







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: 17811-05A	BU	20	VD	303	IN	DIG	0043	Rev.:	Page
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## UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER

 شرکت سست و سویی توهر ایرانیاان (سهامی خاص)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>
<b>Document Review</b>		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	AN	
Next Status : IFC,IFA,IFI,AFC,AB	AFC	
Responsible Department	MECHANICAL	
Commented Date	7/27/2022	
<b>Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.</b>		

05	14/07/2022	For approval	MG	RB	KP	
04	30/06/2022	For approval	MG	RB	KP	
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.	: 05
Last modifications	:	13-7-2022		
Last modifications by	:	MaGo		



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	=
EQUIPMENT NO.	20-C-1002	Title page / cover sheet		CHECKED BY	RBE	+
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	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	05	
		AIRPACK REF.	17811-05A	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'

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
EQUIPMENT LOCATION	Iran, Onshore

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Project description		CHECKED BY		RBE		+	
ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE		13-7-2022		CURRENT PAGE	
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.		17811-05			
CLIENT REF.	Bushehr MEG Plant Project	REVISION		05			
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/12	Device tag list : =20-C-1002+PD-C-1002-01-3F3 - =20-C-1002+PD-C-1002-01-3V2	12	13-7-2022	mgoeman
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=20-C-1002+UCP-C1002-01/2	POWER SUPPLY	14	13-7-2022	MaGo
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EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
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	AIRPACK REF.	17811-05A	REVISION	05		
	TOTAL PAGE AMOUNT	3				

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

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EQUIPMENT NO.	20-C-1002
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ADAPTED TO P&ID REVISION		CHECKED BY	
05		RBE	
CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	
CLIENT REF.	Bushehr MEG Plant Project	13-7-2022	
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		17811-05	
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# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
+UCP-C1002-01-2TH11		SET@10°C	
+UCP-C1002-01-2TH14		SET@40°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-C1002-01-2TH14	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
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TOTAL PAGE AMOUNT	7

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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-C1002-01-2F15		110VAC 10A C Char	
=20-C-1002+UCP-C1002-01-2F15.1		24VDC 20A MCB	
=20-C-1002+UCP-C1002-01-2F17		110VAC 10A C Char	
=20-C-1002+UCP-C1002-01-2F17.1		24VDC 20A MCB	
=20-C-1002+UCP-C1002-01-5F2		24VDC 6A	
=20-C-1002+UCP-C1002-01-5F11		24VDC 6A	

Device tag	Function text	Tech. car.	Symbol
=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		24Vdc	
=20-C-1002+UCP-C1002-01-28K4	COMPRESSOR A SOLENOID VALVE XY-10151	24Vdc	
=20-C-1002+UCP-C1002-01-28K6	COMPRESSOR A SOLENOID VALVE XY-10152	24Vdc	

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=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 XS-10128-PID	24Vdc	
=20-C-1002+UCP-C1002-01-30K4	COMPRESSOR A MAIN MOTOR 20-M-1002 START/STOP XS-10122-ST/SP	24Vdc	
=20-C-1002+UCP-C1002-01-30K6	COMPRESSOR A OIL HEATER LG-10151 ON/OFF XS-10123-ST/SP	24Vdc	
=20-C-1002+UCP-C1002-01-30K10		24Vdc	
=20-C-1002+UCP-C1002-01-57K12		24Vdc	
=20-C-1002+UCP-C1002-01-2M14			
=20-C-1002+UCP-C1002-01-5M2	PLC POWER SUPPLY		

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-5M3	S7-400 CPU		
=20-C-1002+UCP-C1002-01-5M5	COMMUNICATION MODULE [CP443-1]		
=20-C-1002+UCP-C1002-01-5M11	PLC POWER SUPPLY		
=20-C-1002+UCP-C1002-01-5M12	S7-400 CPU		
=20-C-1002+UCP-C1002-01-5M14	COMMUNICATION MODULE [CP443-1]		
=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-C1002-01-28K8 - =20-C-1002+UCP-C1002-01-6M19	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	9

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CURRENT PAGE

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-7M15	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	
=20-C-1002+UCP-C1002-01-11S3	GREEN		

Device tag	Function text	Tech. car.	Symbol
=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			
=20-C-1002+UCP-C1002-01-9U14			



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-C1002-01-7M15 - =20-C-1002+UCP-C1002-01-9U14	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	10

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CURRENT PAGE

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+UCP-C1002-01-9U15			
=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 20A	
=20-C-1002+UCP-C1002-01-2V17		110VAC 24VDC 20A	
=20-C-1002+LP-C1002-01-3H4	GREEN	XL-10151	
=20-C-1002+LP-C1002-01-3H6	=	XL-10152	

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+LP-C1002-01-3H8	AMBER	XL-10153	
=20-C-1002+LP-C1002-01-3H10	RED	XL-10154	
=20-C-1002+LP-C1002-01-2S4	GREEN	PB-10151	
=20-C-1002+LP-C1002-01-2S6	RED	PB-10152	
=20-C-1002+LP-C1002-01-2S8	BLACK	PB-10154	
=20-C-1002+LP-C1002-01-2S10	LOCAL/OFF/REMOTE	HS-10151	
=20-C-1002+LP-C1002-01-4S3	RED	PB-10153	
=20-C-1002+PD-C-1002-01-2F17		10A MCB C Char	
=20-C-1002+PD-C-1002-01-2F17.1		6A MCB C Char	

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
=20-C-1002+PD-C-1002-01-3F3		400VAC 100A MCCB 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	Interface relay Main Motor Start/Stop	XS-10122-ST/SP	
=20-C-1002+PD-C-1002-01-5K6	Interface relay Oil heater On/Off	XS-10123-ST/SP	
=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		MPCB SET @ 90A 65-115A 45KW	
=20-C-1002+PD-C-1002-01-3U2.1		contactor 115 A AC-3 3P	

Device tag	Function text	Tech. car.	Symbol
=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	

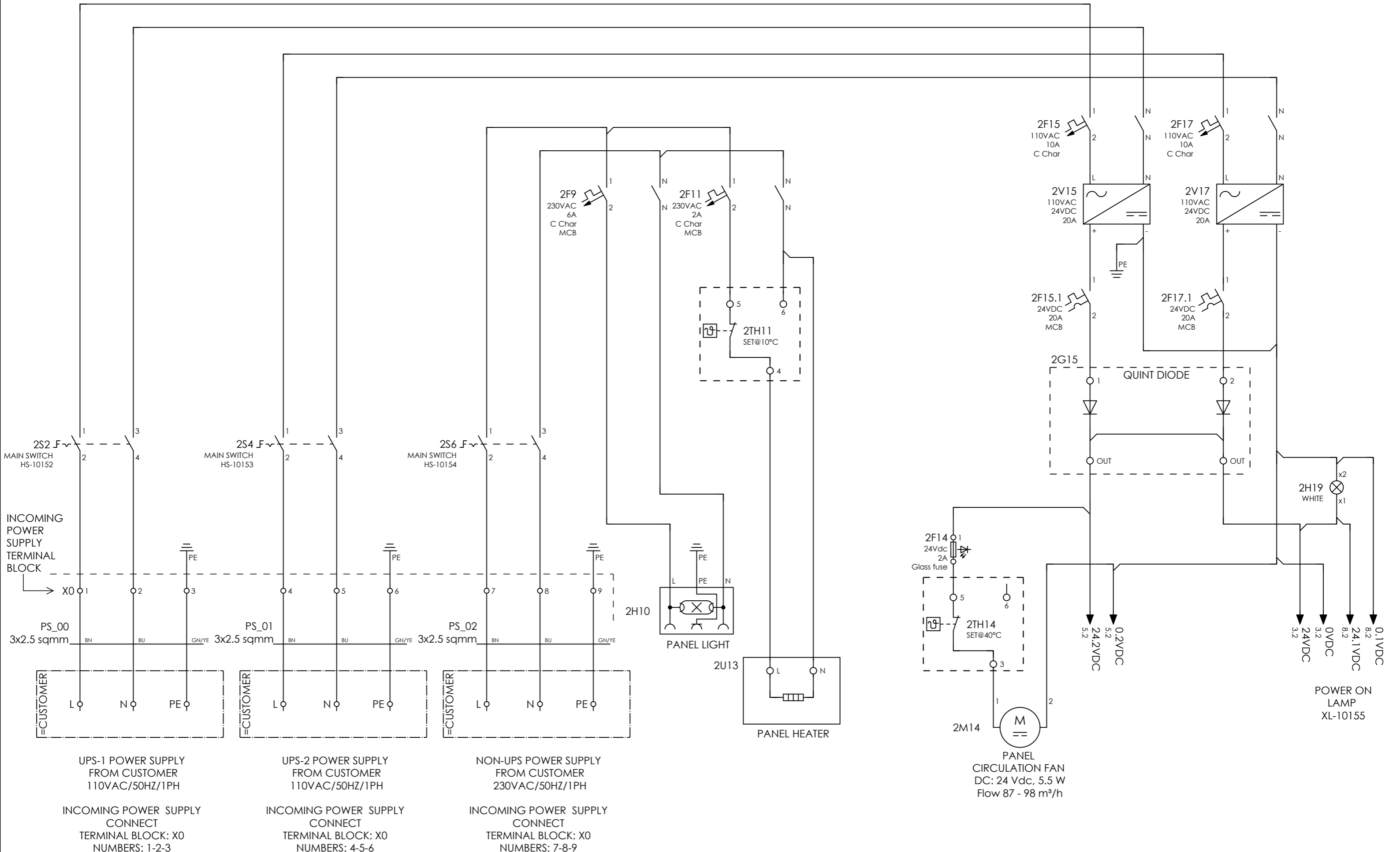
TERMINAL STRIP DEFINITION

UNIT CONTROL PANEL  
UCP-C1002-01

- X0 = POWER SUPPLY 110VAC / 230VAC FROM CUSTOMER
- X1 = SOLENOIDS
- X2 = ANALOGUE INPUTS | OUTPUTS
- 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.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	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	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	13	



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

INCOMING POWER SUPPLY CONNECT  
TERMINAL BLOCK: X0  
NUMBERS: 1-2-3

INCOMING POWER SUPPLY CONNECT  
TERMINAL BLOCK: X0  
NUMBERS: 4-5-6

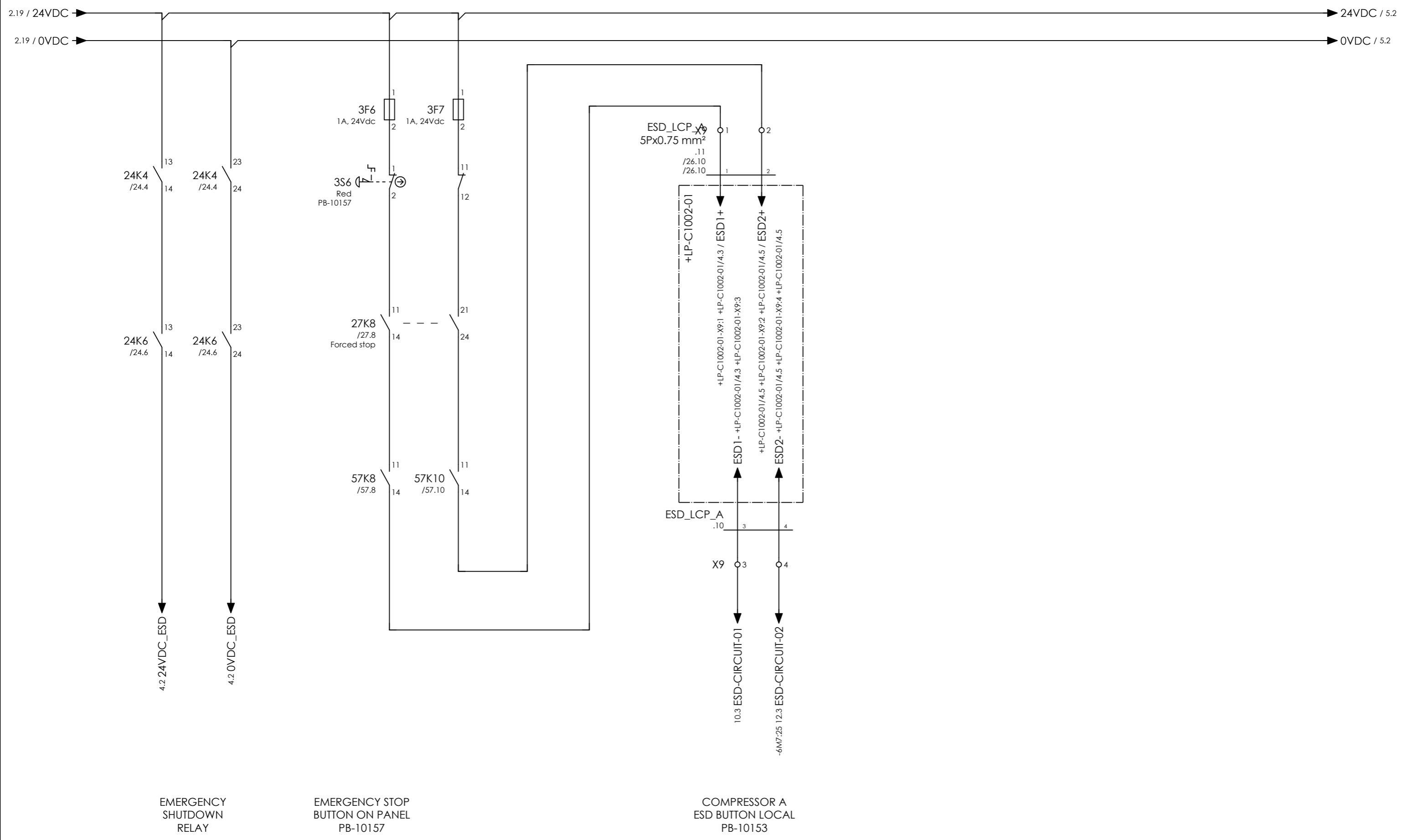
INCOMING POWER SUPPLY CONNECT  
TERMINAL BLOCK: X0  
NUMBERS: 7-8-9



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	05
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	13-7-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	05	
TOTAL PAGE AMOUNT	14	

