






OWNER:  شرکت سست و سویی توهر ایرانیاان (سهامی خاص)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	<b>UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER</b>						 Netherlands		
MC :   شرکت سست و سویی توهر ایرانیاان (سهامی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: <b>17811-05A</b>	BU	20	VD	303	IN	DIG	0043	Rev.:	Page
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# UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER

03	31/05/2022	For approval	MG	RB	KP			
02	08/12/2021	For approval	HT	RB	KP			
01	19/10/2021	For approval	HT	RB	KP			
00	24/11/2020	For approval	HT	RB	KP			
<b>Rev.</b>	<b>Date</b>	<b>Purpose of Issue</b>	<b>Prepared</b>	<b>Checked</b>	<b>Approved</b>	<b>AC Code</b>		
						<b>Class: 1</b>	<b>Phase: P</b>	





# 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-0043		
Airpack reference	:	17811-05A		
Airpack dwg. no.	:	17811-05		
Generation date	:	6-11-2020		
E & I manager	:	RBE	Revision no.	: 03
Last modifications	:	30-5-2022		
Last modifications by	:	MaGo		



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT Title page / cover sheet	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	17811-05
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TOTAL PAGE AMOUNT	1

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# 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 9006) GREY  
INGRESS. PROTECTION: IP-65  
AREA CLASSIFICATION: Eex'e'

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 "ISE" CONNECTIONS WILL BE CONNECTED ON A "ISE"-BAR

- 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

### REFERENCE DOCUMENTS:

P&ID FOR NITROGEN GAS BOOSTER  
I/O LIST FOR NITROGEN GAS BOOSTER

UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS BOOSTER INCL. BOM  
SINGLE LINE DIAGRAM FOR POWER DISTRIBUTION PANEL FOR NITROGEN GAS BOOSTER

### AIRPACK DOC. NO.

17811-03A  
17811-06A  
17811-07A  
17811-49A

### CUSTOMER DOC. NO.

BU-20-VD-303-PR-DWG-0013  
BU-20-VD-303-IN-LST-0034  
BU-20-VD-303-IN-DWG-0039  
BU-20-VD-303-EL-DIG-0049



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
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SUBJECT		Project description	
ADAPTED TO P&ID REVISION	04	CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK REF.	17811-05A

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REVISION	03	
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/8	Device tag list : =20-C-1002+UCP-C1002-01-8A9 - =20-C-1002+UCP-C1002-01-28K4	7	30-5-2022	mgoeman
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/11	Device tag list : =20-C-1002+UCP-C1002-01-9U14 - =20-C-1002+PD-C-1002-01-2F17	10	25-5-2022	mgoeman
/12	Device tag list : =20-C-1002+PD-C-1002-01-2F17.1 - =20-C-1002+PD-C-1002-01-3V2	11	25-5-2022	mgoeman
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=20-C-1002+UCP-C1002-01/2	POWER SUPPLY	13	25-5-2022	MaGo
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=20-C-1002+UCP-C1002-01/5	PLC LAYOUT	16	10-5-2022	MaGo
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EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	04	CHECKED BY	RBE	+
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
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	AIRPACK REF.	17811-05A	REVISION	03		
			TOTAL PAGE AMOUNT	3		

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

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SUBJECT		Table of contents : =20-C-1002+UCP-C1002-01/55 - =20-C-1002+LP-C1002-01/4	
ADAPTED TO P&ID REVISION	04	CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	5

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# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
+UCP-C1002-01-2TH11		SET@40°C	
+UCP-C1002-01-2TH13		SET@10°C	

Device tag	Function text	Tech. car.	Symbol



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT	
Device tag list : =+UCP-C1002-01-2TH11 - =+UCP-C1002-01-2TH13	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
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# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-8A9		DISPLAY	
=20-C-1002+UCP-C1002-01-2F9		230VAC 6A C Char MCB	
=20-C-1002+UCP-C1002-01-2F11		230VAC 2A C Char MCB	
=20-C-1002+UCP-C1002-01-2F13		230VAC 4A C Char MCB	
=20-C-1002+UCP-C1002-01-2F15		110VAC 10A C Char	
=20-C-1002+UCP-C1002-01-2F15.1		24VDC 10A MCB	
=20-C-1002+UCP-C1002-01-2F17		110VAC 10A C Char	
=20-C-1002+UCP-C1002-01-2F17.1		24VDC 10A MCB	
=20-C-1002+UCP-C1002-01-5F2		24VDC 6A	

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-5F11		24VDC 6A	
=20-C-1002+UCP-C1002-01-2G15		QUINT DIODE	
=20-C-1002+UCP-C1002-01-2H10			
=20-C-1002+UCP-C1002-01-25H4	COMPRESSOR A OPERATIONAL XL-10156	GREEN 24Vdc	
=20-C-1002+UCP-C1002-01-25H6	COMPRESSOR A RUNNING XL-10157	GREEN 24Vdc	
=20-C-1002+UCP-C1002-01-25H8	COMPRESSOR A COMMON ALARM XL-10158	AMBER 24Vdc	
=20-C-1002+UCP-C1002-01-25H10	COMPRESSOR A COMMON TRIP XL-10159	RED 24Vdc	
=20-C-1002+UCP-C1002-01-27K8	COMPRESSOR A FORCED SHUTDOWN	24Vdc	
=20-C-1002+UCP-C1002-01-28K4	COMPRESSOR A SOLENOID VALVE XY-10151	24Vdc	

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-28K6	COMPRESSOR A SOLENOID VALVE XY-10152	24Vdc	
=20-C-1002+UCP-C1002-01-28K8	SPARE	24Vdc	
=20-C-1002+UCP-C1002-01-28K10	=	24Vdc	
=20-C-1002+UCP-C1002-01-28K12	PID CONTROL ACTIVE	24Vdc	
=20-C-1002+UCP-C1002-01-30K4	COMPRESSOR A MAIN MOTOR 20-M-1002 START/STOP	24Vdc	
=20-C-1002+UCP-C1002-01-30K6	COMPRESSOR A OIL HEATER LG-10151 ON/OFF	24Vdc	
=20-C-1002+UCP-C1002-01-30K10		24Vdc	
=20-C-1002+UCP-C1002-01-57K12		24Vdc	
=20-C-1002+UCP-C1002-01-2M11			

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-5M2	PLC POWER SUPPLY		
=20-C-1002+UCP-C1002-01-5M3	S7-400 CPU		
=20-C-1002+UCP-C1002-01-5M11	PLC POWER SUPPLY		
=20-C-1002+UCP-C1002-01-5M12	S7-400 CPU		
=20-C-1002+UCP-C1002-01-6M4	CP 343-1		
=20-C-1002+UCP-C1002-01-6M15	FS 10DO	SM326 24VDC	
=20-C-1002+UCP-C1002-01-6M16	=	SM326 24VDC	
=20-C-1002+UCP-C1002-01-6M18	=	SM326 24VDC	
=20-C-1002+UCP-C1002-01-6M19	=	SM326 24VDC	



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
Device tag list : =20-C-1002+UCP-C1002-01-28K6 - =20-C-1002+UCP-C1002-01-6M19	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	9

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+
CURRENT PAGE

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-7M4	CP 343-1		
=20-C-1002+UCP-C1002-01-7M15	FS 10DO	SM326 24VDC	
=20-C-1002+UCP-C1002-01-7M16	=	SM326 24VDC	
=20-C-1002+UCP-C1002-01-7M18	=	SM326 24VDC	
=20-C-1002+UCP-C1002-01-7M19	=	SM326 24VDC	
=20-C-1002+UCP-C1002-01-2S2			
=20-C-1002+UCP-C1002-01-2S4			
=20-C-1002+UCP-C1002-01-2S6			
=20-C-1002+UCP-C1002-01-3S6		Red PB-10157	

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-11S3	GREEN		
=20-C-1002+UCP-C1002-01-11S5	RED		
=20-C-1002+UCP-C1002-01-11S7	BLACK		
=20-C-1002+UCP-C1002-01-11S9	=		
=20-C-1002+UCP-C1002-01-11S11	=		
=20-C-1002+UCP-C1002-01-2U13			
=20-C-1002+UCP-C1002-01-9U4			
=20-C-1002+UCP-C1002-01-9U6			
=20-C-1002+UCP-C1002-01-9U7			



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
Device tag list : =20-C-1002+UCP-C1002-01-7M4 - =20-C-1002+UCP-C1002-01-9U7	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	10

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+	
CURRENT PAGE	

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-9U14			
=20-C-1002+UCP-C1002-01-9U15			
=20-C-1002+UCP-C1002-01-9U18			
=20-C-1002+UCP-C1002-01-9U19			
=20-C-1002+UCP-C1002-01-25U12	COMPRESSOR A HOURMETER HM-10151		
=20-C-1002+UCP-C1002-01-58U5	PID controller Flow valve 4-20mA Input	4-20mA control	
=20-C-1002+UCP-C1002-01-2V15		110VAC 24VDC 10A	
=20-C-1002+UCP-C1002-01-2V17		110VAC 24VDC 10A	
=20-C-1002+LP-C1002-01-3H4		GREEN	

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+LP-C1002-01-3H6		GREEN	
=20-C-1002+LP-C1002-01-3H8		AMBER	
=20-C-1002+LP-C1002-01-3H10		RED	
=20-C-1002+LP-C1002-01-2S4		GREEN	
=20-C-1002+LP-C1002-01-2S6		RED	
=20-C-1002+LP-C1002-01-2S8		BLACK	
=20-C-1002+LP-C1002-01-2S10		LOCAL/OFF/REMOTE	
=20-C-1002+LP-C1002-01-4S3		Red	
=20-C-1002+PD-C-1002-01-2F17		10A MCB C Char	

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+PD-C-1002-01-2F17.1		6A MCB C Char	
=20-C-1002+PD-C-1002-01-3F3		400VAC 100A MCB C Char	
=20-C-1002+PD-C-1002-01-4F4		230VAC 5A C Char MCB	
=20-C-1002+PD-C-1002-01-4F15		2A, 24Vdc Glass fuse	
=20-C-1002+PD-C-1002-01-5K4	COMPRESSOR A MAIN MOTOR 20-C-1002-M START/STOP	Interface relay Main Motor Start/Stop	
=20-C-1002+PD-C-1002-01-5K6	COMPRESSOR A OIL HEATER LG-10151 ON/OFF	Interface relay Oil heater On/Off	
=20-C-1002+PD-C-1002-01-2Q3		100A	
=20-C-1002+PD-C-1002-01-4Q3		MCCB SET @ 1A 0.35-1.4A	
=20-C-1002+PD-C-1002-01-3U2		MCCB SET @ 90A 65-115A 45KW	

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+PD-C-1002-01-3U2.1		contactor 115 A AC-3 3P	
=20-C-1002+PD-C-1002-01-4U4		SSR ON/OFF control 12 VDC - 21mA AC 7-264V Current AC-1 15A	
=20-C-1002+PD-C-1002-01-4U15	PID controller Oil heater PT100 input	On/off control	
=20-C-1002+PD-C-1002-01-2V17		400VAC 24VDC 5A	
=20-C-1002+PD-C-1002-01-3V2	AMP. METER (6In) AM-10151	0-200 A	

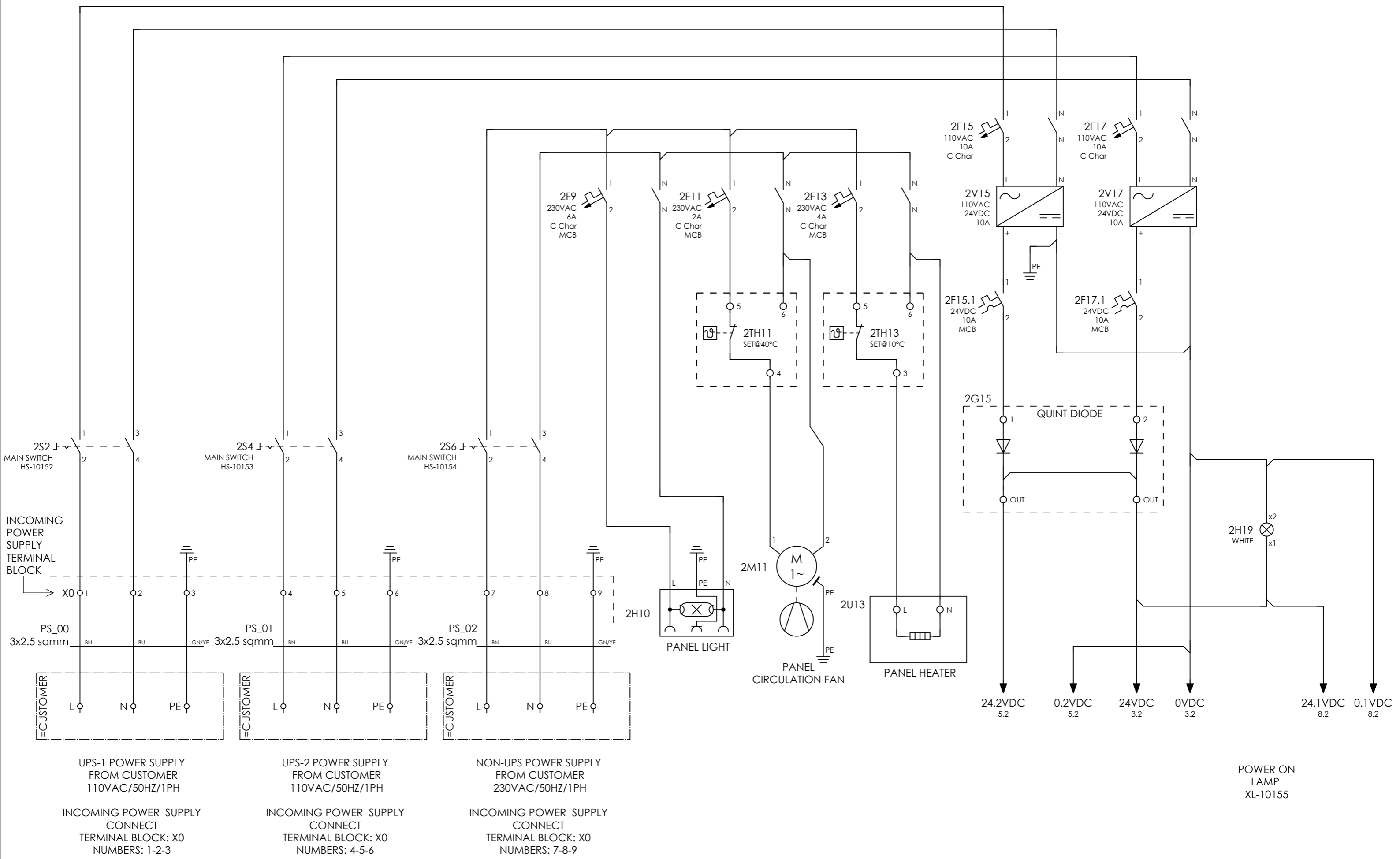
TERMINAL STRIP DEFINITION

UNIT CONTROL PANEL  
UCP-C1002-01

- 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
- X10 = SIGNALS TO ESD
- X11 = SIGNALS FROM FCS



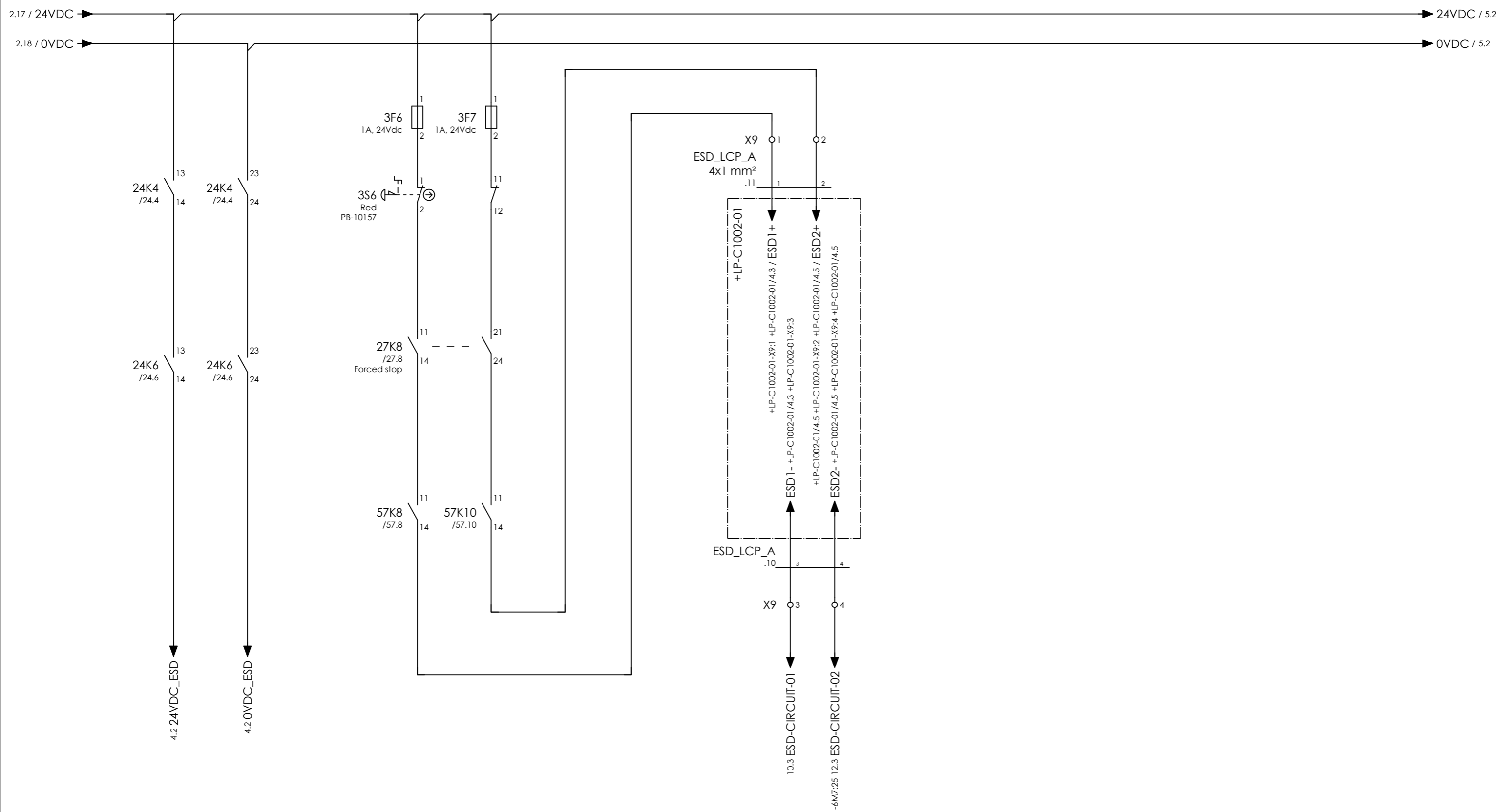
CLIENT DWG NO. EQUIPMENT NO. EQUIPMENT LOCATION THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	BU-20-VD-303-IN-DIG-0043	SUBJECT TERMINAL STRIP DEFINITION	DRAWN BY	MaGo	= 20-C-1002	
	20-C-1002		CHECKED BY	RBE	+ UCP-C1002-01	
	Iran, Onshore	ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	03	
	AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	13		



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT <b>POWER SUPPLY</b>	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	03	
TOTAL PAGE AMOUNT	14	



EMERGENCY SHUTDOWN RELAY

EMERGENCY STOP BUTTON ON PANEL PB-10157

COMPRESSOR A ESD BUTTON LOCAL PB-10153

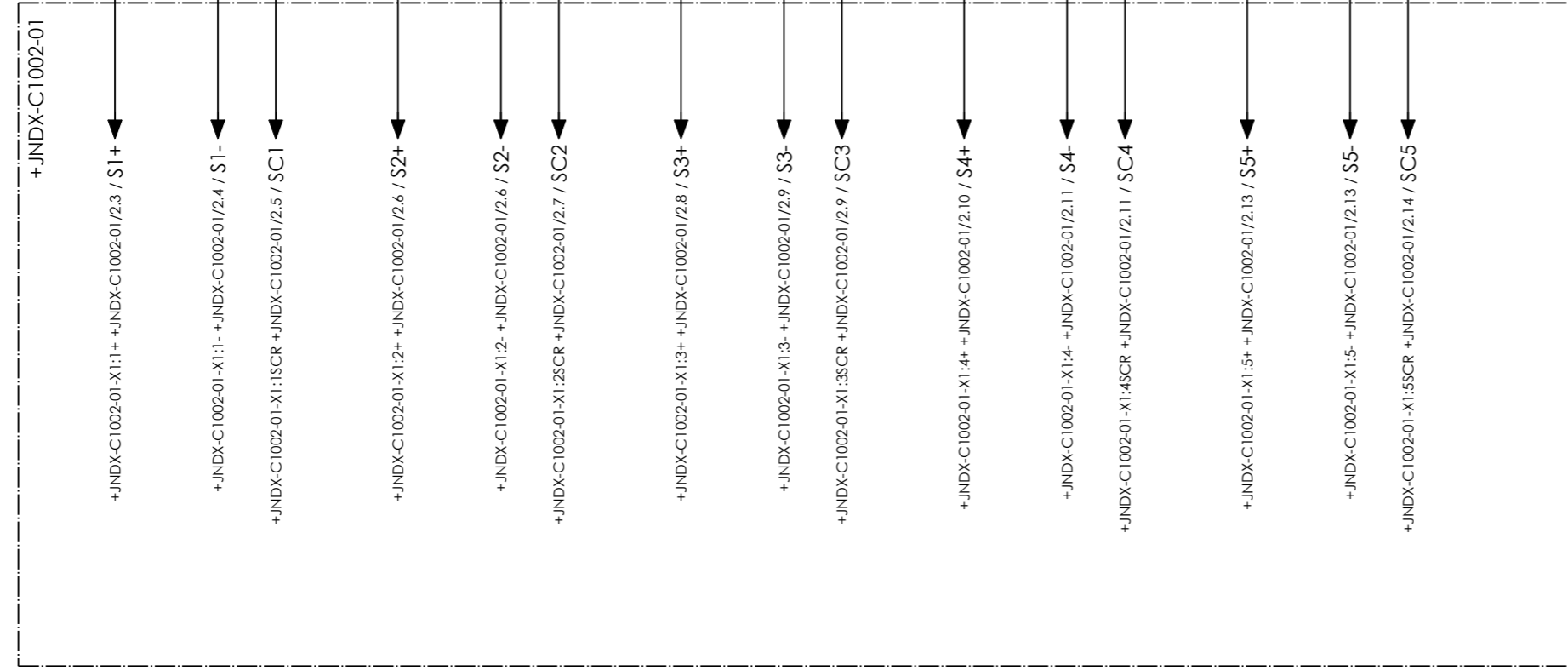
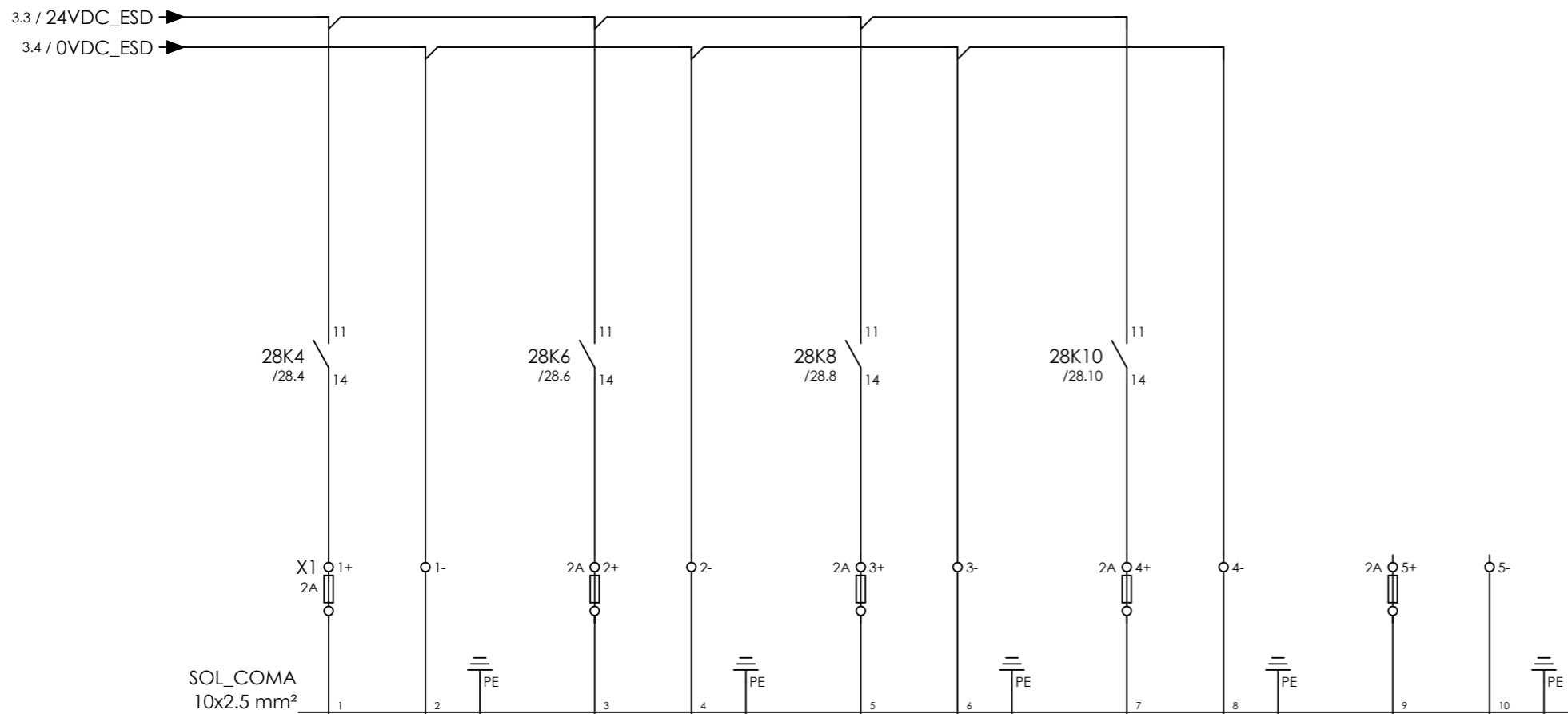


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT EMERGENCY SHUTDOWN	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	15

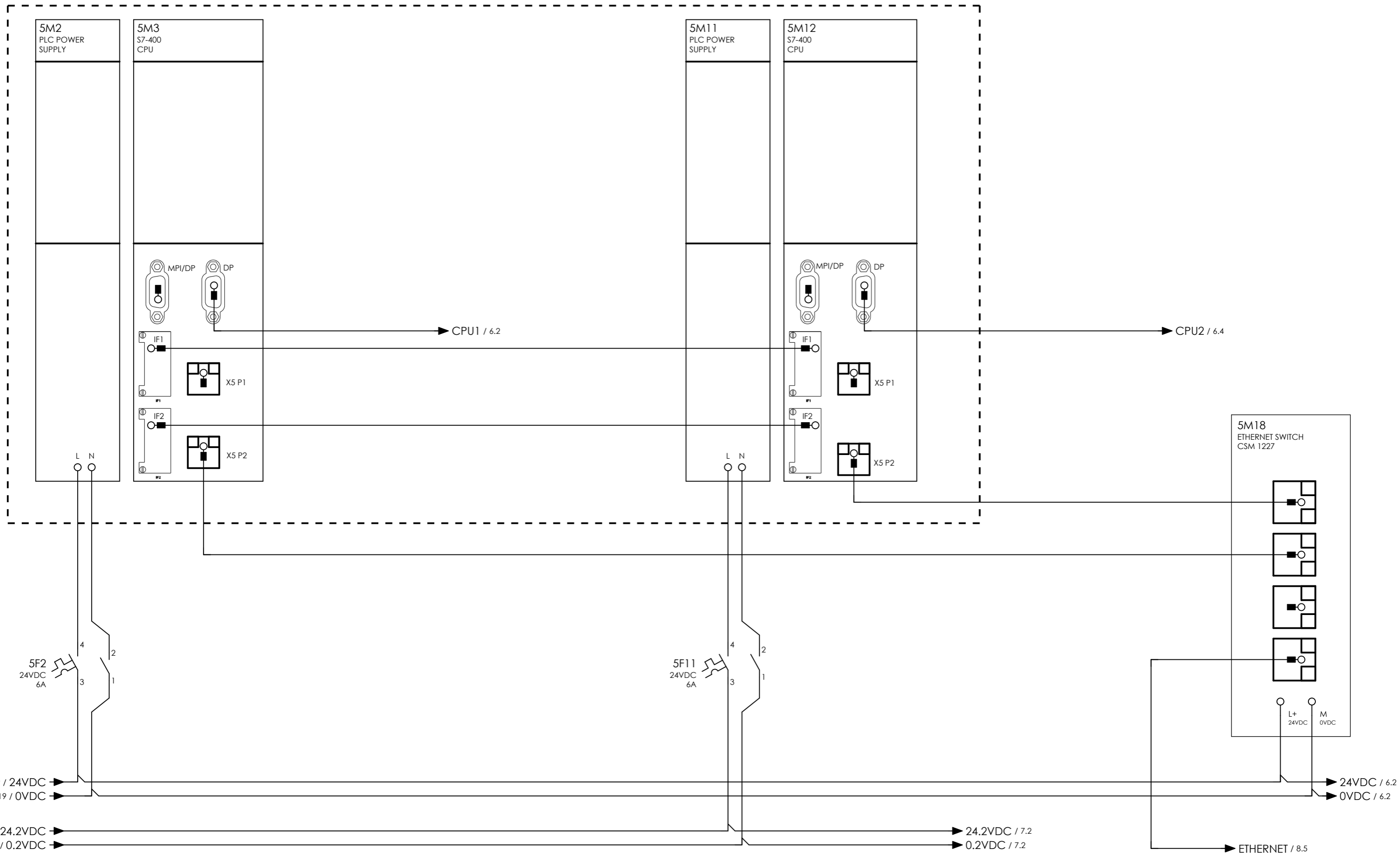
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+ UCP-C1002-01
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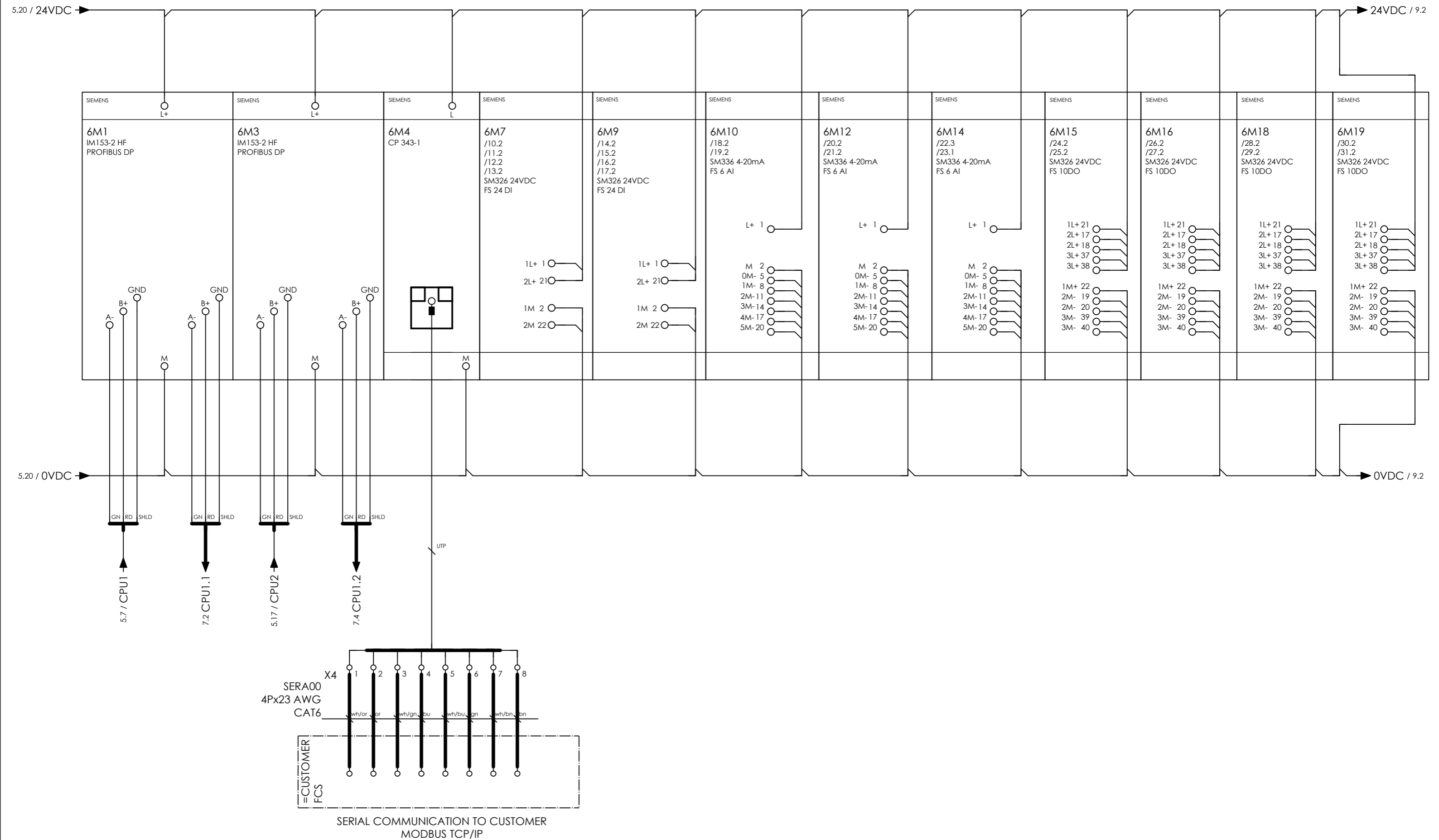



