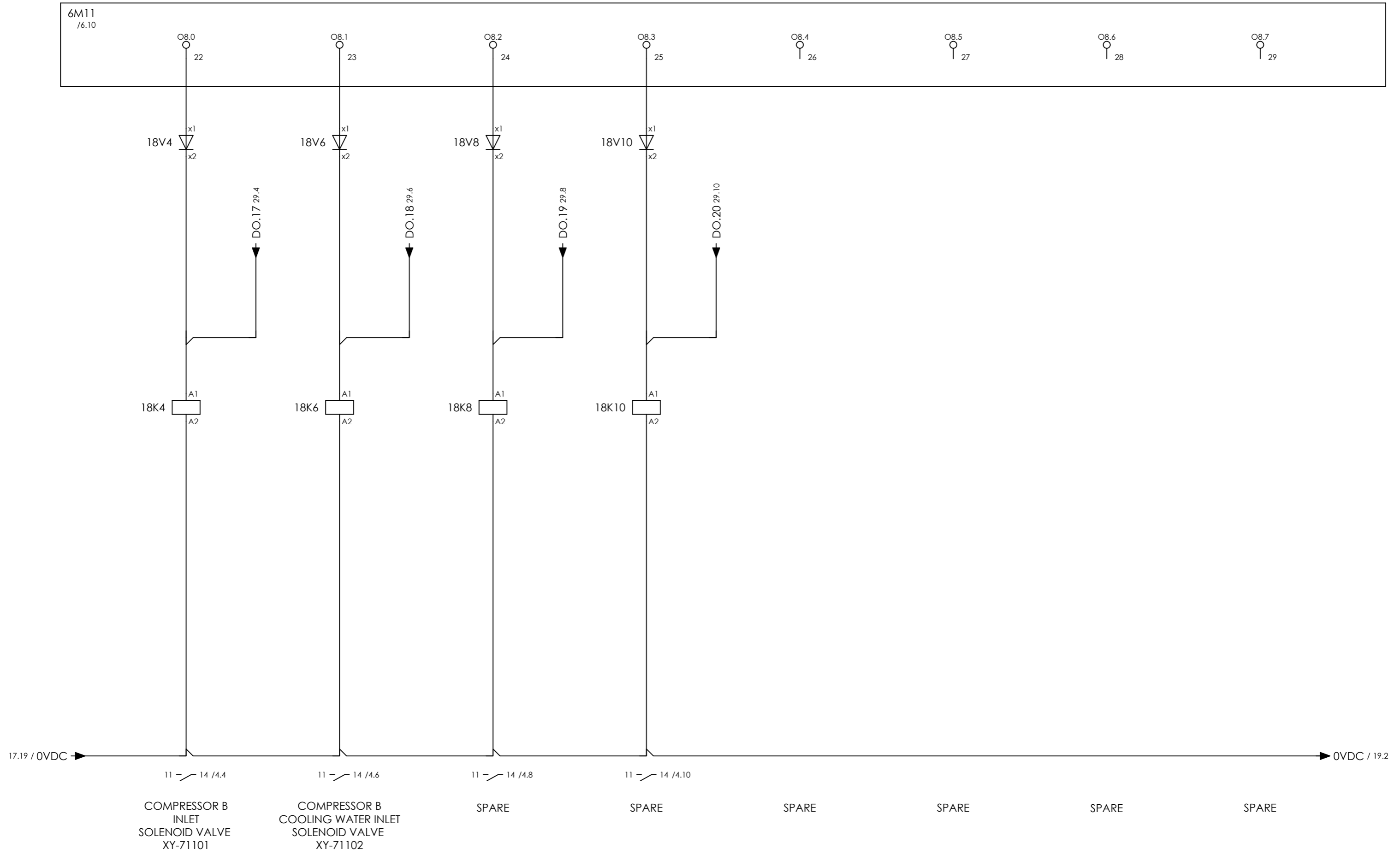
11 - 14 /3.10
21 - 24 /3.11

COMPRESSOR B OPERATIONAL XL-71101 COMPRESSOR B RUNNING XL-71102 COMPRESSOR B COMMON ALARM XL-71103 COMPRESSOR B COMMON TRIP XL-71104 SPARE SPARE COMPRESSOR B FORCED SHUTDOWN SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT		DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	DIGITAL OUTPUTS I		CHECKED BY	RBE	+ UCP-C7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	15/10/2021	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	27	

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CHECKED BY	RBE	+ UCP-C7080-01
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	27	

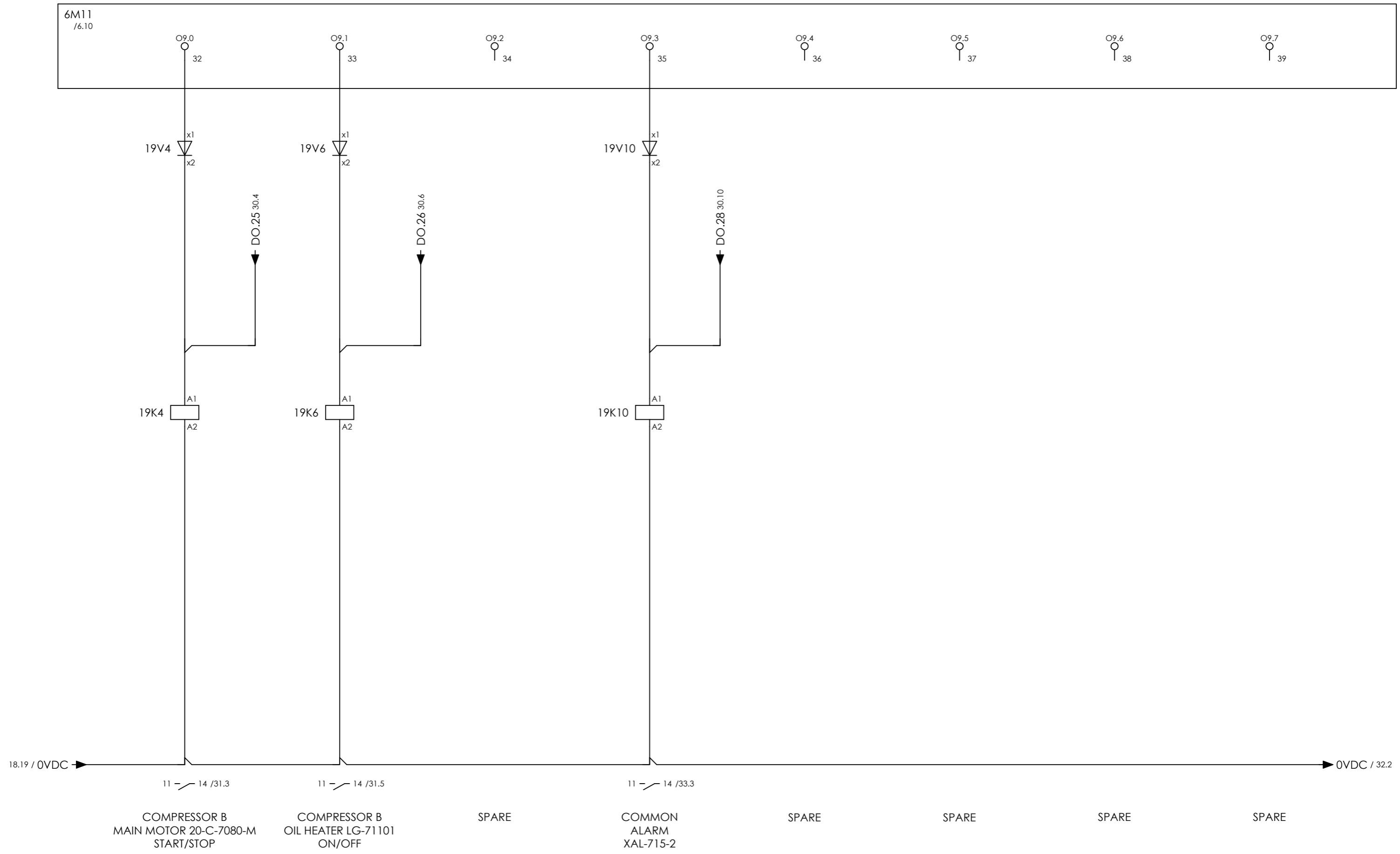


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT	
DIGITAL OUTPUTS I	
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	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	28

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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

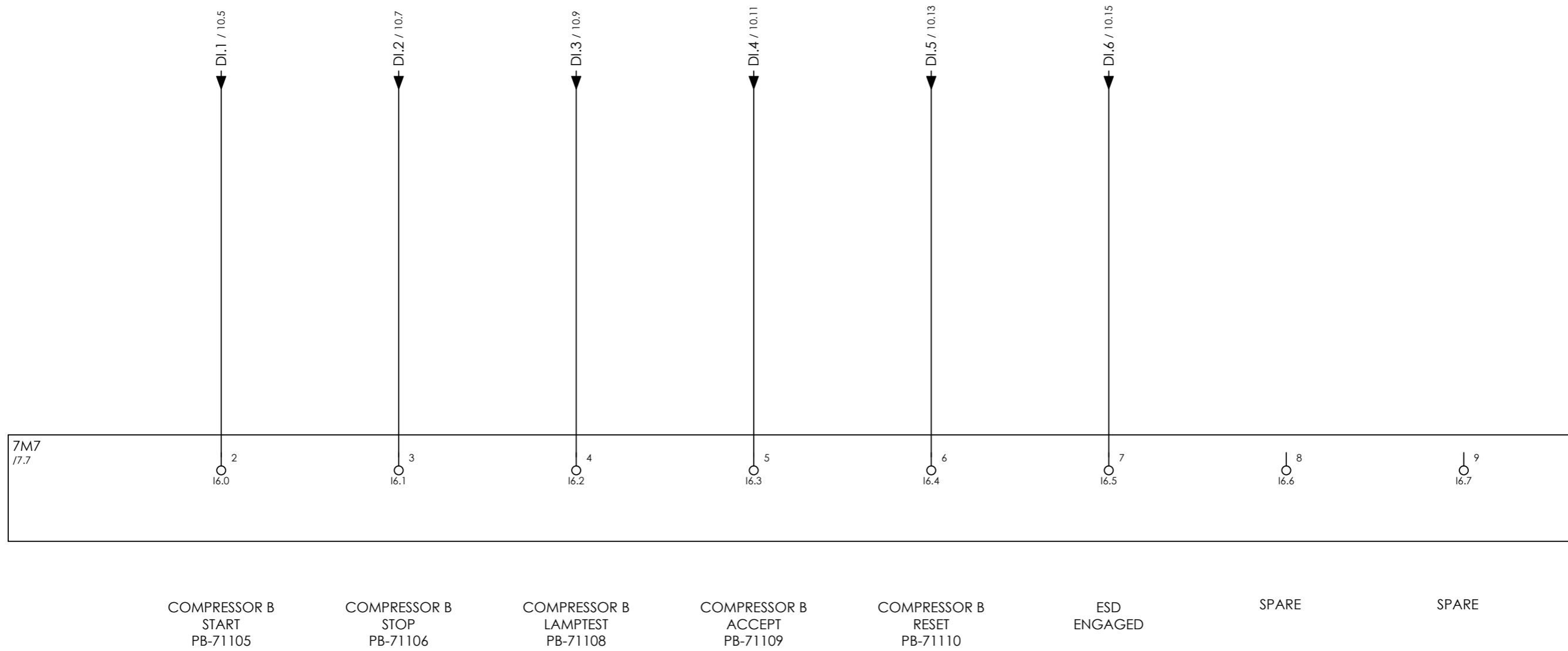
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LAST MODIFICATION DATE	15/10/2021
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REVISION	01
TOTAL PAGE AMOUNT	29

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+ UCP-C7080-01
CURRENT PAGE

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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT		DRAWN BY	htahter	= 20-C-7080
EQUIPMENT NO.	20-C-7080	EMPTY PAGE		CHECKED BY	RBE	+ UCP-C7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		AIRPACK REF.	17811-05B	TOTAL PAGE AMOUNT	30	