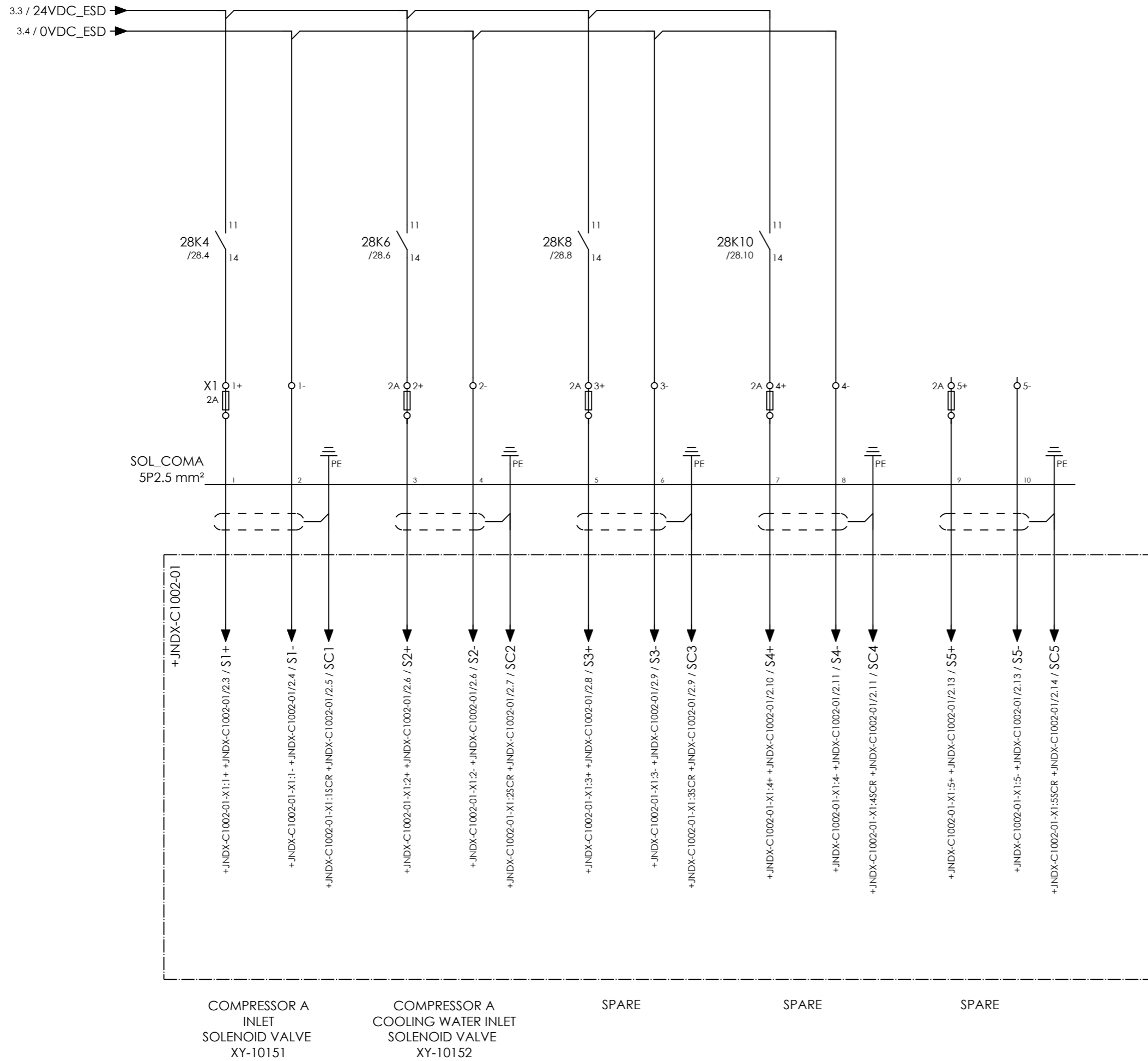


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	15

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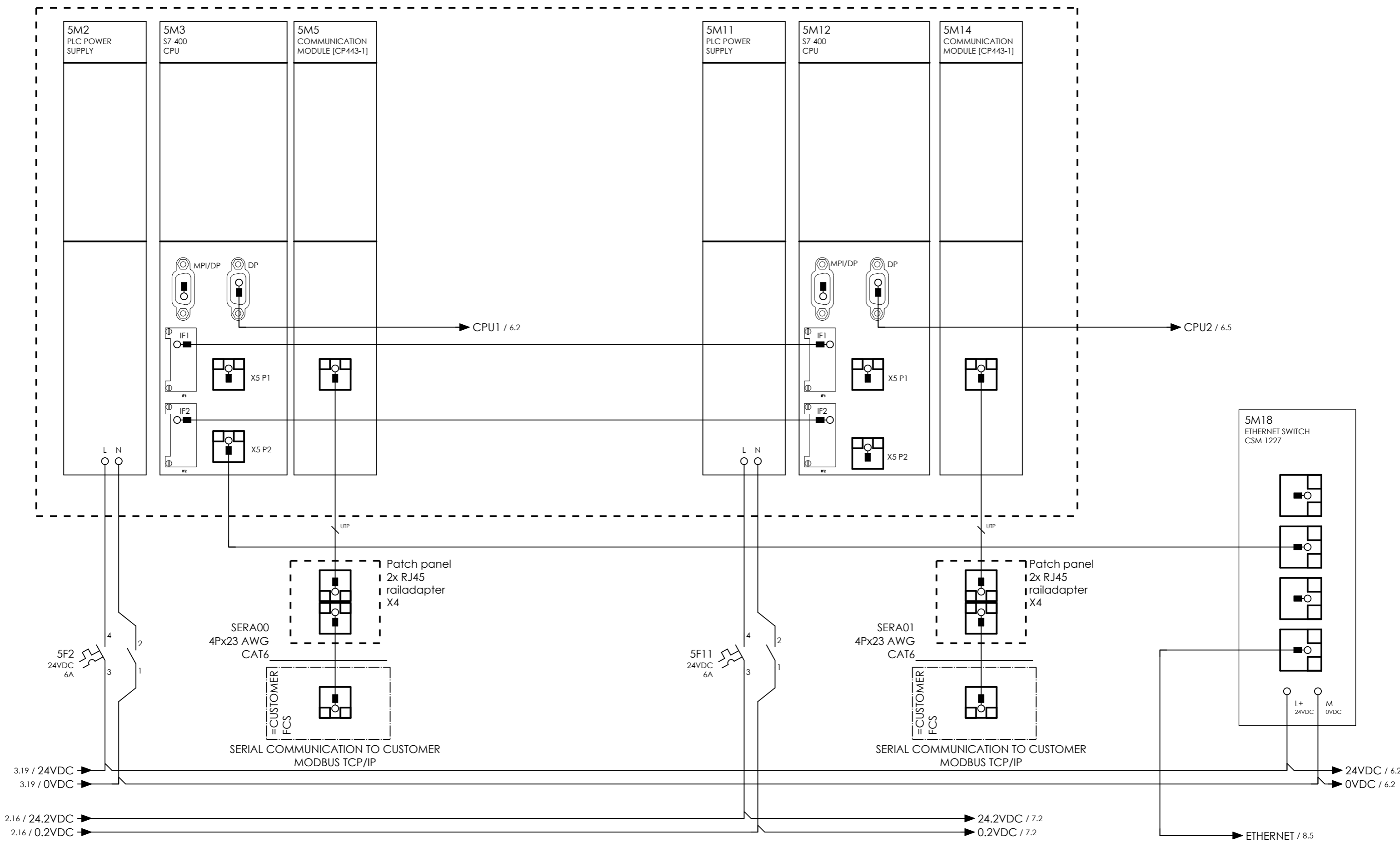


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SOLENOIDS	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	16

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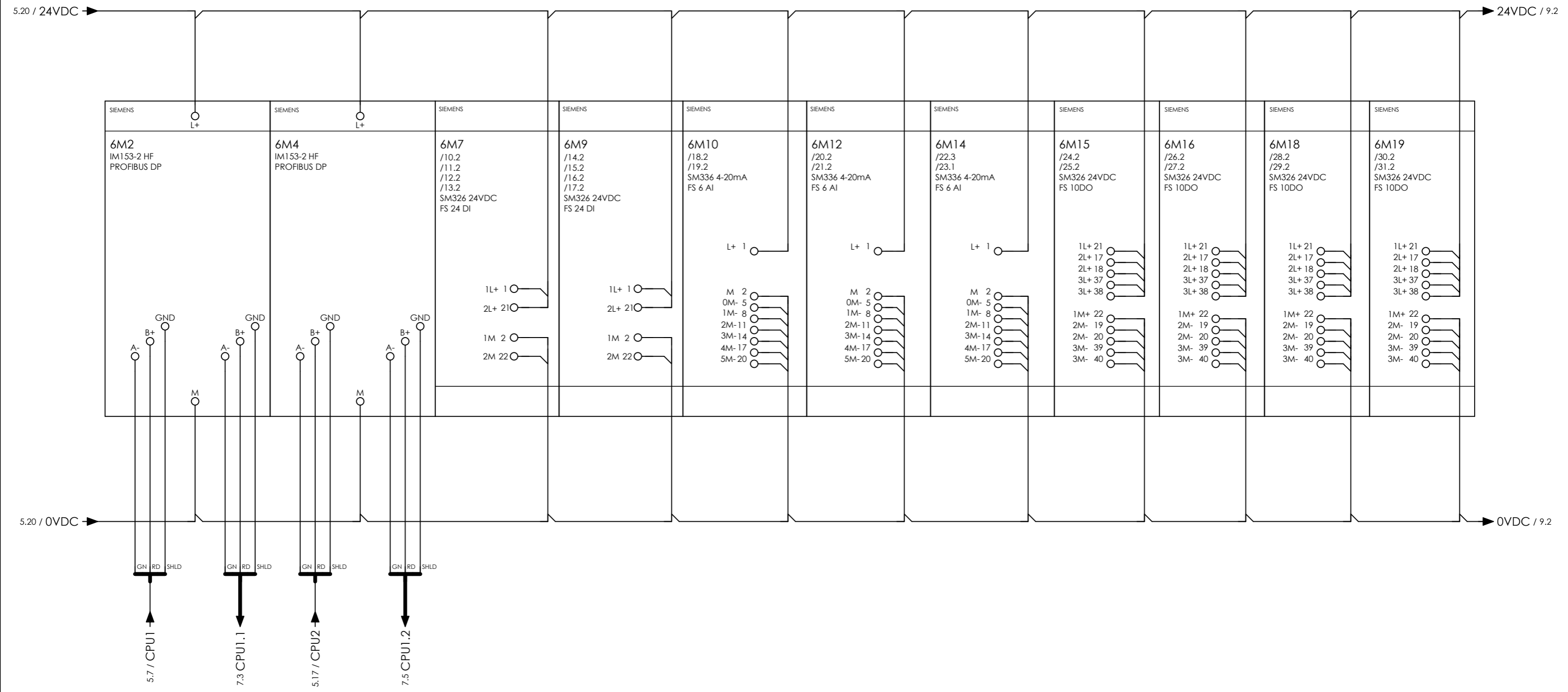


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT PLC LAYOUT	
ADAPTED TO P&ID REVISION	05
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	13-7-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	05	
TOTAL PAGE AMOUNT	17	