COMPRESSOR A INLET SOLENOID VALVE XY-10151      COMPRESSOR A COOLING WATER INLET SOLENOID VALVE XY-10152      SPARE      SPARE      SPARE

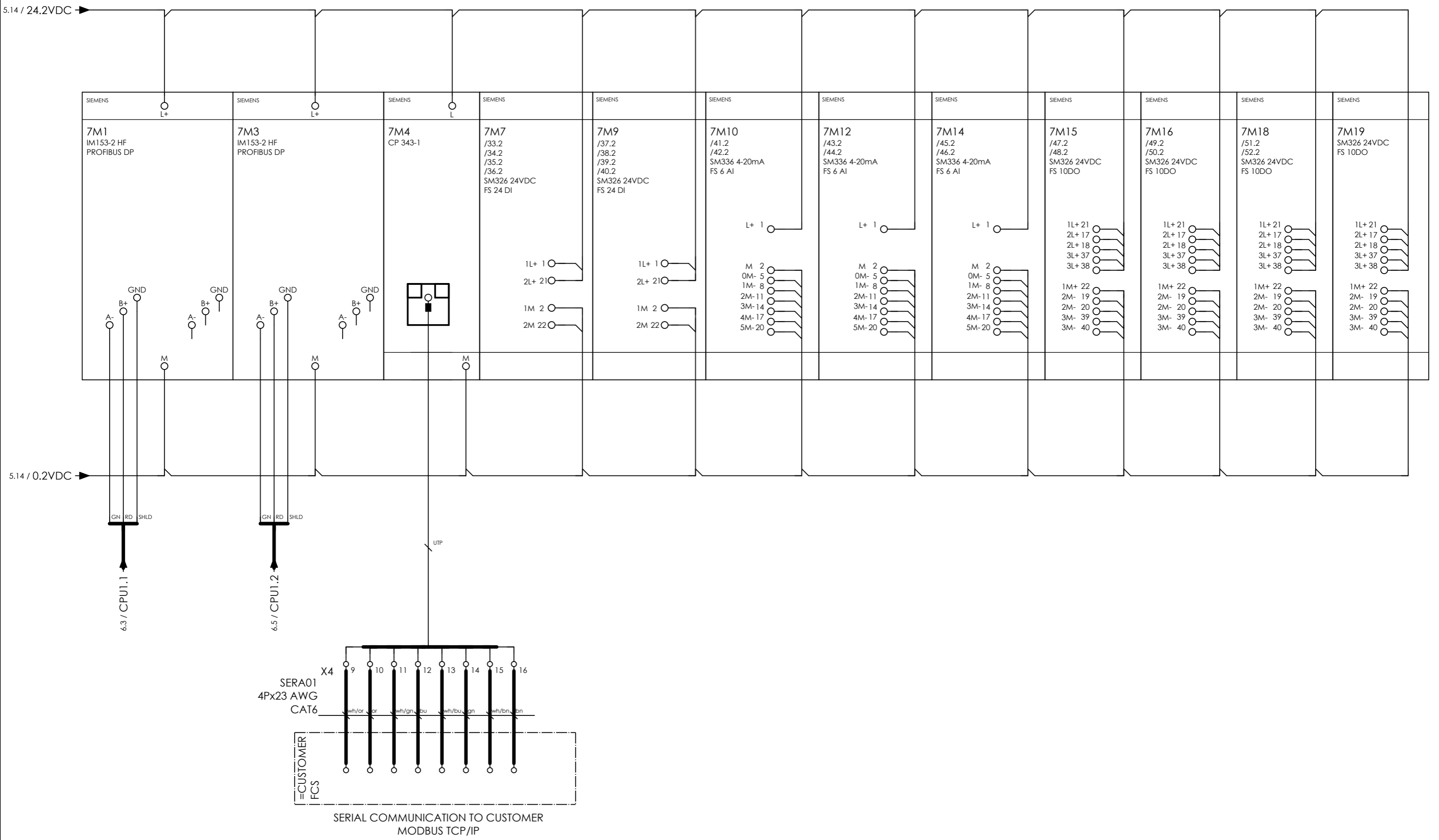


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	SOLENOIDS		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	03	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	16	





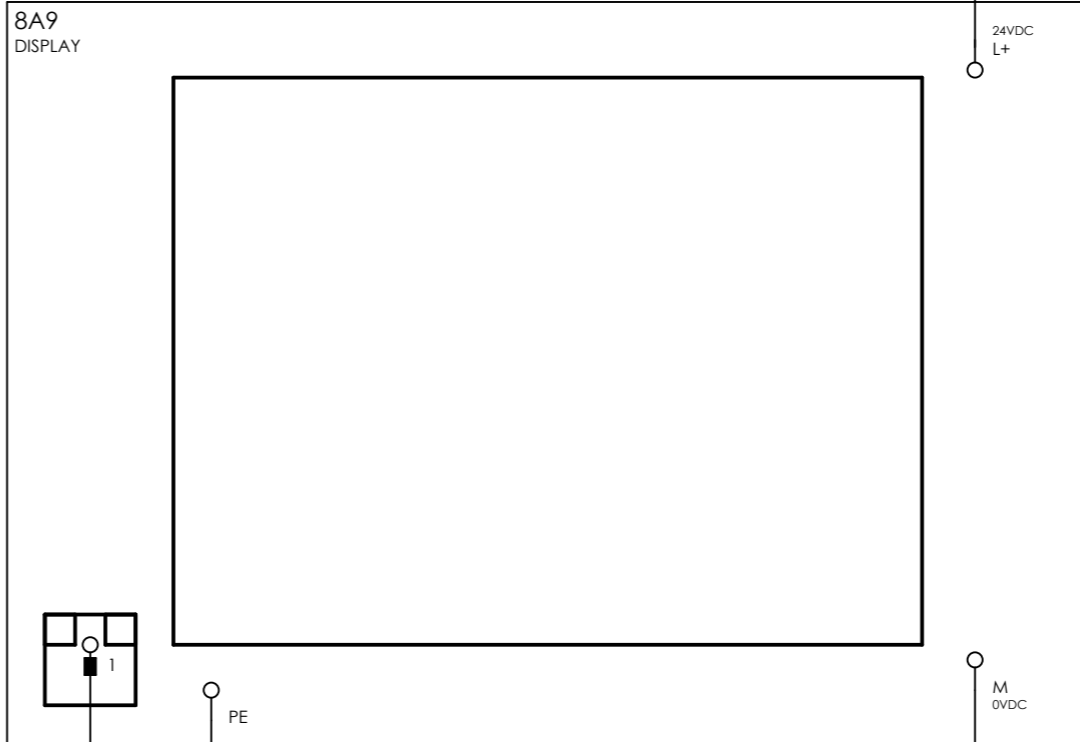
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	EQUIPMENT NO.	20-C-1002	IO RACK I		CHECKED BY	RBE	+ UCP-C1002-01
	EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
	THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)		AIRPACK DWG NO.	17811-05
			CLIENT REF.	Bushehr MEG Plant Project		REVISION	03
		AIRPACK REF.	17811-05A		TOTAL PAGE AMOUNT	18	



	CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	= 20-C-1002	
	EQUIPMENT NO.	20-C-1002	IO RACK II		CHECKED BY	RBE	+ UCP-C1002-01	
	EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	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.	17811-05	
	CLIENT REF.	Bushehr MEG Plant Project		REVISION	03			
AIRPACK REF.	17811-05A		AIRPACK REF.	17811-05A		TOTAL PAGE AMOUNT	19	

2.19 / 24.1VDC → 24.1VDC / 11.2

DISPLAY MOUNTED ON PANEL DOOR



5.18 / ETHERNET →

UTP

2.20 / 0.1VDC →

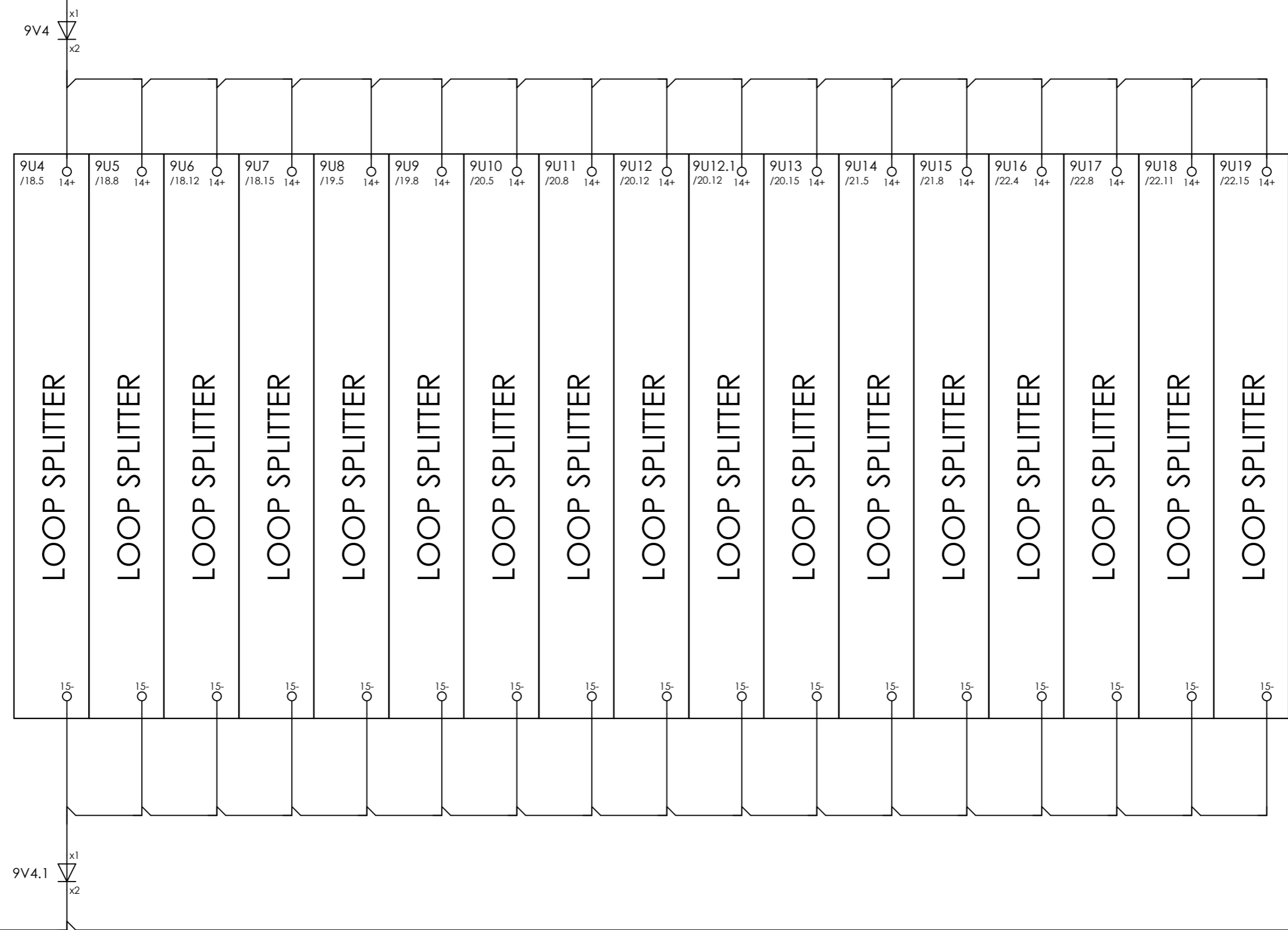
0.1VDC / 24.2



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY		MaGo		= 20-C-1002	
DISPLAY		CHECKED BY		RBE		+ UCP-C1002-01	
ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE		10-5-2022		CURRENT PAGE	
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.		17811-05			
CLIENT REF.	Bushehr MEG Plant Project	REVISION		03			
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT		20			

6.19 / 24VDC → 24VDC / 14.3



6.19 / OVDC → OVDC / 26.2



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT LOOP SPLITTERS	
ADAPTED TO P&ID REVISION	04

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE

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

AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	21

3.11  
ESD-CIRCUIT-01

DIO.0  
33.4



6M7  
/6.7

ESD CIRCUIT 1

SPARE

SPARE

SPARE

SPARE

SPARE



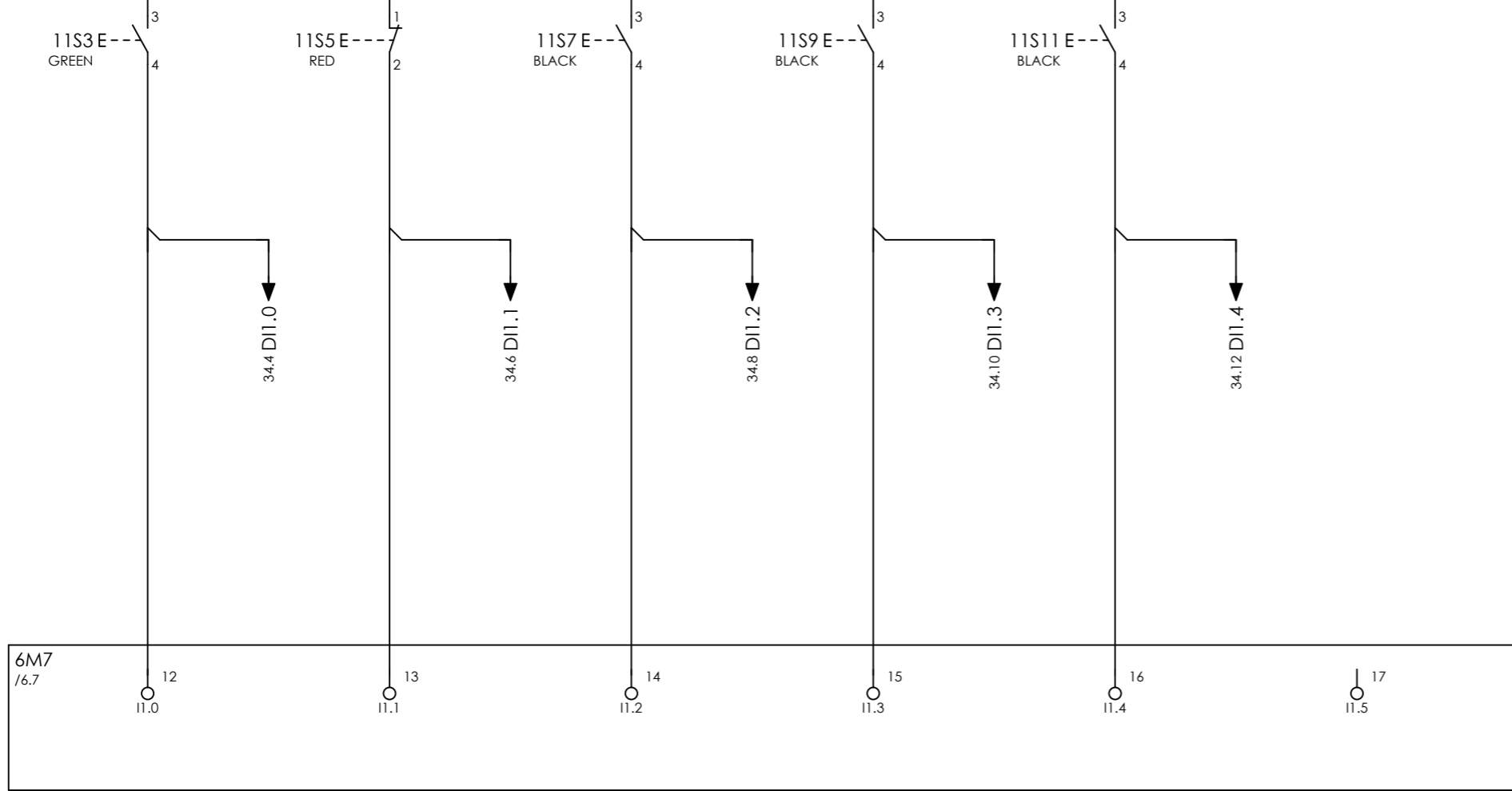
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
DIGITAL INPUTS I [6M7]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	22

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE

8.19 / 24.1VDC → 24.1VDC / 13.2



COMPRESSOR A  
START  
PB-10155

COMPRESSOR A  
STOP  
PB-10156

COMPRESSOR A  
LAMPTEST  
PB-10158

COMPRESSOR A  
ACCEPT  
PB-10159

COMPRESSOR A  
RESET  
PB-10160

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
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 [6M7]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	23

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE

3.11  
ESD-CIRCUIT-02

DI2.0  
35.4



ESD CIRCUIT 2

SPARE

SPARE

SPARE

SPARE

SPARE



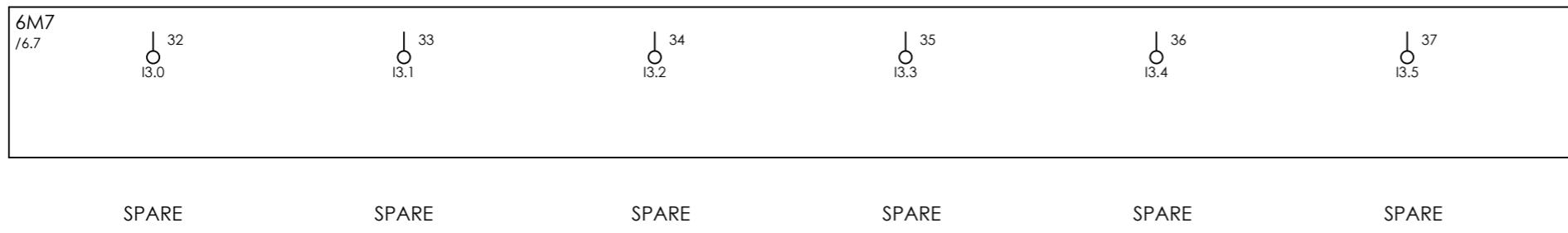
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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
DIGITAL INPUTS I [6M7]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	24

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11.19 / 24.1VDC → 24.1VDC /

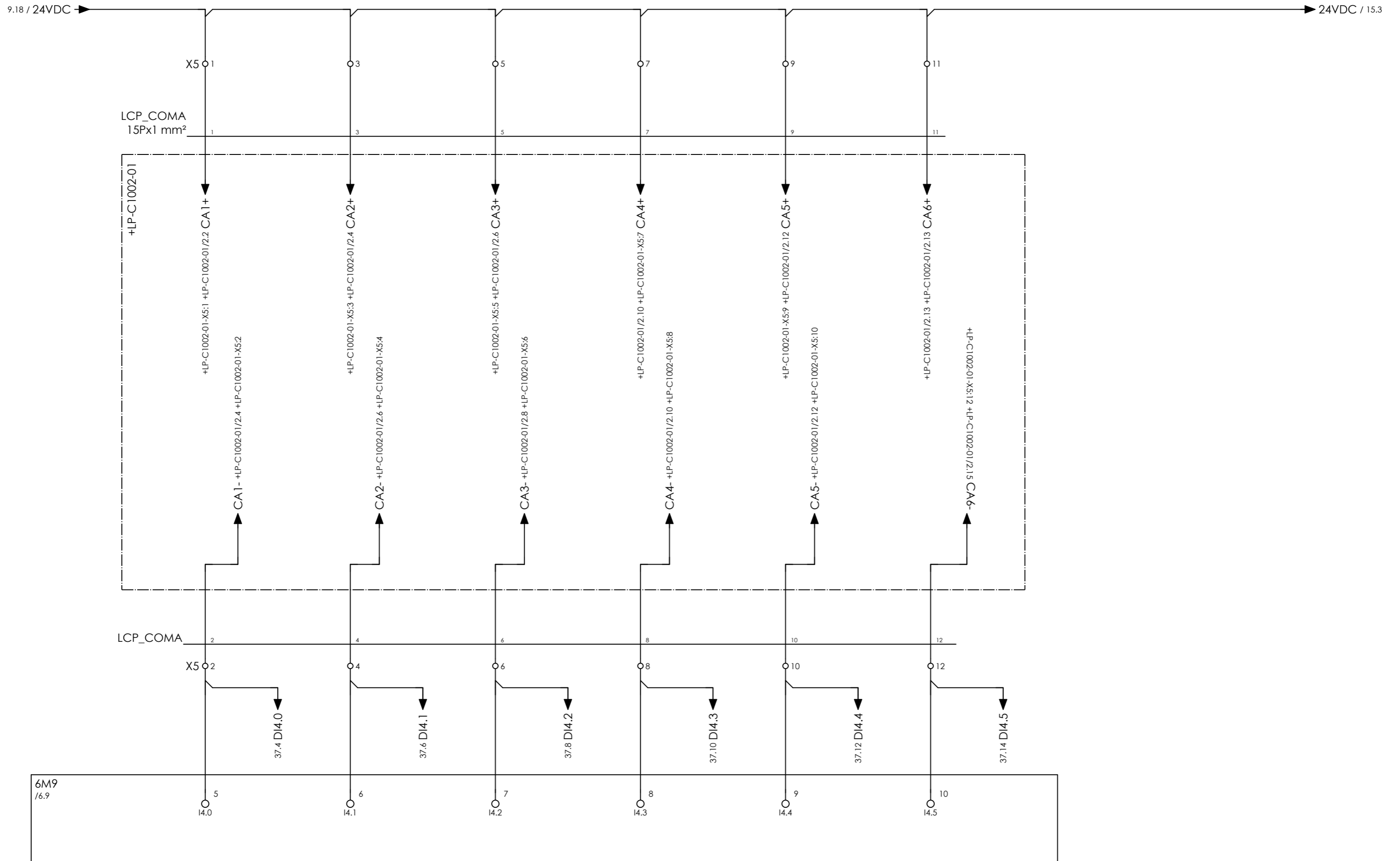


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT DIGITAL INPUTS I [6M7]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	25

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



COMPRESSOR A  
START  
PB-10151

COMPRESSOR A  
STOP  
PB-10152

COMPRESSOR A  
LAMPTEST  
PB-10154

COMPRESSOR A  
LOCAL  
HS-10151

COMPRESSOR A  
REMOTE  
HS-10151

SPARE



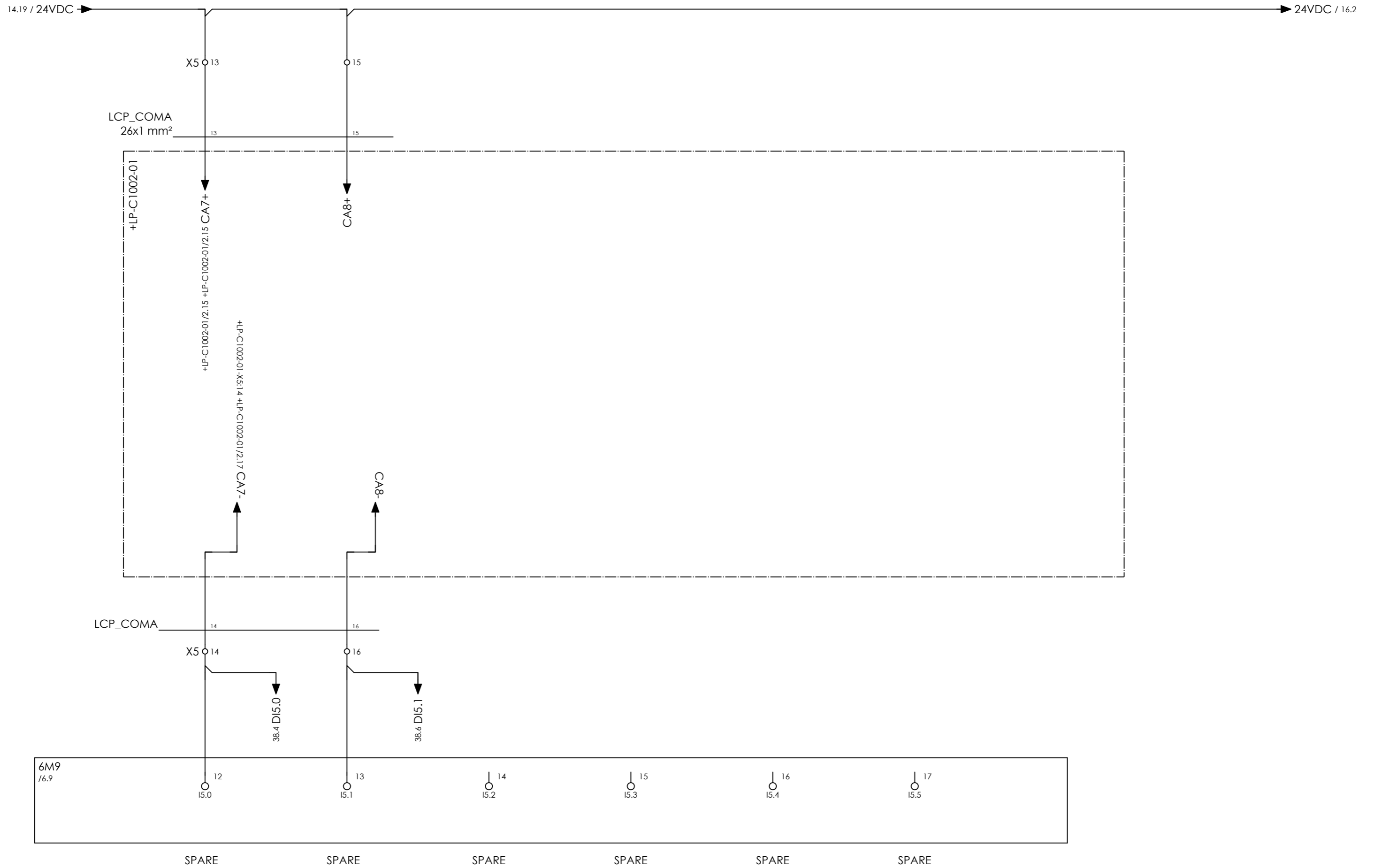
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT DIGITAL INPUTS I [6M9]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
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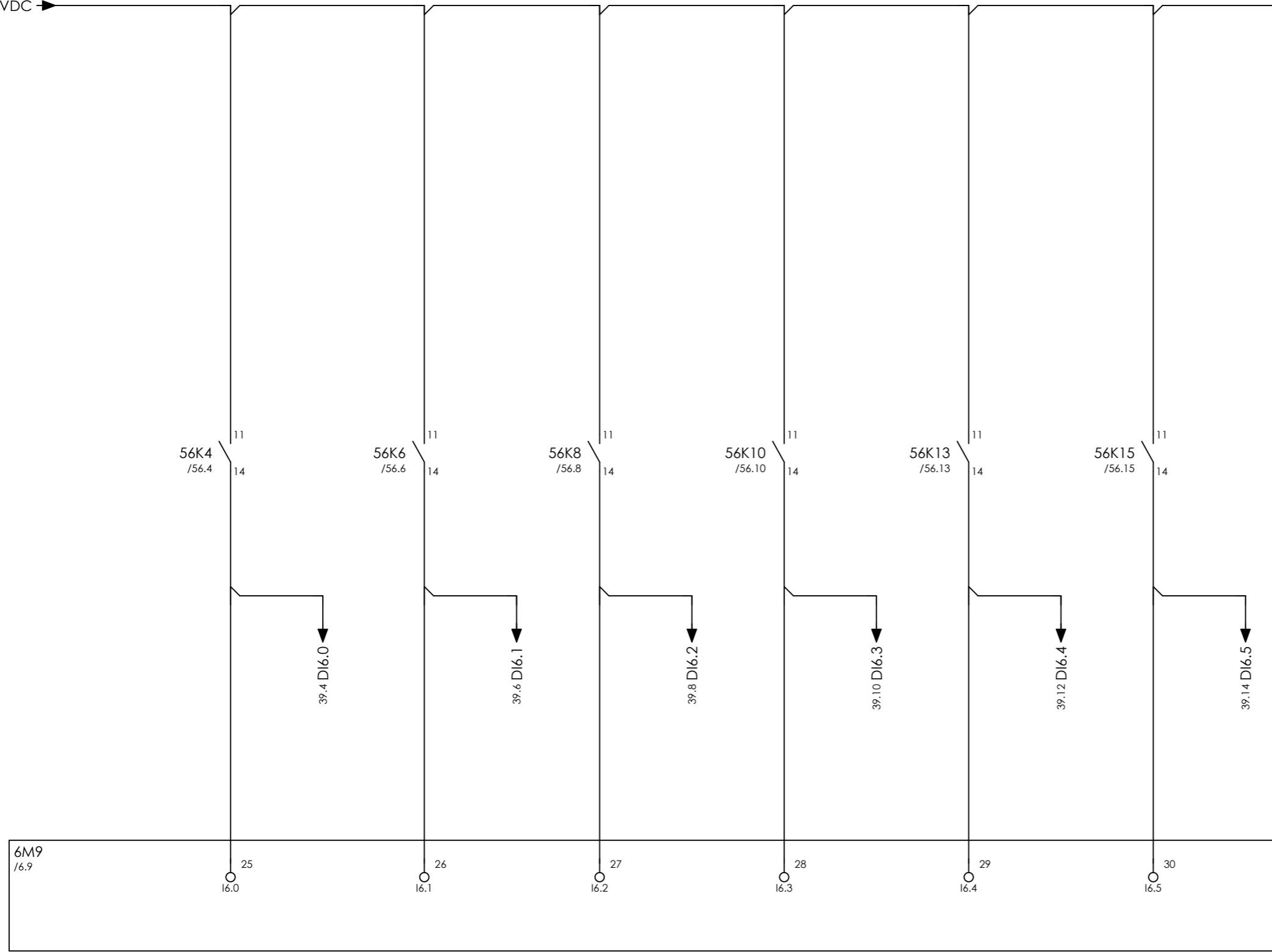