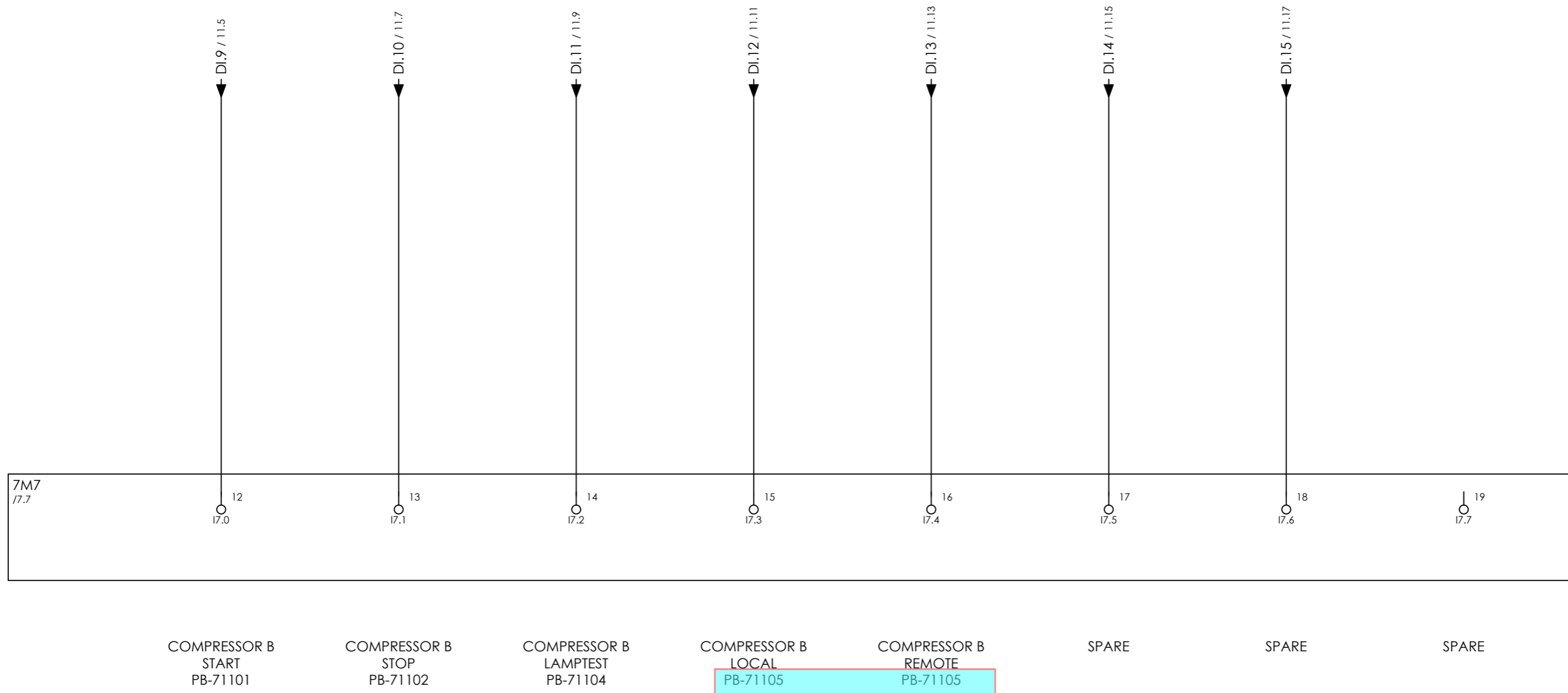


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT	
DIGITAL INPUTS II	
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	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	31

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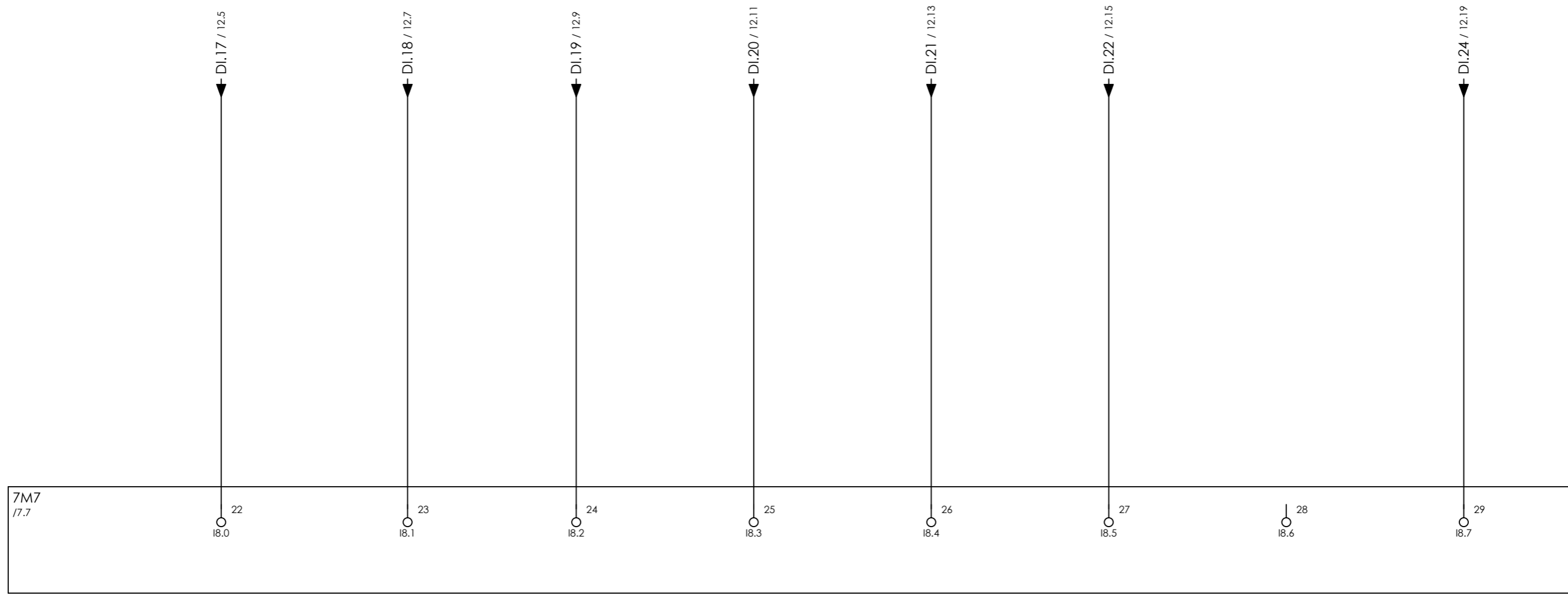


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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

DESIGNED BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	32

= 20-C-7080
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CURRENT PAGE



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

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

COMPRESSOR B
OIL HEATER LG-71101
ON

COMPRESSOR B
OIL HEATER LG-71101
FAULT

SPARE

SPARE

SPARE

TIME
SYNCHRONIZATION
XCS-715

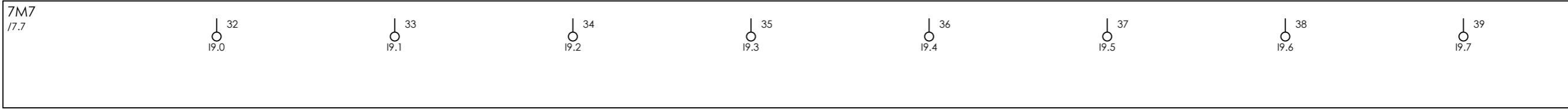


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS II	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	33

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+ UCP-C7080-01
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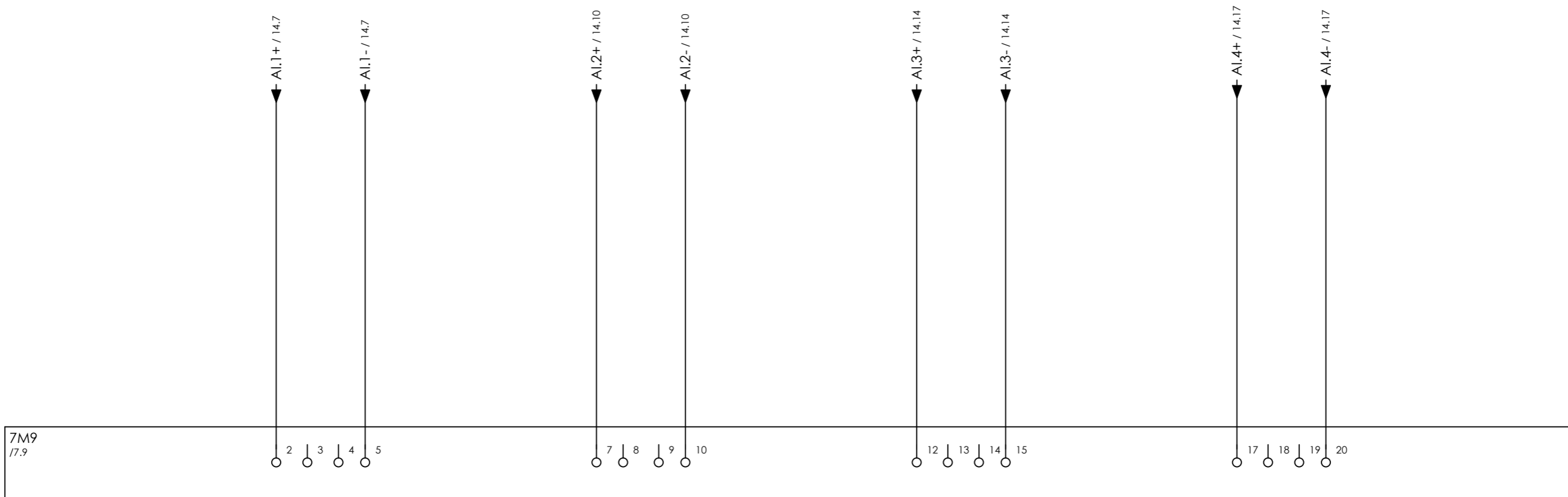


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS II	
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	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	34

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



COMPRESSOR B
INLET PRESSURE
PIT-71103

COMPRESSOR B
OIL SYSTEM PRESSURE
PIT-71104

COMPRESSOR B
OUTLET PRESSURE
PIT-71107

COMPRESSOR B
INLET TEMPERATURE
TIT-71101

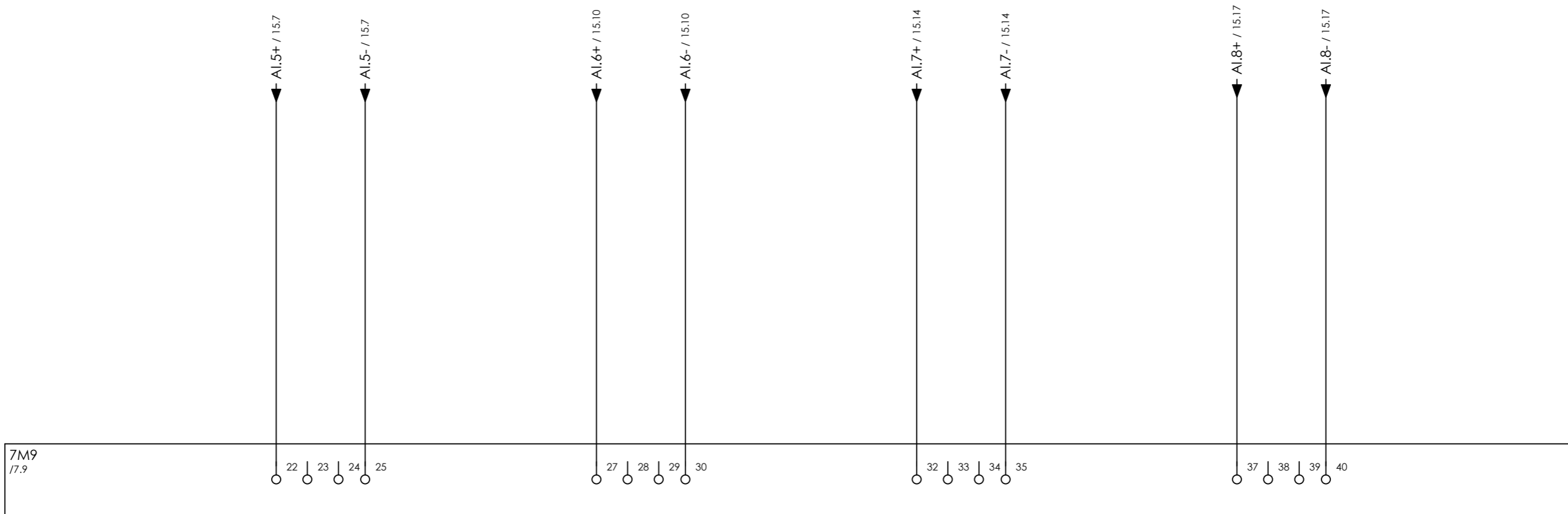


CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO. 20-C-7080
EQUIPMENT LOCATION Iran, Onshore
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SUBJECT ANALOG INPUTS II
ADAPTED TO P&ID REVISION 01
CLIENT Bushehr Petrochemical Company (BUPC)
CLIENT REF. Bushehr MEG Plant Project
AIRPACK REF. 17811-05B

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LAST MODIFICATION DATE 15/10/2021
AIRPACK DWG NO. 17811-05B
REVISION 01
TOTAL PAGE AMOUNT 35

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE
25



COMPRESSOR B
UPSTREAM AFTER COOLER TEMPERATURE
TIT-71102

COMPRESSOR B
COOLING WATER OUTLET FLOW
FT-71101

COMPRESSOR B
BEARING VIBRATION
VT-71101

SPARE

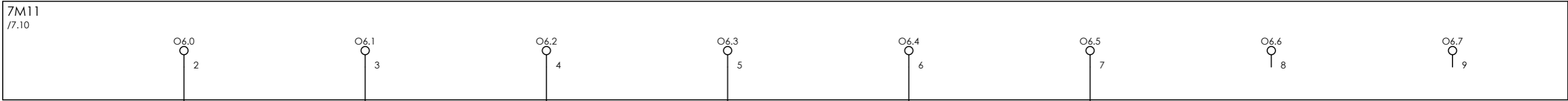


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	36

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



27V4

27V6

27V8

27V10

27V12

27V14

16.5 / DO.1

16.7 / DO.2

16.9 / DO.3

16.11 / DO.4

16.13 / DO.5

16.15 / DO.6

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-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS II	
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	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	37