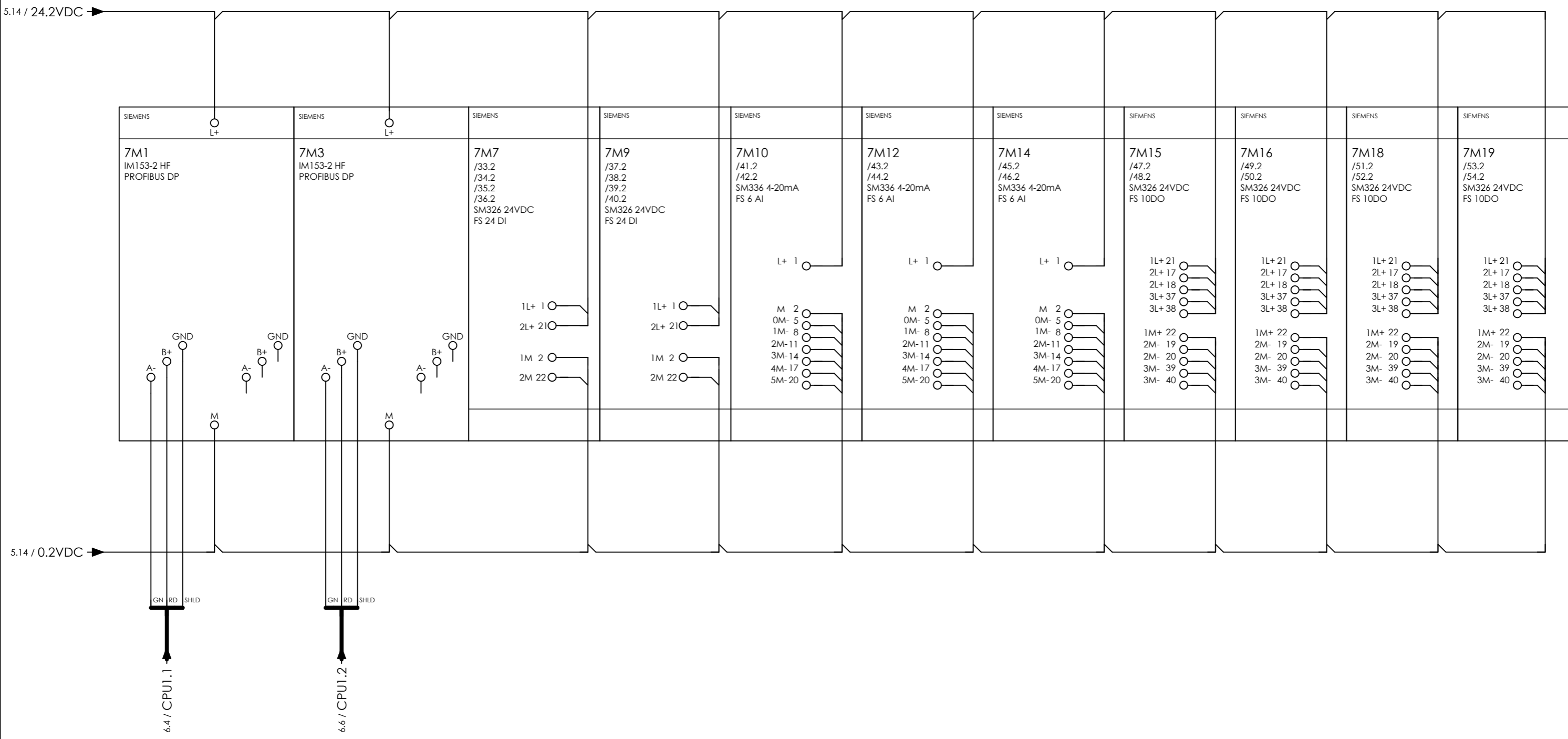


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

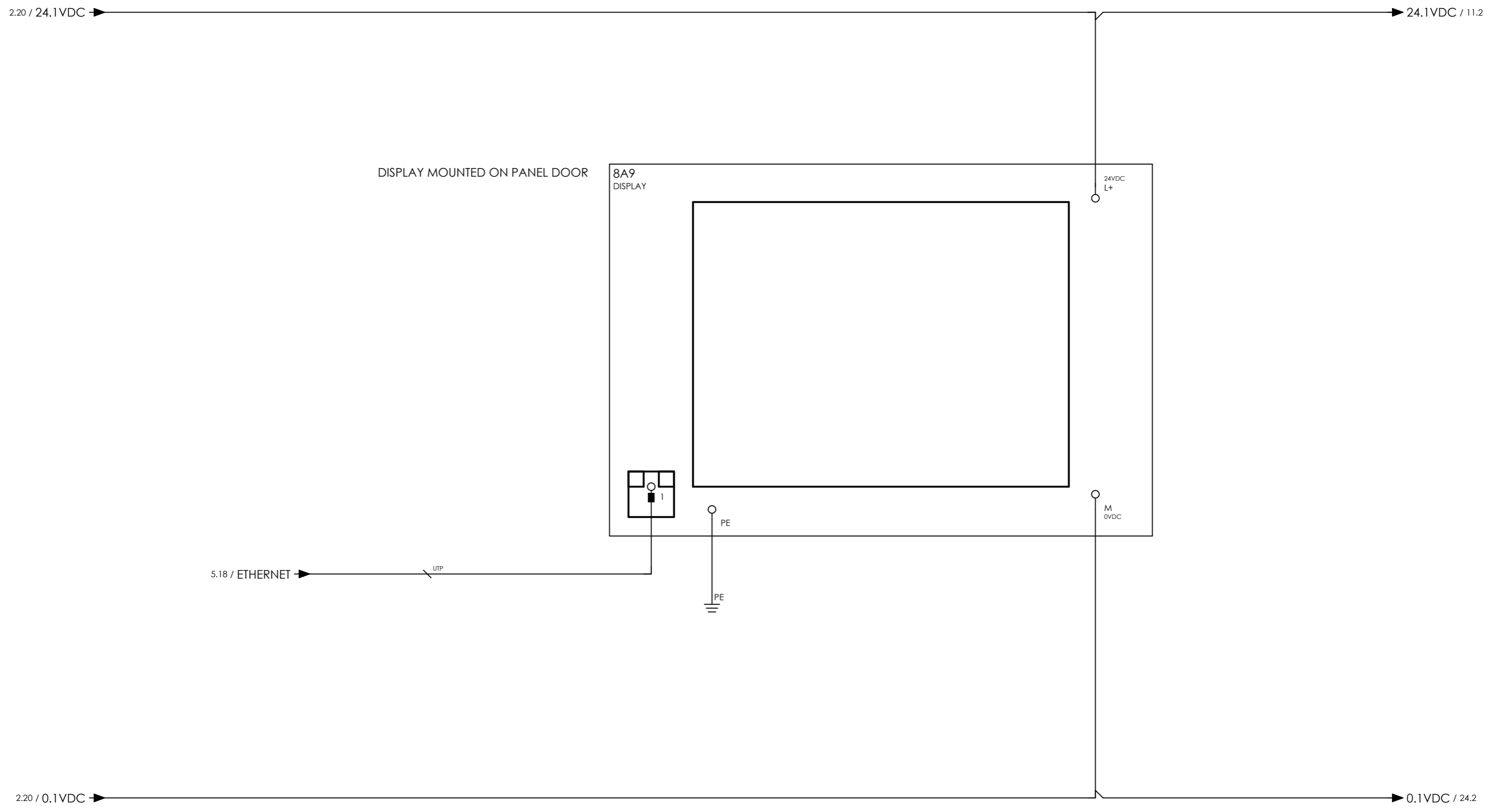
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CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	18

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



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	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	19	

DRAWN BY	MaGo	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	05	
TOTAL PAGE AMOUNT	19	



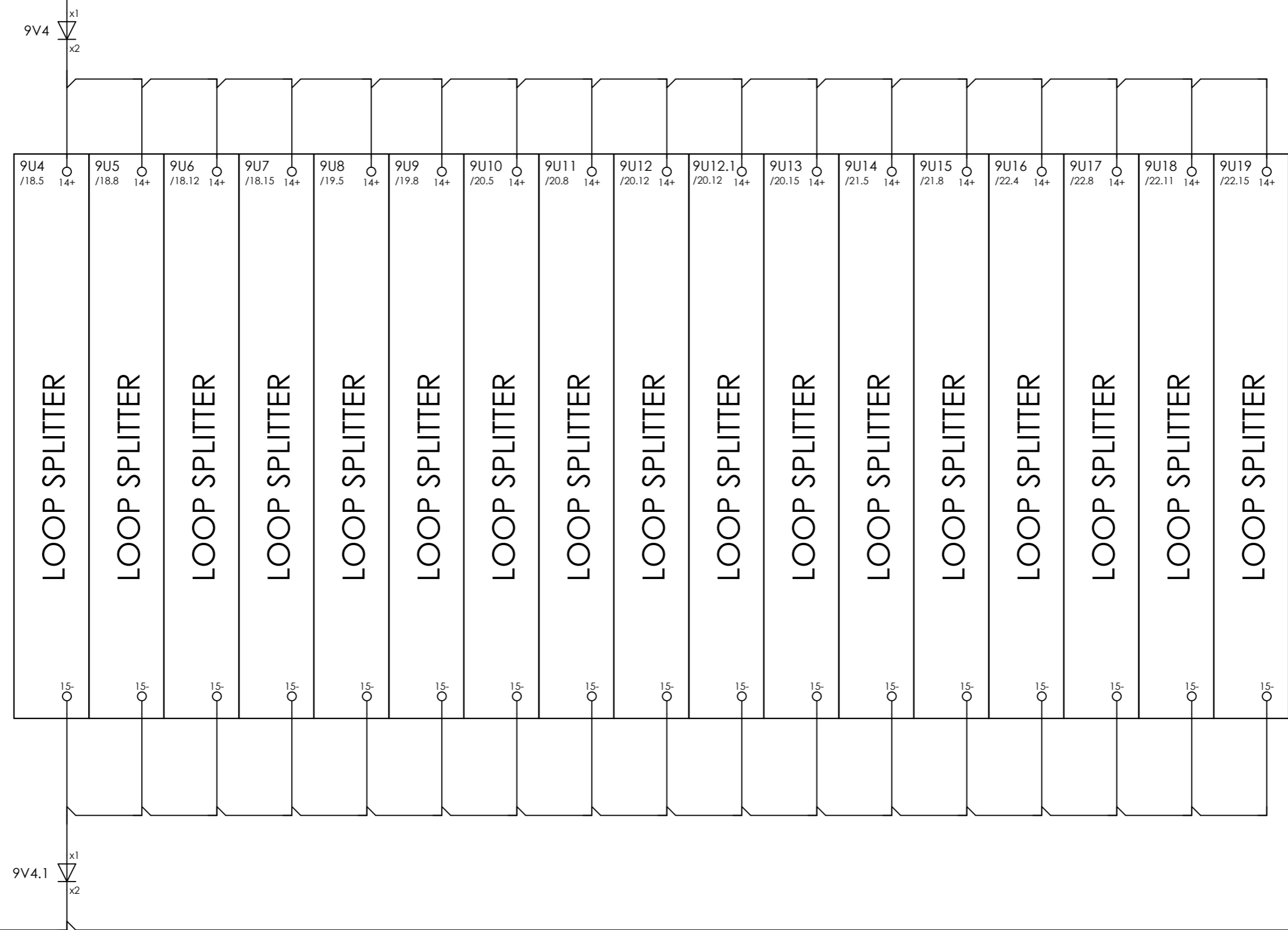
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DISPLAY	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	20

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

6.19 / 24VDC → 24VDC / 14.3



6.19 / 0VDC → 0VDC / 26.2



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	LOOP SPLITTERS	DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	05	CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT REF.	Bushehr MEG Plant Project	AIRPACK DWG NO.	17811-05	
		AIRPACK REF.	17811-05A	REVISION	05	
				TOTAL PAGE AMOUNT	21	

3.11  
ESD-CIRCUIT-01

D10.0  
33.4



ESD CIRCUIT 1

SPARE

SPARE

SPARE

SPARE

SPARE



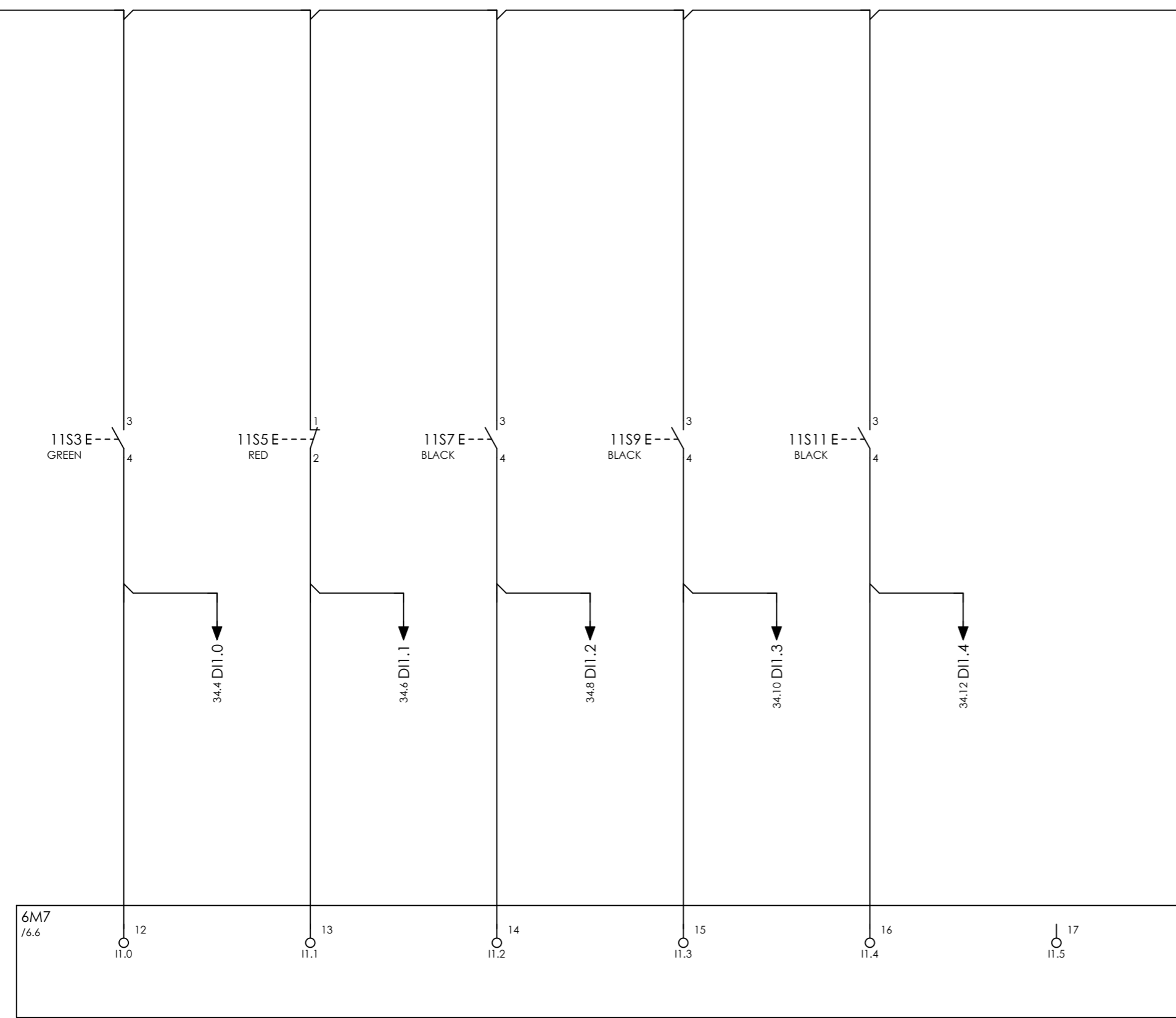
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
DIGITAL INPUTS I [6M7]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
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	SUBJECT		DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	DIGITAL INPUTS I [6M7]		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	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	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	23	

3.11  
ESD-CIRCUIT-02

DI2.0  
35.4



ESD CIRCUIT 2

SPARE

SPARE

SPARE

SPARE

SPARE

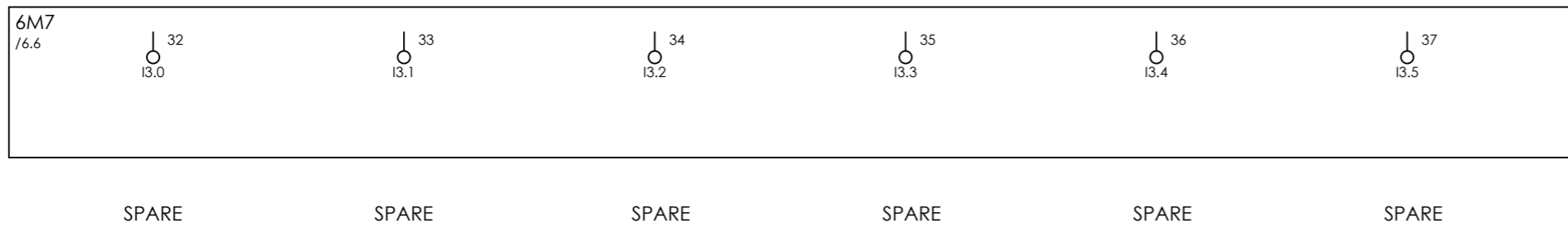


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT		DRAWN BY	MaGo	= 20-C-1002
DIGITAL INPUTS I [6M7]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	24	

11.19 / 24.1VDC → 24.1VDC /

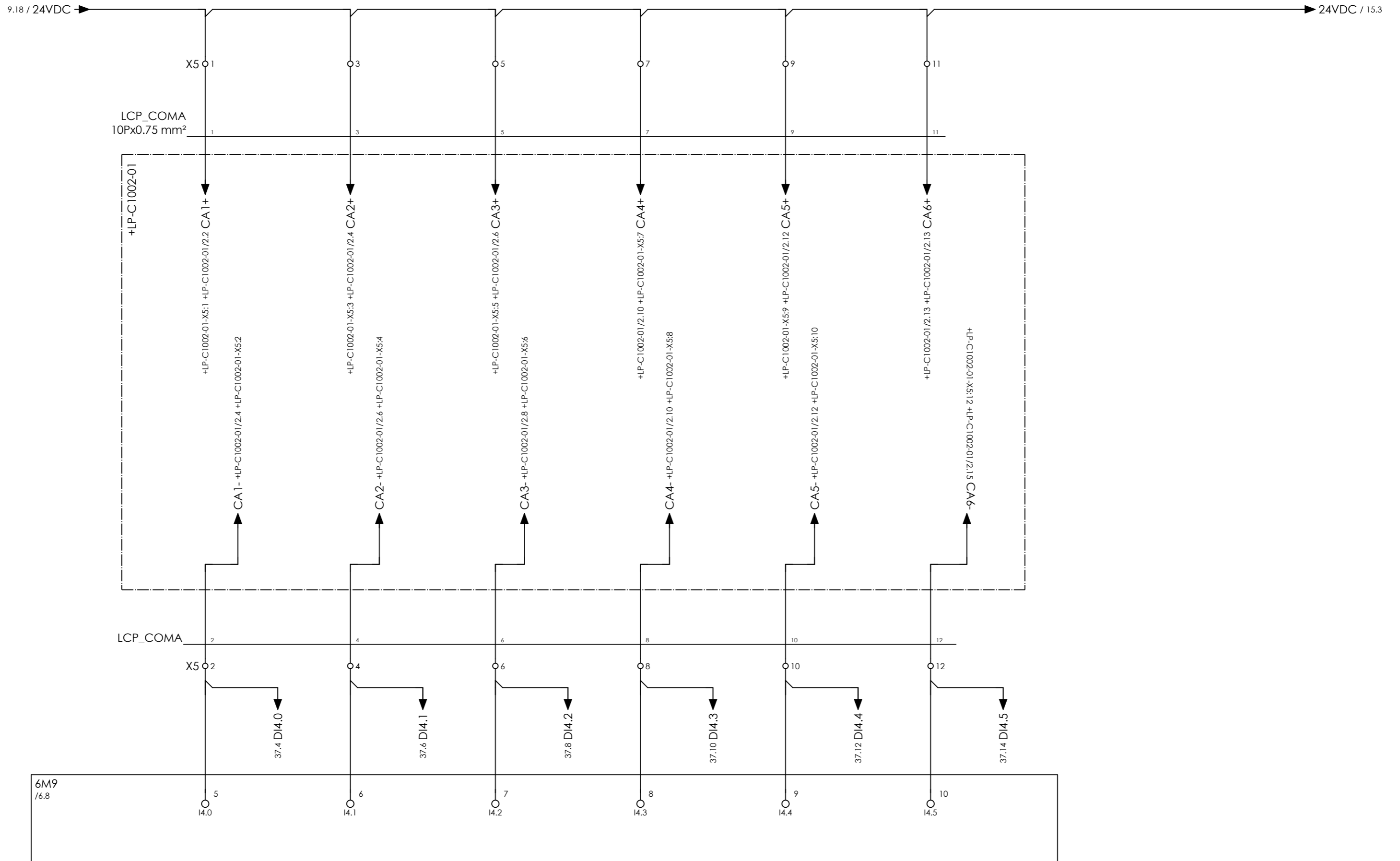


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I [6M7]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
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