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	MaGo
DIGITAL INPUTS I [6M9]		CHECKED BY	RBE
ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05
CLIENT REF.	Bushehr MEG Plant Project	REVISION	03
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	27

= 20-C-1002	
+ UCP-C1002-01	
CURRENT PAGE	

15.19 / 24VDC → 24VDC / 17.3



COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
RUNNING

COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
FAULT

COMPRESSOR A  
OIL HEATER LG-10151  
ON

COMPRESSOR A  
OIL HEATER LG-10151  
FAULT

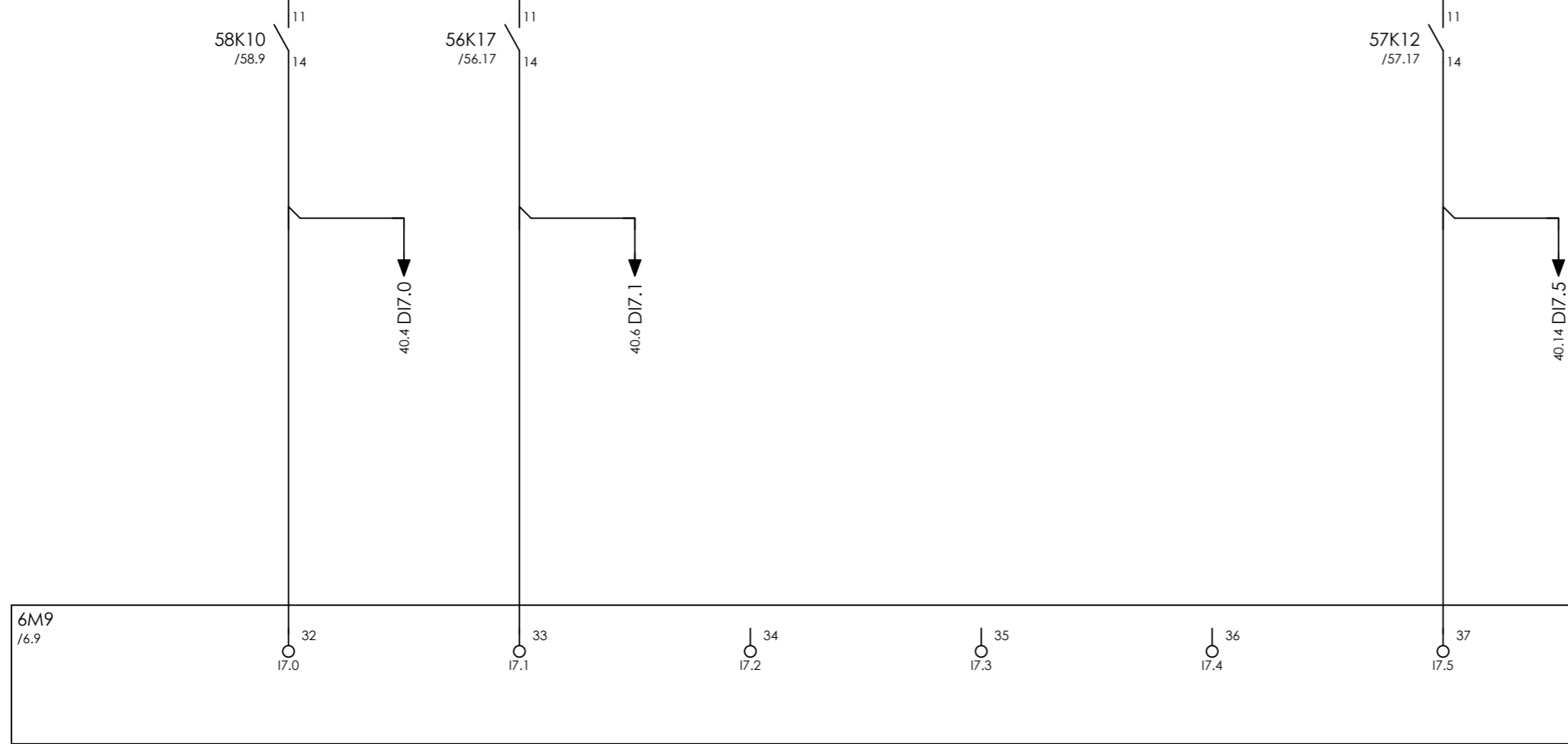
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SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	MaGo	= 20-C-1002
DIGITAL INPUTS I [6M9]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	03	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	28	



PID CONTROL  
CONTROL VALVE  
ALARM

OIL HEATER PID  
LG-10151  
FAULT

SPARE

SPARE

SPARE

TIME  
SYNCHRONIZATION  
XCS-108

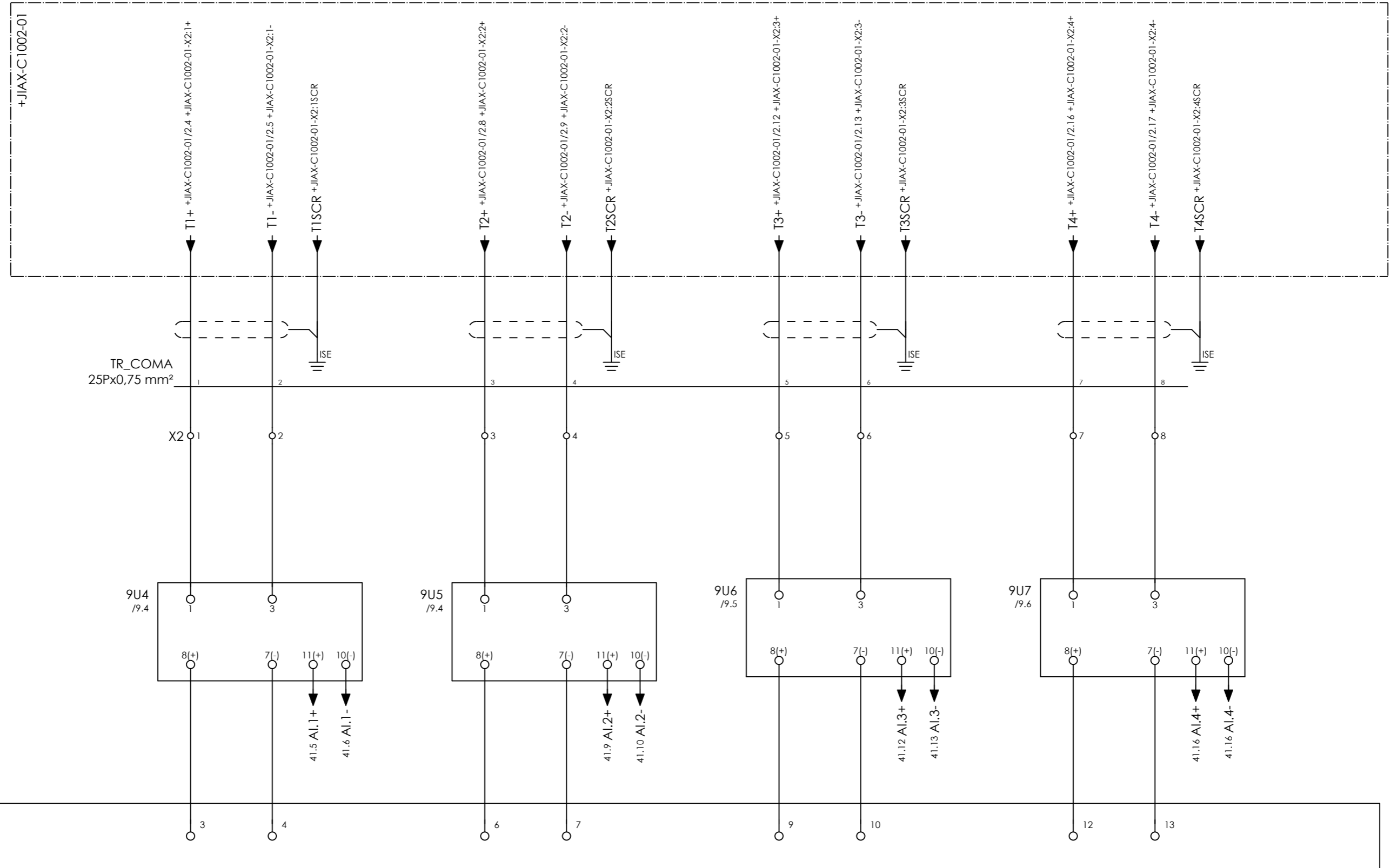


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I [6M9]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	29

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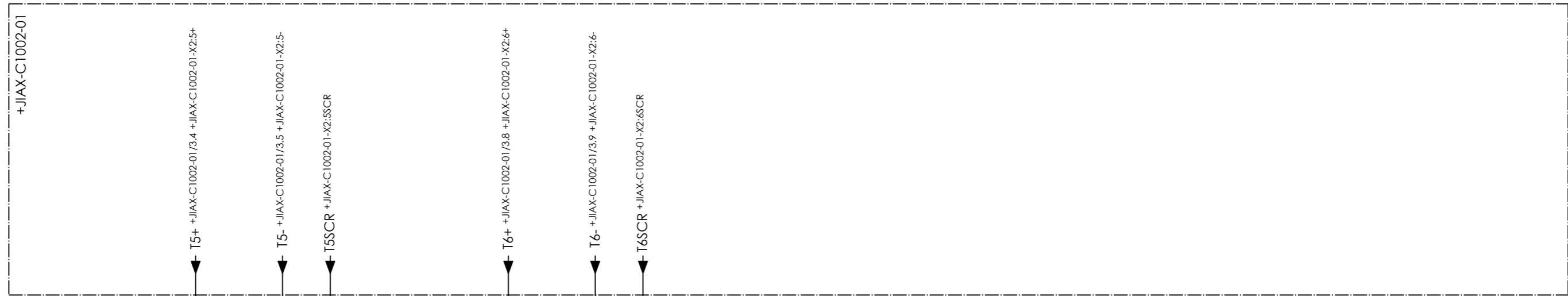


COMPRESSOR A  
INLET PRESSURE  
PIT-10153

COMPRESSOR A  
OIL SYSTEM PRESSURE  
PIT-10154

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER PRESSURE  
PIT-10157

COMPRESSOR A  
INLET TEMPERATURE  
TIT-10151



X2 9 10 11 12



42.5 AI.5+  
42.6 AI.5-

42.9 AI.6+  
42.10 AI.6-

6M10 /6.10

COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10152

COMPRESSOR A  
COOLING WATER OUTLET FLOW  
FIT-10151

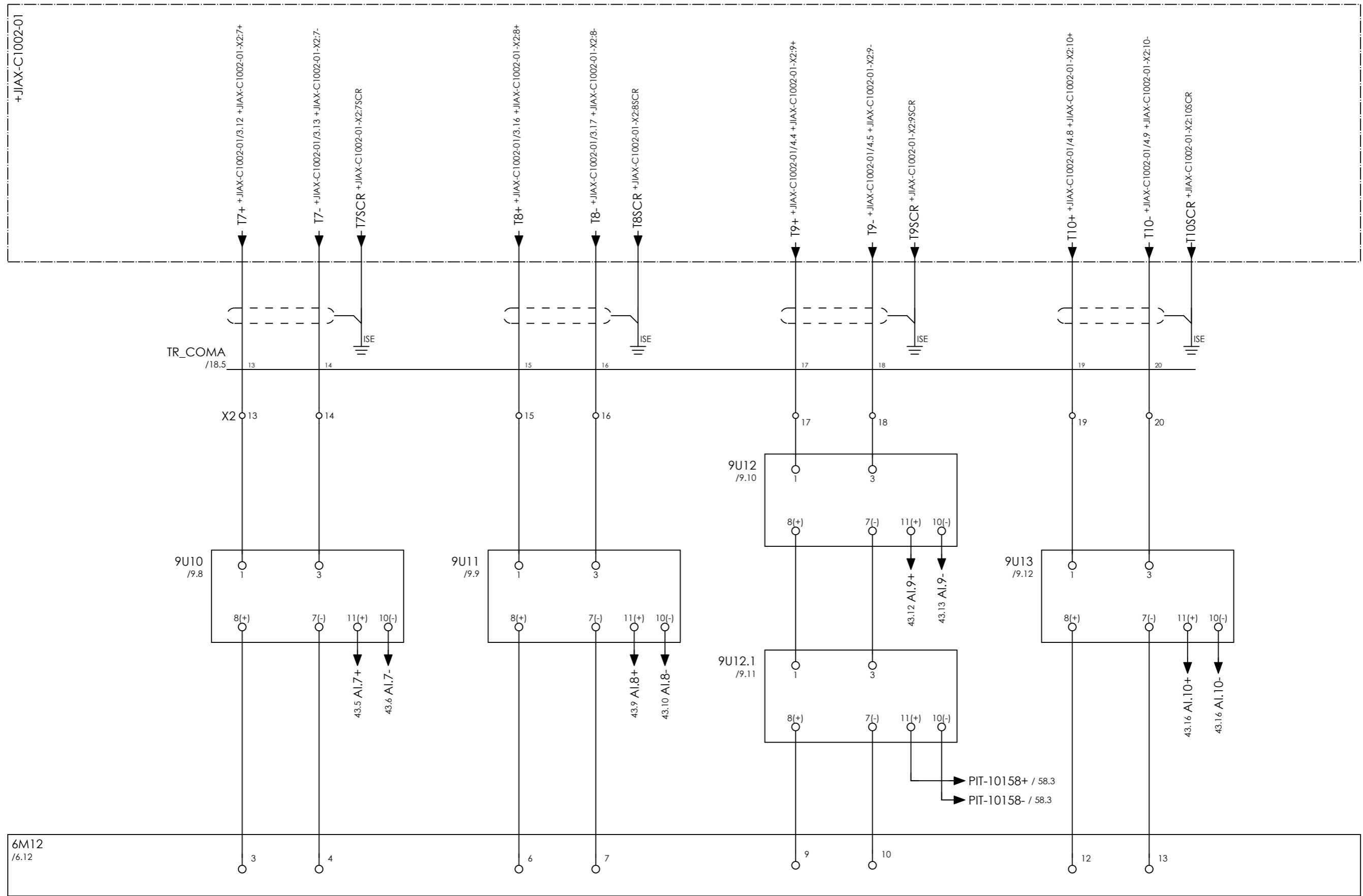


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I [6M10]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	31

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+ UCP-C1002-01
CURRENT PAGE



COMPRESSOR A  
VIBRATION LEVEL  
VT-10151

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER PRESSURE  
PIT-10156

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10158

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10159



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EQUIPMENT LOCATION	Iran, Onshore

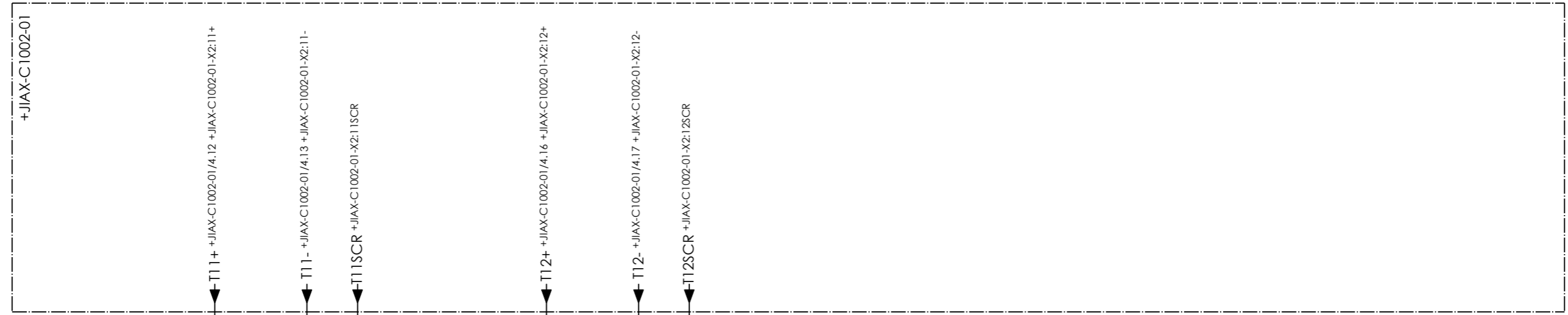
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SUBJECT	ANALOG INPUTS I [6M12]
ADAPTED TO P&ID REVISION	04

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	32

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+ UCP-C1002-01
CURRENT PAGE



COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10153

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10154

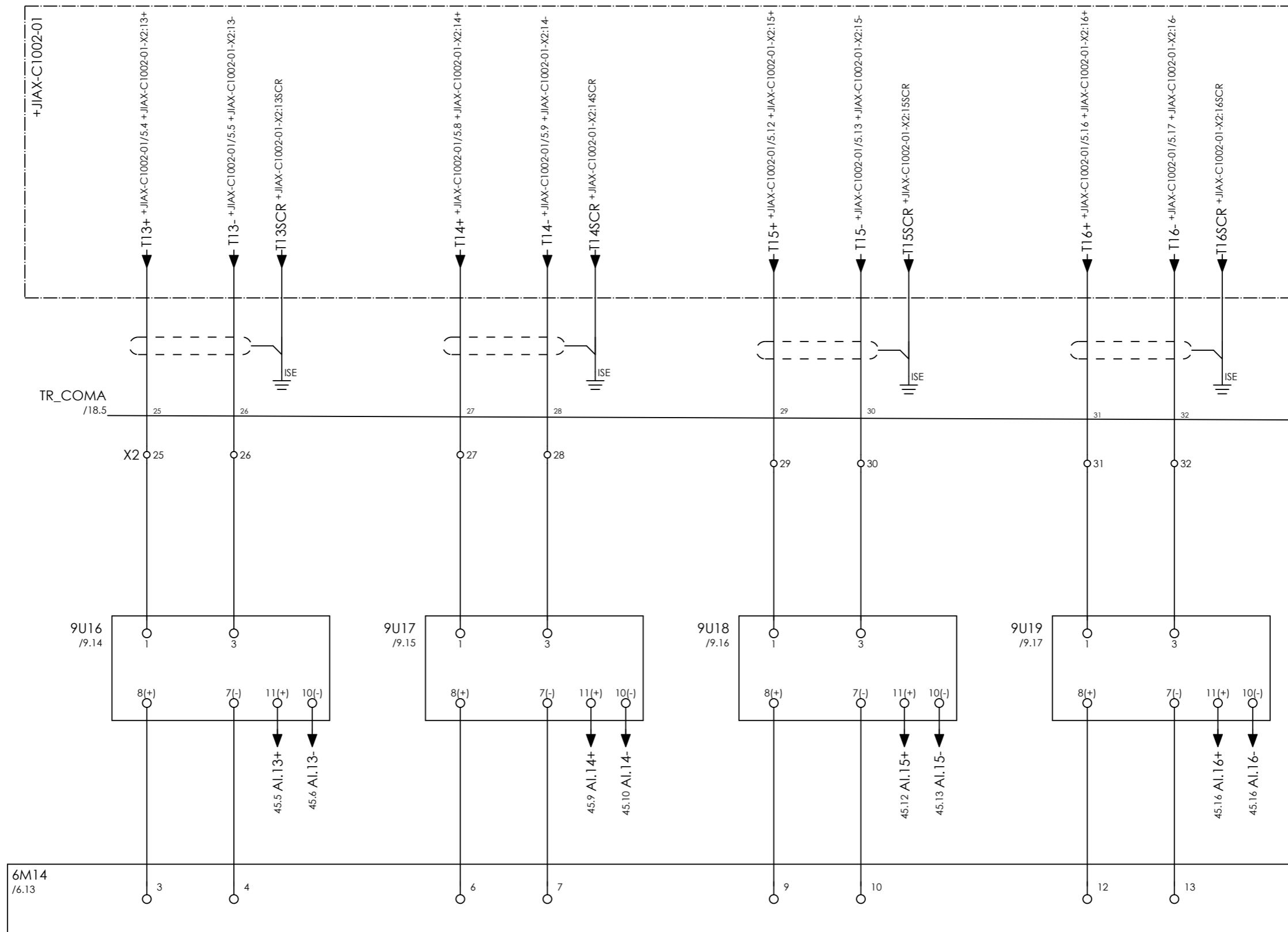


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
ANALOG INPUTS I [6M12]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
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REVISION	03
TOTAL PAGE AMOUNT	33

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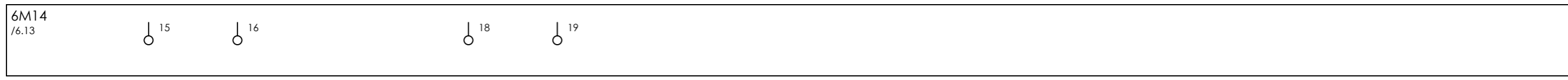
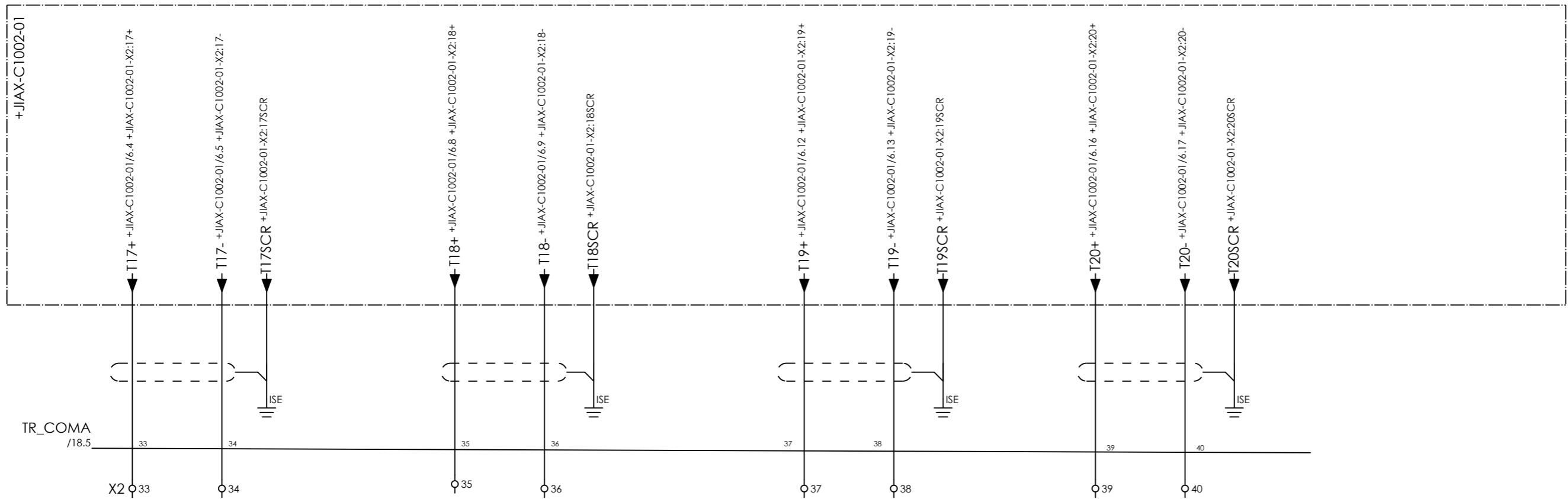


COMPRESSOR A  
2ND UPSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10155

SPARE

SPARE

SPARE

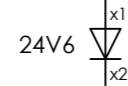
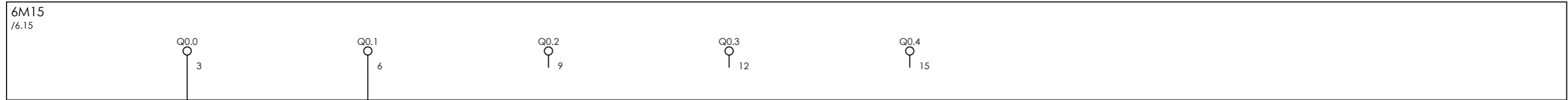


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I [6M14]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

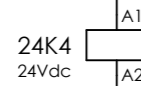
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REVISION	03
TOTAL PAGE AMOUNT	35

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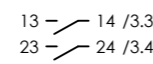
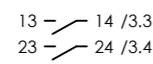
DOO.0 47.4

DOO.1 47.6



8.19 / 0.1VDC

0.1VDC / 25.2 -25H4:x2



ESD RELAY 01

ESD RELAY 02

SPARE

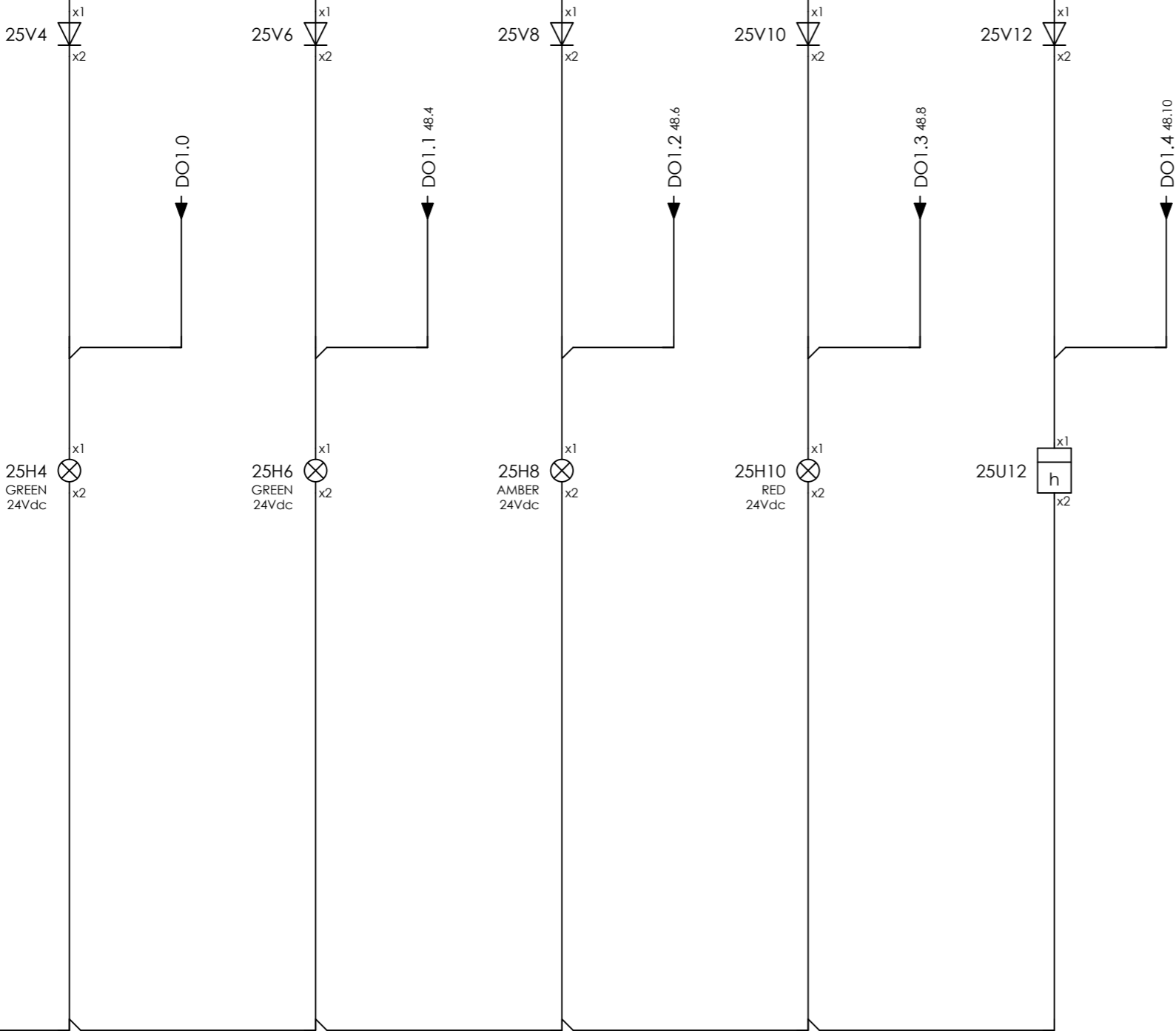
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	MaGo	= 20-C-1002
DIGITAL OUTPUTS I [6M15]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	03	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	36	



COMPRESSOR A OPERATIONAL XL-10156      COMPRESSOR A RUNNING XL-10157      COMPRESSOR A COMMON ALARM XL-10158      COMPRESSOR A COMMON TRIP XL-10159      COMPRESSOR A HOURMETER HM-10151