= 20-C-7080
+ UCP-C7080-01
CURRENT PAGE



COMPRESSOR B
OPERATIONAL
XL-71101

COMPRESSOR B
RUNNING
XL-71102

COMPRESSOR B
COMMON ALARM
XL-71103

COMPRESSOR B
COMMON TRIP
XL-71104

SPARE

SPARE

COMPRESSOR B
FORCED SHUTDOWN

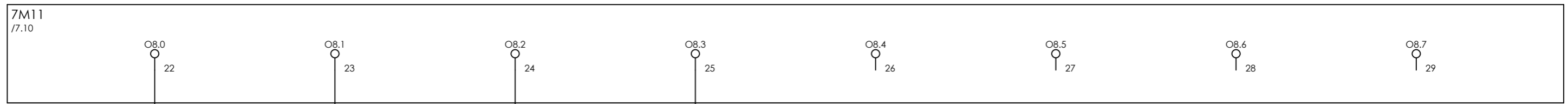
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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DIGITAL OUTPUTS II		CHECKED BY		RBE		+ UCP-C7080-01	
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE		15/10/2021		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		38			



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



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT		DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	DIGITAL OUTPUTS II		CHECKED BY	RBE	+ UCP-C7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	15/10/2021	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	39	



COMPRESSOR B
MAIN MOTOR 20-C-7080-M
START/STOP

COMPRESSOR B
OIL HEATER LG-71101
ON/OFF

SPARE

COMMON
ALARM
XAL-715-2

SPARE

SPARE

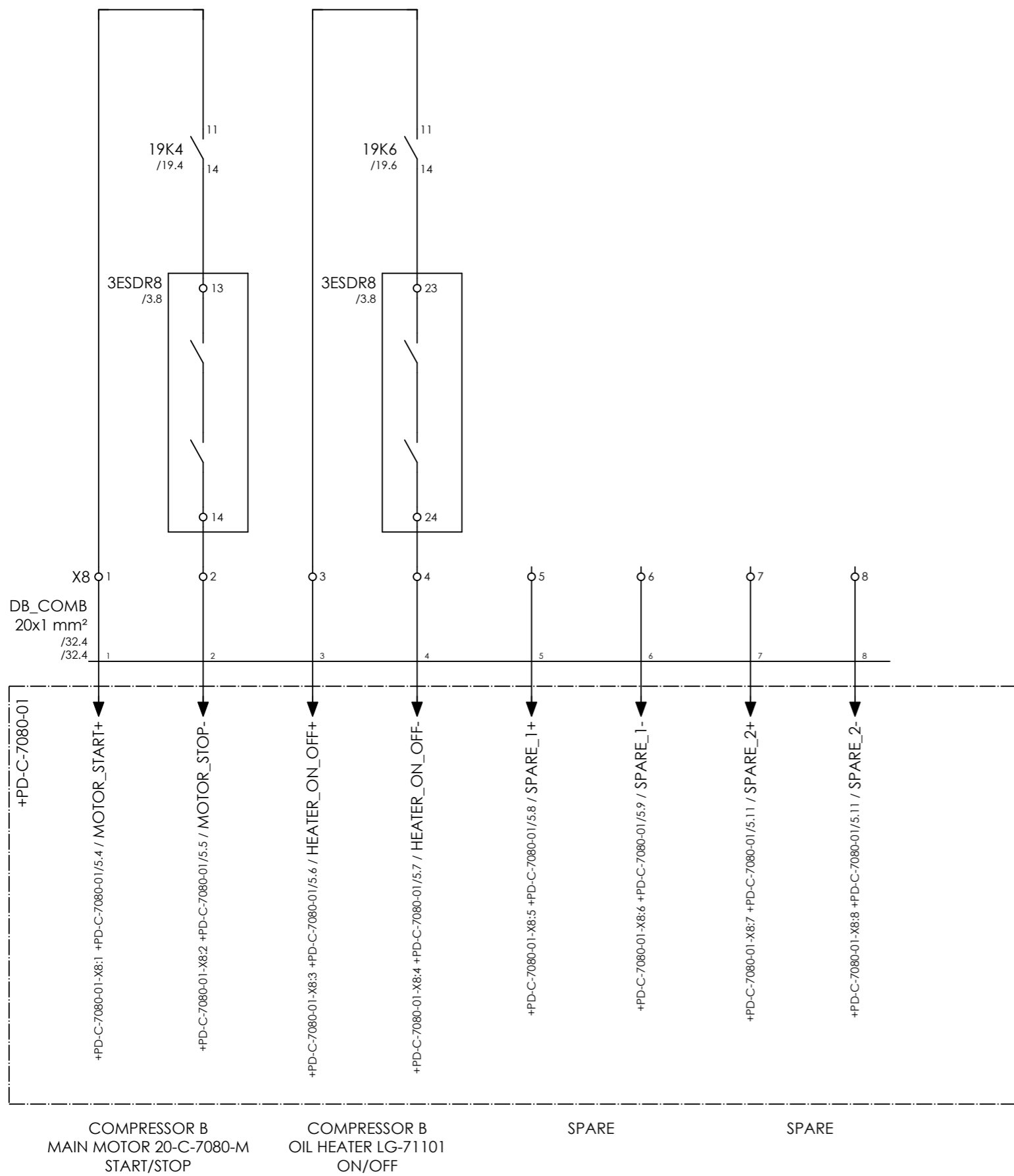
SPARE

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	htaher	= 20-C-7080
DIGITAL OUTPUTS II		CHECKED BY	RBE	+ UCP-C7080-01
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	15/10/2021	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	40	



COMPRESSOR B
MAIN MOTOR 20-C-7080-M
START/STOP

COMPRESSOR B
OIL HEATER LG-71101
ON/OFF

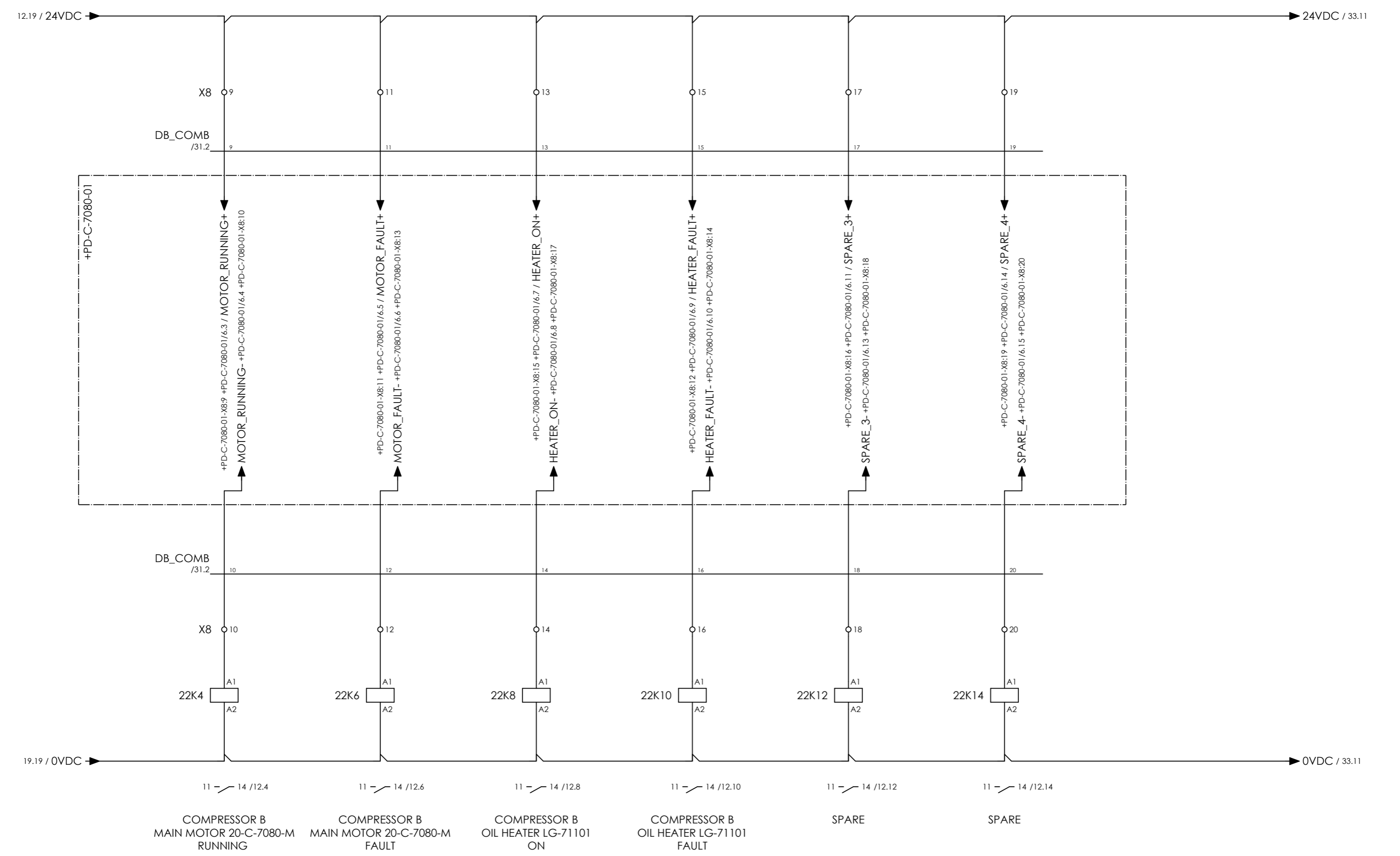
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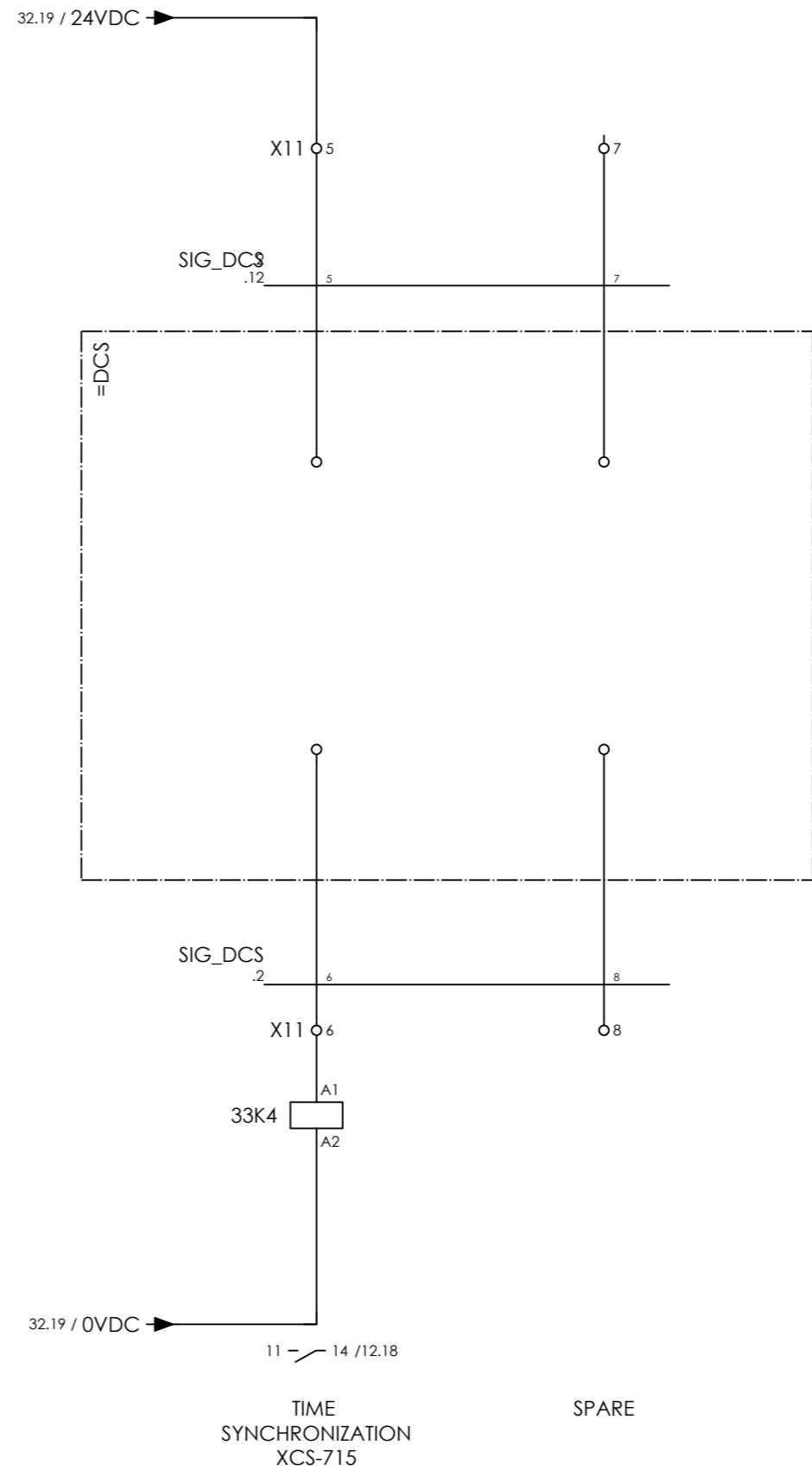
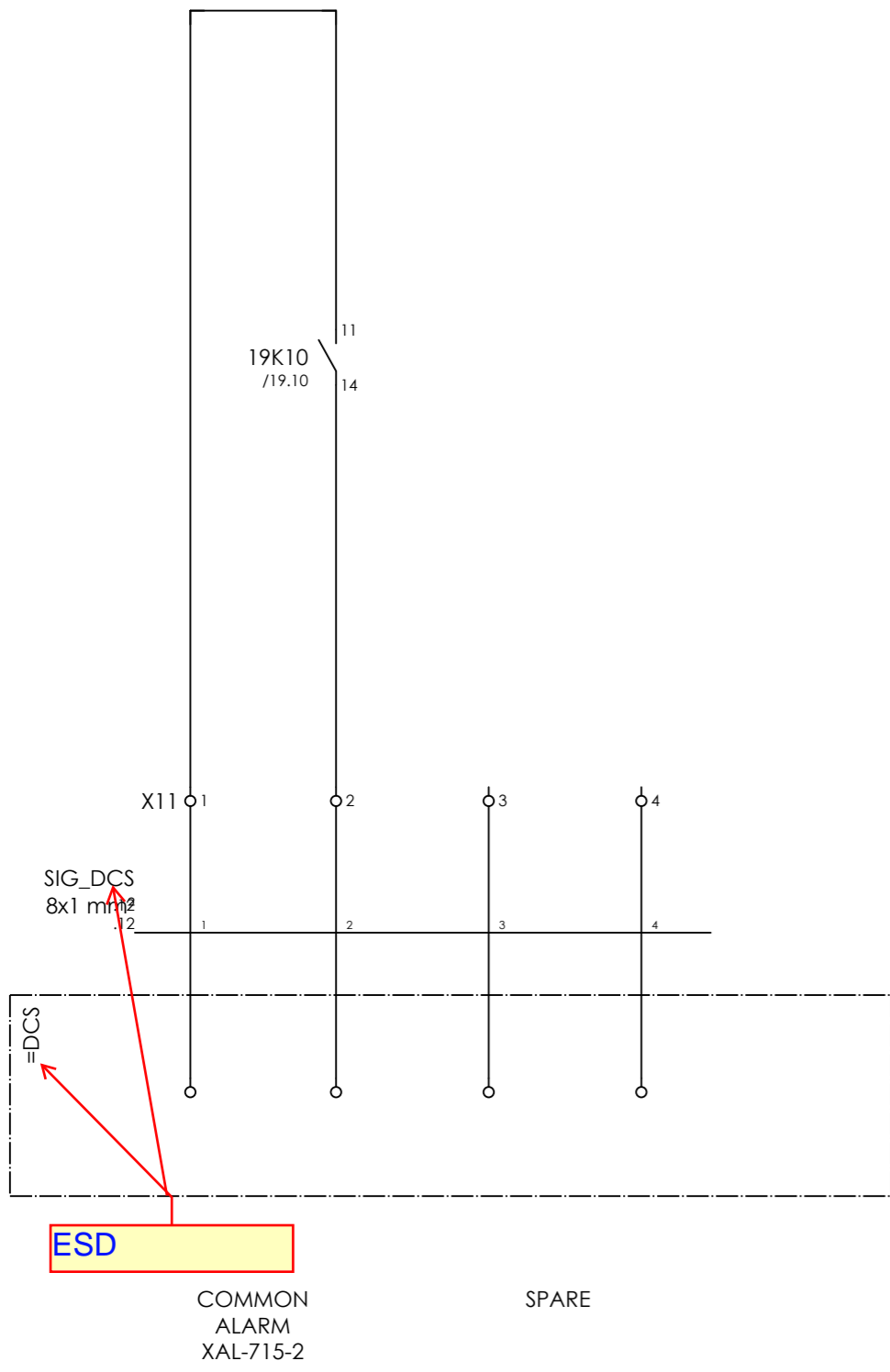
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY		htaher		= 20-C-7080	
SIGNALS TO DISTRIBUTION BOARD		CHECKED BY		RBE		+ UCP-C7080-01	
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	15/10/2021		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	41			