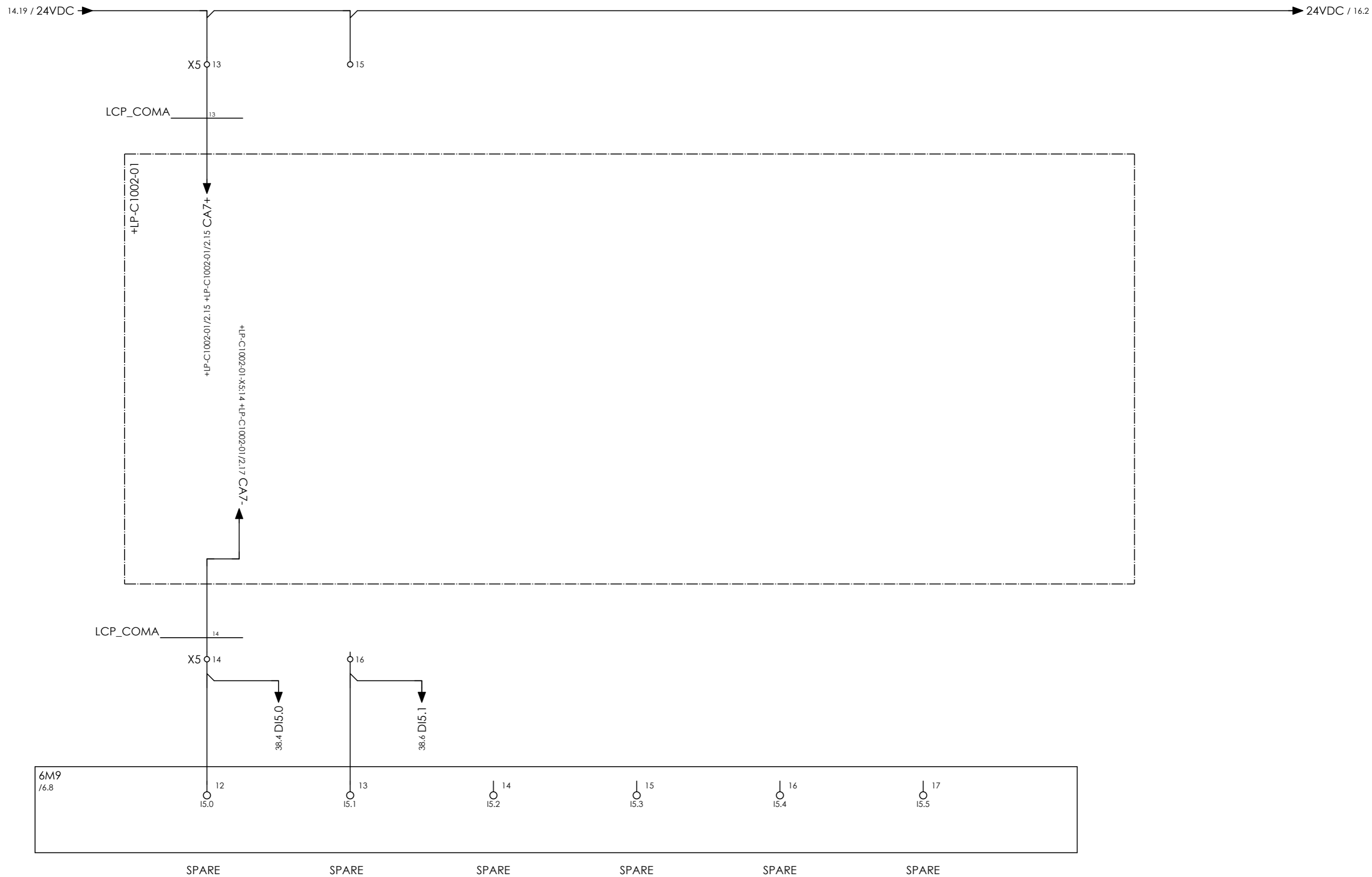


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I [6M9]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	26

= 20-C-1002
+ UCP-C1002-01
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

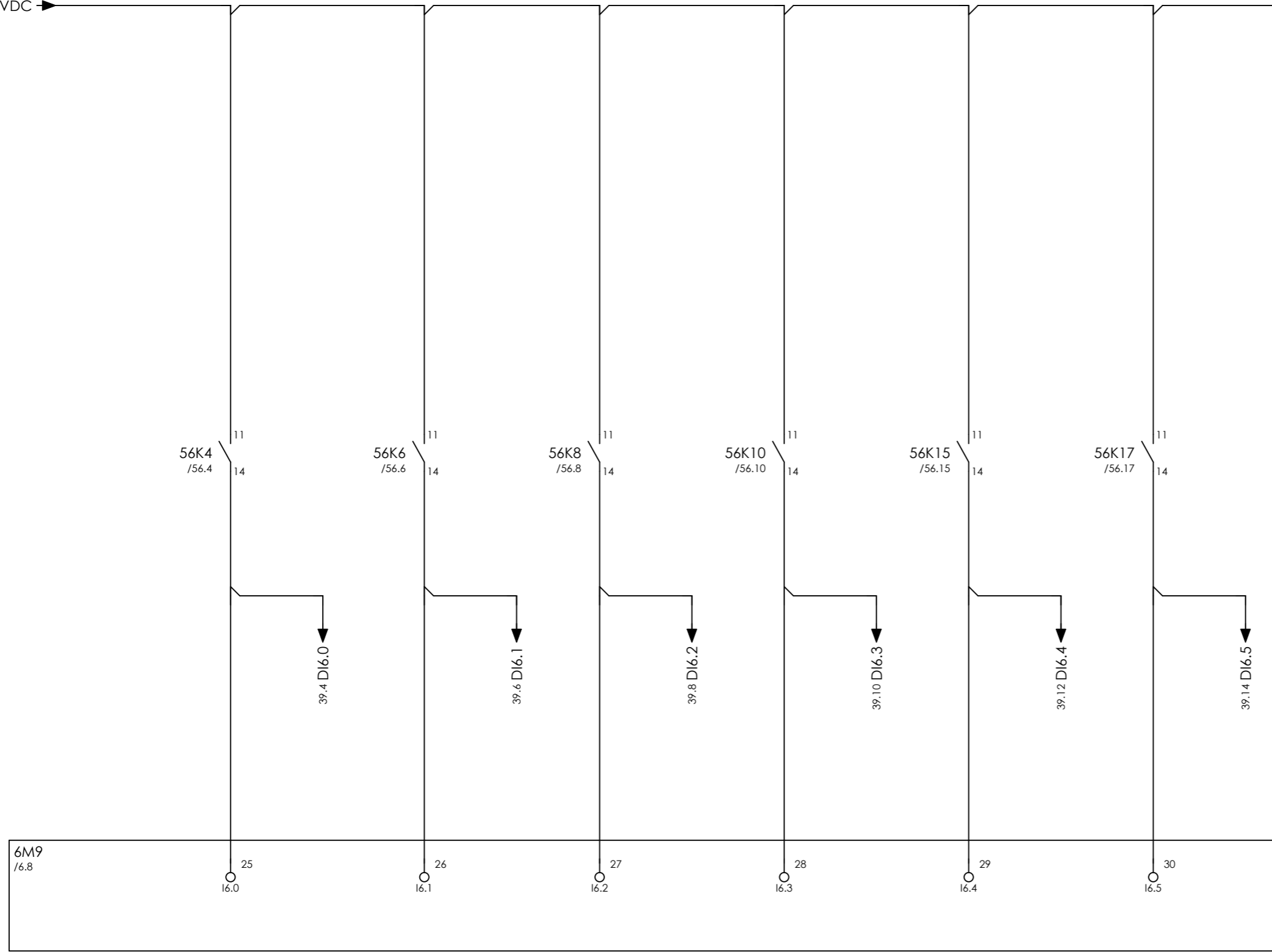
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SUBJECT	
DIGITAL INPUTS I [6M9]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	27

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+ UCP-C1002-01
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15.19 / 24VDC → 24VDC / 17.3



COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
RUNNING  
XL-10124

COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
FAULT  
YAL-10125

COMPRESSOR A  
OIL HEATER LG-10151  
RUNNING  
XL-10126

COMPRESSOR A  
OIL HEATER LG-10151  
FAULT  
YAL-10127

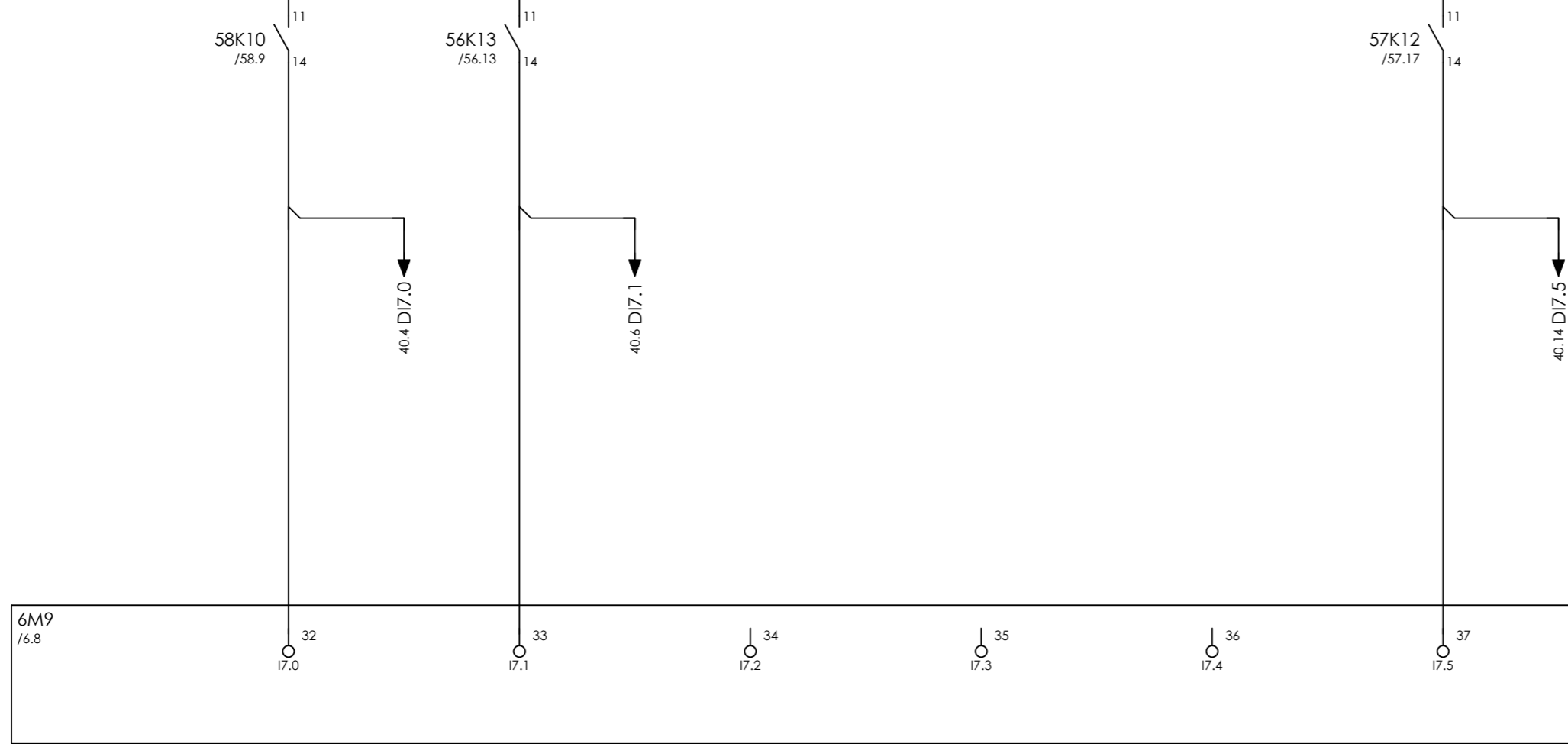
SPARE

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		DRAWN BY	MaGo	= 20-C-1002
DIGITAL INPUTS I [6M9]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	28	