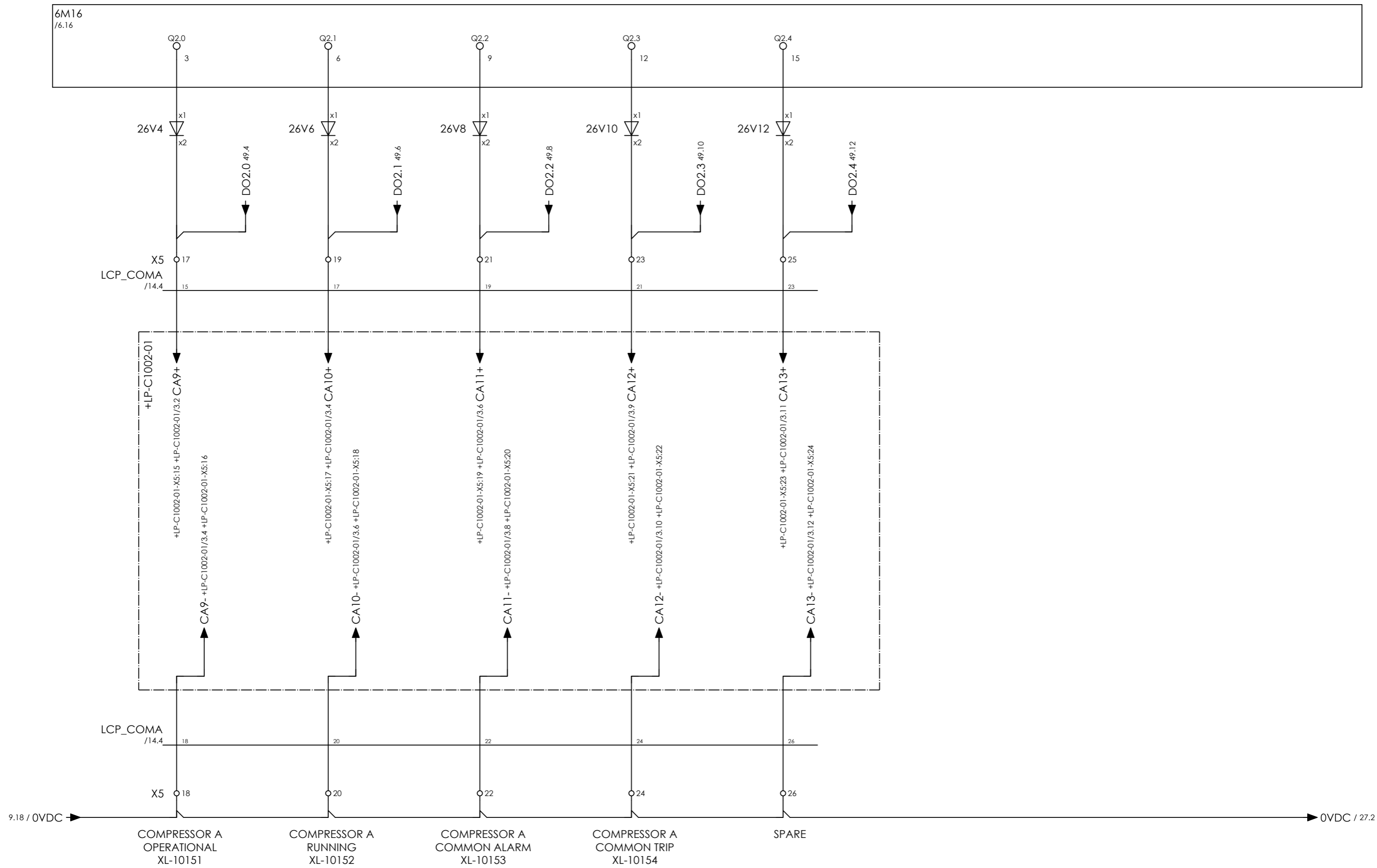


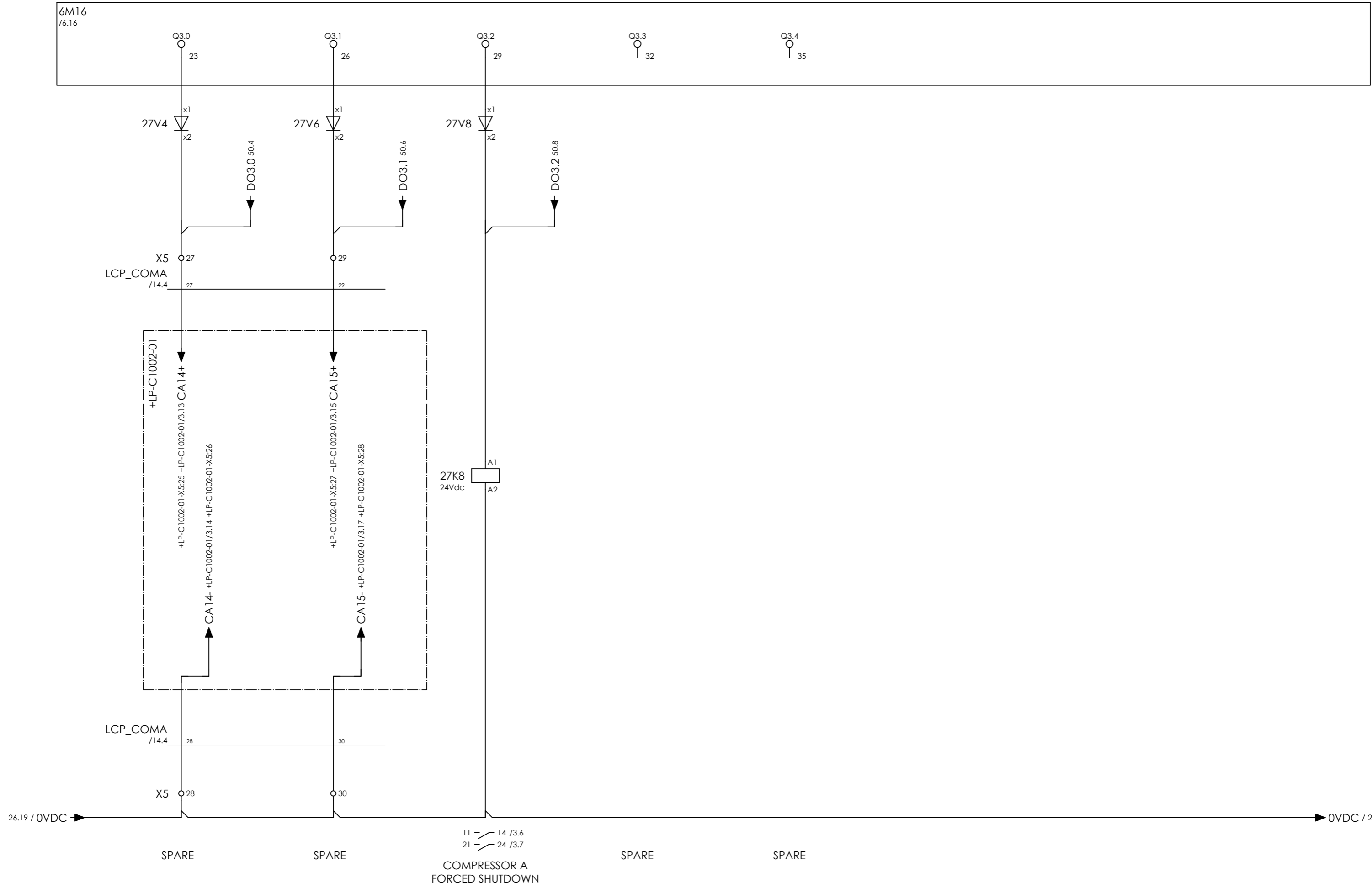
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL OUTPUTS I [6M15]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
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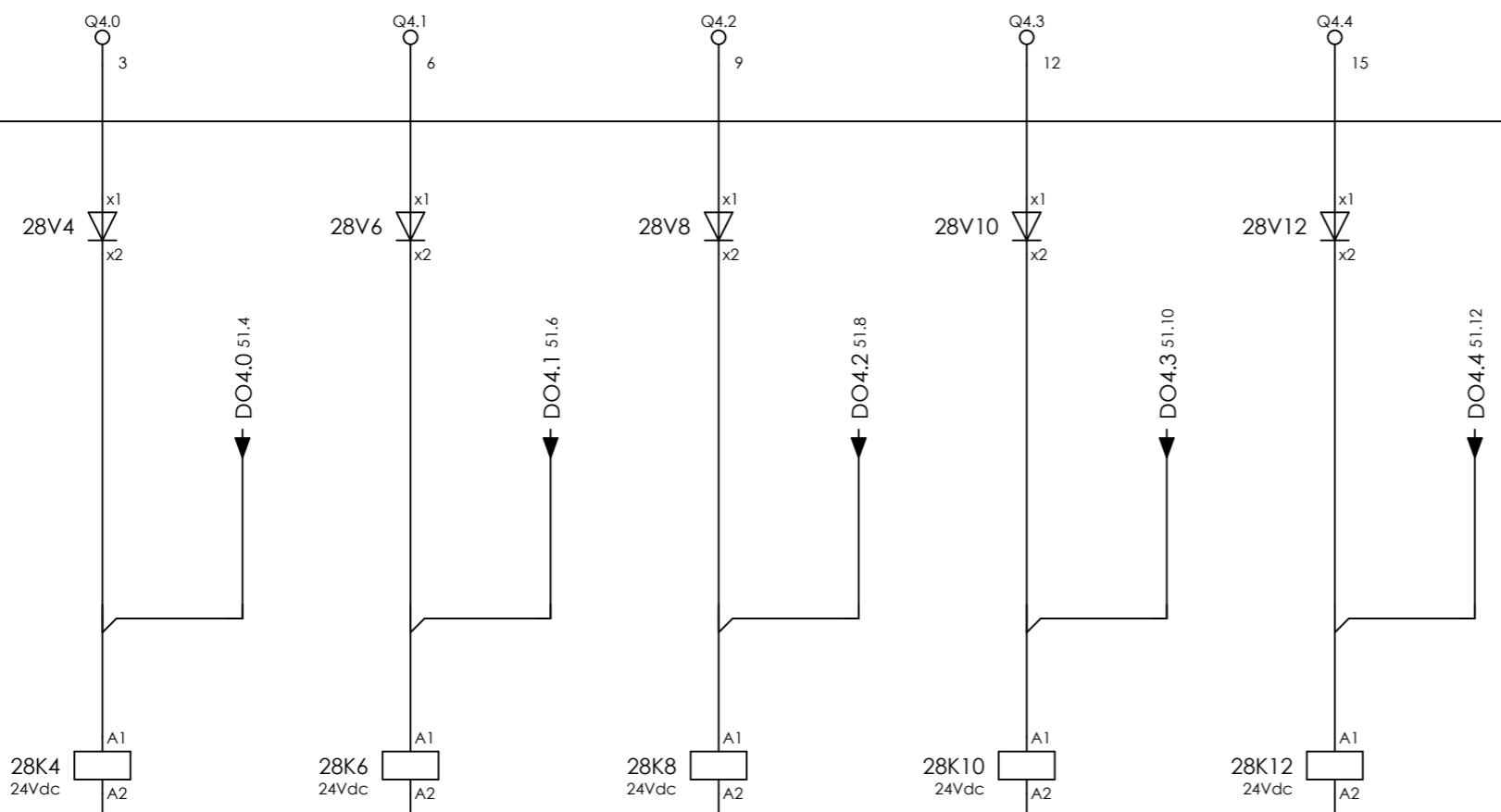
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	MaGo	= 20-C-1002
DIGITAL OUTPUTS I [6M16]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	03	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	39	

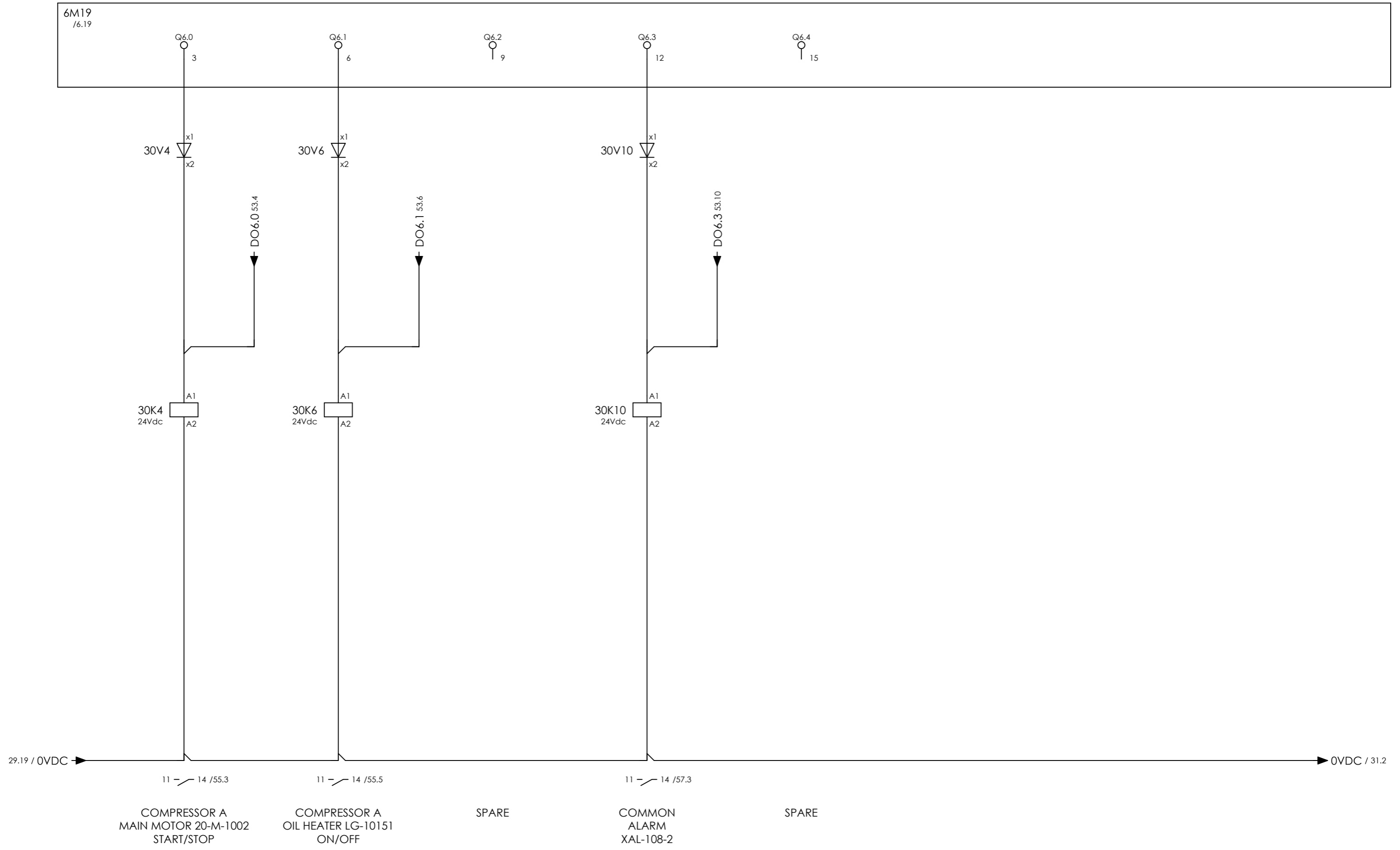


COMPRESSOR A SOLENOID VALVE XY-10151      COMPRESSOR A SOLENOID VALVE XY-10152      SPARE      SPARE      PID CONTROL ACTIVE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	DIGITAL OUTPUTS I [6M18]		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	03	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	40	





CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS I [6M19]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	42

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6M19  
/6.19

Q7.0  
23

Q7.1  
26

Q7.2  
29

Q7.3  
32

Q7.4  
35

30.19 / OVDC → → OVDC / 56.2

SPARE

SPARE

SPARE

SPARE

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT	
DIGITAL OUTPUTS I [6M19]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	43

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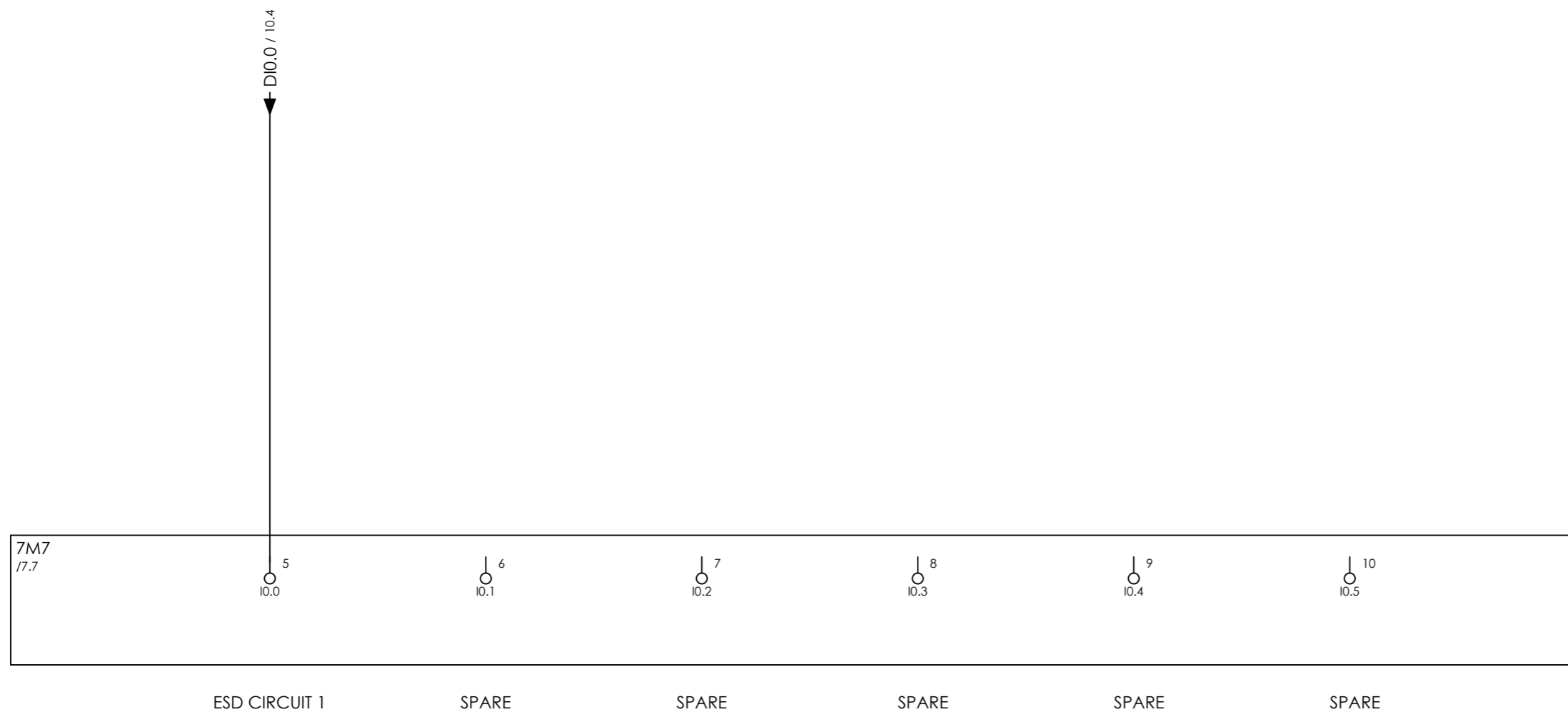


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT EMPTY PAGE	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
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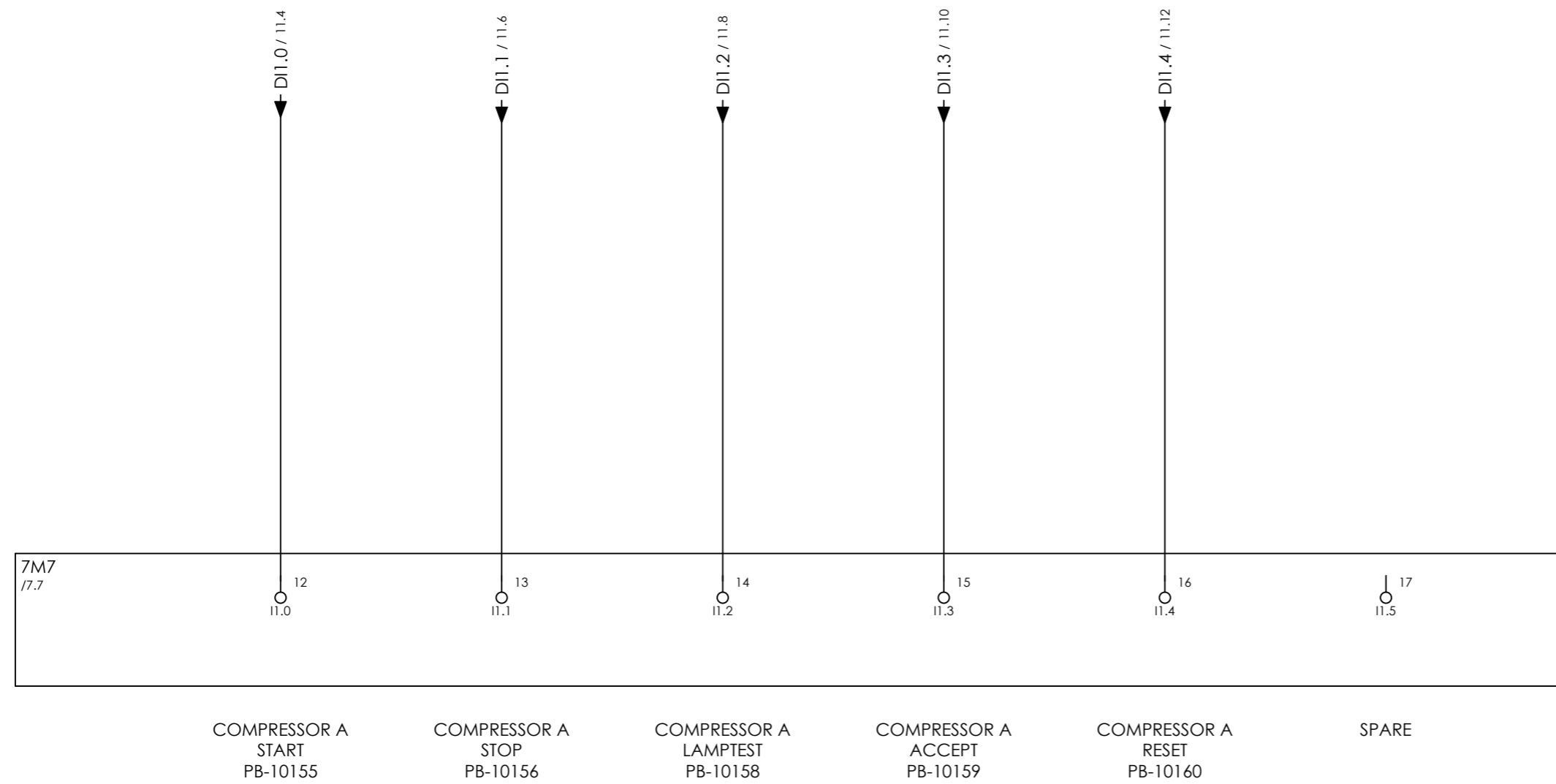


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS II [7M7]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
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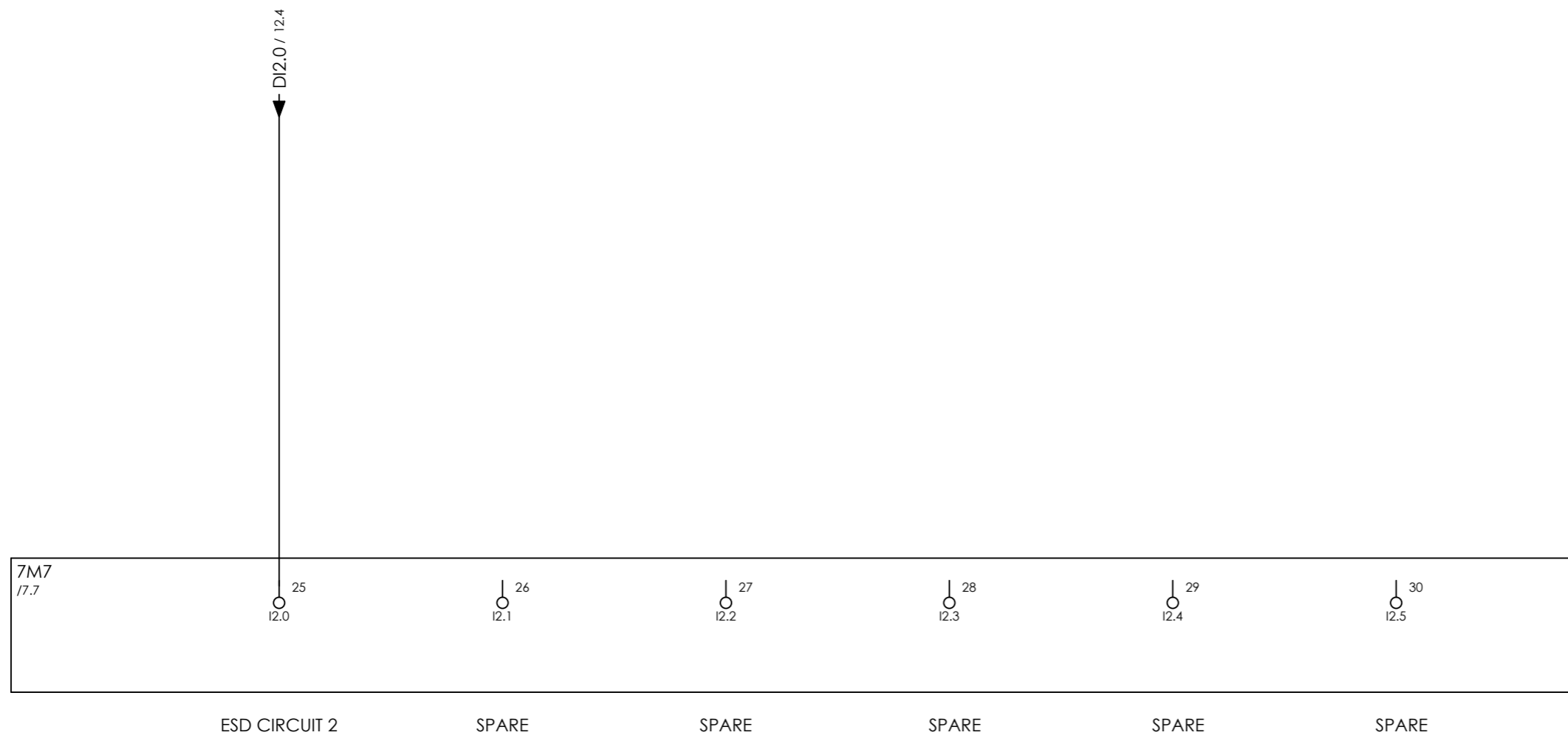


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS II [7M7]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
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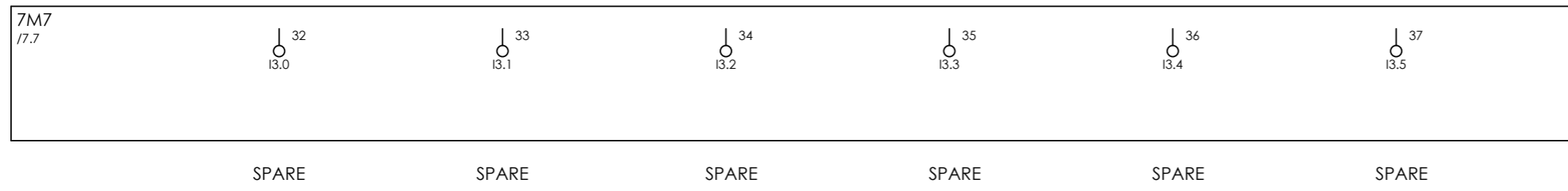


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EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS II [7M7]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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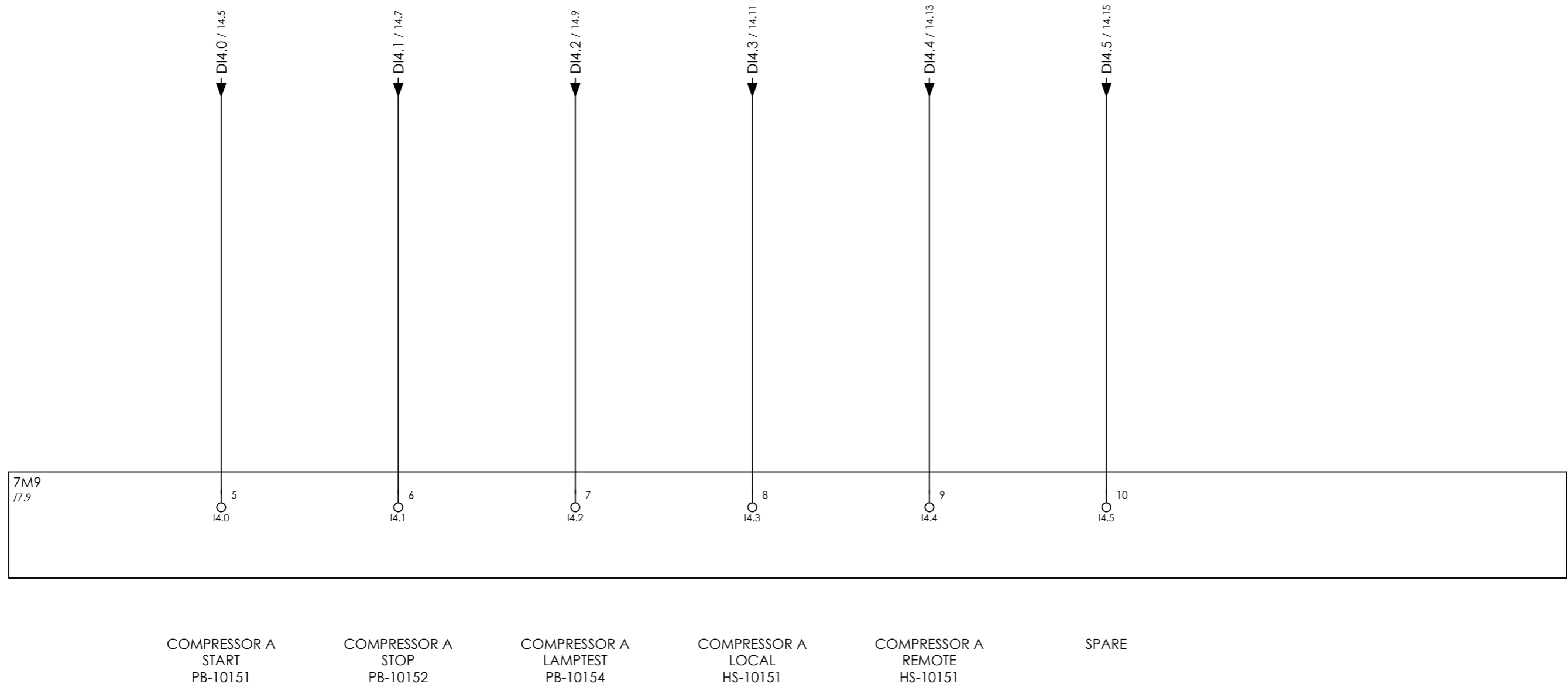


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SUBJECT DIGITAL INPUTS II [7M7]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
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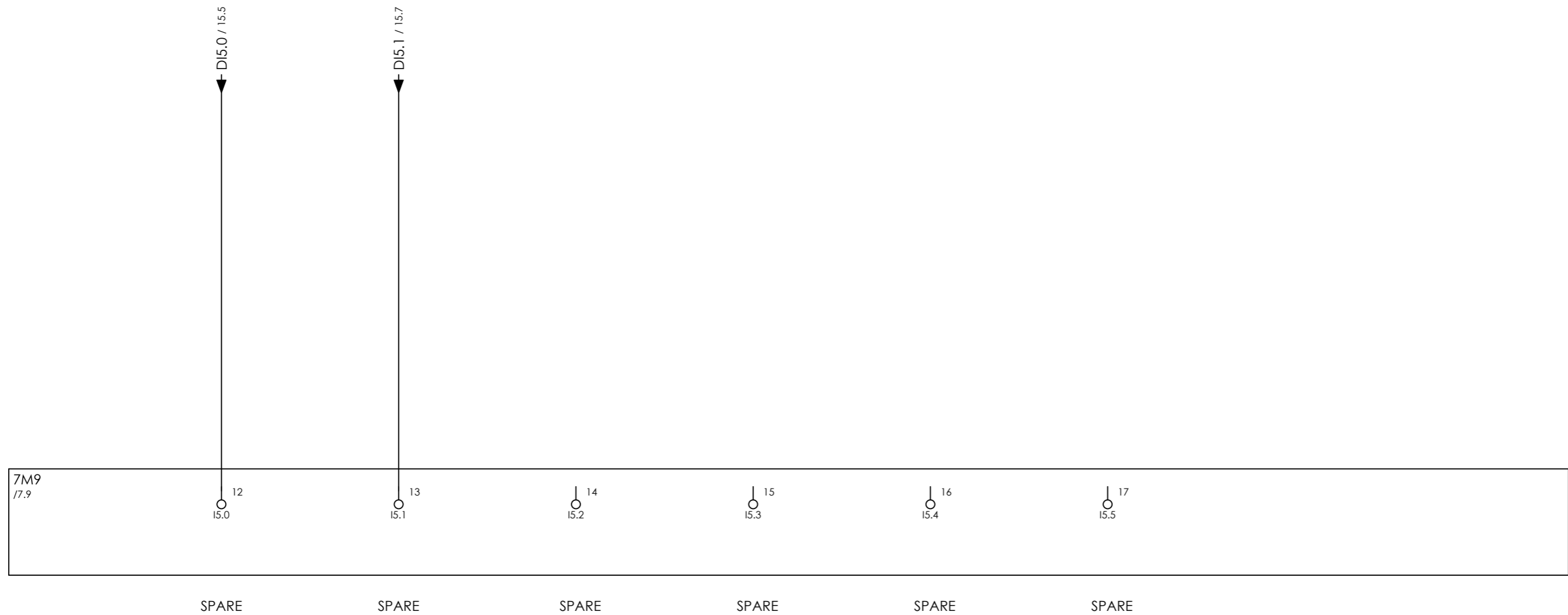


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS II [7M9]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
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TOTAL PAGE AMOUNT	49