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT		DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	SIGNALS FROM DISTRIBUTION BOARD		CHECKED BY	RBE	+ UCP-C7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		AIRPACK REF.	17811-05B	TOTAL PAGE AMOUNT	42	

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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
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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LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	43

= 20-C-7080
+ UCP-C7080-01
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Terminal diagram

Cable name		Strip =20-C-7080+20-UCP-C7080-01-X0 POWER SUPPLY 110VAC / 230VAC FROM CUSTOMER							Cable name	
Terminal	Connection point	Target designation	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
-PS_02	3x2.5 sqmm	=CUSTOMER-L	1	.	-2S2	2				
-PS_01	3x2.5 sqmm	=CUSTOMER-N	2	.	-2S2	4				
-PS_00	3x2.5 sqmm	=CUSTOMER-PE	3	.		PE				
		=CUSTOMER-L	4	.	-2S4	2				
		=CUSTOMER-N	5	.	-2S4	4				
		=CUSTOMER-PE	6	.		PE				
		=CUSTOMER-L	7	.	-2S6	2				
		=CUSTOMER-N	8	.	-2S6	4				
		=CUSTOMER-PE	9	.		PE				



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
 EQUIPMENT NO. 20-C-7080
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-7080+UCP-C7080-01-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 44

= 20-C-7080
 + UCP-C7080-01
 CURRENT PAGE

Terminal diagram

Cable name		Strip =20-C-7080+UCP-C7080-01-X1 SOLENOIDS										Cable name	
		Target designation	Connection point	Terminal	Jumper	Target designation	Connection point						
-SOL_COMB	5Px2.5 mm²	+JNDX-7000-X1	1	1		-20K4	14						
		+JNDX-7000-X1	2	2	•	-3ESDR2	24						
		+JNDX-7000-X1	3	3		-20K6	14						
		+JNDX-7000-X1	4	4	•								
		+JNDX-7000-X1	5	5		-20K8	14						
		+JNDX-7000-X1	6	6	•								
		+JNDX-7000-X1	7	7		-20K10	14						
		+JNDX-7000-X1	8	8	•								
		+JNDX-7000-X1	9	9									
		+JNDX-7000-X1	10	10									



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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT	Terminal diagram =20-C-7080+UCP-C7080-01-X1
EQUIPMENT NO.	20-C-7080	ADAPTED TO P&ID REVISION	01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
		CLIENT REF.	Bushehr MEG Plant Project
		AIRPACK REF.	17811-05B

DRAWN BY	htaher	= 20-C-7080
CHECKED BY	RBE	+ UCP-C7080-01
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	45	

Terminal diagram

Cable name		Strip =20-C-7080+UCP-C7080-01-X2 ANALOGUE INPUTS							Cable name			
Terminal	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	Terminal
1	1	1	.	+JIAX-7001-X2	1	1	.	-9U4	1+			
2	2	2	.	+JIAX-7001-X2	2	2	.	-9U4	3			
3	3	3	.	+JIAX-7001-X2	3	3	.	-9U5	1+			
4	4	4	.	+JIAX-7001-X2	4	4	.	-9U5	3			
5	5	5	.	+JIAX-7001-X2	5	5	.	-9U6	1+			
6	6	6	.	+JIAX-7001-X2	6	6	.	-9U6	3			
7	7	7	.	+JIAX-7001-X2	7	7	.	-9U7	1+			
8	8	8	.	+JIAX-7001-X2	8	8	.	-9U7	3			
9	9	9	.	+JIAX-7001-X2	9	9	.	-9U8	1+			
10	10	10	.	+JIAX-7001-X2	10	10	.	-9U8	3			
11	11	11	.	+JIAX-7001-X2	11	11	.	-9U9	1+			
12	12	12	.	+JIAX-7001-X2	12	12	.	-9U9	3			
13	13	13	.	+JIAX-7001-X2	13	13	.	-9U10	1+			
14	14	14	.	+JIAX-7001-X2	14	14	.	-9U10	3			
15	15	15	.	+JIAX-7001-X2	15	15	.					
16	16	16	.	+JIAX-7001-X2	16	16	.					
17	17	17	.	+JIAX-7001-X2	17	17	.					
18	18	18	.	+JIAX-7001-X2	18	18	.					
19	19	19	.	+JIAX-7001-X2	19	19	.					
20	20	20	.	+JIAX-7001-X2	20	20	.					



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
 EQUIPMENT NO. 20-C-7080
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-7080+UCP-C7080-01-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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 AIRPACK DWG NO. 17811-05B
 REVISION 01
 TOTAL PAGE AMOUNT 46

= 20-C-7080
 + UCP-C7080-01
 CURRENT PAGE

Terminal diagram

Cable name		Strip =20-C-7080+UCP-C7080-01-X5 CONNECTION PUSHBUTTONS / LAMPS										Cable name	
Terminal	Connection point	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	Target designation	Connection point	Terminal	Connection point
-LCP_COMB	26x1 mm ²												
1	1	+LP-C-7080-01-X5	1	1	•	-9V4	1	1	x1				
2	2	+LP-C-7080-01-X5	2	2	•	-6M7	2	2	12				
3	3	+LP-C-7080-01-X5	3	3	•		3	3					
4	4	+LP-C-7080-01-X5	4	4	•	-6M7	4	4	13				
5	5	+LP-C-7080-01-X5	5	5	•		5	5					
6	6	+LP-C-7080-01-X5	6	6	•	-6M7	6	6	14				
7	7	+LP-C-7080-01-X5	7	7	•		7	7					
8	8	+LP-C-7080-01-X5	8	8	•	-6M7	8	8	15				
9	9	+LP-C-7080-01-X5	9	9	•		9	9					
10	10	+LP-C-7080-01-X5	10	10	•	-6M7	10	10	16				
11	11	+LP-C-7080-01-X5	11	11	•		11	11					
12	12	+LP-C-7080-01-X5	12	12	•	-6M7	12	12	17				
13	13	+LP-C-7080-01-X5	13	13	•	-24K4	13	13	11				
14	14	+LP-C-7080-01-X5	14	14	•	-6M7	14	14	18				
15	15	+LP-C-7080-01-X5	15	15	•	-6M11	15	15	12				
16	16	+LP-C-7080-01-X5	16	16	•	-14U8	16	16	15(-)				
17	17	+LP-C-7080-01-X5	17	17	•	-6M11	17	17	13				
18	18	+LP-C-7080-01-X5	18	18	•		18	18					
19	19	+LP-C-7080-01-X5	19	19	•	-6M11	19	19	14				
20	20	+LP-C-7080-01-X5	20	20	•		20	20					
21	21	+LP-C-7080-01-X5	21	21	•	-6M11	21	21	15				
22	22	+LP-C-7080-01-X5	22	22	•		22	22					
23	23	+LP-C-7080-01-X5	23	23	•	-6M11	23	23	16				
24	24	+LP-C-7080-01-X5	24	24	•		24	24					
25	25	+LP-C-7080-01-X5	25	25	•	-6M11	25	25	17				
26	26	+LP-C-7080-01-X5	26	26	•	-19K16	26	26	A2				



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
 EQUIPMENT NO. 20-C-7080
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-7080+UCP-C7080-01-X5
 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 15/10/2021
 AIRPACK DWG NO. 17811-05B
 REVISION 01
 TOTAL PAGE AMOUNT 48

= 20-C-7080
 + UCP-C7080-01
 CURRENT PAGE

Terminal diagram

Cable name		Strip =20-C-7080+UCP-C7080-01-X9 EMERGENCY SHUTDOWN							Cable name	
Terminal	Connection point	Jumper	Target designation	Terminal	Connection point	Target designation	Terminal	Connection point	Cable name	Area
1	1	.	-19K16	1	1	+LP-C-7080-01-X9	1	1	-ESD_LCP_B	4x1 mm ²
2	2	.	-19K16	2	2	+LP-C-7080-01-X9	2	2	-ESD_COM	4x1 mm ²
3	3	.		3	3	+LP-C-7080-01-X9	3	3	-ESD_LCP_B	4x1 mm ²
4	4	.		4	4	+LP-C-7080-01-X9	4	4		
5	5	.	-3S3	5	5		5	5		
6	6	.	-3S3	6	6		6	6		
7	7	.		7	7		7	7		
	PE			PE	PE					



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
 EQUIPMENT NO. 20-C-7080
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-7080+UCP-C7080-01-X9
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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
 REVISION 01
 TOTAL PAGE AMOUNT 50