PID CONTROL  
VALVE FAULT  
YAL-10129-PID

OIL HEATER PID  
LG-10151 FAULT  
YAL-10130-PID

SPARE

SPARE

SPARE

TIME  
SYNCHRONIZATION  
XCS-108

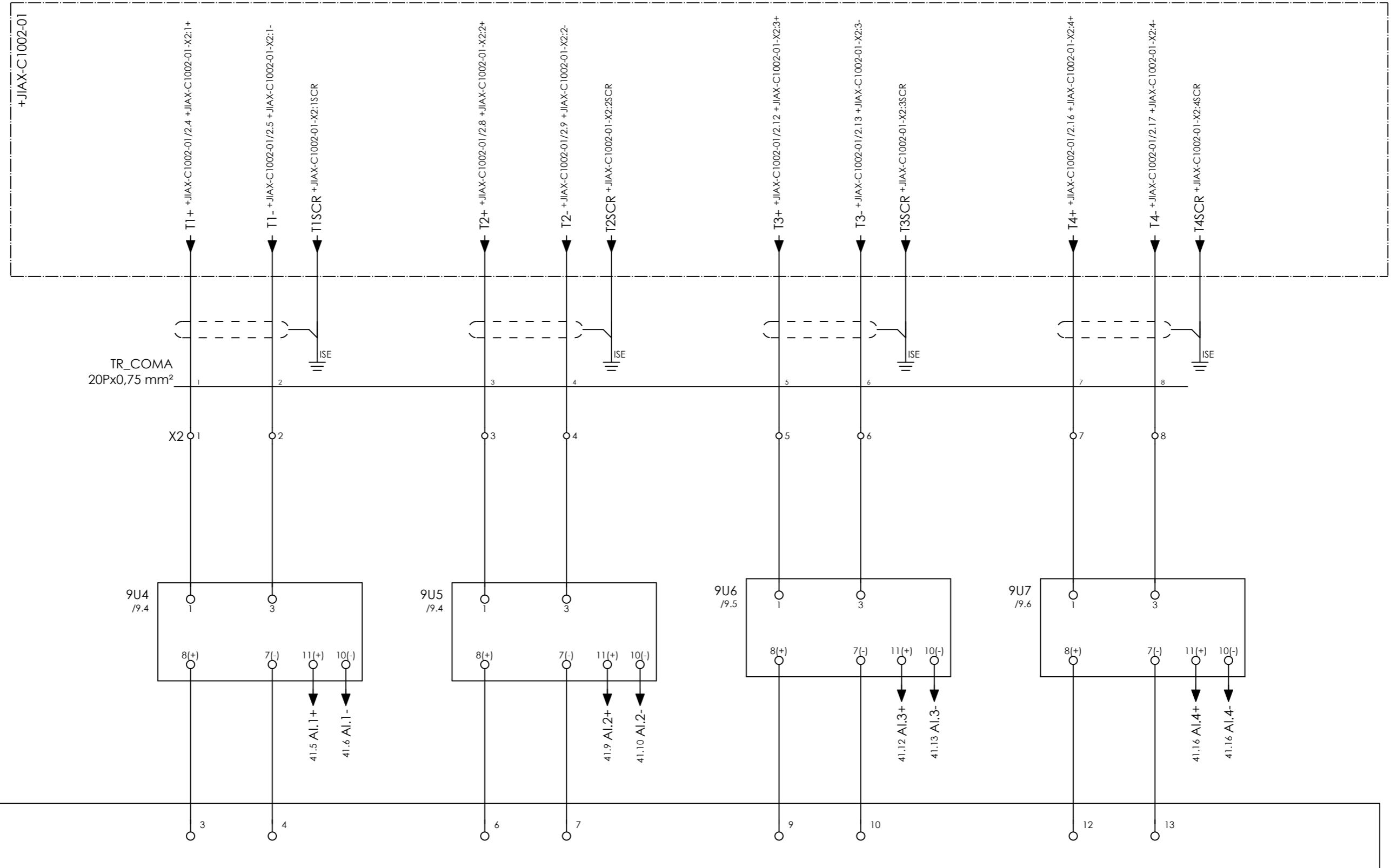


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I [6M9]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	29

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

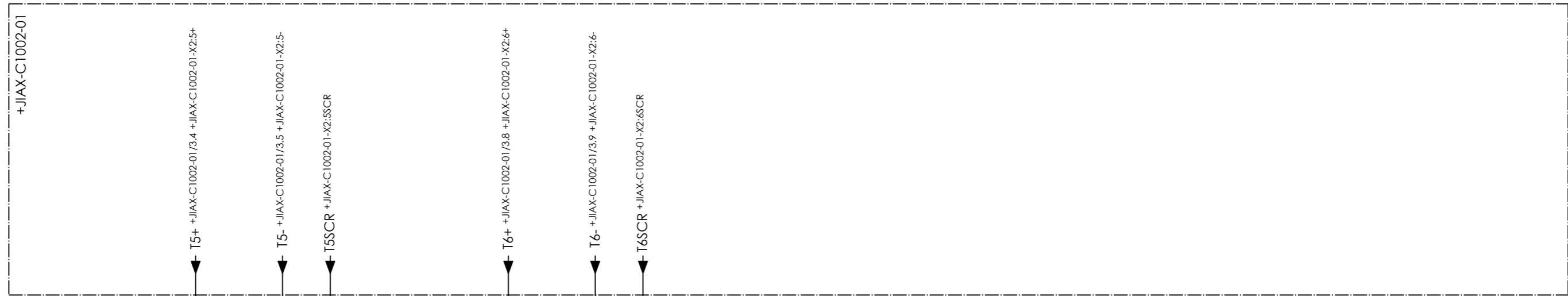


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I [6M10]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	30

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TR\_COMA  
/18.5

9U8  
/9.7

9U9  
/9.8

6M10  
/6.9

COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10152

COMPRESSOR A  
COOLING WATER OUTLET FLOW  
FIT-10151

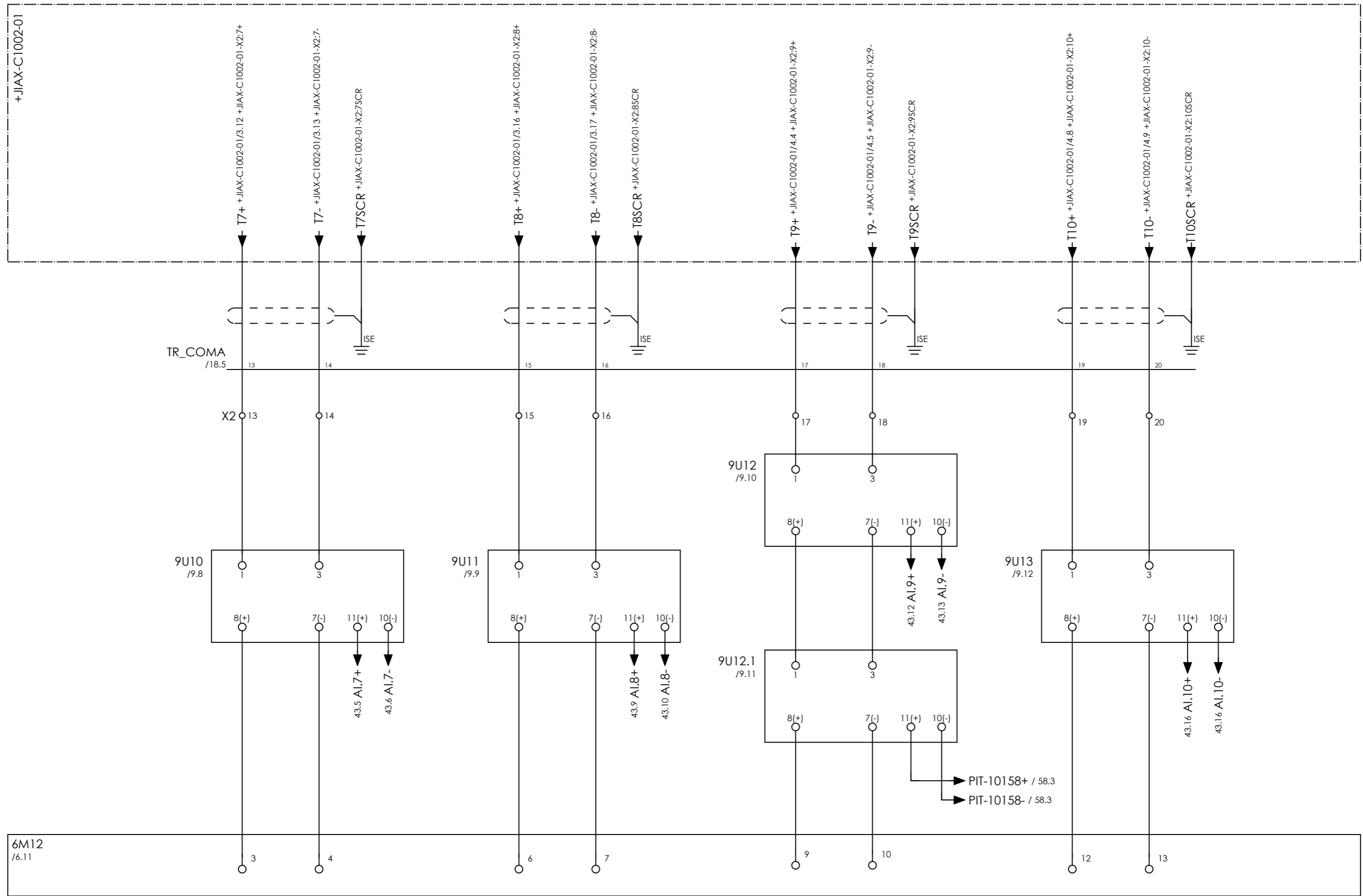


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I [6M10]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	31

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+ UCP-C1002-01
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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

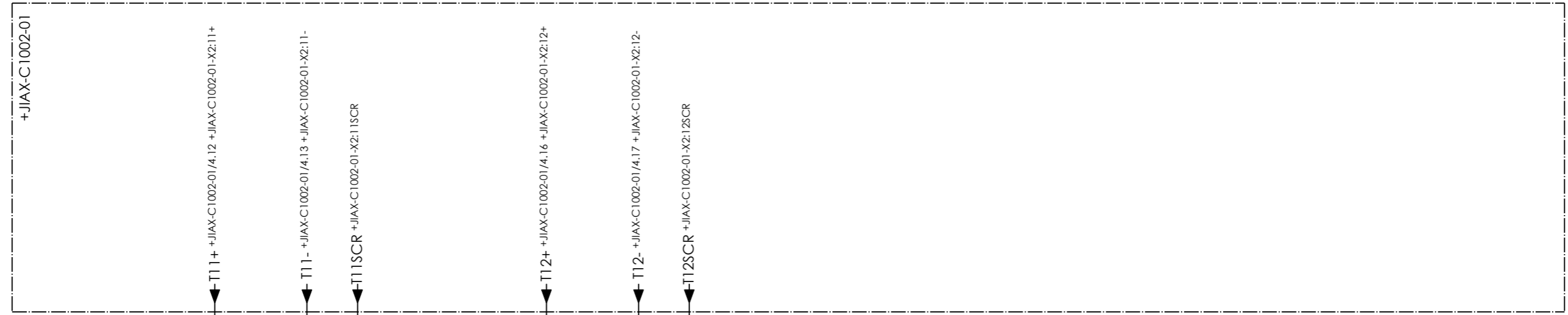


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I [6M12]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	32

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+ UCP-C1002-01
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TR\_COMA  
/18.5

9U14  
/9.12

9U15  
/9.13

6M12  
/6.11

COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10153

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10154

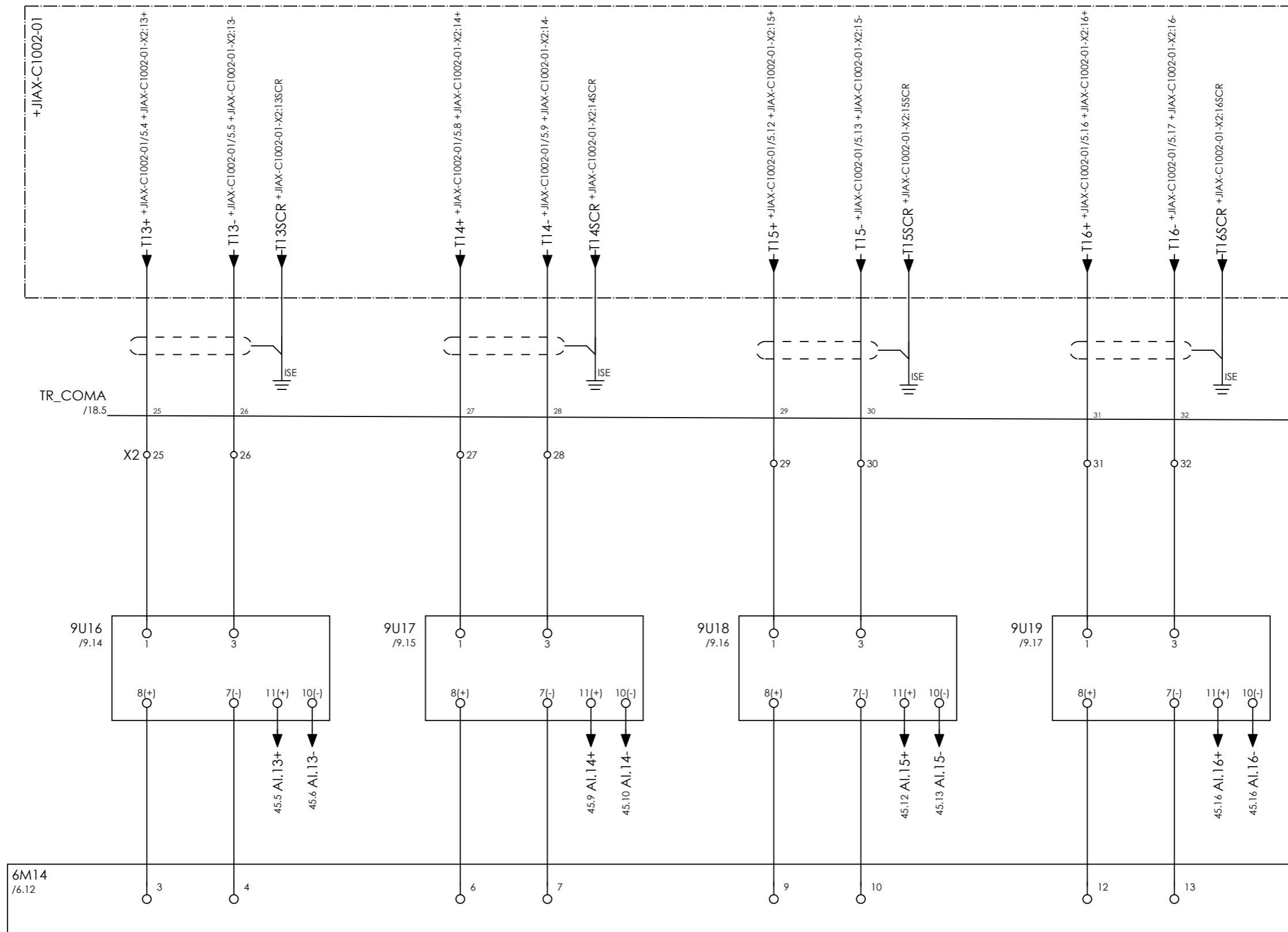


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I [6M12]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
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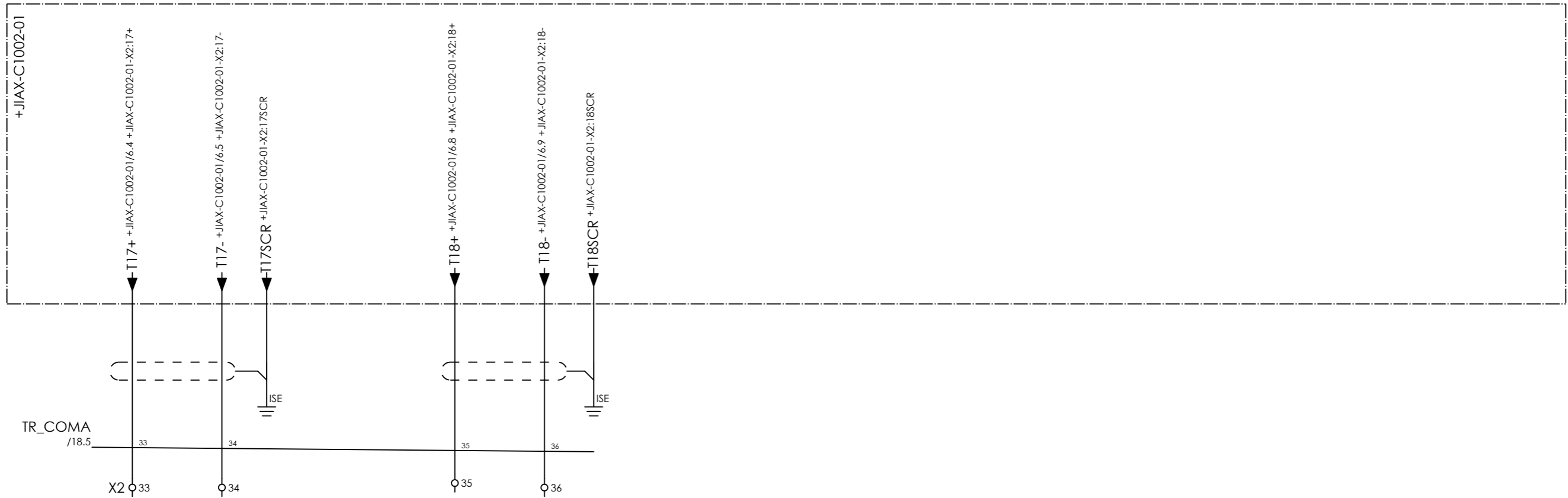