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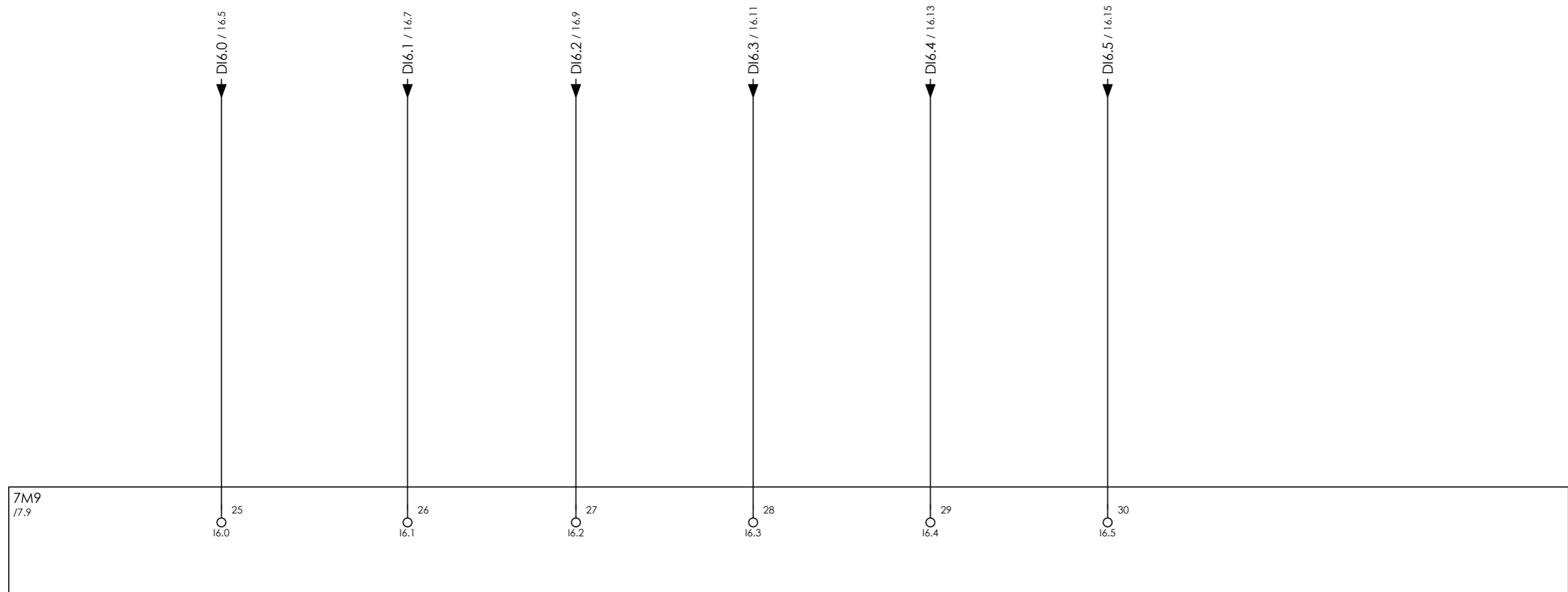


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SUBJECT	
DIGITAL INPUTS II [7M9]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	50

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COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
RUNNING

COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
FAULT

COMPRESSOR A  
OIL HEATER LG-10151  
ON

COMPRESSOR A  
OIL HEATER LG-10151  
FAULT

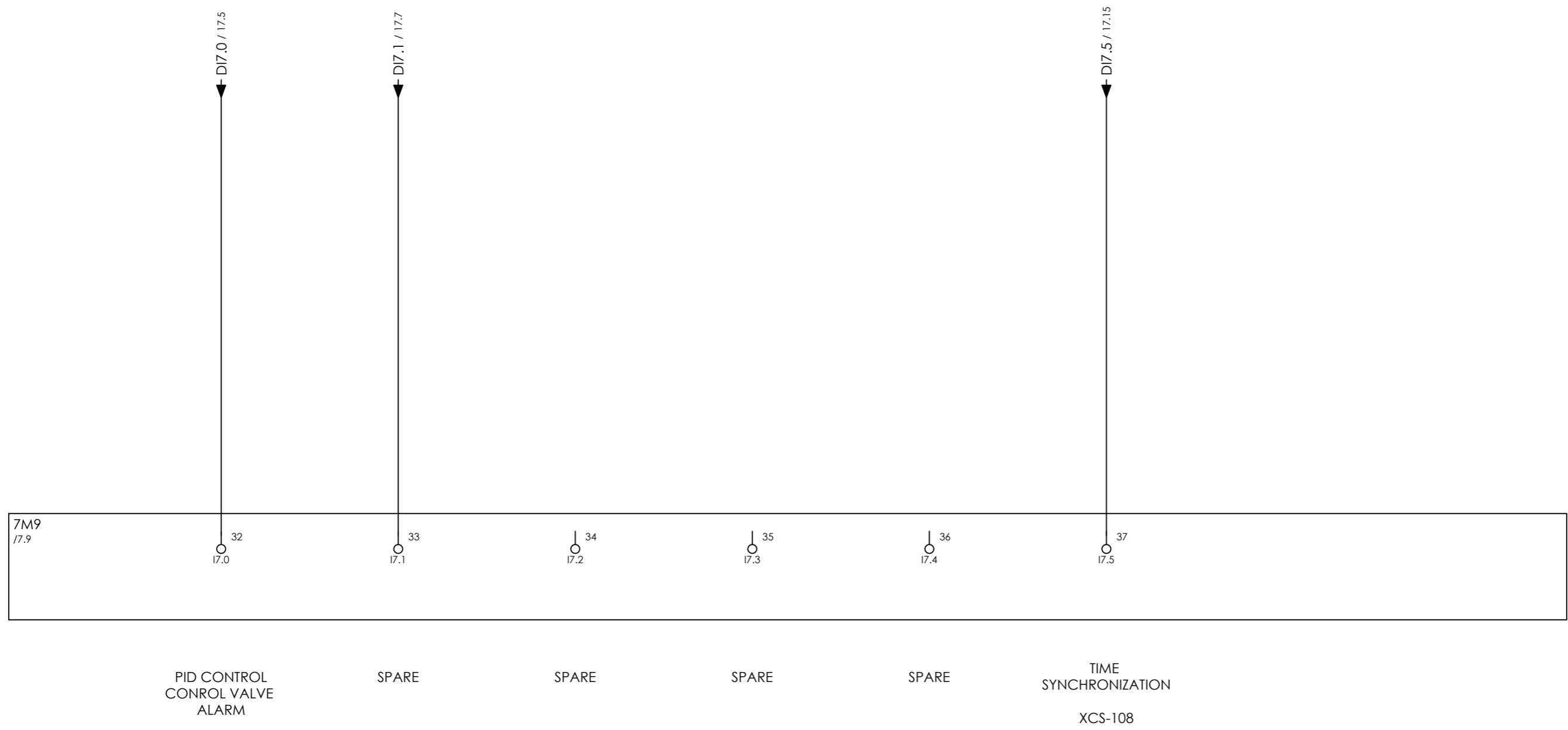
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	MaGo	= 20-C-1002
DIGITAL INPUTS II [7M9]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	03	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	51	

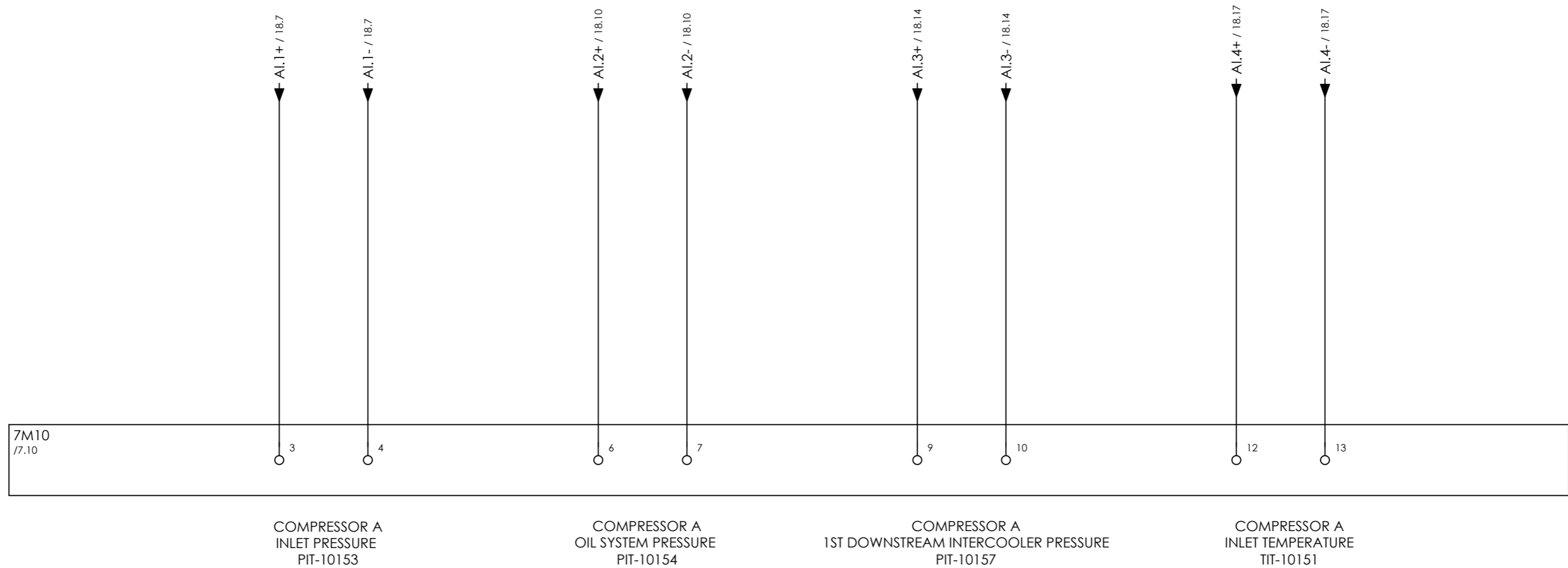


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS II [7M9]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	52

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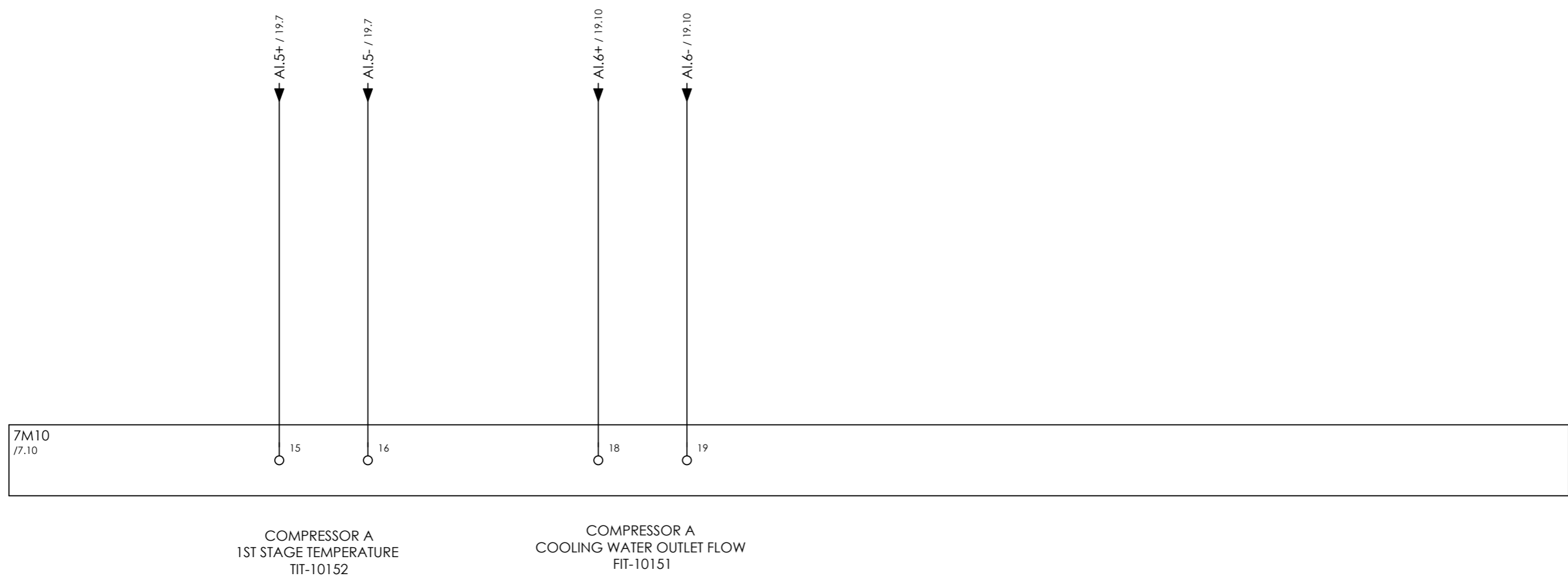


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M10]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	53

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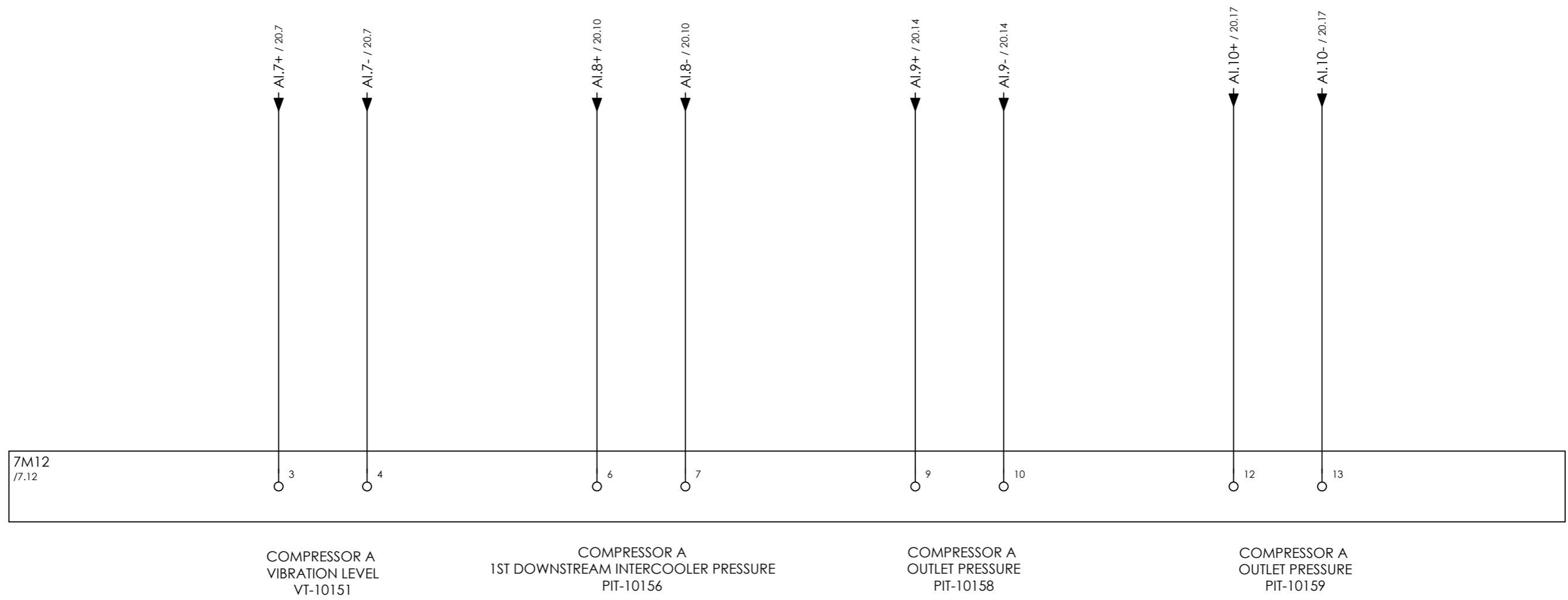


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT ANALOG INPUTS II [7M10]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
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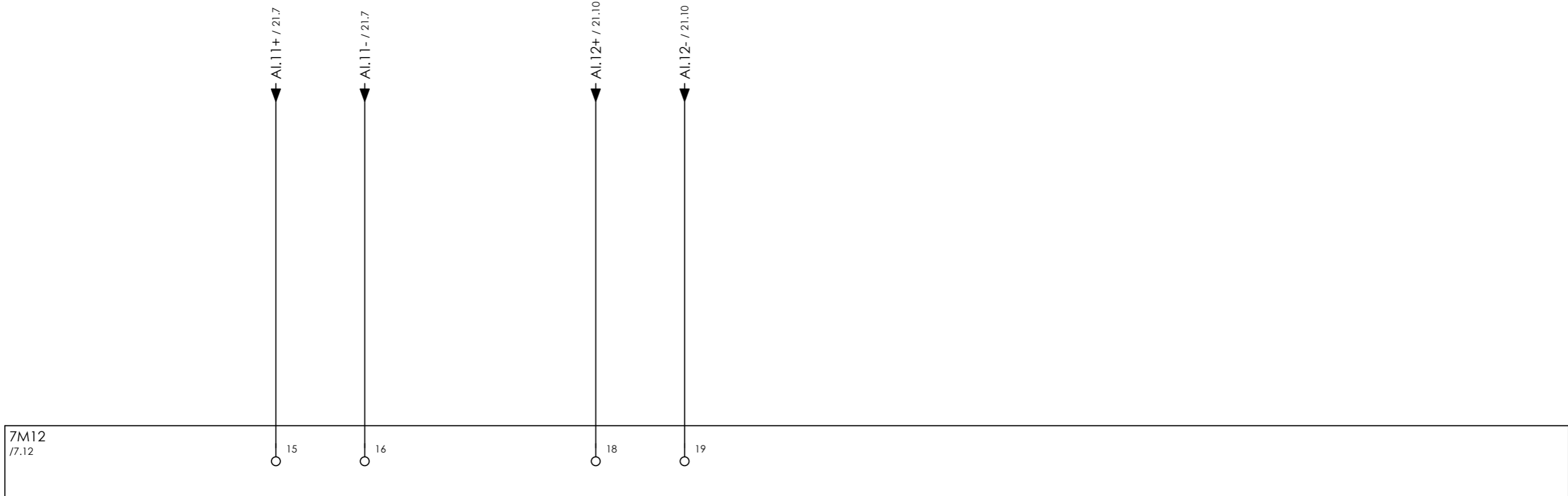


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M12]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
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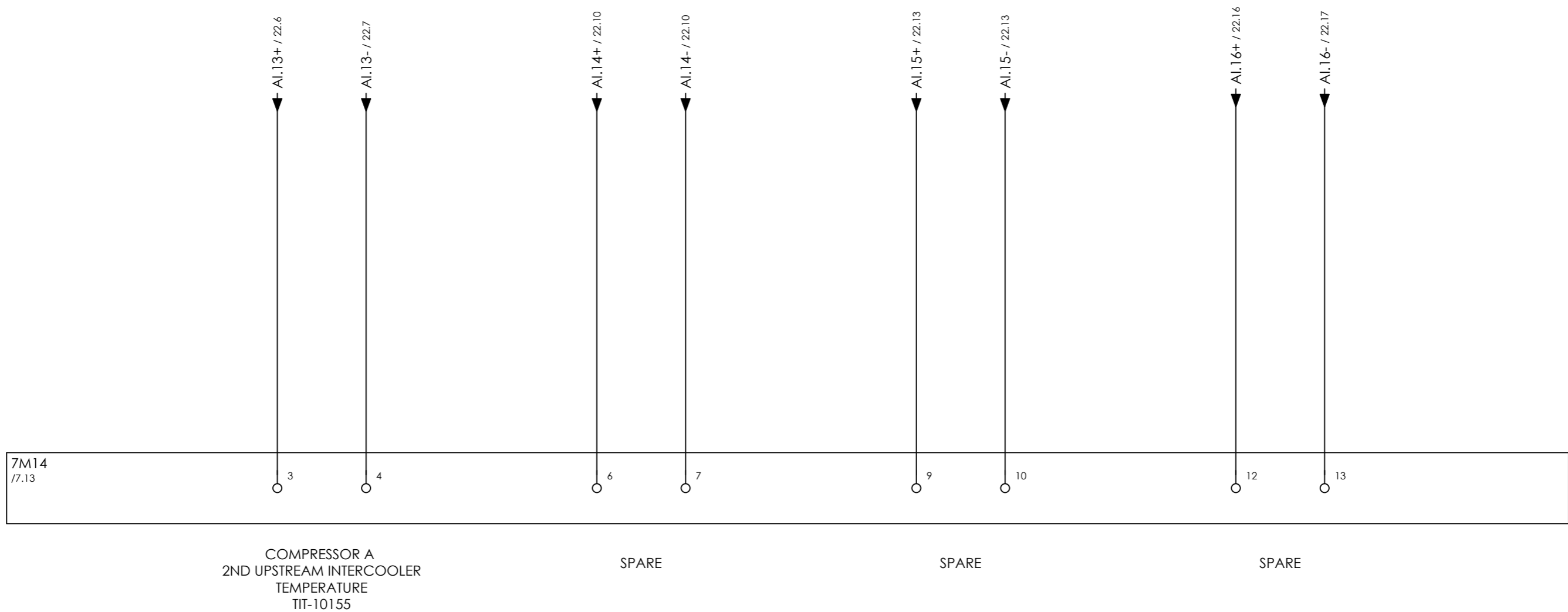


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT ANALOG INPUTS II [7M12]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	56

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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M14]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	57

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SPARE

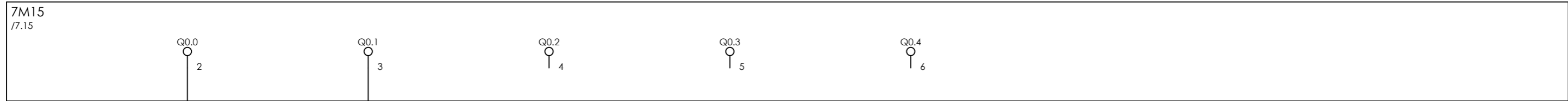


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M14]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	58

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ESD RELAY 01

ESD RELAY 02

SPARE

SPARE

SPARE

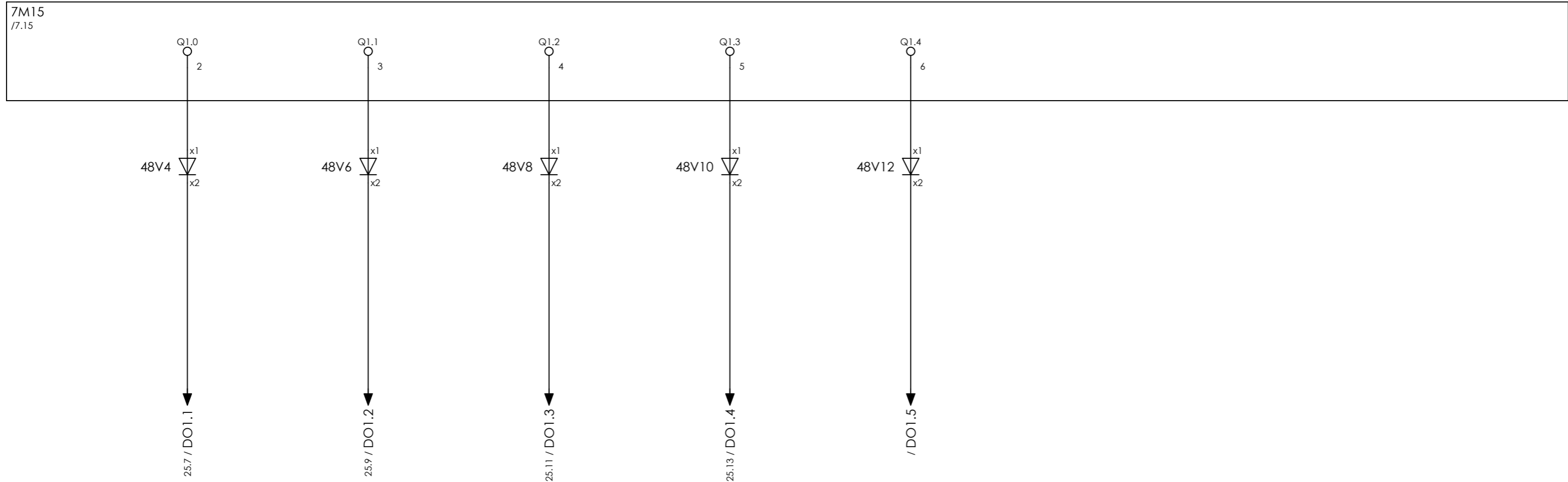


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL OUTPUTS II [7M15]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	59

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



COMPRESSOR A  
OPERATIONAL  
XL-10156

COMPRESSOR A  
RUNNING  
XL-10157

COMPRESSOR A  
COMMON ALARM  
XL-10158

COMPRESSOR A  
COMMON TRIP  
XL-10159

COMPRESSOR A  
HOURMETER  
HM-10151



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

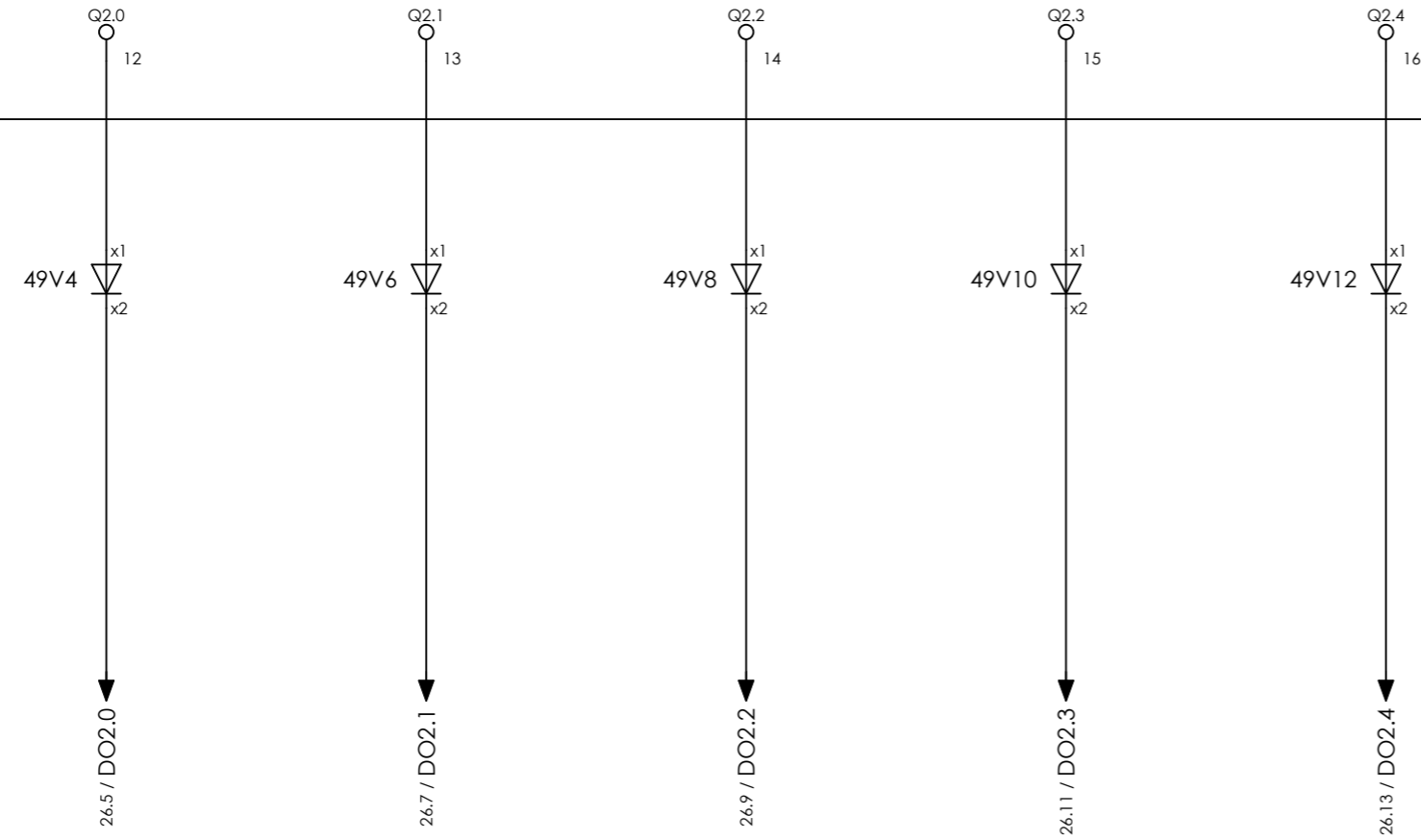
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SUBJECT DIGITAL OUTPUTS II [7M15]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	60

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE

7M16  
/7.16



COMPRESSOR A  
OPERATIONAL  
XL-10151

COMPRESSOR A  
RUNNING  
XL-10152

COMPRESSOR A  
COMMON ALARM  
XL-10153

COMPRESSOR A  
COMMON TRIP  
XL-10154

SPARE

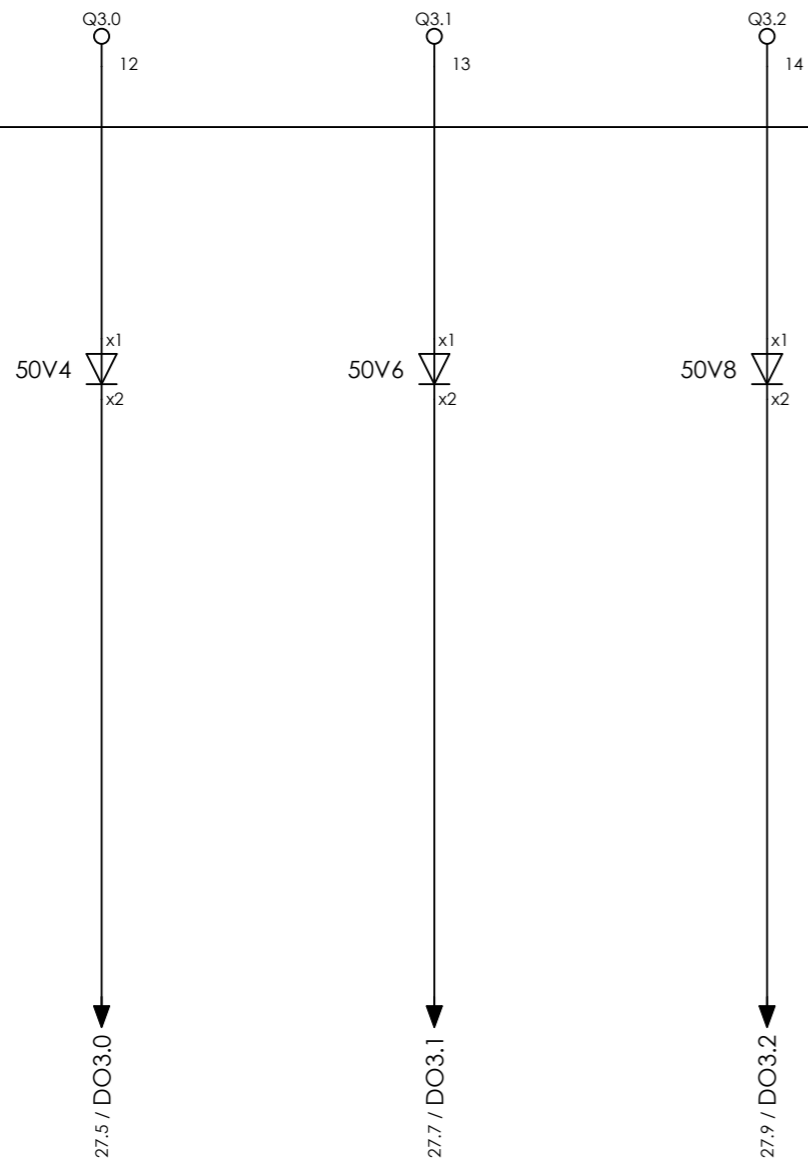


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT		DIGITAL OUTPUTS II [7M16]	
ADAPTED TO P&ID REVISION	04	CLIENT	Bushehr Petrochemical Company (BUPC)
AIRPACK REF.	17811-05A	CLIENT REF.	Bushehr MEG Plant Project

DRAWN BY	MaGo	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	03	
TOTAL PAGE AMOUNT	61	