= 20-C-7080
 + UCP-C7080-01
 CURRENT PAGE
 40

Terminal diagram

Cable name		Strip =20-C-7080+UCP-C7080-01-X11 SIGNALS FROM DCS								Cable name	
Terminal	Connection point	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	
1		.	-19K10	11	1	.			1		
2		.	-19K10	14	2	.			2		
3		.			3	.			3		
4		.			4	.			4		
5		.	-X8	19	5	.			5		
6		.	-33K4	A1	6	.			6		
7		.			7	.			7		
8		.			8	.			8		



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
 EQUIPMENT NO. 20-C-7080
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-7080+UCP-C7080-01-X11
 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 15/10/2021
 AIRPACK DWG NO. 17811-05B
 REVISION 01
 TOTAL PAGE AMOUNT 51

= 20-C-7080
 + UCP-C7080-01
 CURRENT PAGE

TERMINAL STRIP DEFINITION

JUNCTION BOX
JNDX-C7080-01

X1 = CONNECTION SOLENOIDS

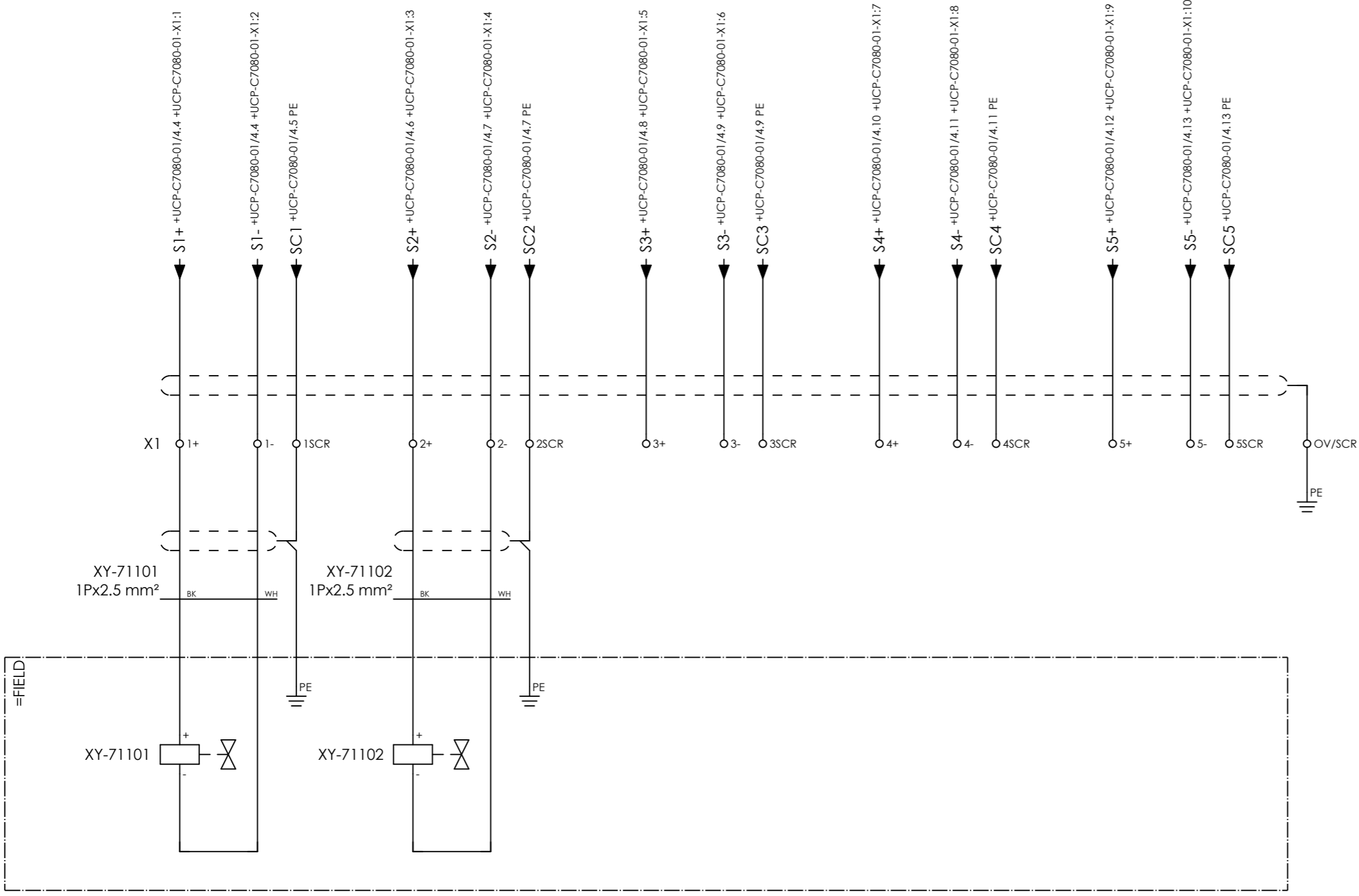


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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CHECKED BY	RBE
LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	94

= 20-C-7080
+ JNDX-C7080-01
CURRENT PAGE



COMPRESSOR B
INLET
SOLENOID VALVE
XY-71101

COMPRESSOR B
COOLING WATER INLET
SOLENOID VALVE
XY-71102

SPARE

SPARE

SPARE



CLIENT DWG NO.
EQUIPMENT NO.
EQUIPMENT LOCATION
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SUBJECT
CONNECTION SOLENOIDS
ADAPTED TO P&ID REVISION
CLIENT
CLIENT REF.
AIRPACK REF.

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LAST MODIFICATION DATE
AIRPACK DWG NO.
REVISION
PAGE NUMBER

htaher
RBE
15/10/2021
+ JNDX-C7080-01
CURRENT PAGE
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Terminal diagram

Cable name		Strip =20-C-7080+JNDX-C7080-01-X1 CONNECTION SOLENOIDS										Cable name			
Cable name	Cross section	Connection point	Target designation	Jumper	Terminal	Connection point	Target designation	Connection point	Target designation	Jumper	Terminal	Connection point	Target designation	Cross section	Cable name
+UCP-SOL_COMB	5Px2.5 mm²	1+	+UCP-C7080-01-X1	.	1+	+	=FIELD-XY-71101								
		2	+UCP-C7080-01-X1	.	1-	-	=FIELD-XY-71101								
		3	+UCP-C7080-01-X1	.	2+	+	=FIELD-XY-71102								
		4	+UCP-C7080-01-X1	.	2-	-	=FIELD-XY-71102								
		5	+UCP-C7080-01-X1	.	3+										
		6	+UCP-C7080-01-X1	.	3-										
		7			3SCR										
		8	+UCP-C7080-01-X1	.	4+										
		9	+UCP-C7080-01-X1	.	4-										
		10	+UCP-C7080-01-X1	.	5+										
					5-										
					5SCR										
					OV/SCR										
					PE										



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
 EQUIPMENT NO. 20-C-7080
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-7080+JNDX-C7080-01-X1
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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
 REVISION 01
 TOTAL PAGE AMOUNT 54

= 20-C-7080
 + JNDX-C7080-01
 CURRENT PAGE

TERMINAL STRIP DEFINITION

JUNCTION BOX
JIAX-C7080-01

X2 = CONNECTION TRANSMITTERS

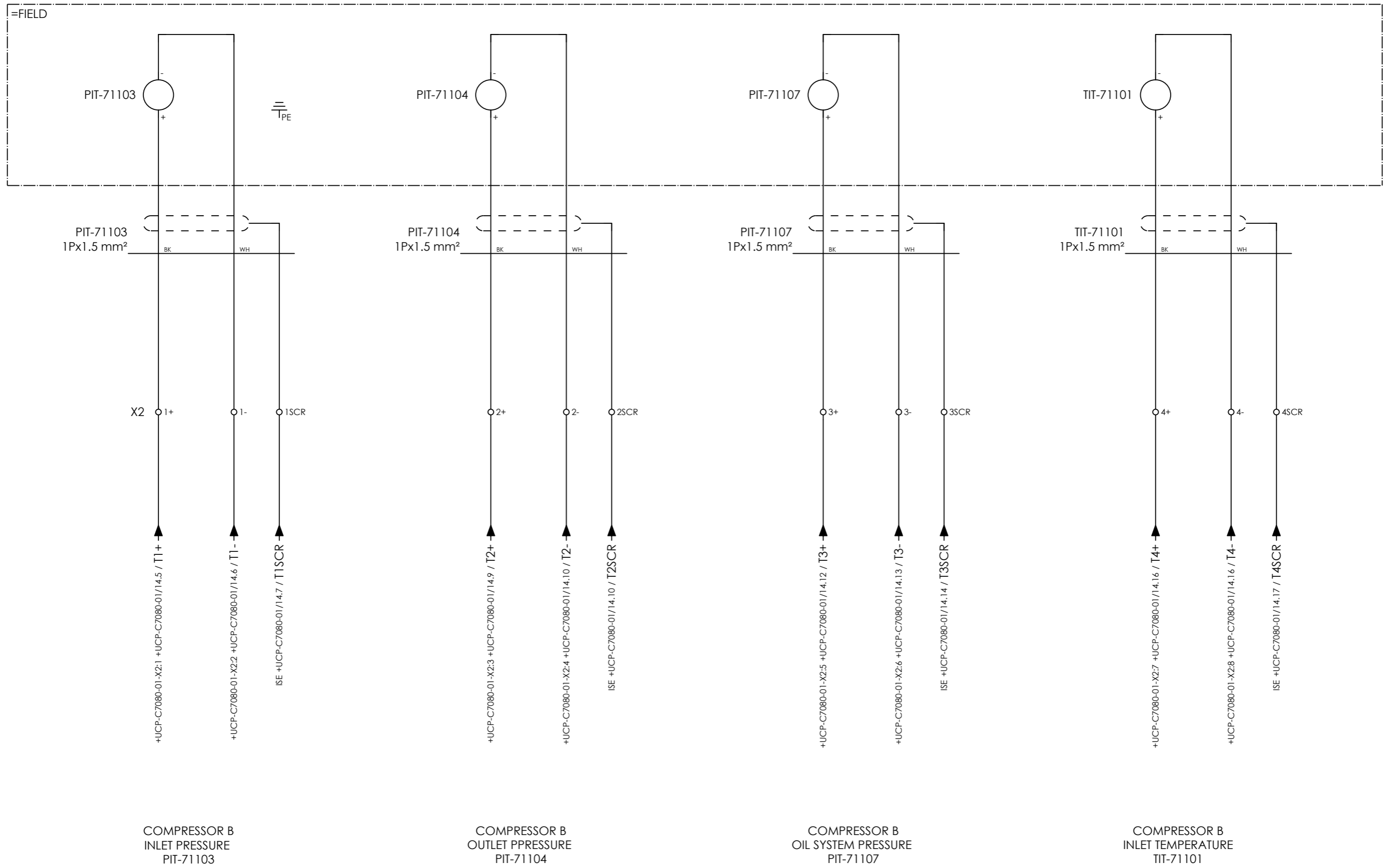


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	94

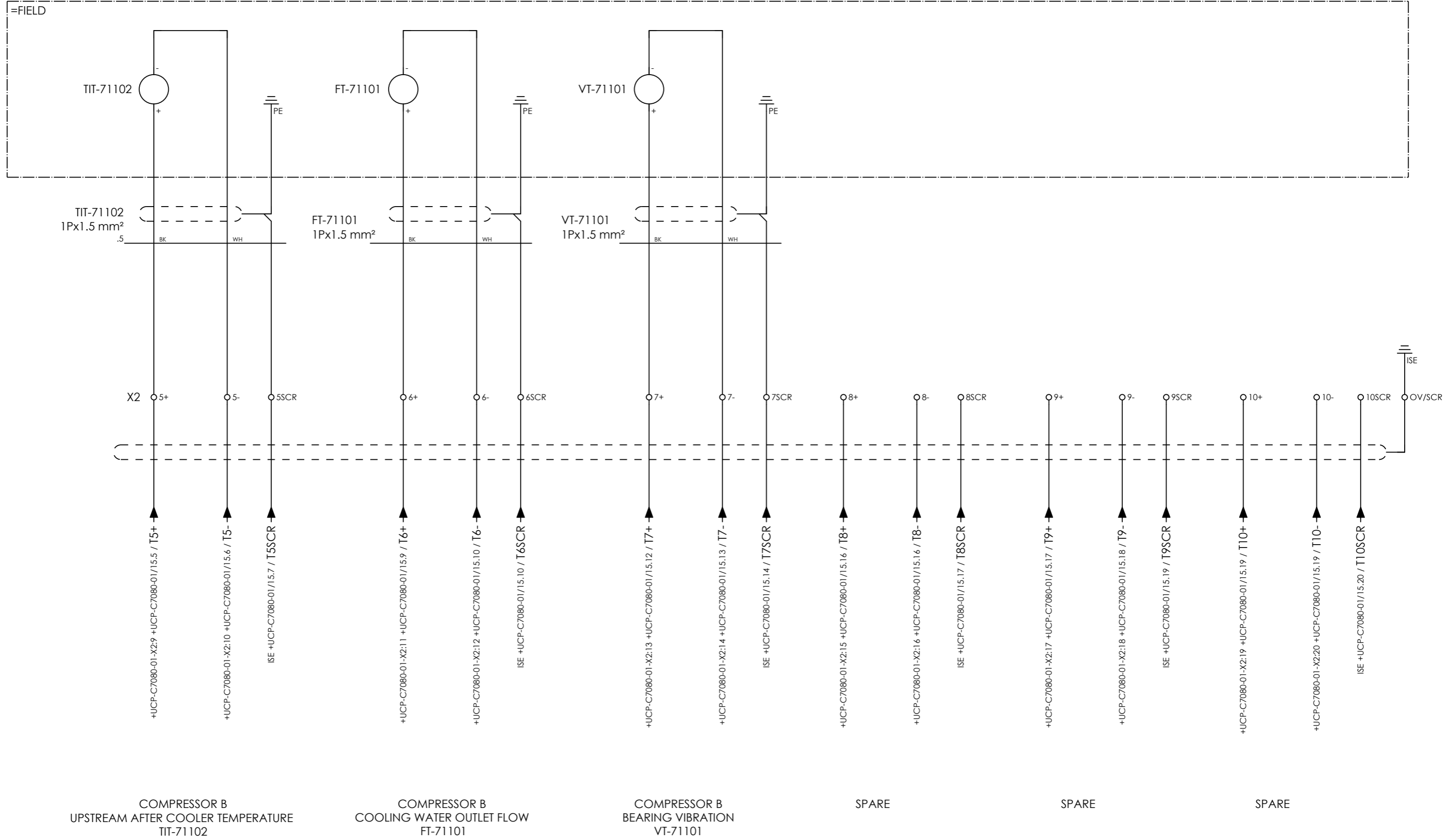
= 20-C-7080
+ JIAX-C7080-01
CURRENT PAGE