COMPRESSOR A  
2ND UPSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10155

SPARE

SPARE

SPARE

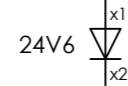
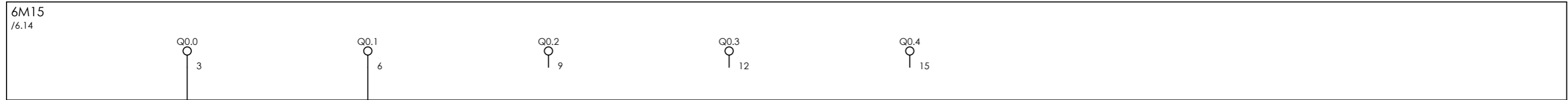


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I [6M14]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.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

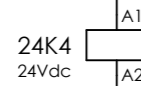
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CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	35

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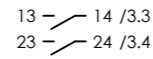
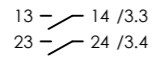
DOO.0 47.4

DOO.1 47.6



8.19 / 0.1VDC

0.1VDC / 25.2 -25H4:x2



ESD RELAY 01

ESD RELAY 02

SPARE

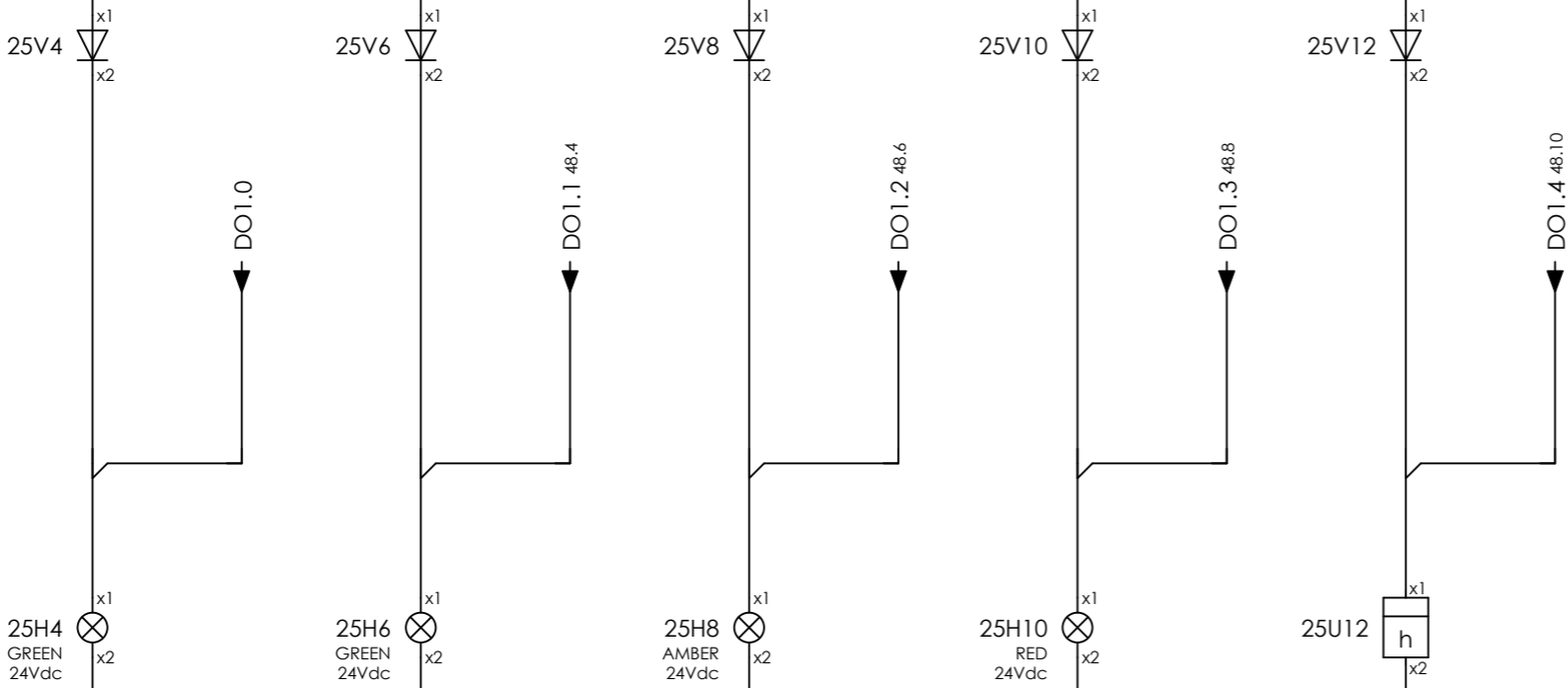
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SPARE



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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	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	36	