SPARE

SPARE

COMPRESSOR A  
FORCED SHUTDOWN

SPARE

SPARE



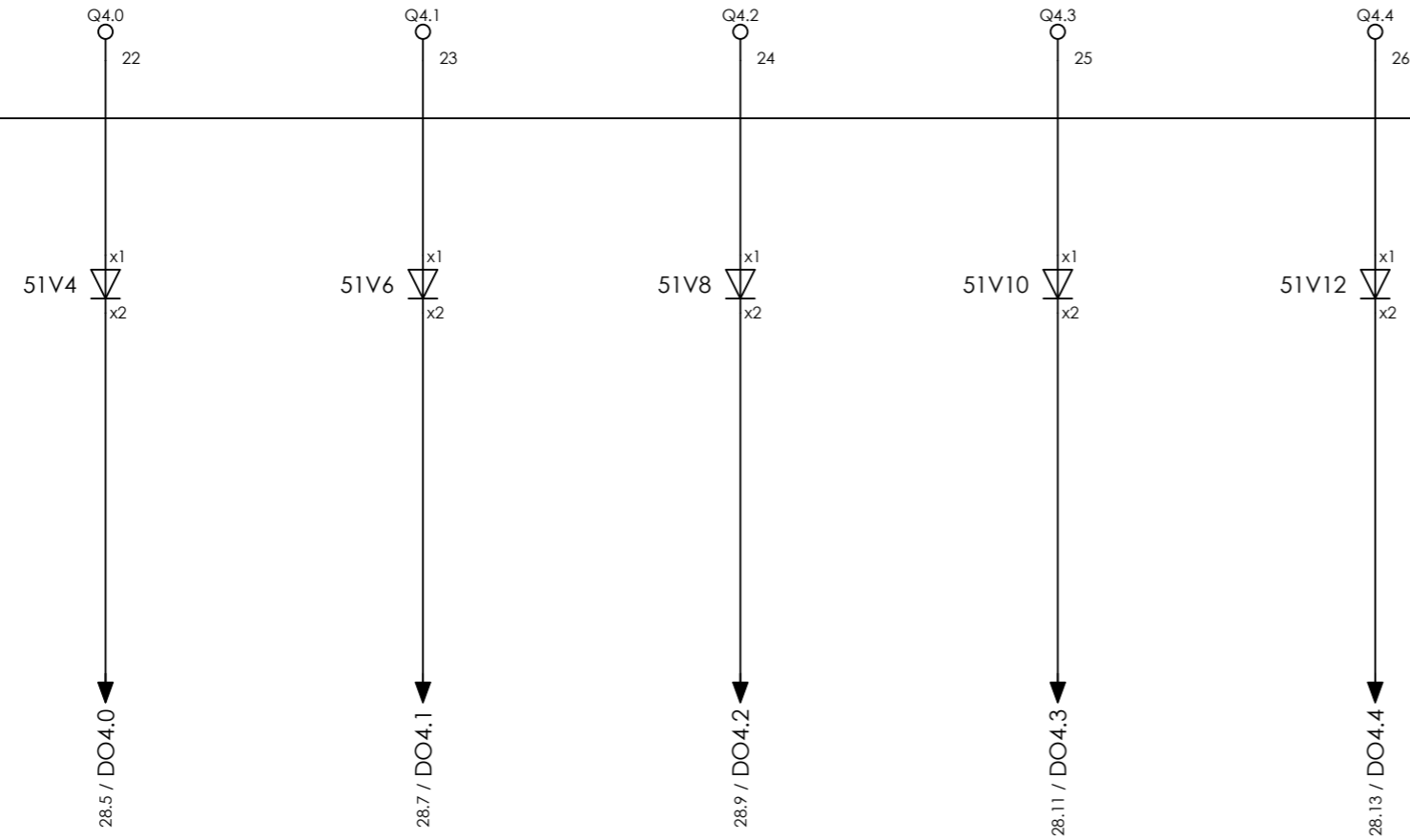
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EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS II [7M16]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	62

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE

7M18  
/7.18



COMPRESSOR A  
SOLENOID VALVE  
XY-10151

COMPRESSOR A  
SOLENOID VALVE  
XY-10152

SPARE

SPARE

PID CONTROL  
ACTIVE

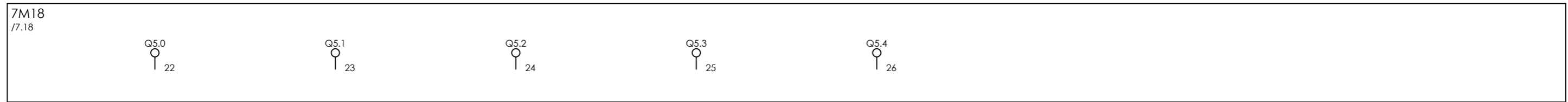


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS II [7M18]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	63

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SPARE

SPARE

SPARE

SPARE

SPARE



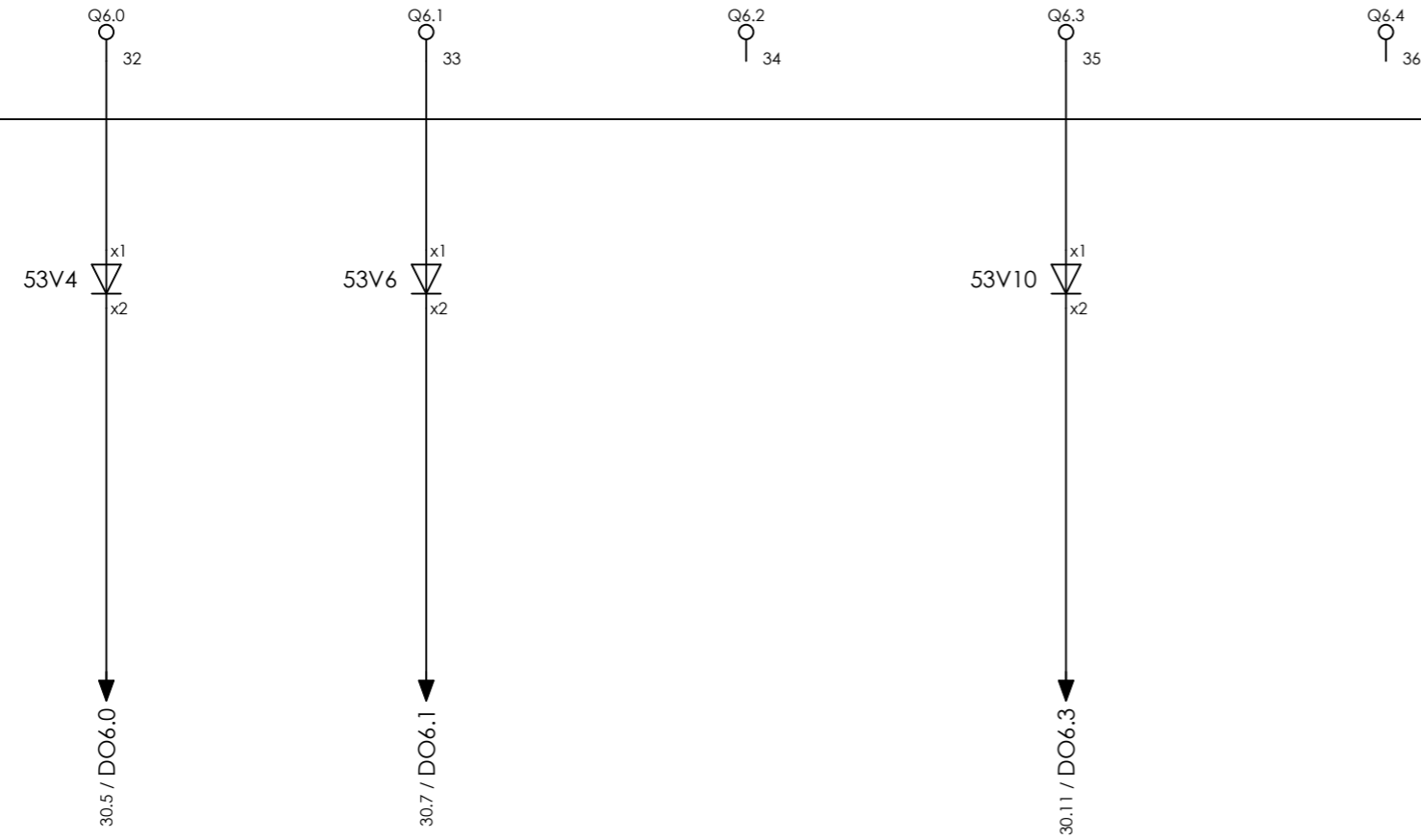
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EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS II [7M18]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	64

= 20-C-1002
+ UCP-C1002-01
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7M11



COMPRESSOR A  
MAIN MOTOR 20-M-1002  
START/STOP

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF

SPARE

COMMON  
ALARM  
XAL-108-2

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	MaGo	= 20-C-1002
DIGITAL OUTPUTS II [7M19]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	03	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	65	

7M11

Q7.0  
32

Q7.1  
33

Q7.2  
34

Q7.3  
35

Q7.4  
36

SPARE

SPARE

SPARE

SPARE

SPARE

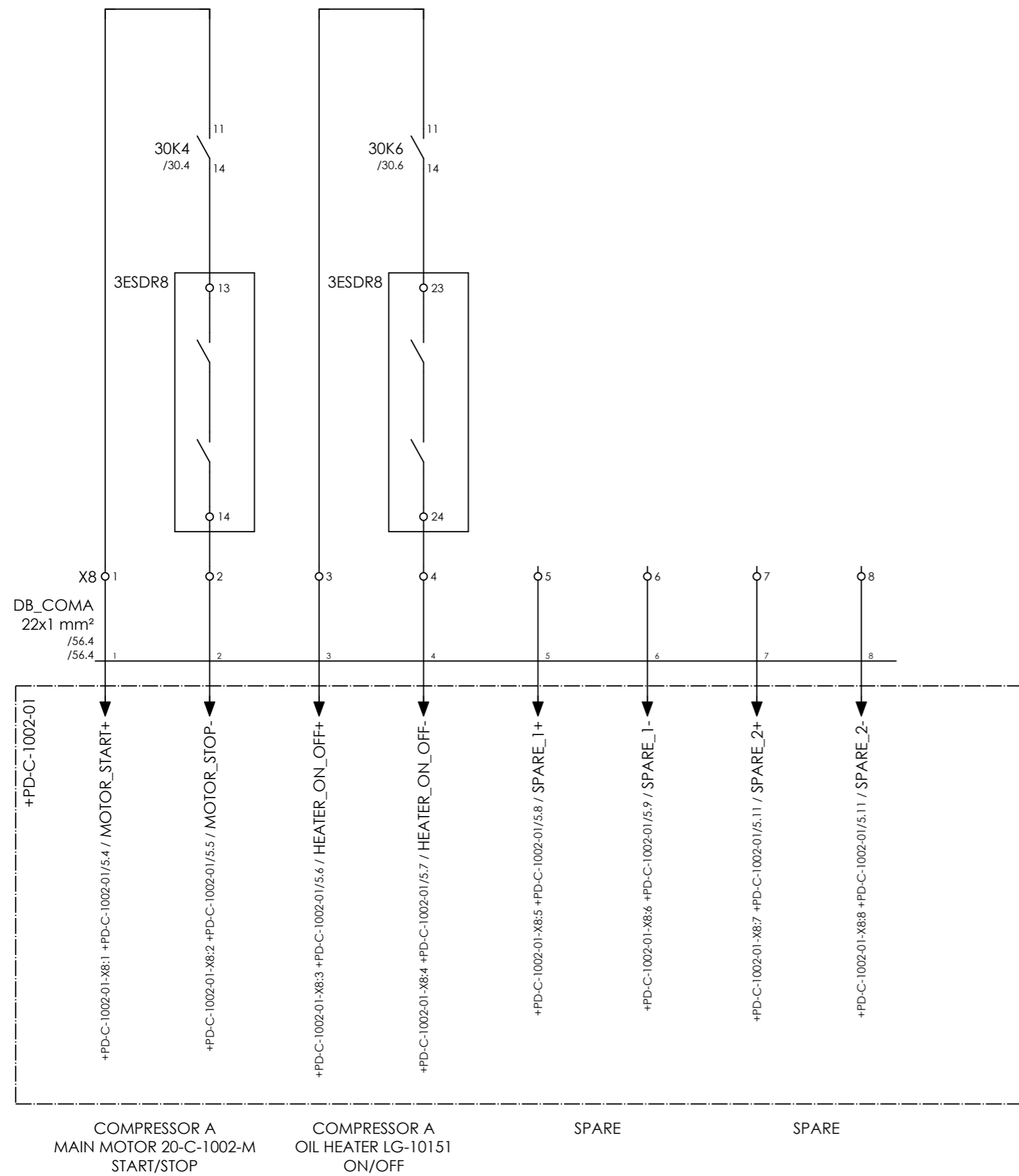


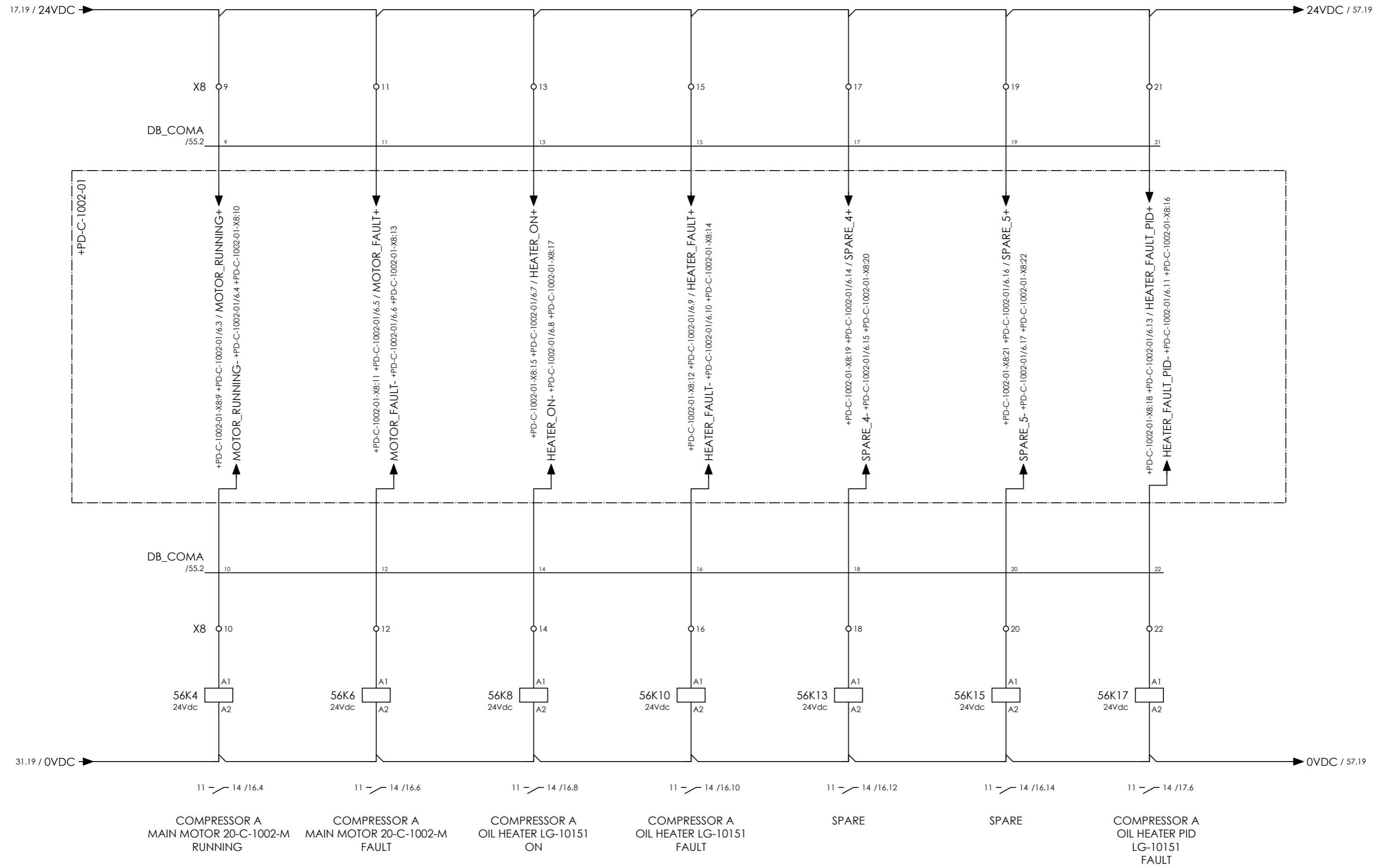
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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS II [7M19]	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	66

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE





COMPRESSOR A MAIN MOTOR 20-C-1002-M RUNNING	COMPRESSOR A MAIN MOTOR 20-C-1002-M FAULT	COMPRESSOR A OIL HEATER LG-10151 ON	COMPRESSOR A OIL HEATER LG-10151 FAULT	SPARE	SPARE	COMPRESSOR A OIL HEATER PID LG-10151 FAULT
---	---	---	--	-------	-------	---

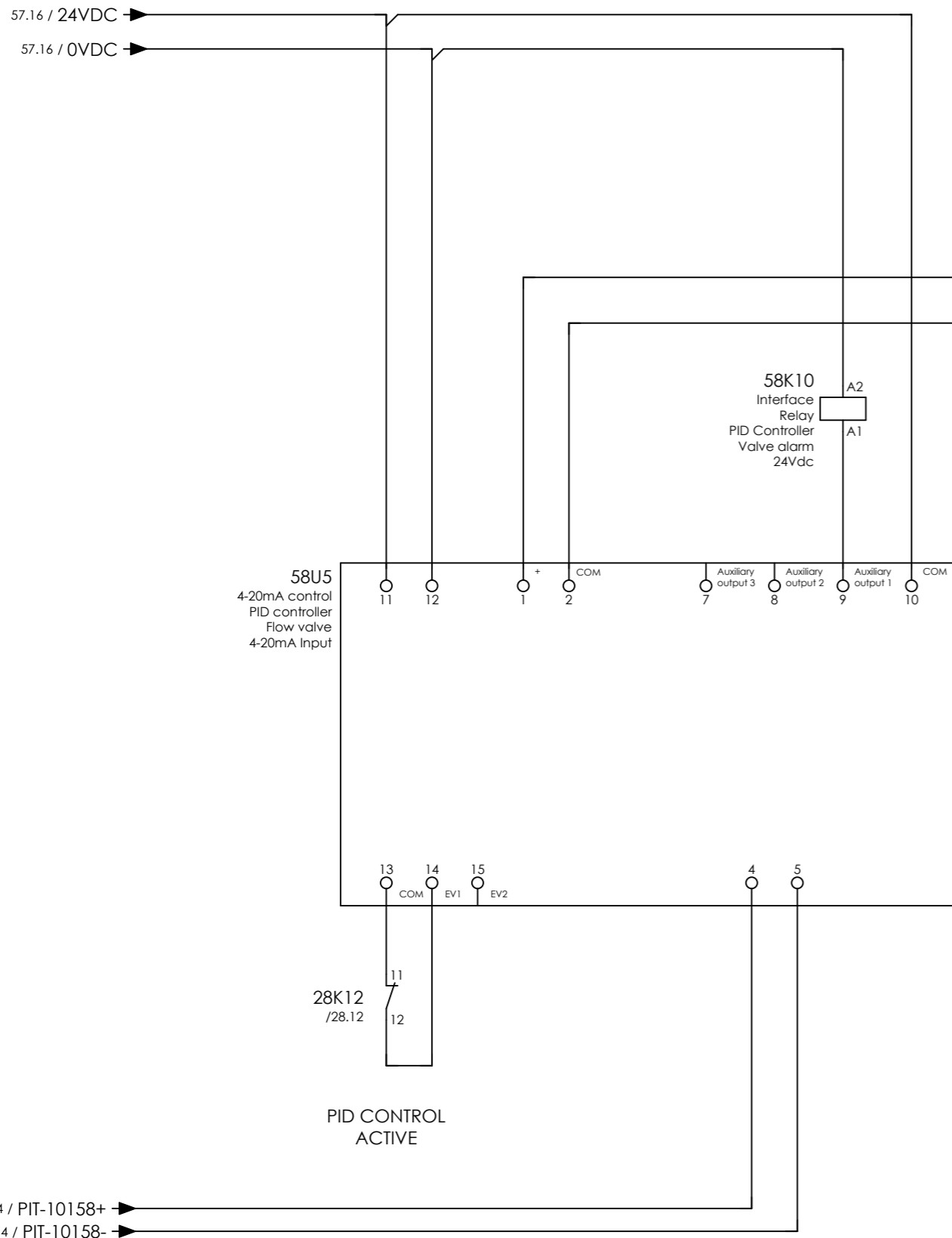


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EQUIPMENT LOCATION		Iran, Onshore		ADAPTED TO P&ID REVISION		04		LAST MODIFICATION DATE		10-5-2022	
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				CLIENT REF.		Bushehr MEG Plant Project		REVISION		03	
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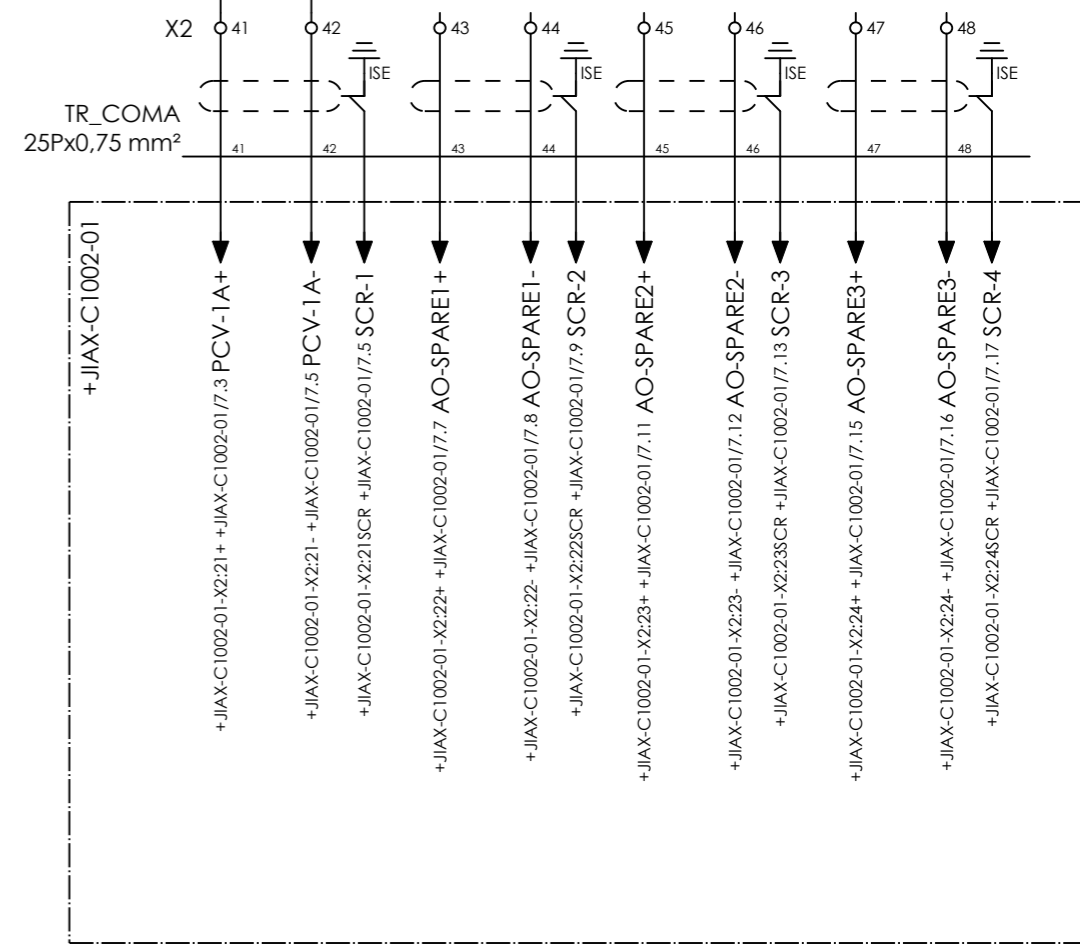
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PID CONTROL CONTROL VALVE ALARM

11 - 14 / 17.4



COMPRESSOR A  
OUTLET  
CONTROL VALVE  
PV-10151

SPARE      SPARE      SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT PID CONTROL FLOW VALVE	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	03	
TOTAL PAGE AMOUNT	70	



# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X1 SOLENOIDS										Cable name							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper
+JNDX-C1002-01-X1	1+	1+		-28K4	14	1+													
+JNDX-C1002-01-X1	1-	1-	•	-24K6	24	1-	•												
+JNDX-C1002-01-X1	2+	2+	•	-28K6	14	2+	•												
+JNDX-C1002-01-X1	2-	2-	•			2-	•												
+JNDX-C1002-01-X1	3+	3+	•	-28K8	14	3+	•												
+JNDX-C1002-01-X1	3-	3-	•			3-	•												
+JNDX-C1002-01-X1	4+	4+	•	-28K10	14	4+	•												
+JNDX-C1002-01-X1	4-	4-	•			4-	•												
+JNDX-C1002-01-X1	5+	5+				5+													
+JNDX-C1002-01-X1	5-	5-				5-													



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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	Terminal diagram =20-C-1002+UCP-C1002-01-X1
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	04
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
		CLIENT REF.	Bushehr MEG Plant Project
		AIRPACK REF.	17811-05A

DRAWN BY	MaGo	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	03	
TOTAL PAGE AMOUNT	72	



# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X2 ANALOGUE INPUTS			Cable name																															
Cable name					Connection point		Target designation		Terminal		Jumper		Target designation		Connection point																					
-TR_COMA					25Px0,75 mm²		46		47		48																									
							+JIAX-C1002-01-X2		23-		46		.																							
							+JIAX-C1002-01-X2		24+		47		.																							
							+JIAX-C1002-01-X2		24-		48		.																							



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X2	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	74

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+ UCP-C1002-01
CURRENT PAGE



# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X5 CONNECTION PUSHBUTTONS / LAMPS										Cable name	
-LCP_COMA	15Px1 mm <sup>2</sup>	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	-LCP_COMA	15Px1 mm <sup>2</sup>
		+LP-C1002-01-X5	1	1	•	-9V4	x1	1	•				
		-6M9	5	2	•	+LP-C1002-01-X5	2	2	•				
		-7M9	5										
		+LP-C1002-01-X5	3	3	•								
		-6M9	6	4	•	+LP-C1002-01-X5	4						
		-7M9	6										
		+LP-C1002-01-X5	5	5	•								
		-6M9	7	6	•	+LP-C1002-01-X5	6						
		-7M9	7										
		+LP-C1002-01-X5	7	7	•								
		-6M9	8	8	•	+LP-C1002-01-X5	8						
		-7M9	8										
		+LP-C1002-01-X5	9	9	•								
		-6M9	9	10	•	+LP-C1002-01-X5	10						
		-7M9	9										
		+LP-C1002-01-X5	11	11	•								
		-6M9	10	12	•	+LP-C1002-01-X5	12						
		-7M9	10										
		+LP-C1002-01-X5	13	13	•								
		-6M9	12	14	•	+LP-C1002-01-X5	14						
		-7M9	12										
				15	•	-56K4	11						
		-6M9	13	16	•								
		-7M9	13										
		+LP-C1002-01-X5	15	17	•	-26V4	x2						
						-49V4	x2						
		+LP-C1002-01-X5	16	18	•	-9V4.1	x2						
		-26V6	x2	19	•	+LP-C1002-01-X5	17						
		-49V6	x2										
		+LP-C1002-01-X5	18	20	•								
		+LP-C1002-01-X5	19	21	•	-26V8	x2						
						-49V8	x2						
		+LP-C1002-01-X5	20	22	•								
		+LP-C1002-01-X5	21	23	•	-26V10	x2						
						-49V10	x2						
		+LP-C1002-01-X5	22	24	•								
		+LP-C1002-01-X5	23	25	•	-26V12	x2						
						-49V12	x2						
		+LP-C1002-01-X5	24	26	•								
		+LP-C1002-01-X5	25	27	•	-27V4	x2						



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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	Terminal diagram =20-C-1002+UCP-C1002-01-X5
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	04
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
		CLIENT REF.	Bushehr MEG Plant Project
		AIRPACK REF.	17811-05A

DRAWN BY	MaGo	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	03	
TOTAL PAGE AMOUNT	76	



# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X8 SIGNALS TO / FROM DISTRIBUTION BOARD										Cable name	
Terminal	Connection point	Target designation	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	Target designation	Connection point
1	1	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	1	1	.	-30K4	11				
2	2	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	2	2	.	-3ESDR8	14				
3	3	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	3	3	.	-30K6	11				
4	4	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	4	4	.	-3ESDR8	24				
5	5	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	5	5	.						
6	6	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	6	6	.						
7	7	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	7	7	.						
8	8	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	8	8	.						
	11	-57K12	.	+PD-C-1002-01-X8	11	9	.	+PD-C-1002-01-X8	9				
10	10	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	10	10	.	-56K4	A1				
	11		.	+PD-C-1002-01-X8	11	11	.	+PD-C-1002-01-X8	11				
12	13	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	13	12	.	-56K6	A1				
14	17	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	17	13	.	+PD-C-1002-01-X8	15				
	15		.	+PD-C-1002-01-X8	15	14	.	-56K8	A1				
16	14	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	14	15	.	+PD-C-1002-01-X8	12				
	17		.	+PD-C-1002-01-X8	17	16	.	-56K10	A1				
18	20	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	20	17	.	+PD-C-1002-01-X8	19				
20	22	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	22	18	.	-56K13	A1				
	1	-X11	.	+PD-C-1002-01-X8	1	19	.	+PD-C-1002-01-X8	21				
22	16	+PD-C-1002-01-X8	.	+PD-C-1002-01-X8	16	20	.	-56K15	A1				
			.	+PD-C-1002-01-X8		21	.	+PD-C-1002-01-X8	18				
			.	+PD-C-1002-01-X8		22	.	-56K17	A1				



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X8  
 ADAPTED TO P&ID REVISION 04  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 AIRPACK DWG NO. 17811-05  
 REVISION 03  
 TOTAL PAGE AMOUNT 78

= 20-C-1002  
 + UCP-C1002-01  
 CURRENT PAGE



# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X10 SIGNALS TO ESD									Cable name	
Terminal	Connection point	Terminal	Connection point	Jumper	Target designation	Terminal	Connection point	Target designation	Terminal	Connection point	Terminal	Connection point
1		1		.	-30K10	1						
2		2		.	-30K10	2						
3		3		.		3						
4		4		.		4						
5		5			-57K8	5						
6		6			-57K8	6						
7		7			-57K10	7						
8		8			-57K10	8						
9		9	PE			9	PE					



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore

SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X10  
 ADAPTED TO P&ID REVISION 04  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 LAST MODIFICATION DATE 10-5-2022  
 AIRPACK DWG NO. 17811-05  
 REVISION 03  
 TOTAL PAGE AMOUNT 80