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

DRAWN BY	htaher	= 20-C-7080
CHECKED BY	RBE	+ JIAX-C7080-01
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.		
REVISION		
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CLIENT DWG NO.	
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05B

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LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.		
REVISION		
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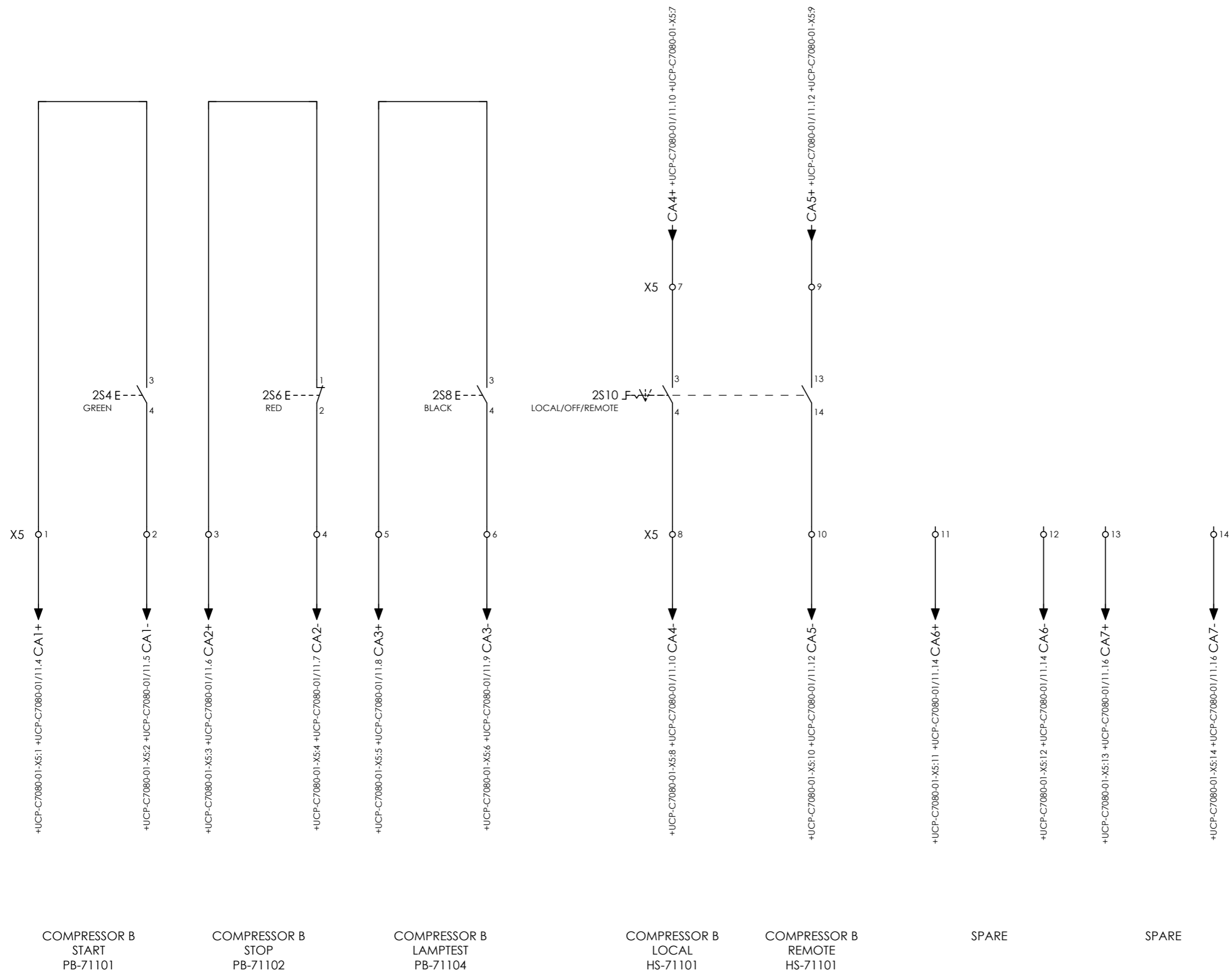
LOCAL CONTROL PANEL LP-C7080-01

TERMINAL STRIP DEFINITION

X5 = CONNECTION PUSHBUTTONS AND LAMPS
X9 = CONNECTION ESD BUTTON



CLIENT DWG NO.		SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080			CHECKED BY	RBE	+ LP-C7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION		LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION		
		AIRPACK REF.	17811-05B	PAGE NUMBER	94	

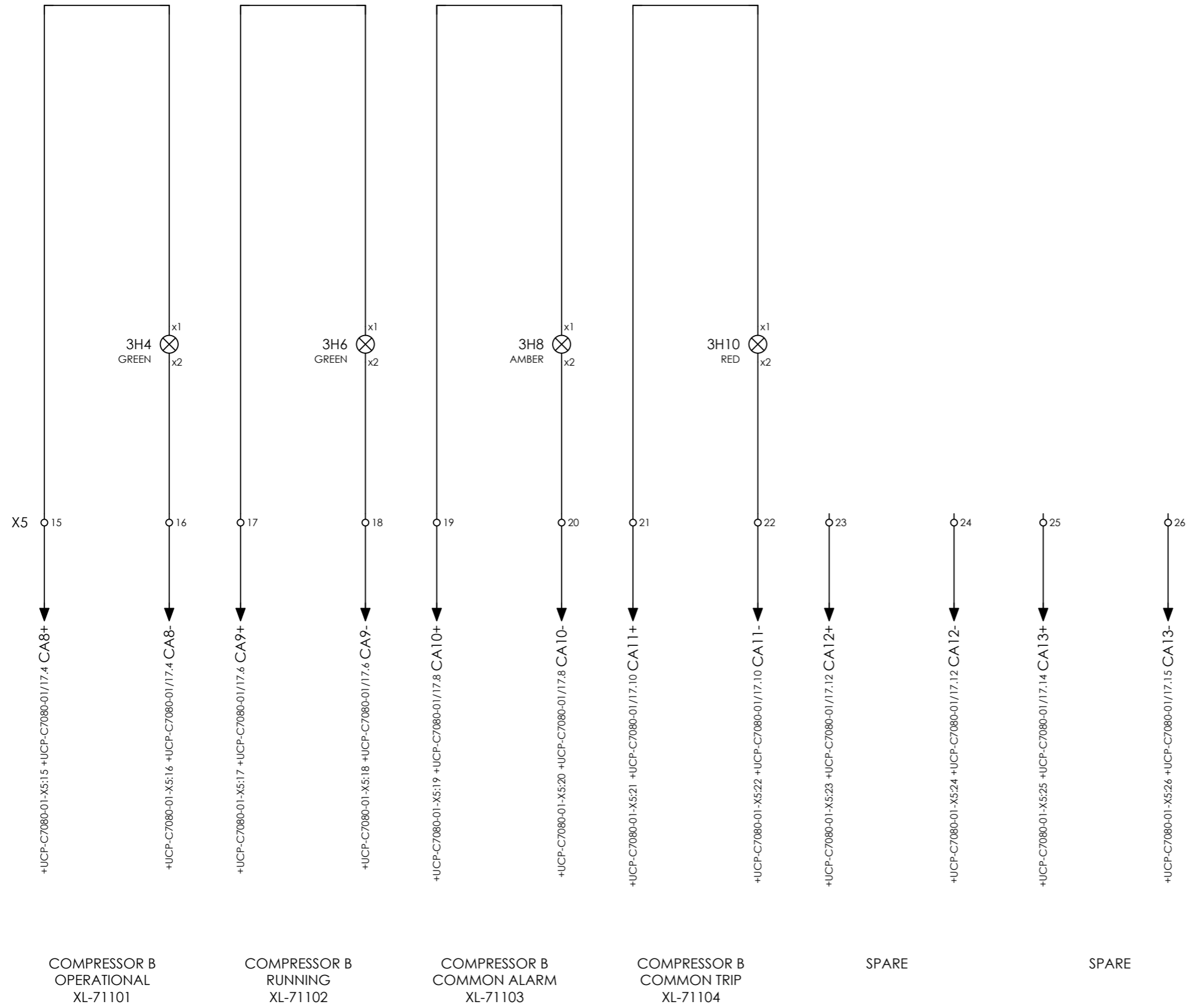


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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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LAST MODIFICATION DATE	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	61

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+ LP-C7080-01
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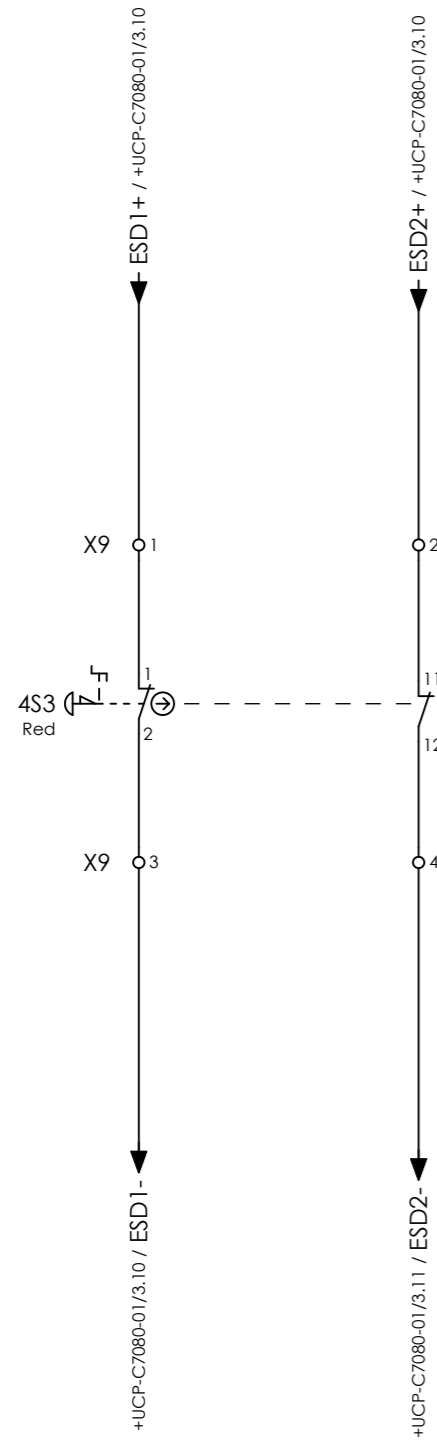


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT CONNECTION LAMPS	
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	15/10/2021
AIRPACK DWG NO.	17811-05B
REVISION	01
TOTAL PAGE AMOUNT	62

= 20-C-7080
+ LP-C7080-01
CURRENT PAGE



COMPRESSOR B
ESD BUTTON
PB-71103



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION ESD BUTTON	
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	+ LP-C7080-01
LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	63	

Terminal diagram

Cable name		Strip =20-C-7080+LP-C7080-01-X5 CONNECTION PUSHBUTTONS AND LAMPS						Cable name		
Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
1	1	+UCP-C7080-01-X5	1	.	-2S4	3	1	.	PB-71101	3
2	2	+UCP-C7080-01-X5	2	.	-2S4	4	2	.	PB-71101	4
3	3	+UCP-C7080-01-X5	3	.	-2S6	1	3	.	PB-71102	1
4	4	+UCP-C7080-01-X5	4	.	-2S6	2	4	.	PB-71102	2
5	5	+UCP-C7080-01-X5	5	.	-2S8	3	5	.	PB-71104	3
6	6	+UCP-C7080-01-X5	6	.	-2S8	4	6	.	PB-71104	4
7	7	+UCP-C7080-01-X5	7	.	-2S10	3	7	.	HS-71101	3
8	8	+UCP-C7080-01-X5	8	.	-2S10	4	8	.	HS-71101	4
9	9	+UCP-C7080-01-X5	9	.	-2S10	13	9	.	HS-71101	13
10	10	+UCP-C7080-01-X5	10	.	-2S10	14	10	.	HS-71101	14
11	11	+UCP-C7080-01-X5	11	.			11	.		
12	12	+UCP-C7080-01-X5	12	.			12	.		
13	13	+UCP-C7080-01-X5	13	.			13	.		
14	14	+UCP-C7080-01-X5	14	.			14	.		
15	15	+UCP-C7080-01-X5	15	.	-3H4	x1	15	.	XL-71101	x1
16	16	+UCP-C7080-01-X5	16	.	-3H4	x2	16	.	XL-71101	x2
17	17	+UCP-C7080-01-X5	17	.	-3H6	x1	17	.	XL-71102	x1
18	18	+UCP-C7080-01-X5	18	.	-3H6	x2	18	.	XL-71102	x2
19	19	+UCP-C7080-01-X5	19	.	-3H8	x1	19	.	XL-71103	x1
20	20	+UCP-C7080-01-X5	20	.	-3H8	x2	20	.	XL-71103	x2
21	21	+UCP-C7080-01-X5	21	.	-3H10	x1	21	.	XL-71104	x1
22	22	+UCP-C7080-01-X5	22	.	-3H10	x2	22	.	XL-71104	x2
23	23	+UCP-C7080-01-X5	23	.			23	.		
24	24	+UCP-C7080-01-X5	24	.			24	.		
25	25	+UCP-C7080-01-X5	25	.			25	.		
26	26	+UCP-C7080-01-X5	26	.			26	.		