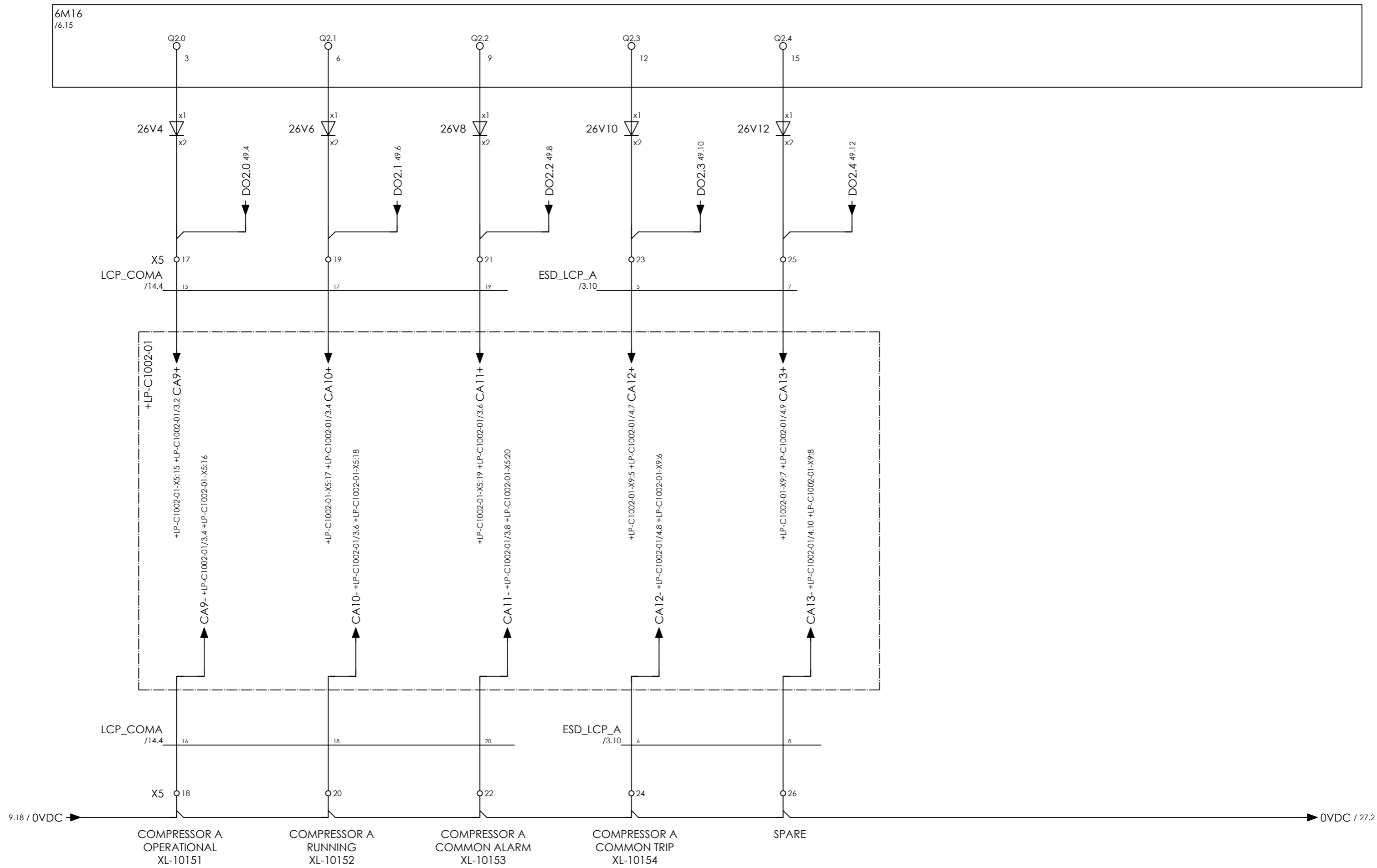


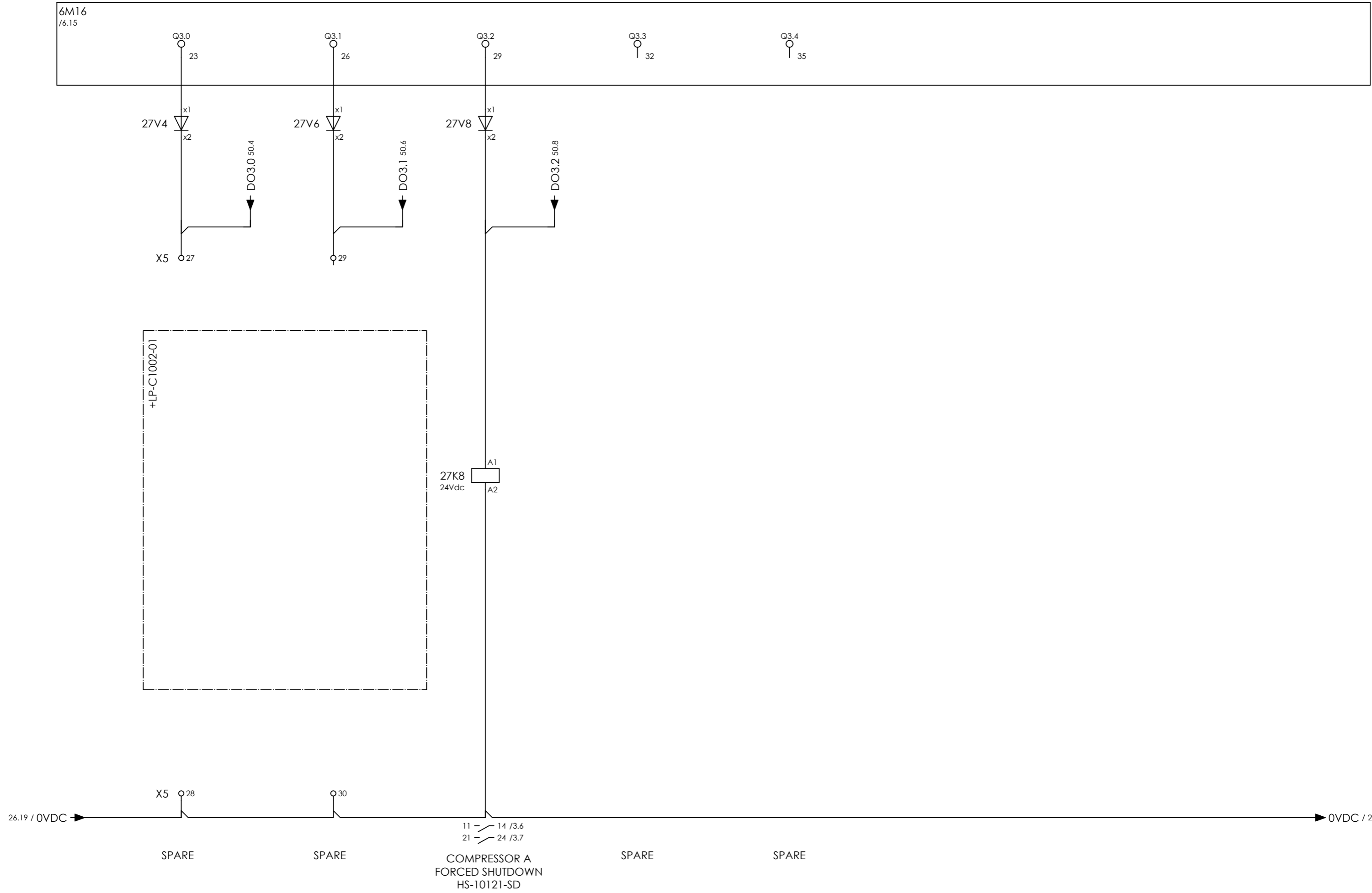
24.19 / 0.1VDC →

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



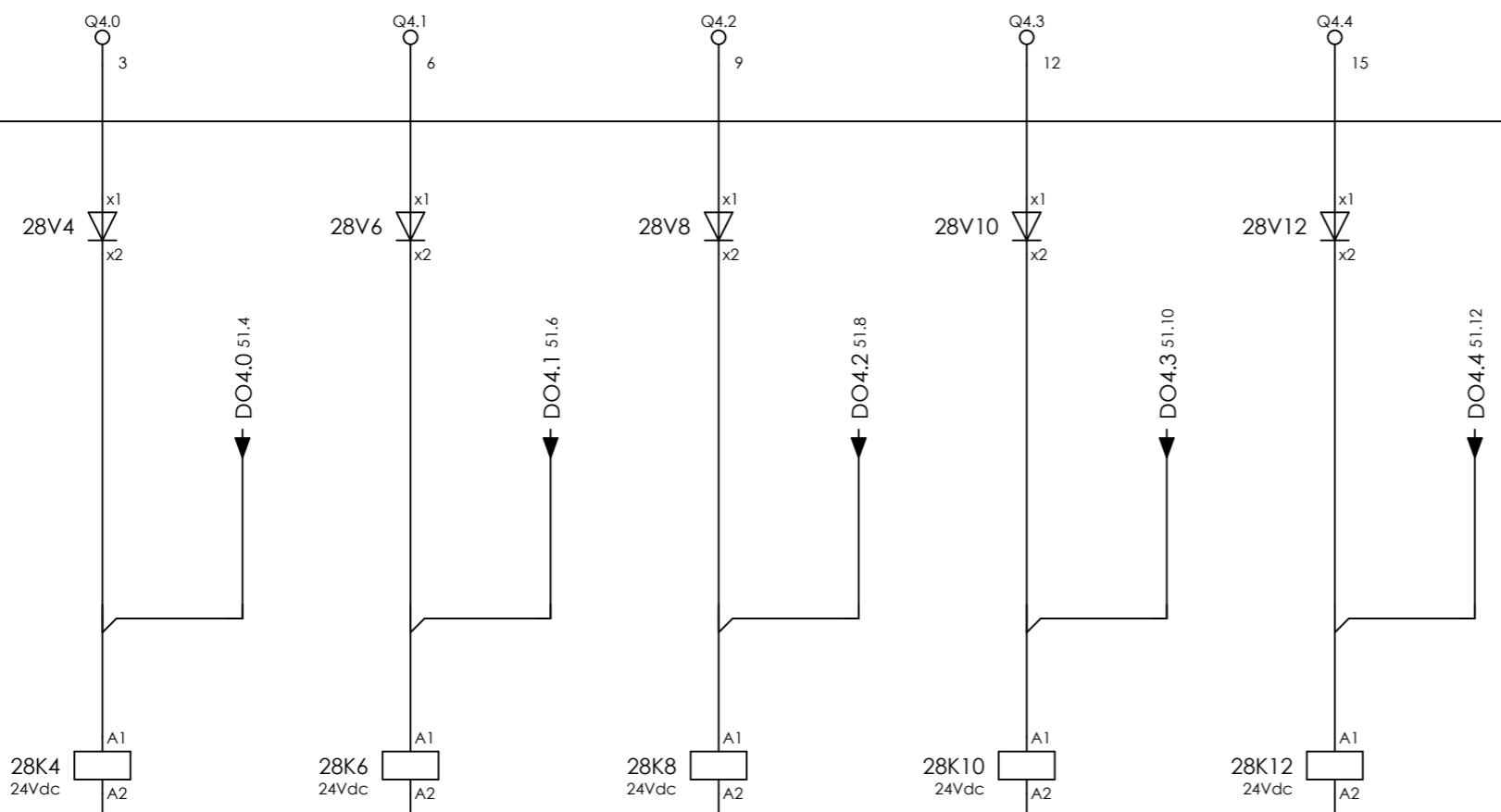
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EQUIPMENT NO.	20-C-1002	DIGITAL OUTPUTS I [6M15]		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	37	





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	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	39	



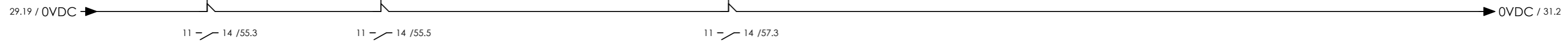
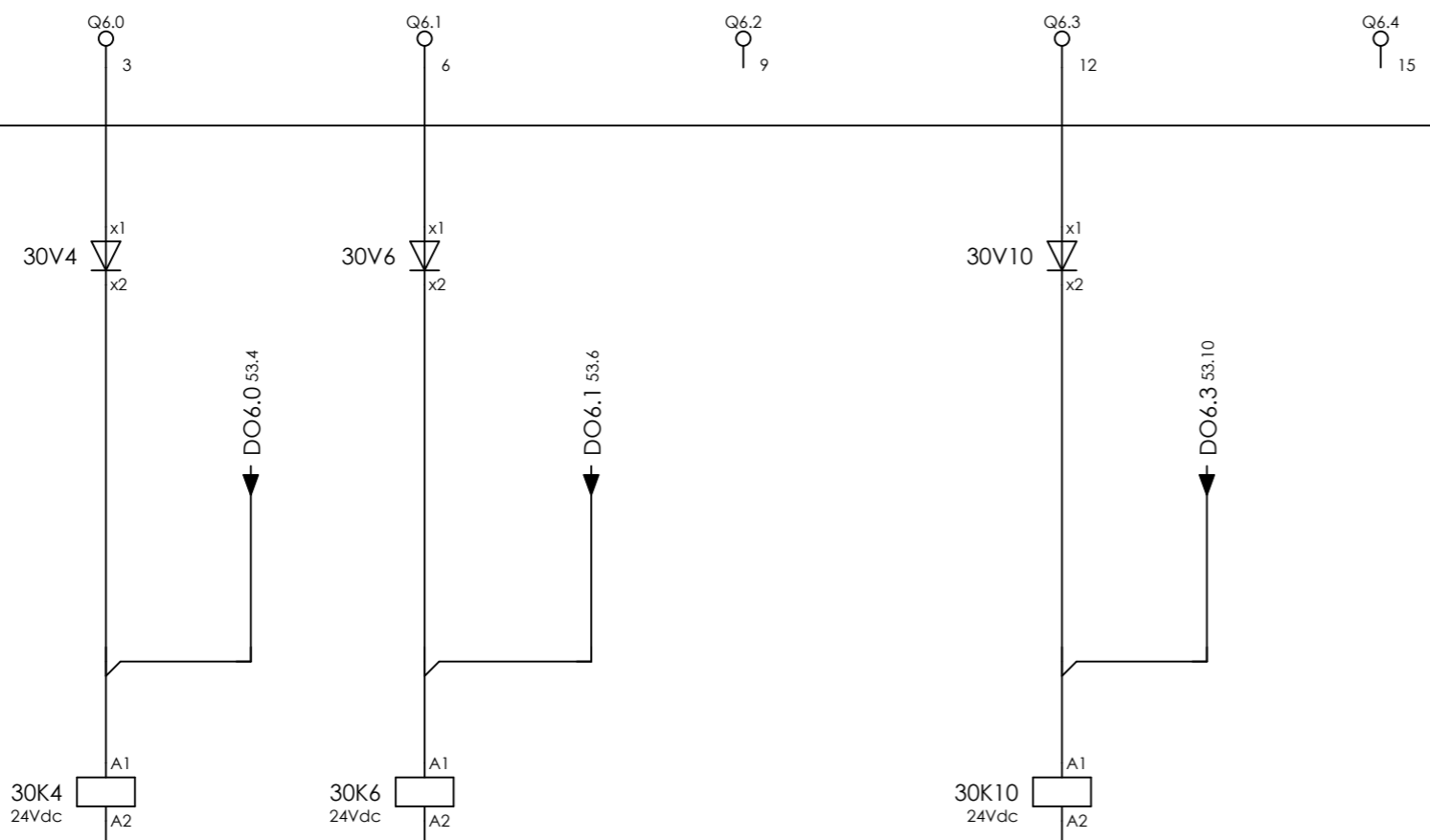
11 - 14 /4.4      11 - 14 /4.6      11 - 14 /4.8      11 - 14 /4.10      11 - 12 /58.5

COMPRESSOR A SOLENOID VALVE XY-10151      COMPRESSOR A SOLENOID VALVE XY-10152      SPARE      SPARE      PID CONTROL ACTIVE XS-10128-PID



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	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	40	





COMPRESSOR A  
MAIN MOTOR 20-M-1002  
START/STOP  
XS-10122-ST/SP

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF  
XS-10123-ST/SP

SPARE

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	42

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CURRENT PAGE

6M19  
/6.18

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
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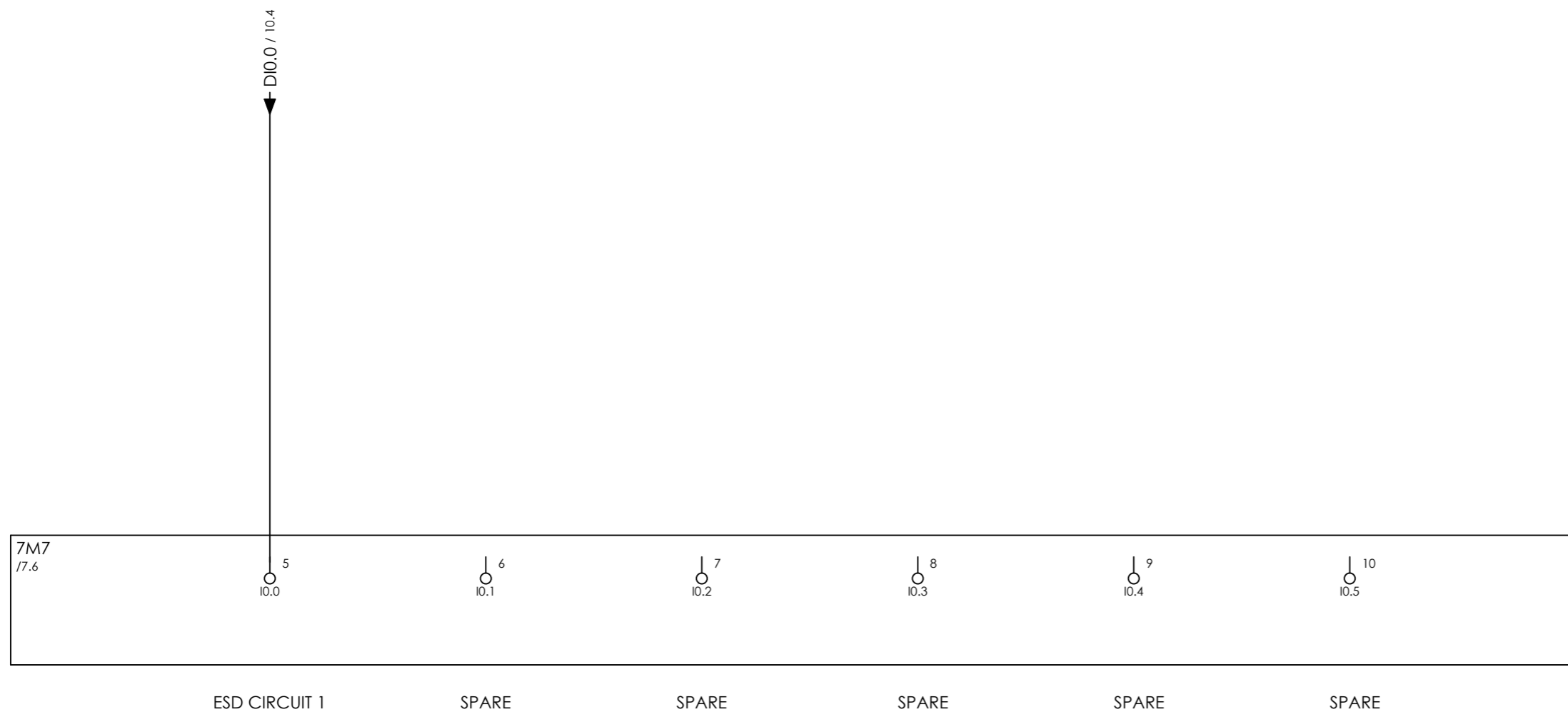


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT EMPTY PAGE	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

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LAST MODIFICATION DATE	13-7-2022
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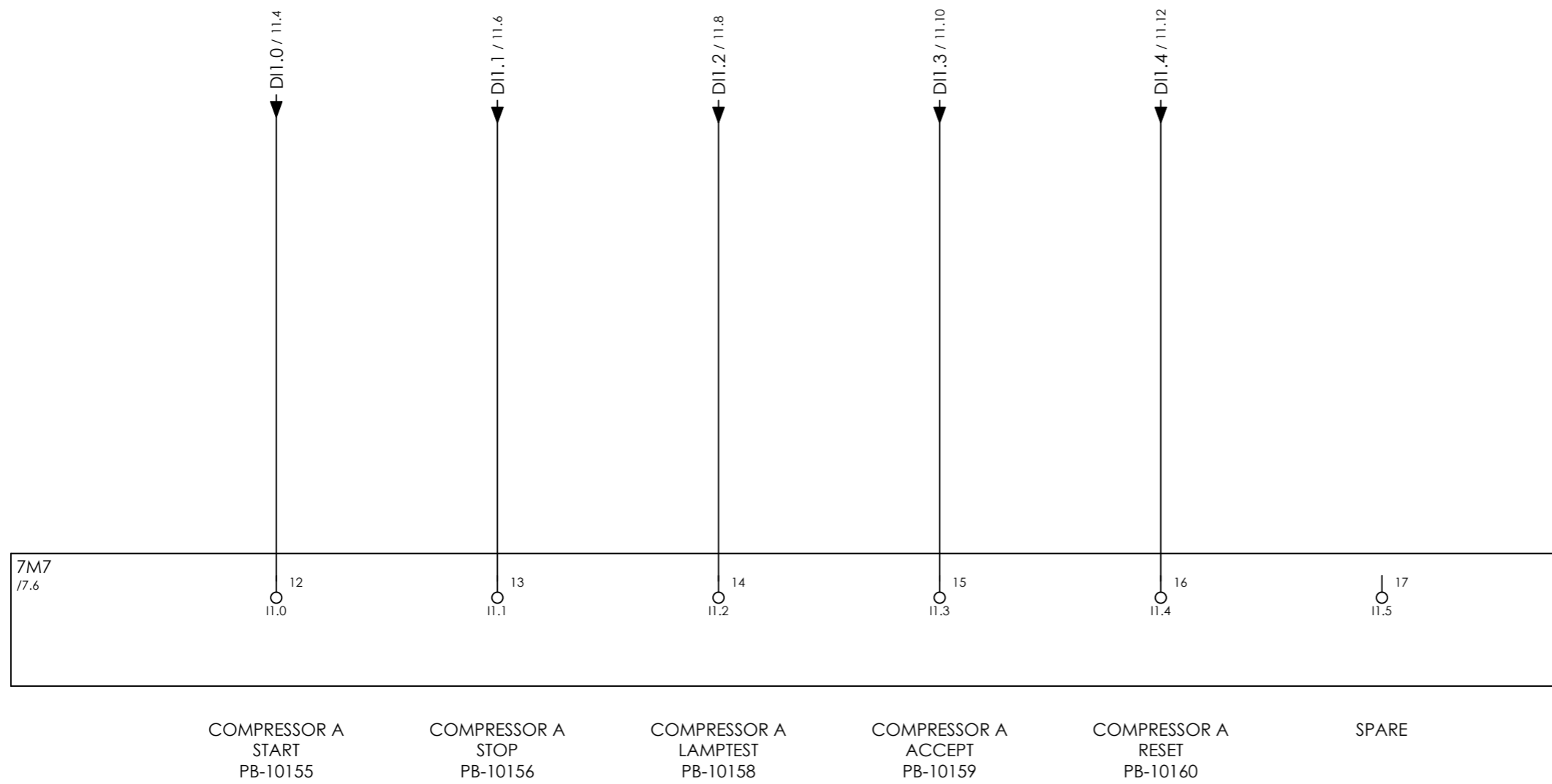