= 20-C-1002  
 + UCP-C1002-01  
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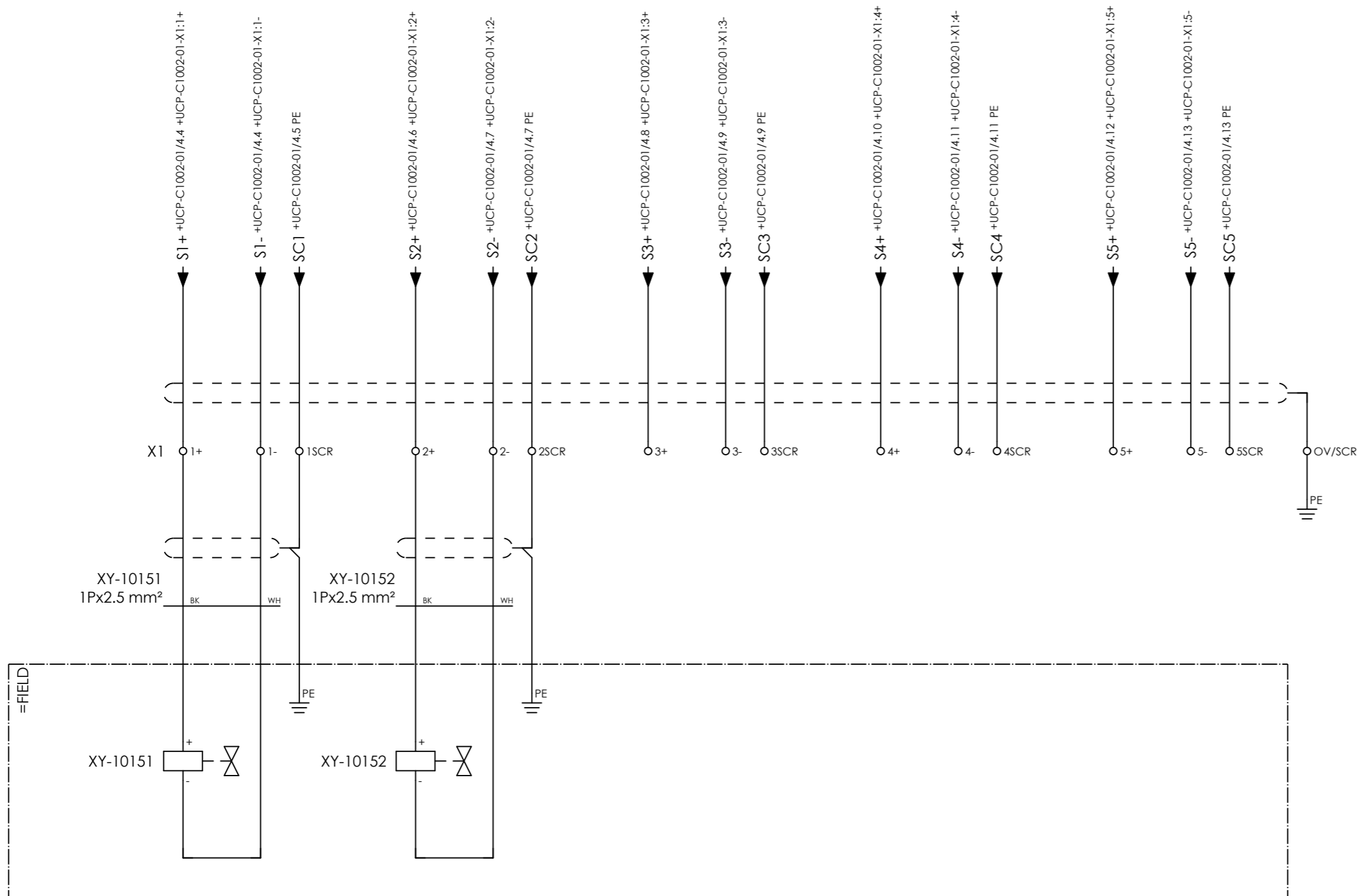
TERMINAL STRIP DEFINITION

JUNCTION BOX  
JNDX-C1002-01

X1 = CONNECTION SOLENOIDS



CLIENT DWG NO.		SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002			CHECKED BY	RBE	+ JNDX-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION		LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION		
		AIRPACK REF.	17811-05A	PAGE NUMBER	94	



COMPRESSOR A  
INLET  
SOLENOID VALVE  
XY-10151

COMPRESSOR A  
COOLING WATER INLET  
SOLENOID VALVE  
XY-10152

SPARE

SPARE

SPARE

# Terminal diagram

Cable name		Strip =20-C-1002+JNDX-C1002-01-X1 CONNECTION SOLENOIDS						Cable name	
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
=FIELD-XY-10151	+	1+	.	+UCP-C1002-01-X1	1+	1+	.	+UCP-C1002-01-X1	1+
=FIELD-XY-10151	-	1-	.	+UCP-C1002-01-X1	-	1-	.	+UCP-C1002-01-X1	1-
	PE	1SCR	.		PE	1SCR	.		PE
=FIELD-XY-10152	+	2+	.	+UCP-C1002-01-X1	+	2+	.	+UCP-C1002-01-X1	2+
=FIELD-XY-10152	-	2-	.	+UCP-C1002-01-X1	-	2-	.	+UCP-C1002-01-X1	2-
	PE	2SCR	.		PE	2SCR	.		PE
		3+	.	+UCP-C1002-01-X1		3+	.	+UCP-C1002-01-X1	3+
		3-	.	+UCP-C1002-01-X1		3-	.	+UCP-C1002-01-X1	3-
		3SCR	.			3SCR	.		PE
		4+	.	+UCP-C1002-01-X1		4+	.	+UCP-C1002-01-X1	4+
		4-	.	+UCP-C1002-01-X1		4-	.	+UCP-C1002-01-X1	4-
		4SCR	.			4SCR	.		PE
		5+	.	+UCP-C1002-01-X1		5+	.	+UCP-C1002-01-X1	5+
		5-	.	+UCP-C1002-01-X1		5-	.	+UCP-C1002-01-X1	5-
		5SCR	.			5SCR	.		PE
	PE	OV/SCR	.		PE	OV/SCR	.		



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+JNDX-C1002-01-X1  
 ADAPTED TO P&ID REVISION 04  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

DRAWN BY MaGo  
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 LAST MODIFICATION DATE 10-5-2022  
 AIRPACK DWG NO. 17811-05  
 REVISION 03  
 TOTAL PAGE AMOUNT 84

= 20-C-1002  
 + JNDX-C1002-01  
 CURRENT PAGE

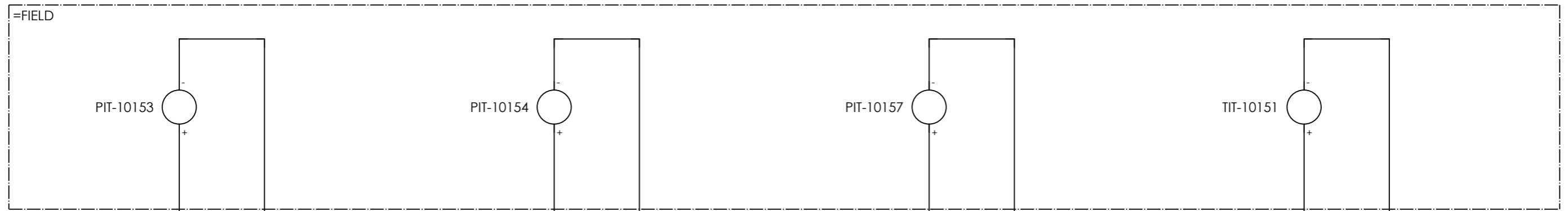
# JUNCTION BOX JIAX-C1002-01

## TERMINAL STRIP DEFINITION

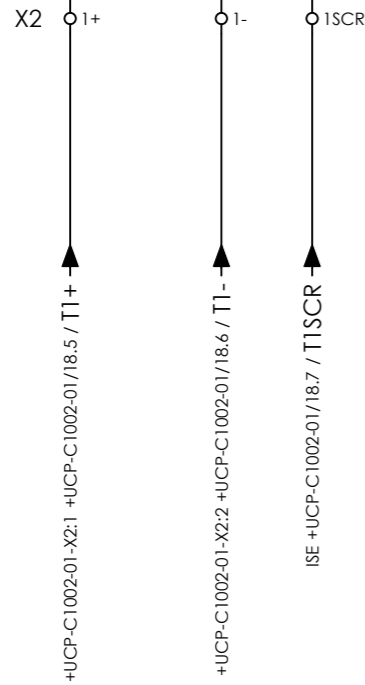
X2 = CONNECTION TRANSMITTERS AND CONTROL VALVE



CLIENT DWG NO.		SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION		CHECKED BY	RBE	+ JIAX-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	10-5-2022	CURRENT PAGE
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		AIRPACK REF.	17811-05A	REVISION		
				PAGE NUMBER	94	

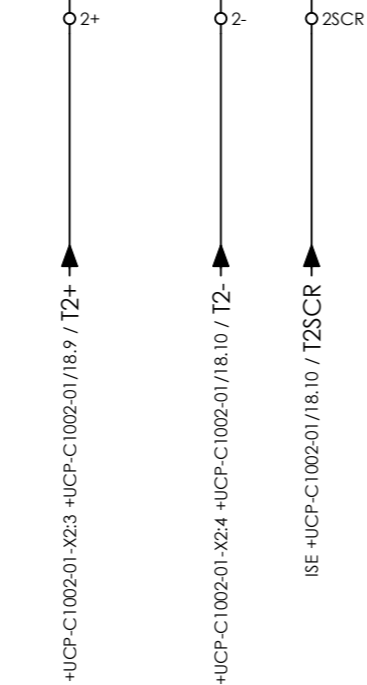


PIT-10153  
1Px1.5 mm<sup>2</sup>



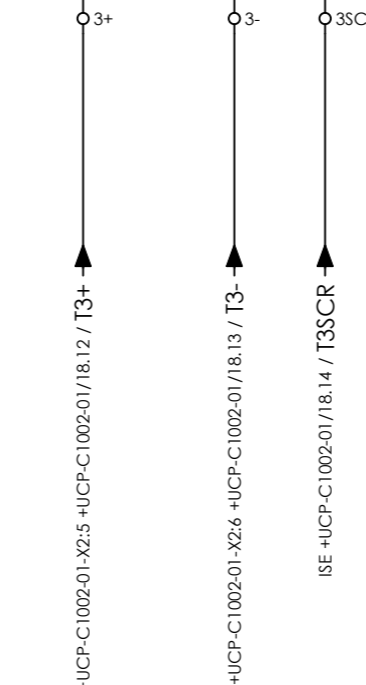
COMPRESSOR A  
INLET PRESSURE  
PIT-10153

PIT-10154  
1Px1.5 mm<sup>2</sup>



COMPRESSOR A  
OIL SYSTEM PRESSURE  
PIT-10154

PIT-10157  
1Px1.5 mm<sup>2</sup>



COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER PRESSURE  
PIT-10157

TIT-10151  
1Px1.5 mm<sup>2</sup>



COMPRESSOR A  
INLET TEMPERATURE  
TIT-10151

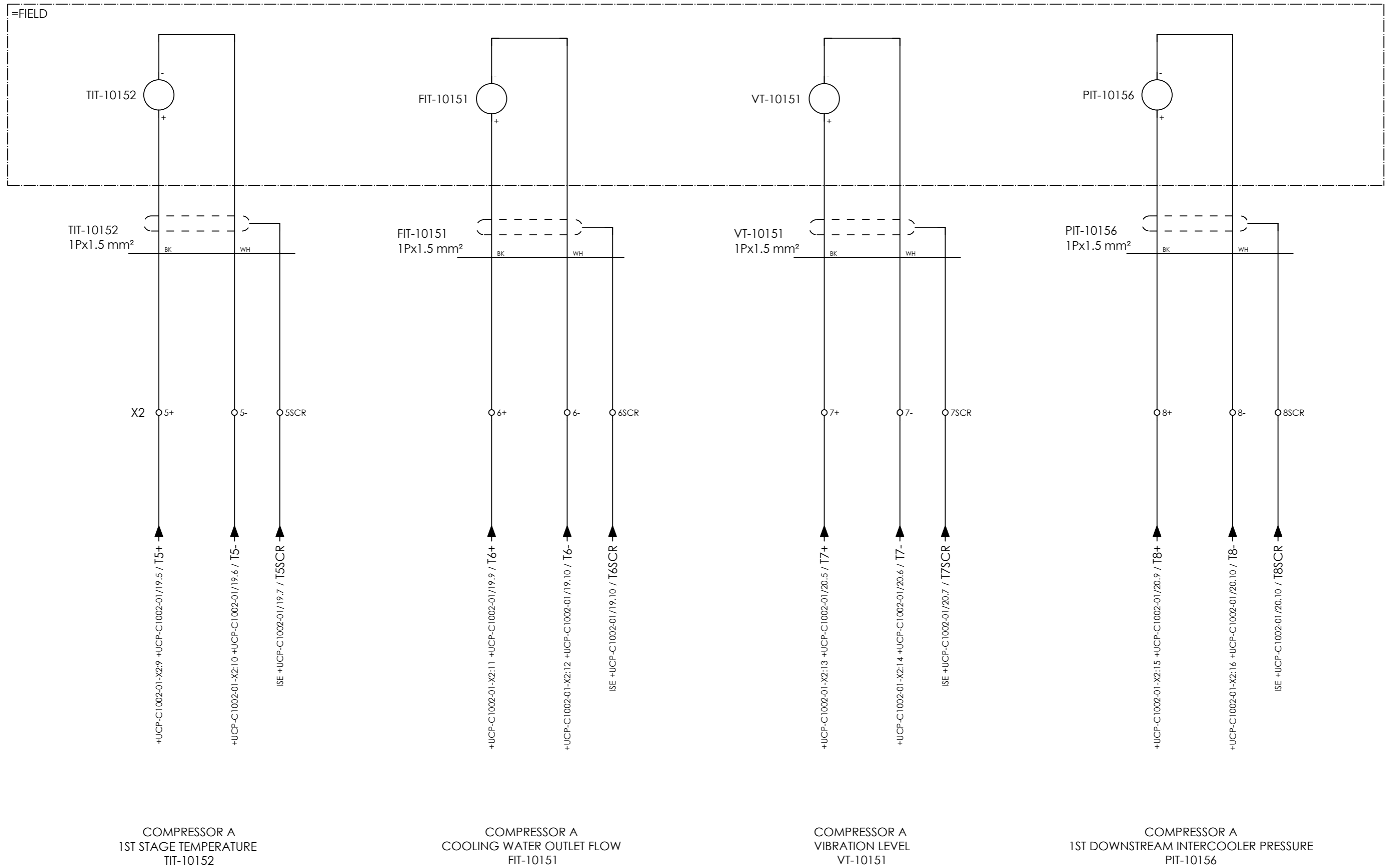


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	95

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+ JIAX-C1002-01
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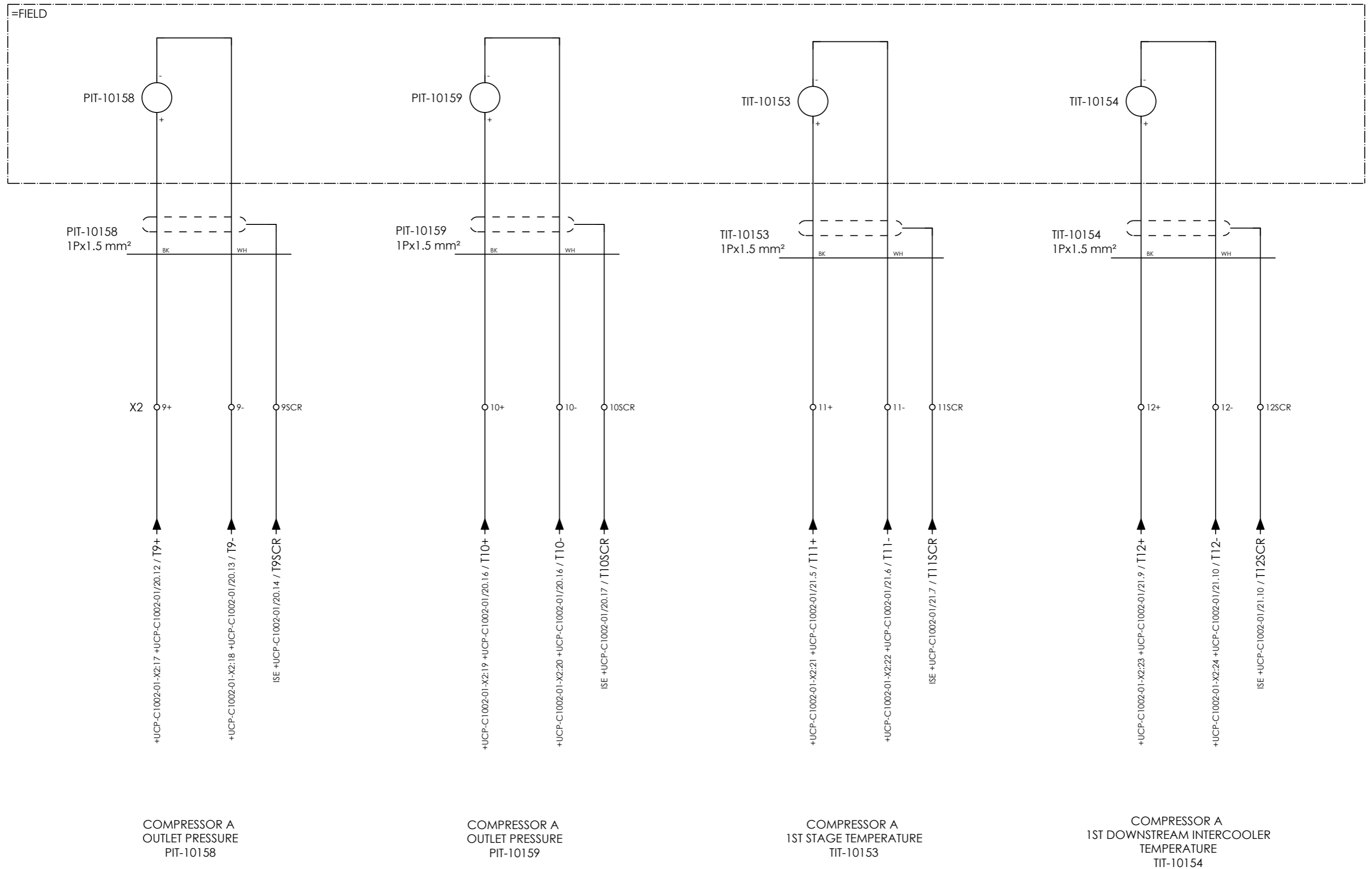


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	95

= 20-C-1002
+ JIAX-C1002-01
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COMPRESSOR A  
OUTLET PRESSURE  
PIT-10158

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10159

COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10153

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10154

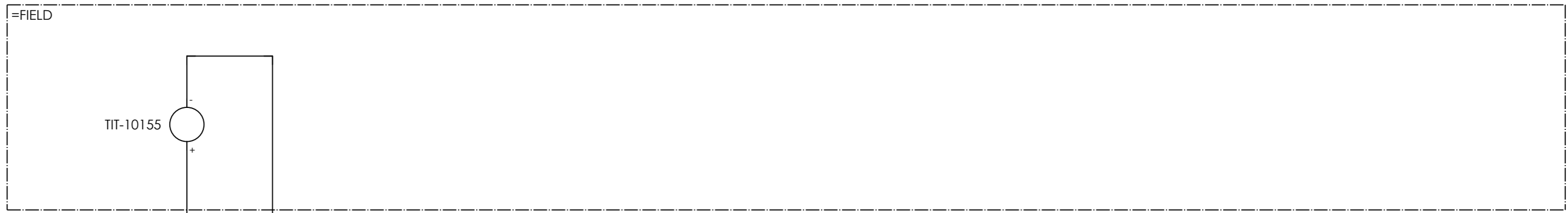


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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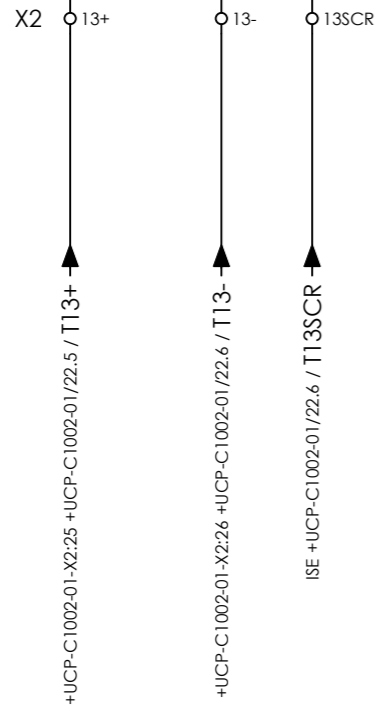
SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
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REVISION	
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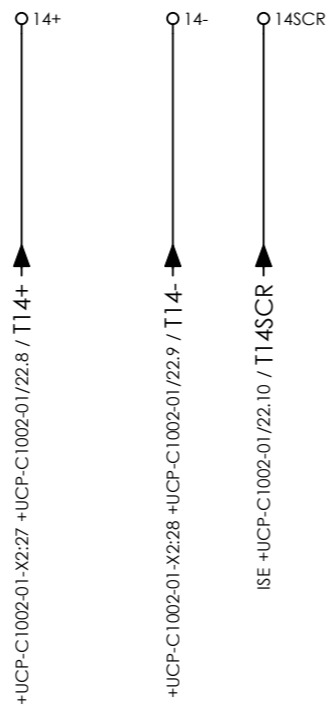
= 20-C-1002
+ JIAX-C1002-01
CURRENT PAGE



TIT-10155  
1Px1.5 mm<sup>2</sup>  
BK WH



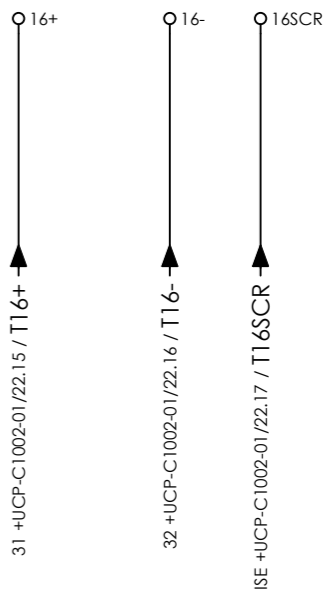
COMPRESSOR A  
2ND UPSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10155



SPARE



SPARE



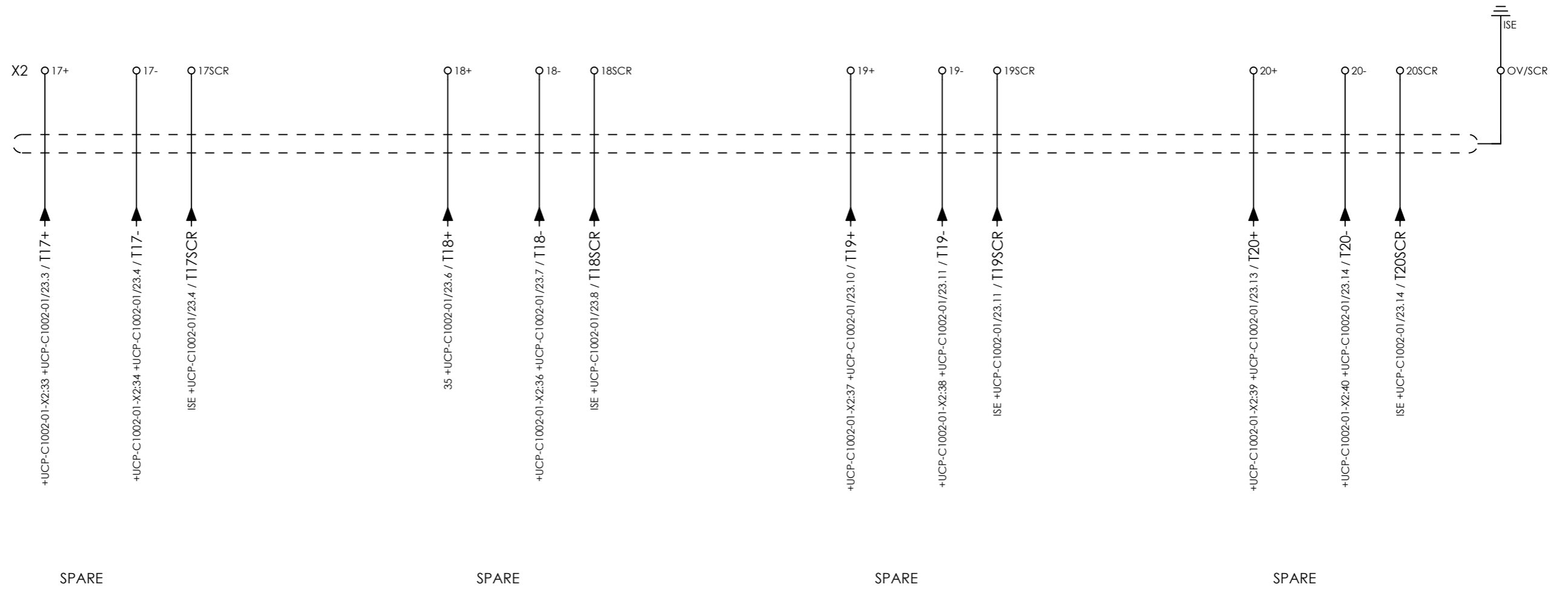
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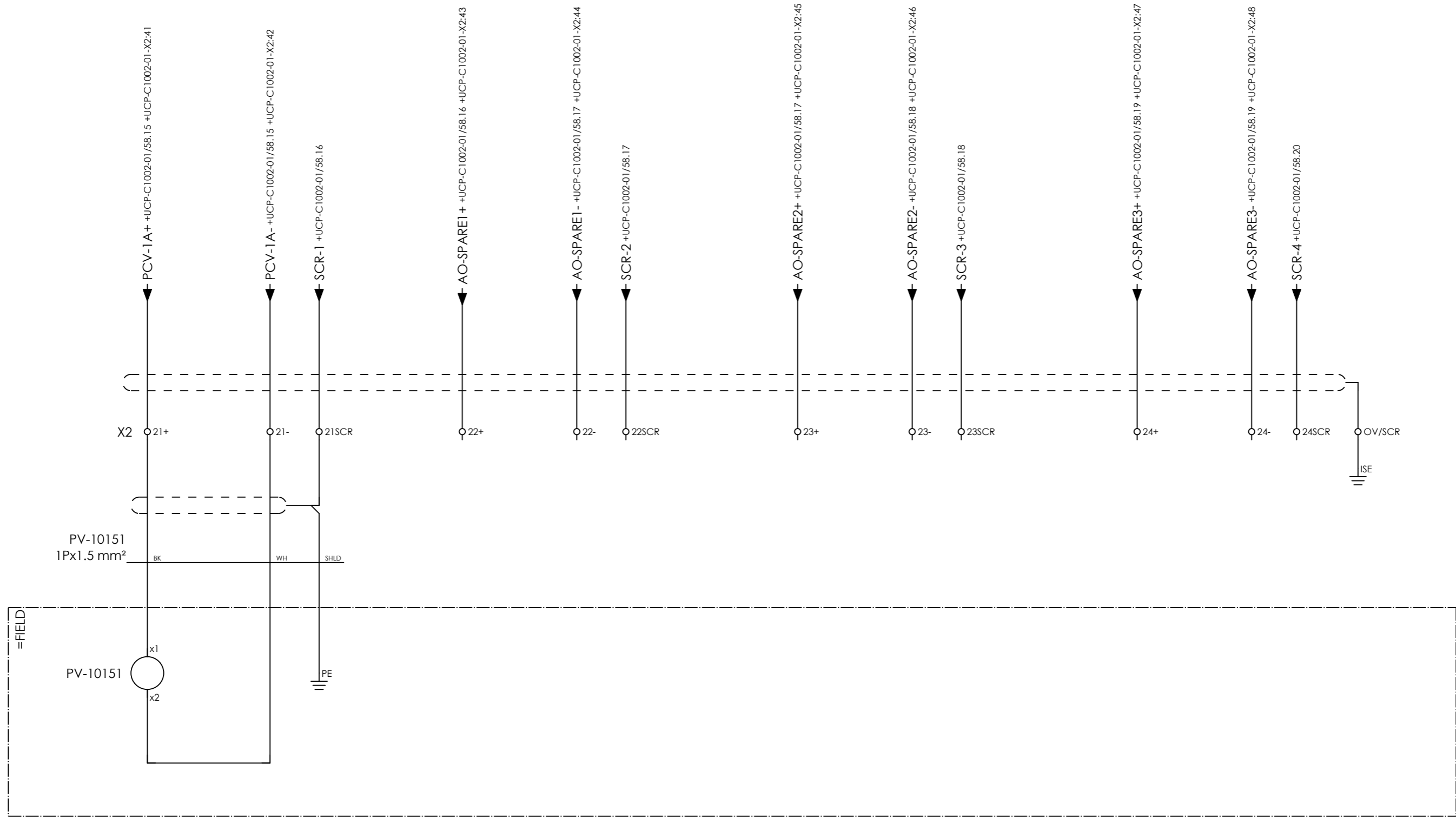


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CLIENT DWG NO.		SUBJECT	CONNECTION TRANSMITTERS
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
		CLIENT REF.	Bushehr MEG Plant Project
		AIRPACK REF.	17811-05A

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AIRPACK DWG NO.		
REVISION		
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COMPRESSOR A  
OUTLET  
CONTROL VALVE  
PV-10151

SPARE

SPARE

SPARE



CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION CONTROL VALVE	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	95