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0093
 EQUIPMENT NO. 20-C-7080
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-7080+LP-C7080-01-X5
 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 64

= 20-C-7080
 + LP-C7080-01
 CURRENT PAGE

POWER DISTRIBUTION BOARD

PD-C-7080-01

TERMINAL STRIP DEFINITION

X0 = POWER SUPPLY 400VAC FROM CUSTOMER
 X1 = MAIN MOTOR
 X2 = OIL HEATER
 X8 = SIGNALS TO / FROM UCP
 X10 = CONNECTION PT100



CLIENT DWG NO.		SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080			CHECKED BY	RBE	+ PD-C-7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION		LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION		
		AIRPACK REF.	17811-05B	PAGE NUMBER	94	

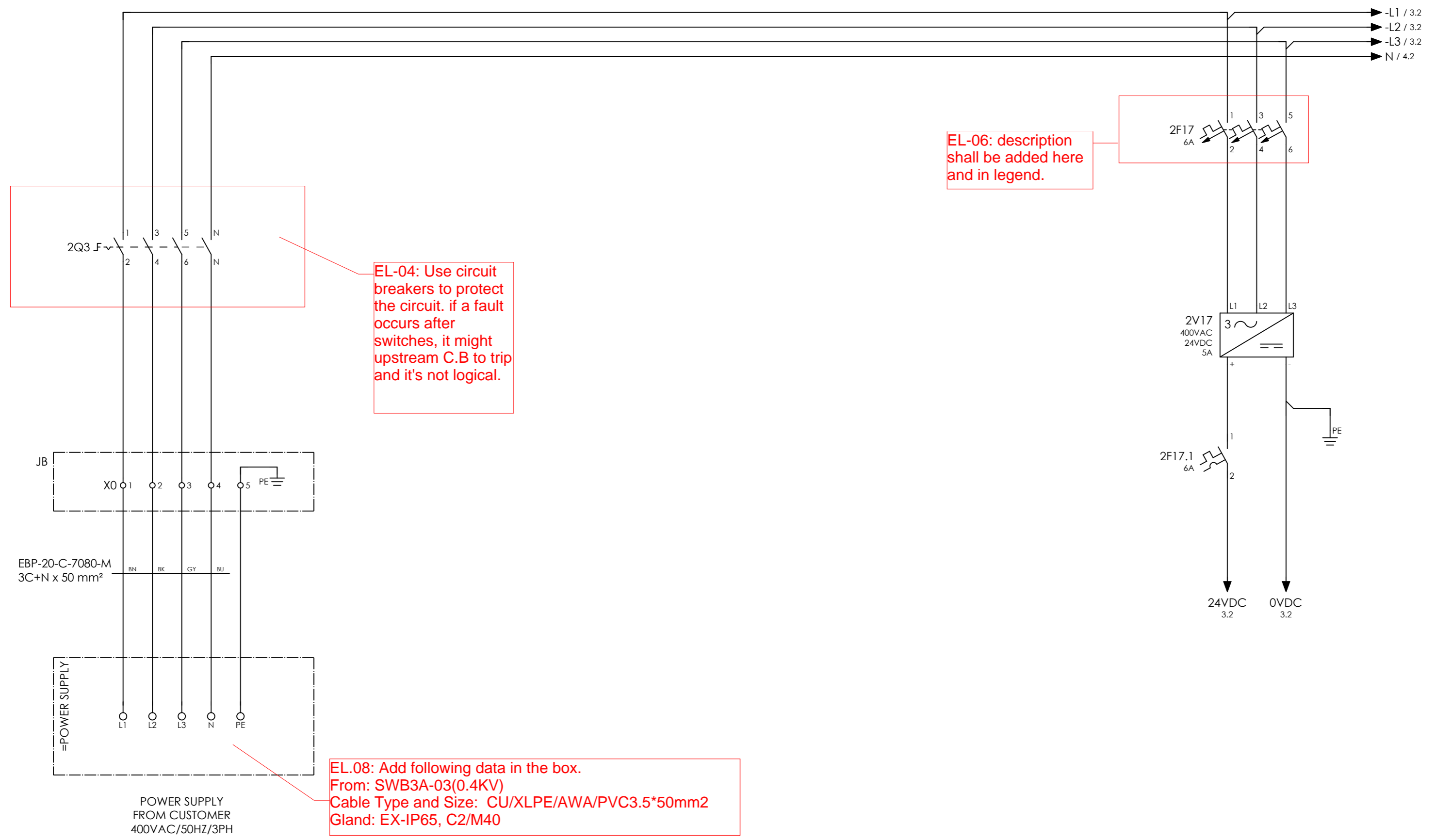
EL-05: Single line diagram document shall be revised based on this document.

EL-07: complete legend sheet shall be added for power distribution panel items.

EL-06: description shall be added here and in legend.

EL-04: 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.

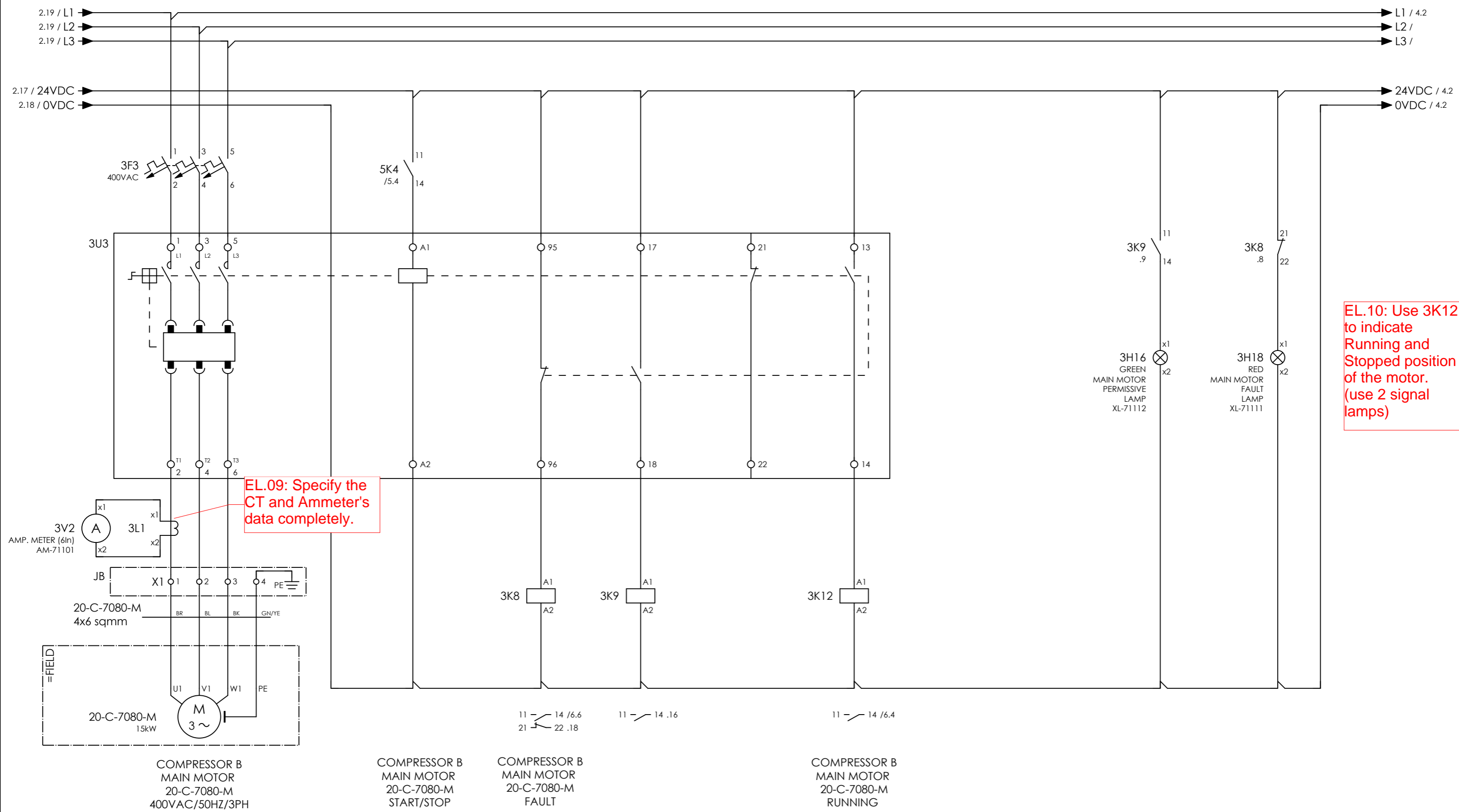
EL.08: Add following data in the box.
 From: SWB3A-03(0.4KV)
 Cable Type and Size: CU/XLPE/AWA/PVC3.5*50mm2
 Gland: EX-IP65, C2/M40



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT POWER SUPPLY	
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	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	67	



EL.10: Use 3K12 to indicate Running and Stopped position of the motor. (use 2 signal lamps)

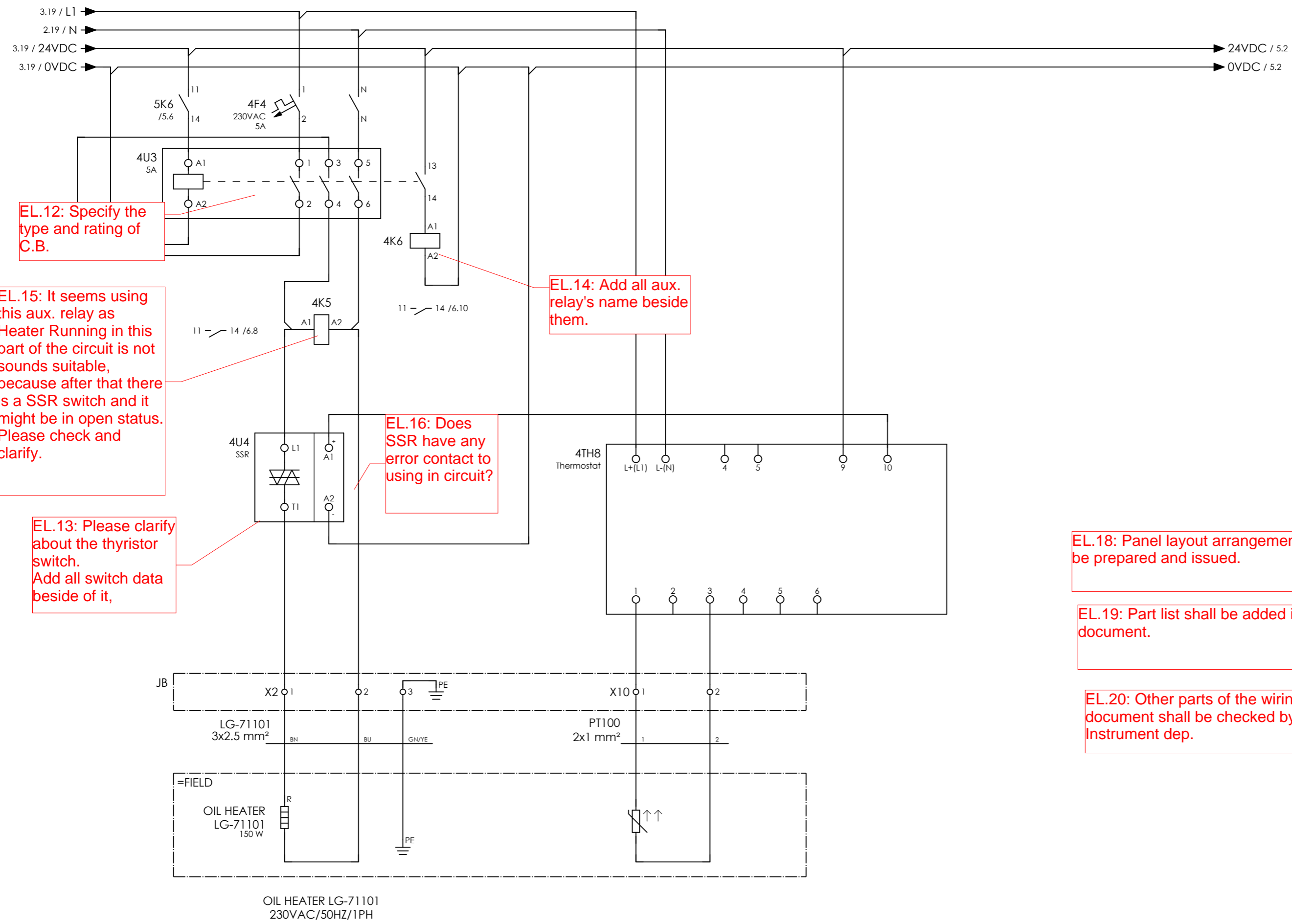
EL.09: Specify the CT and Ammeter's data completely.