= 20-C-1002
+ JIAX-C1002-01
CURRENT PAGE









TERMINAL STRIP DEFINITION

LOCAL CONTROL PANEL  
LP-C1002-01

X5 = CONNECTION PUSHBUTTONS AND LAMPS  
X9 = CONNECTION ESD BUTTON

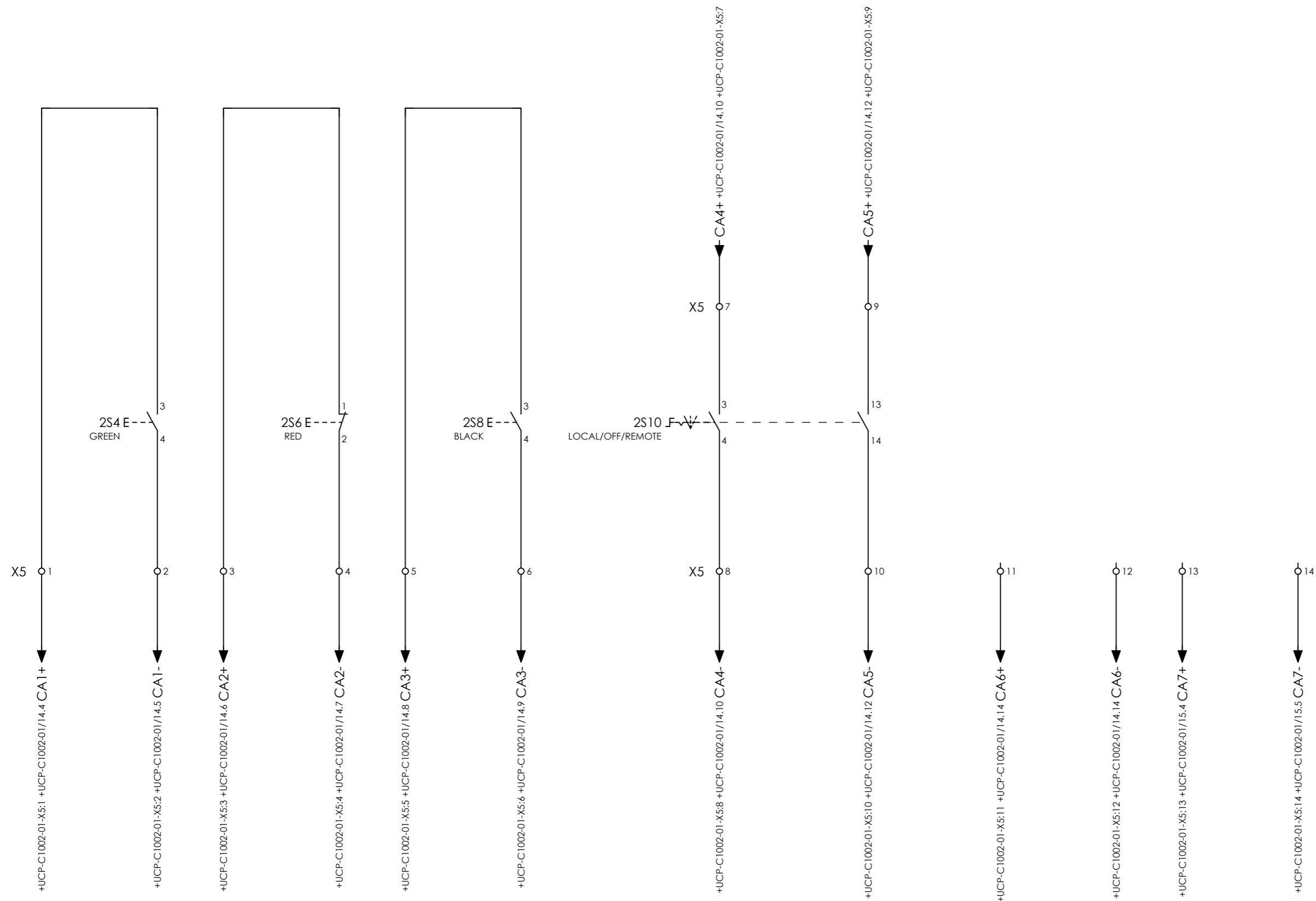


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	94

= 20-C-1002
+ LP-C1002-01
CURRENT PAGE



COMPRESSOR A  
START  
PB-10151

COMPRESSOR A  
STOP  
PB-10152

COMPRESSOR A  
LAMPTEST  
PB-10154

COMPRESSOR A  
LOCAL  
HS-10151

COMPRESSOR A  
REMOTE  
HS-10151

SPARE

SPARE



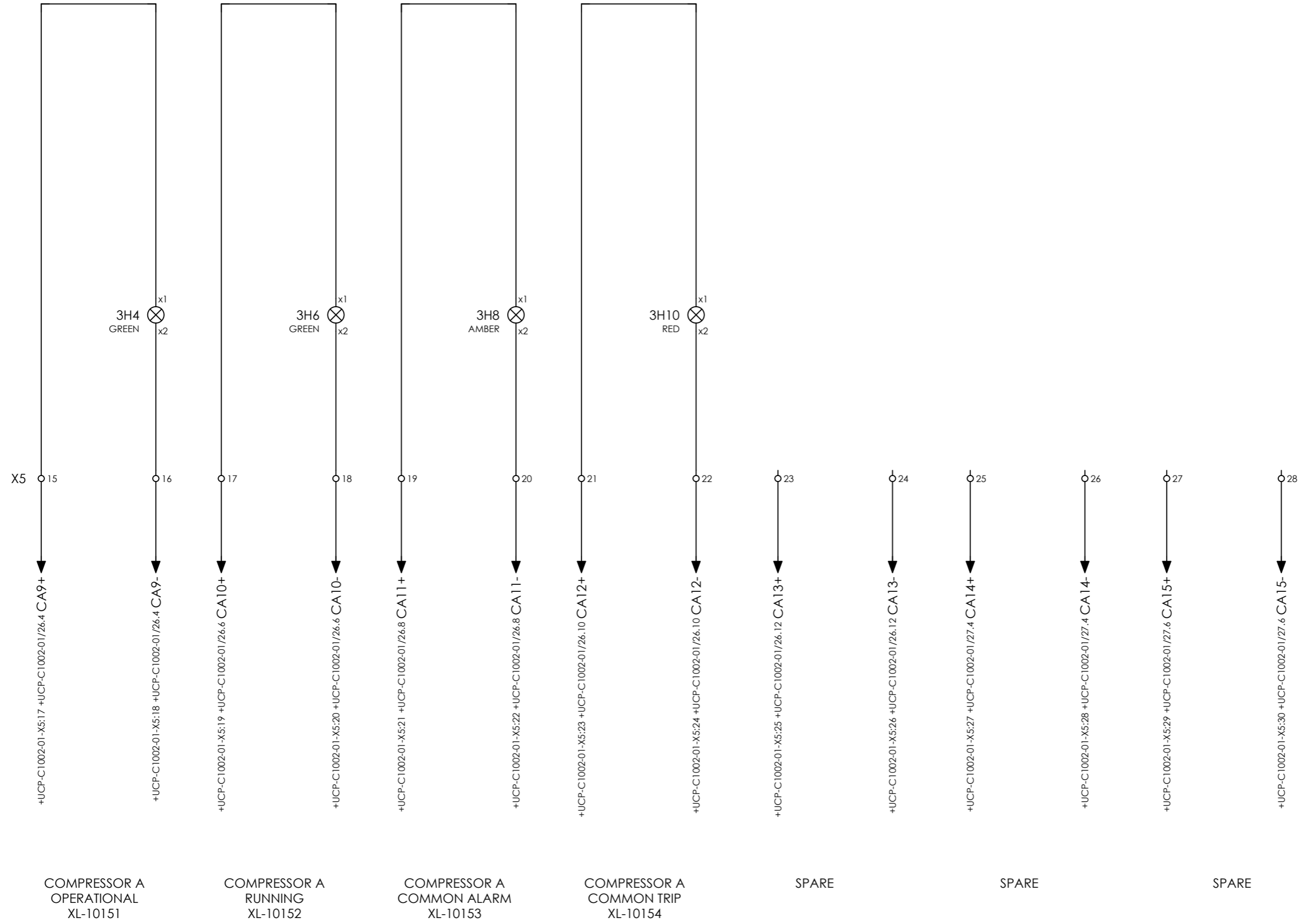
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT CONNECTION PUSHBUTTONS	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	97

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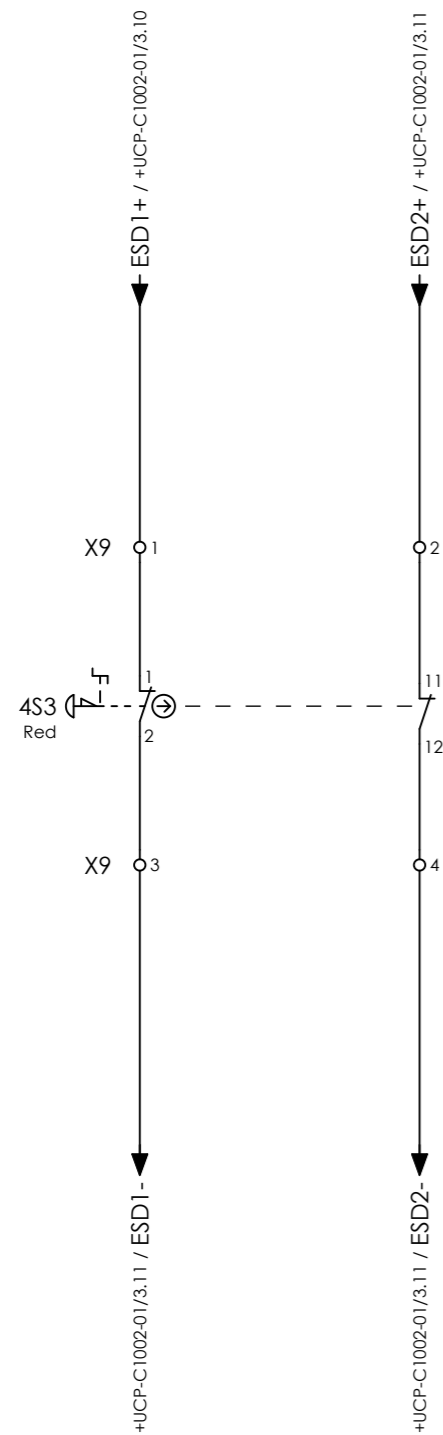


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION LAMPS	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	98

= 20-C-1002
+ LP-C1002-01
CURRENT PAGE



COMPRESSOR A  
ESD BUTTON  
PB-10153



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION ESD BUTTON	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	10-5-2022
AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	99

= 20-C-1002
+ LP-C1002-01
CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-1002+LP-C1002-01-X5 CONNECTION PUSHBUTTONS AND LAMPS							Cable name	
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	
+UCP-C1002-01-X5	1	1	.	-2S4	3					
+UCP-C1002-01-X5	2	2	.	-2S4	4					
+UCP-C1002-01-X5	3	3	.	-2S6	1					
+UCP-C1002-01-X5	4	4	.	-2S6	2					
+UCP-C1002-01-X5	5	5	.	-2S8	3					
+UCP-C1002-01-X5	6	6	.	-2S8	4					
-2S10	3	7	.	+UCP-C1002-01-X5	7				7	
+UCP-C1002-01-X5	8	8	.	-2S10	4					
-2S10	13	9	.	+UCP-C1002-01-X5	9				9	
+UCP-C1002-01-X5	10	10	.	-2S10	14					
+UCP-C1002-01-X5	11	11	.							
+UCP-C1002-01-X5	12	12	.							
+UCP-C1002-01-X5	13	13	.							
+UCP-C1002-01-X5	14	14	.							
+UCP-C1002-01-X5	17	15	.	-3H4	x1					
+UCP-C1002-01-X5	18	16	.	-3H4	x2					
+UCP-C1002-01-X5	19	17	.	-3H6	x1					
+UCP-C1002-01-X5	20	18	.	-3H6	x2					
+UCP-C1002-01-X5	21	19	.	-3H8	x1					
+UCP-C1002-01-X5	22	20	.	-3H8	x2					
+UCP-C1002-01-X5	23	21	.	-3H10	x1					
+UCP-C1002-01-X5	24	22	.	-3H10	x2					
+UCP-C1002-01-X5	25	23	.							
+UCP-C1002-01-X5	26	24	.							
+UCP-C1002-01-X5	27	25	.							
+UCP-C1002-01-X5	28	26	.							
+UCP-C1002-01-X5	29	27	.							
+UCP-C1002-01-X5	30	28	.							



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 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+LP-C1002-01-X5  
 ADAPTED TO P&ID REVISION 04  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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# POWER DISTRIBUTION BOARD PD-C-1002-01

## TERMINAL STRIP DEFINITION

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

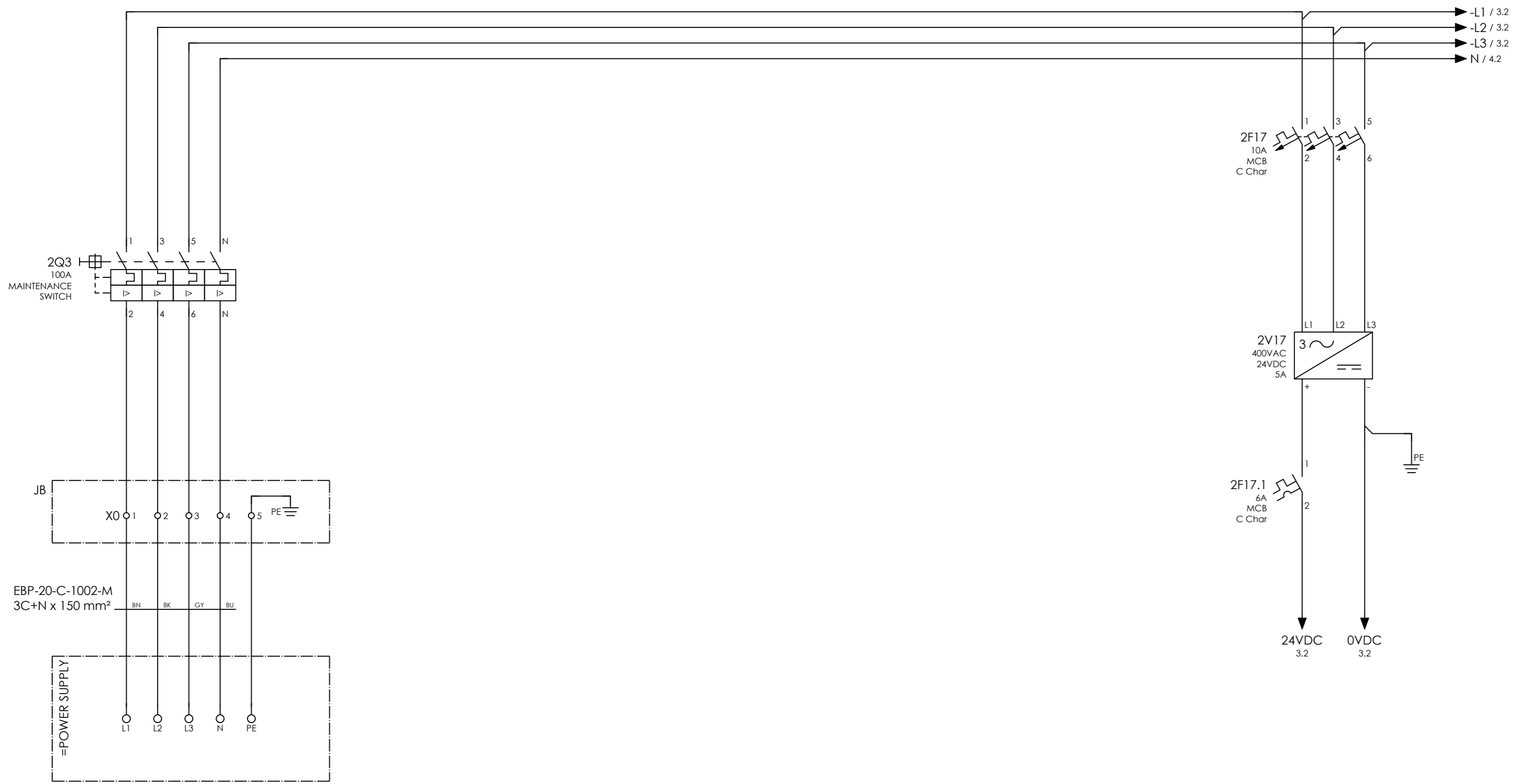


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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POWER SUPPLY  
FROM CUSTOMER  
400VAC/50HZ/3PH/N/PE

From: SWB3B-01 (0.4KV)  
Cable Type and Size: CU/XLPE/SWA/PVC3.5\*150mm2  
Gland: EX-IP65, C2/M63

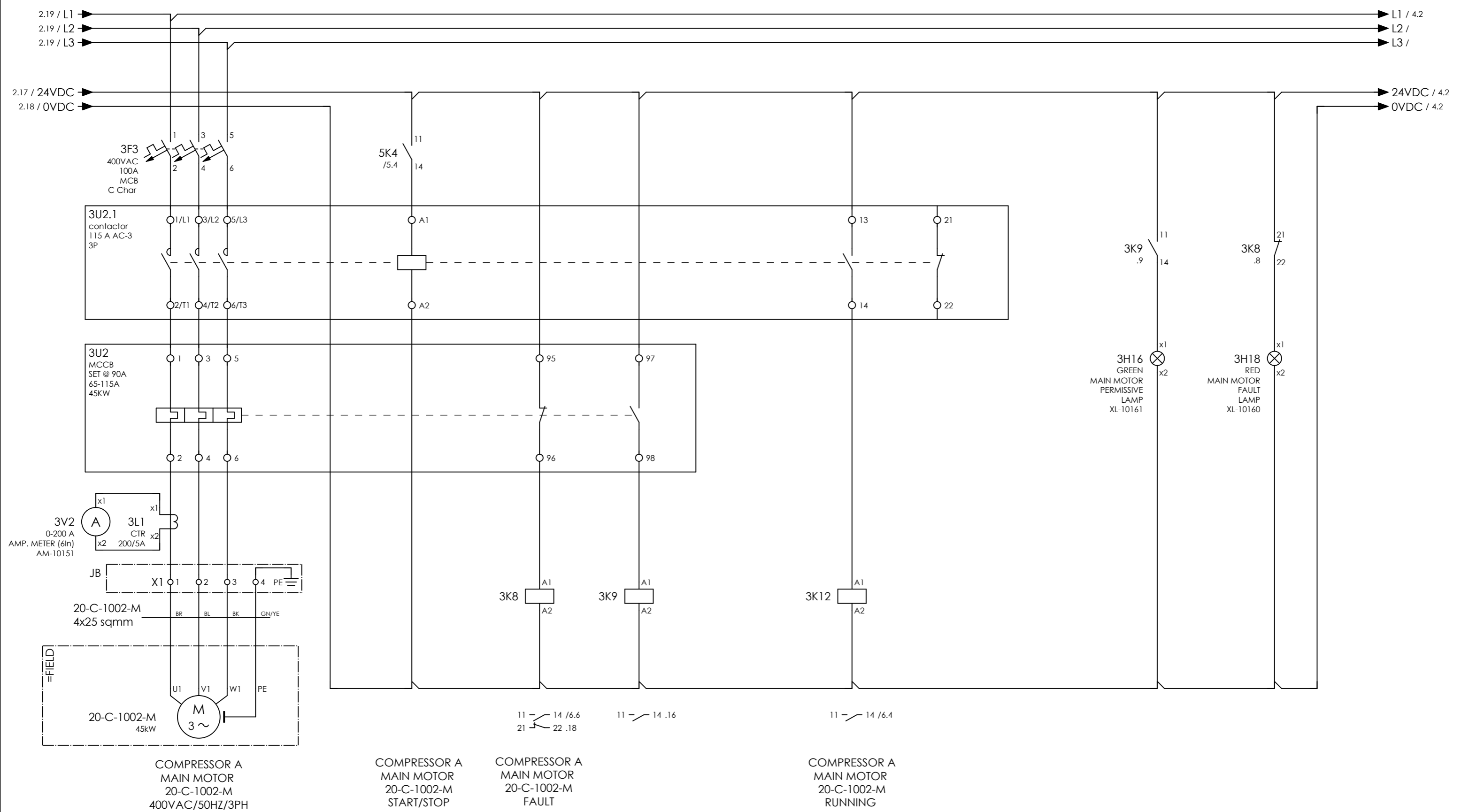


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT POWER SUPPLY	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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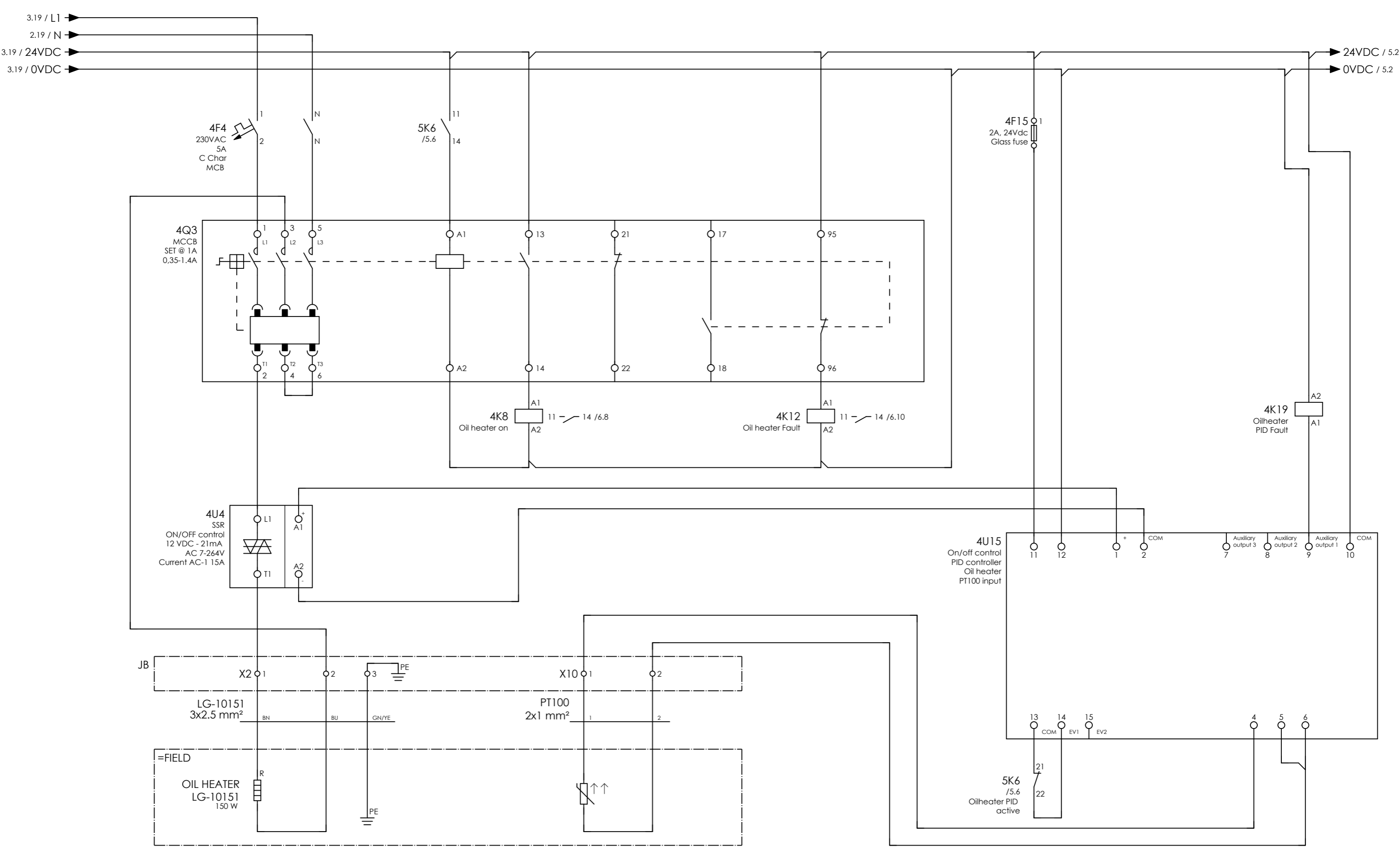


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT MAIN MOTOR	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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OIL HEATER LG-10151  
230VAC/50HZ/1PH

11 - 14 /6.13

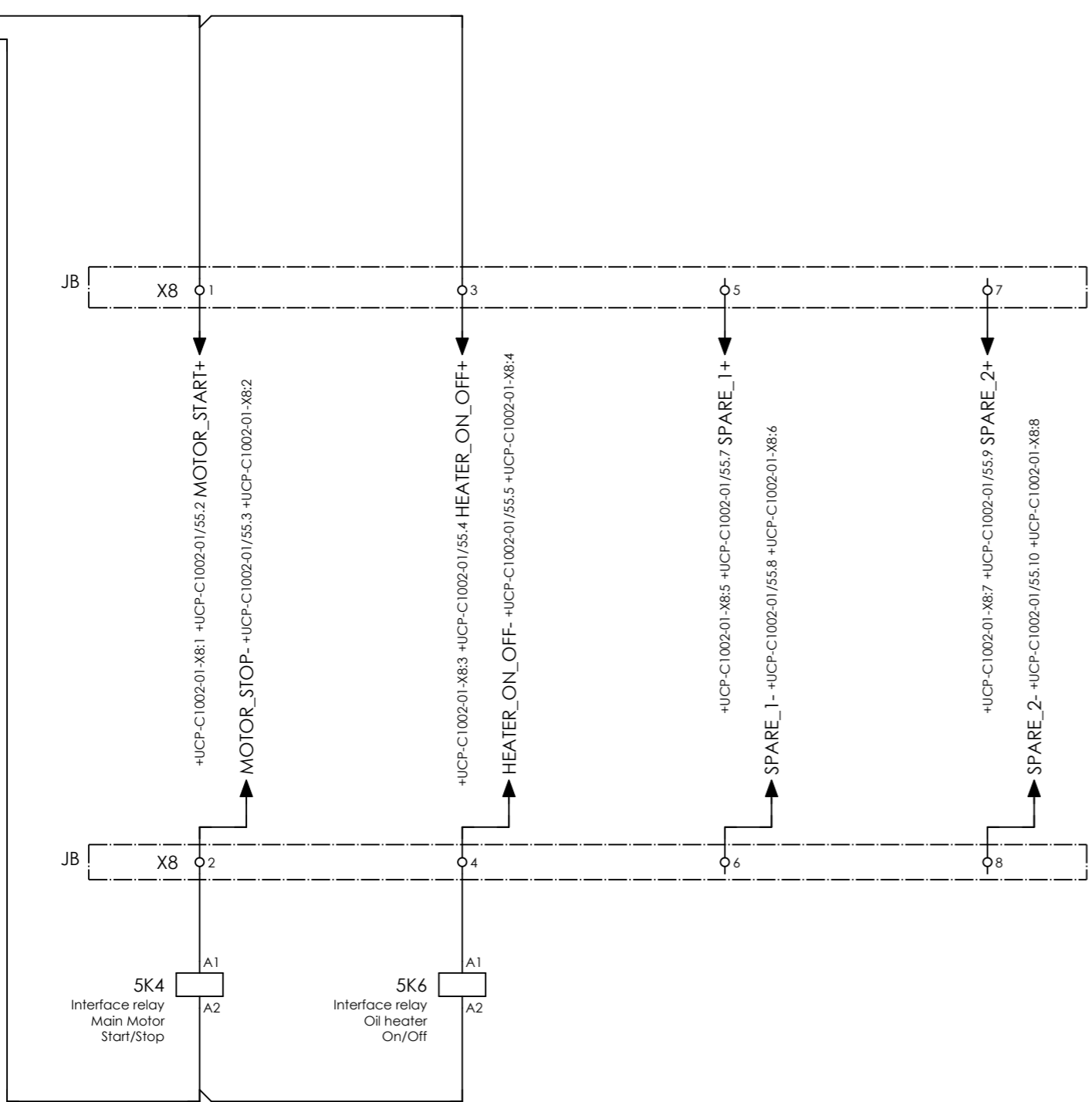


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT OIL HEATER	
ADAPTED TO P&ID REVISION	04
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CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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REVISION	03	
TOTAL PAGE AMOUNT	105	

4.19 / 24VDC  
4.19 / -0VDC



11 - 14 /3.6

11 - 14 /4.7  
21 - 22 /4.15

COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
START/STOP

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF

SPARE

SPARE

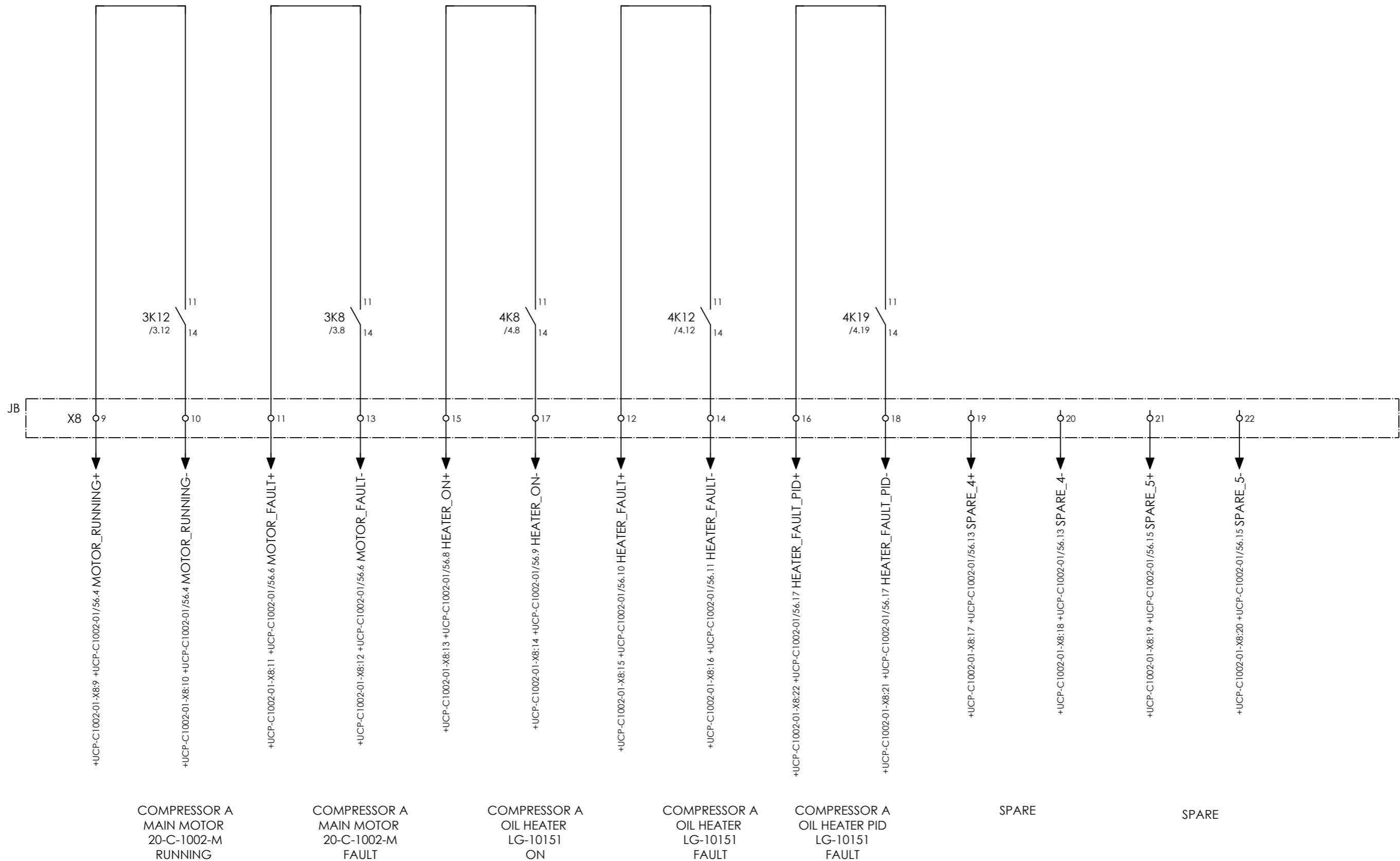


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SIGNALS FROM UCP	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
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AIRPACK REF.	17811-05A

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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT SIGNALS TO UCP	
ADAPTED TO P&ID REVISION	04
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	17811-05
REVISION	03
TOTAL PAGE AMOUNT	107

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# Terminal diagram

Cable name		Strip =20-C-1002+PD-C-1002-01-X0 POWER SUPPLY 400VAC FROM CUSTOMER					Cable name	
Terminal	Connection point	Terminal	Connection point	Target designation	Target designation	Terminal	Connection point	
1	-2Q3	1	2	L1	L1	BN	3C+N x 150 mm²	
2	-2Q3	2	4	L2	L2	BK		
3	-2Q3	3	6	L3	L3	GY		
4	-2Q3	4	N	N	N	BU		
5		5		PE	PE			



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
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SUBJECT Terminal diagram =20-C-1002+PD-C-1002-01-X0  
 ADAPTED TO P&ID REVISION 04  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
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# Terminal diagram

Cable name		Strip =20-C-1002+PD-C-1002-01-X8 SIGNALS TO / FROM UCP						Cable name	
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
+UCP-C1002-01-X8	1	1	•	-4U15	10				
+UCP-C1002-01-X8	2	2	•	-5K4	A1				
+UCP-C1002-01-X8	3	3	•						
+UCP-C1002-01-X8	4	4	•	-5K6	A1				
+UCP-C1002-01-X8	5	5	•						
+UCP-C1002-01-X8	6	6	•						
+UCP-C1002-01-X8	7	7	•						
+UCP-C1002-01-X8	8	8	•						
+UCP-C1002-01-X8	9	9	•	-3K12	11				
+UCP-C1002-01-X8	10	10	•	-3K12	14				
+UCP-C1002-01-X8	11	11	•	-3K8	11				
+UCP-C1002-01-X8	15	12	•	-4K12	11				
+UCP-C1002-01-X8	12	13	•	-3K8	14				
+UCP-C1002-01-X8	16	14	•	-4K12	14				
+UCP-C1002-01-X8	13	15	•	-4K8	11				
+UCP-C1002-01-X8	22	16	•	-4K19	11				
+UCP-C1002-01-X8	14	17	•	-4K8	14				
+UCP-C1002-01-X8	21	18	•	-4K19	14				
+UCP-C1002-01-X8	17	19	•						
+UCP-C1002-01-X8	19	21	•						
+UCP-C1002-01-X8	18	20	•						
+UCP-C1002-01-X8	20	22	•						



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
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SUBJECT Terminal diagram =20-C-1002+PD-C-1002-01-X8  
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 CLIENT REF. Bushehr MEG Plant Project  
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