COMPRESSOR B MAIN MOTOR 20-C-7080-M 400VAC/50HZ/3PH
 COMPRESSOR B MAIN MOTOR 20-C-7080-M START/STOP
 COMPRESSOR B MAIN MOTOR 20-C-7080-M FAULT
 COMPRESSOR B MAIN MOTOR 20-C-7080-M RUNNING



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093	SUBJECT		DRAWN BY	htaher	= 20-C-7080
EQUIPMENT NO.	20-C-7080	MAIN MOTOR		CHECKED BY	RBE	+ PD-C-7080-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	15/10/2021	CURRENT PAGE
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	CLIENT REF.	Bushehr MEG Plant Project		REVISION	01	
	AIRPACK REF.	17811-05B		TOTAL PAGE AMOUNT	68	

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

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

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.

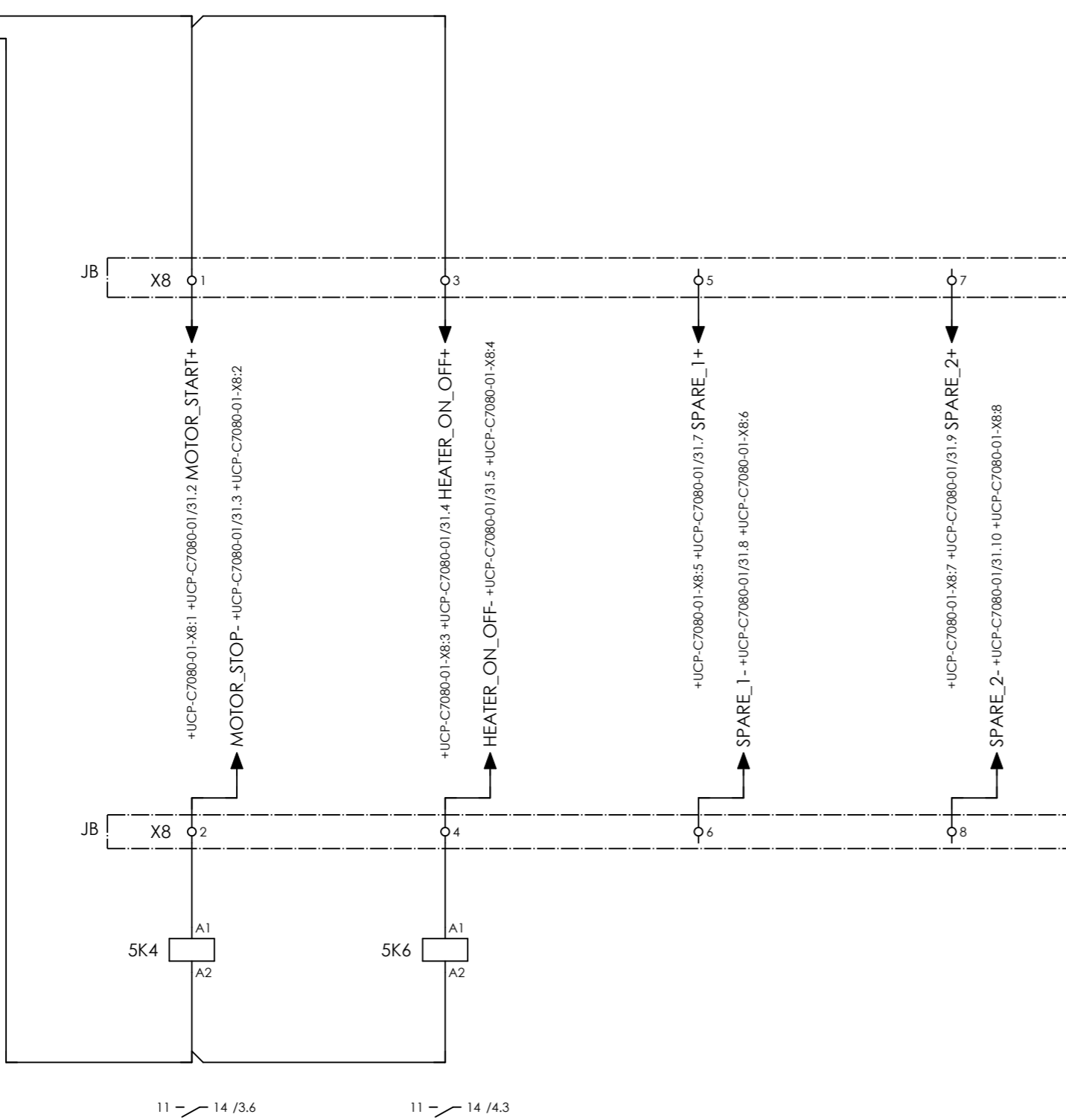


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT OIL HEATER	
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	15/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05B	
REVISION	01	
TOTAL PAGE AMOUNT	69	

4.16 / -24VDC
4.16 / -0VDC



COMPRESSOR B
MAIN MOTOR 20-C-7080-M
START/STOP

COMPRESSOR B
OIL HEATER LG-71101
ON/OFF

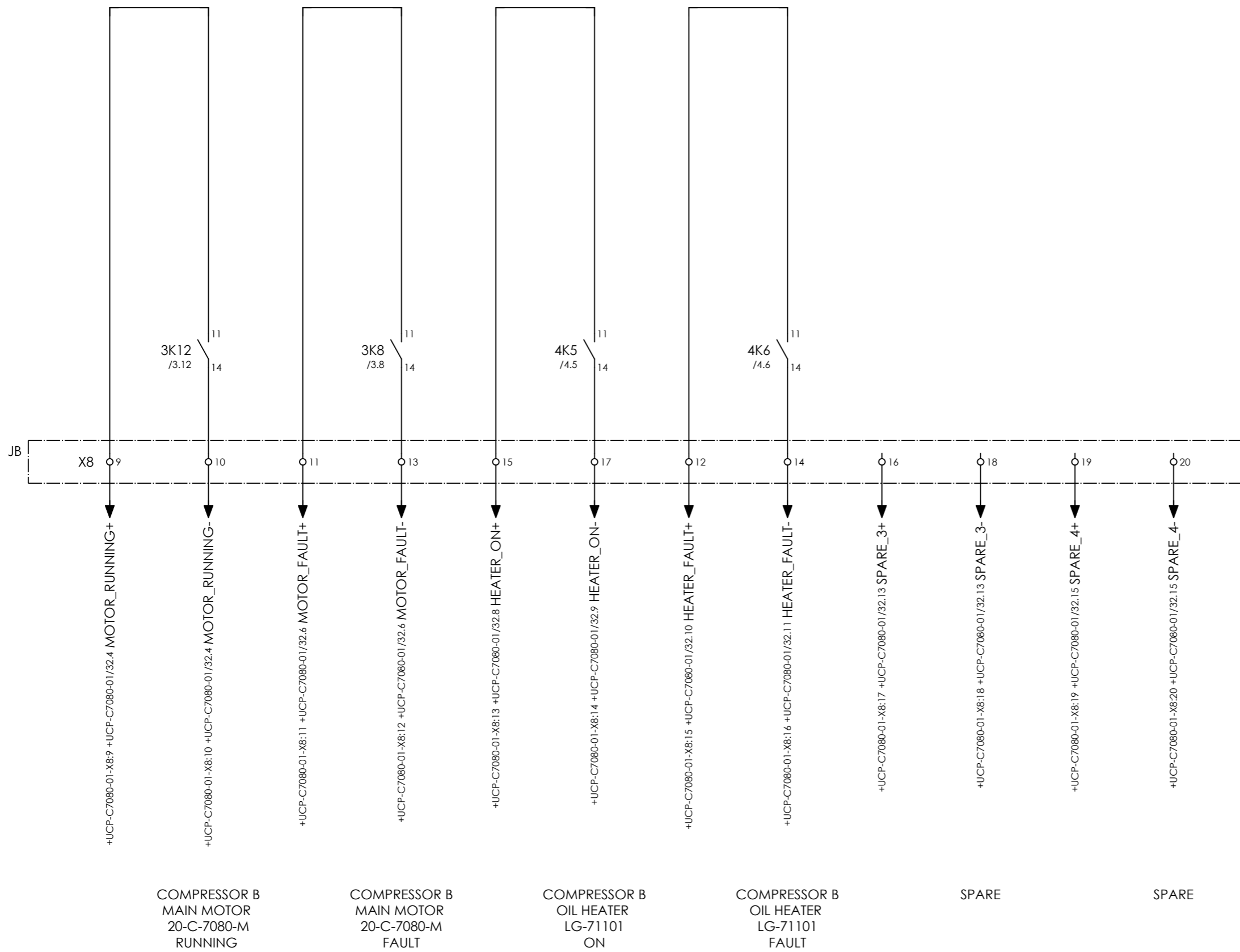
SPARE

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
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		15/10/2021		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		70			



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

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

COMPRESSOR B
OIL HEATER
LG-71101
ON

COMPRESSOR B
OIL HEATER
LG-71101
FAULT

SPARE

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0093
EQUIPMENT NO.	20-C-7080
EQUIPMENT LOCATION	Iran, Onshore

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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	Jumper	Target designation	
1	2	.	-2Q3	L1	1	.	L1	
2	4	.	-2Q3	L2	2	.	L2	
3	6	.	-2Q3	L3	3	.	L3	
4	N	.	-2Q3	N	4	.	N	
5	PE	.		PE	5	.	PE	



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 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-7080+PD-C-7080-01-X0
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Terminal diagram

Cable name		Strip =20-C-7080+PD-C-7080-01-X8 SIGNALS TO / FROM UCP						Cable name		
Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	Connection point	Terminal	Connection point	Target designation	Terminal
1	1	+20-UCPC-7002-1-X8	1	.	-4U4	A1	1			
2	2	+20-UCPC-7002-1-X8	2	.	-5K4	A1	2			
3	3	+20-UCPC-7002-1-X8	3	.	-4K6	A2	3			
4	4	+20-UCPC-7002-1-X8	4	.	-4U4	A2	4			
5	5	+20-UCPC-7002-1-X8	5	.			5			
6	6	+20-UCPC-7002-1-X8	6	.			6			
7	7	+20-UCPC-7002-1-X8	7	.			7			
8	8	+20-UCPC-7002-1-X8	8	.			8			
9	9	+20-UCPC-7002-1-X8	9	.	-3K12	11	9			
10	10	+20-UCPC-7002-1-X8	10	.	-3K12	14	10			
11	11	+20-UCPC-7002-1-X8	11	.	-3K8	11	11			
15	15	+20-UCPC-7002-1-X8	15	.	-4K6	11	15			
12	12	+20-UCPC-7002-1-X8	12	.	-3K8	14	12			
16	16	+20-UCPC-7002-1-X8	16	.	-4K6	14	16			
13	13	+20-UCPC-7002-1-X8	13	.	-4K5	11	13			
17	17	+20-UCPC-7002-1-X8	17	.			17			
14	14	+20-UCPC-7002-1-X8	14	.	-4K5	14	14			
18	18	+20-UCPC-7002-1-X8	18	.			18			
19	19	+20-UCPC-7002-1-X8	19	.			19			
20	20	+20-UCPC-7002-1-X8	20	.			20			



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Terminal diagram

Cable name		Connection point		Terminal		Jumper		Target designation	
Strip =20-C-7080+PD-C-7080-01-X10 CONNECTION PT100		1		1		.		-4TH8	
		2		2		.		-4TH8	
-PT100		2x1 mm²		1		2			



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