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	45

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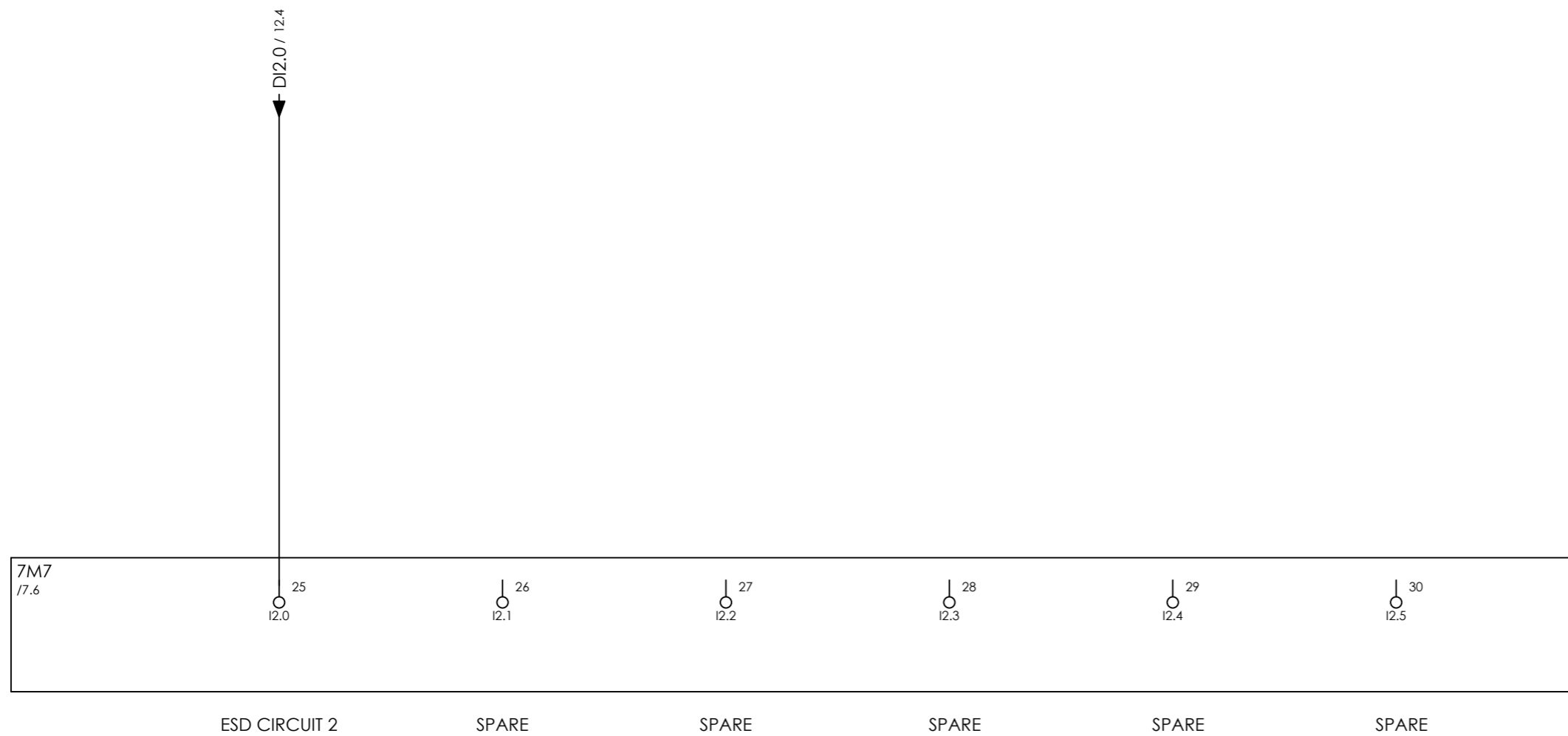


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS II [7M7]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
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REVISION	05
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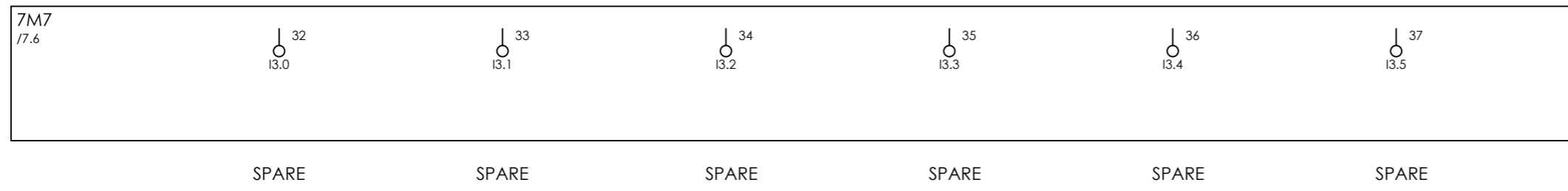


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	47

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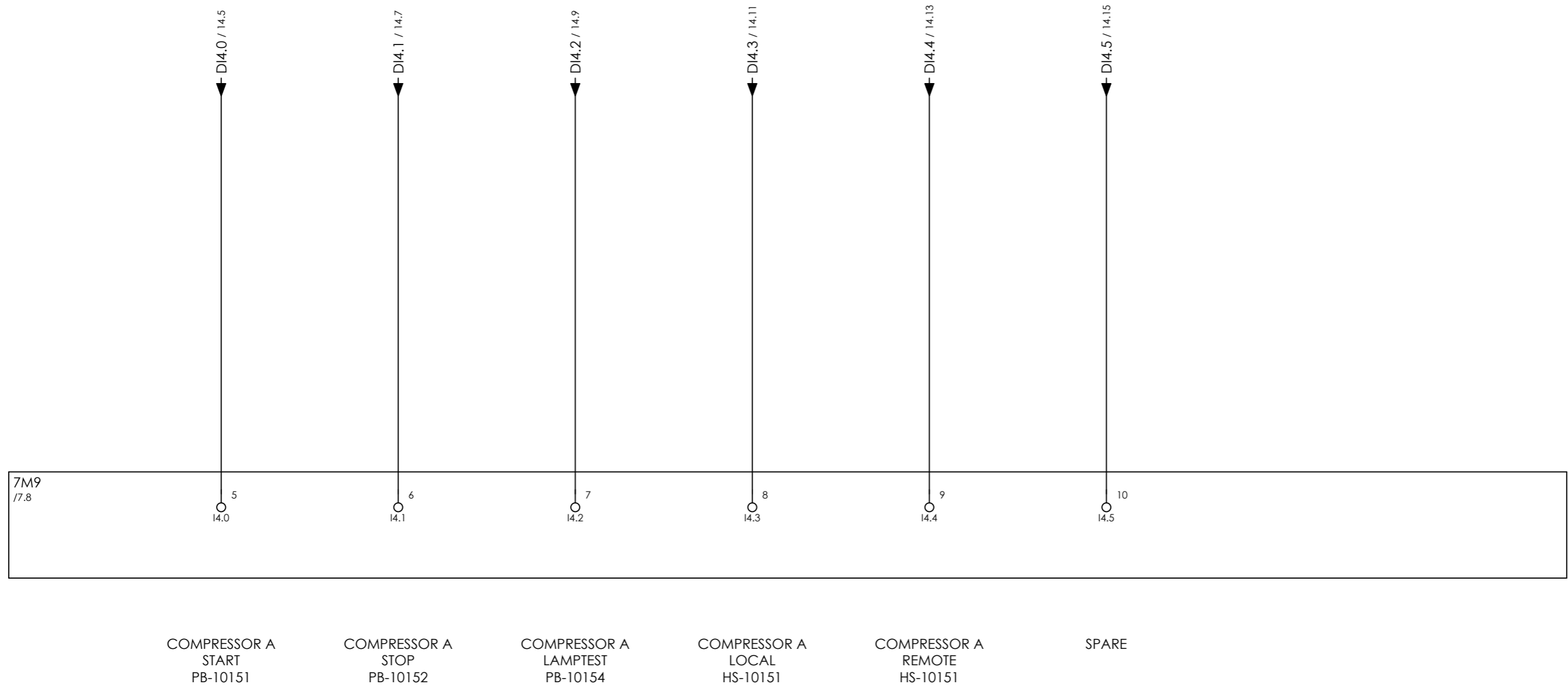


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS II [7M7]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
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REVISION	05
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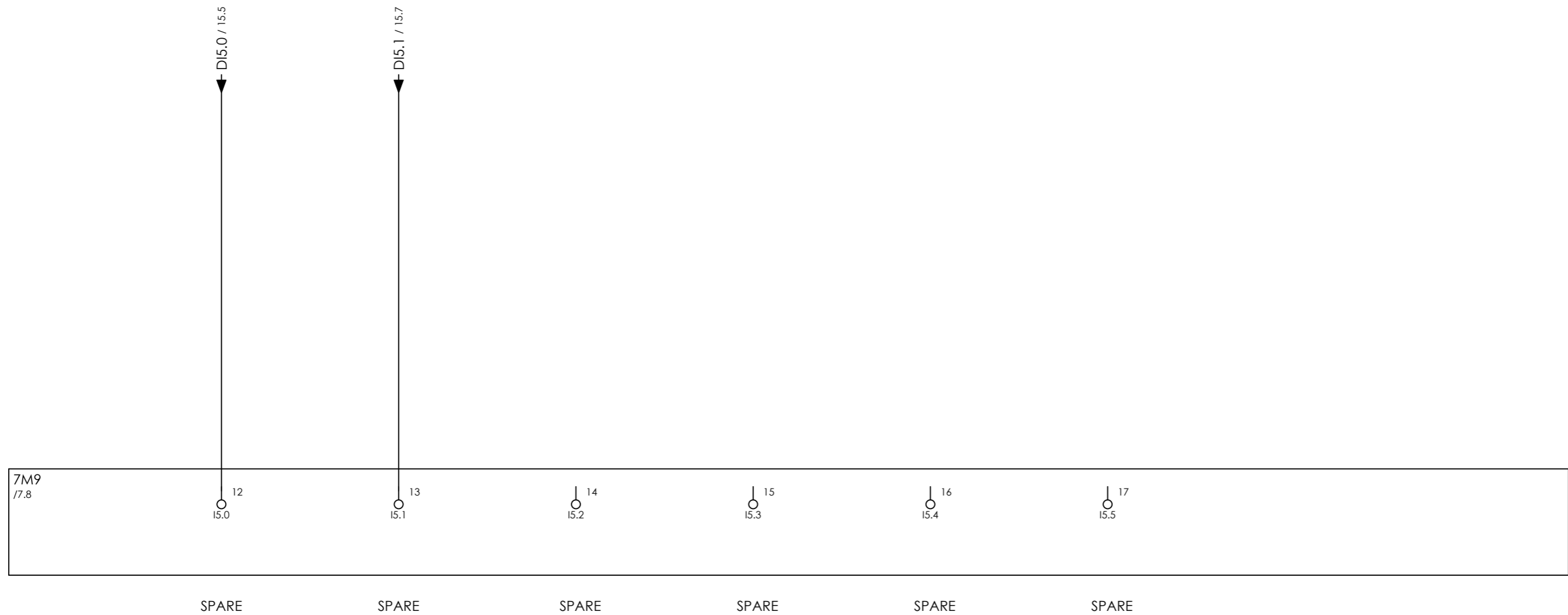


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	49

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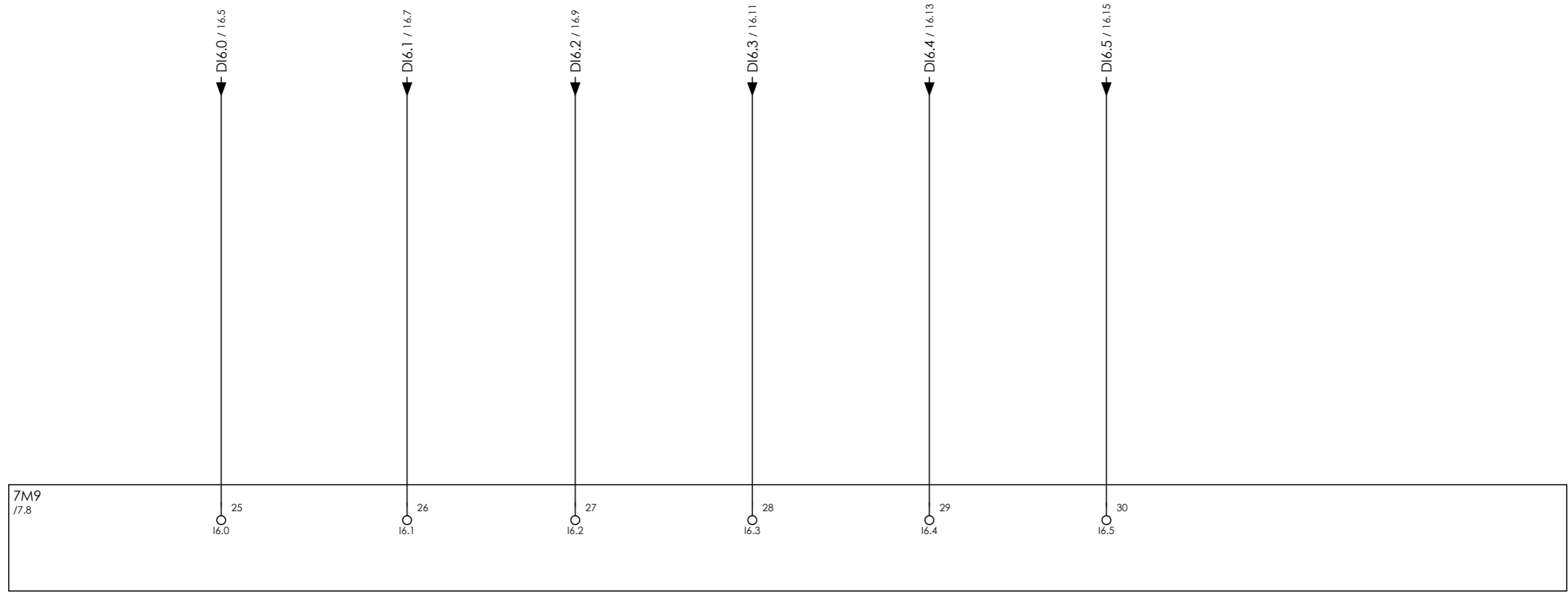


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
DIGITAL INPUTS II [7M9]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	50

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



COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
RUNNING  
XL-10124

COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
FAULT  
YAL-10125

COMPRESSOR A  
OIL HEATER LG-10151  
RUNNING  
XL-10126

COMPRESSOR A  
OIL HEATER LG-10151  
FAULT  
YAL-10127

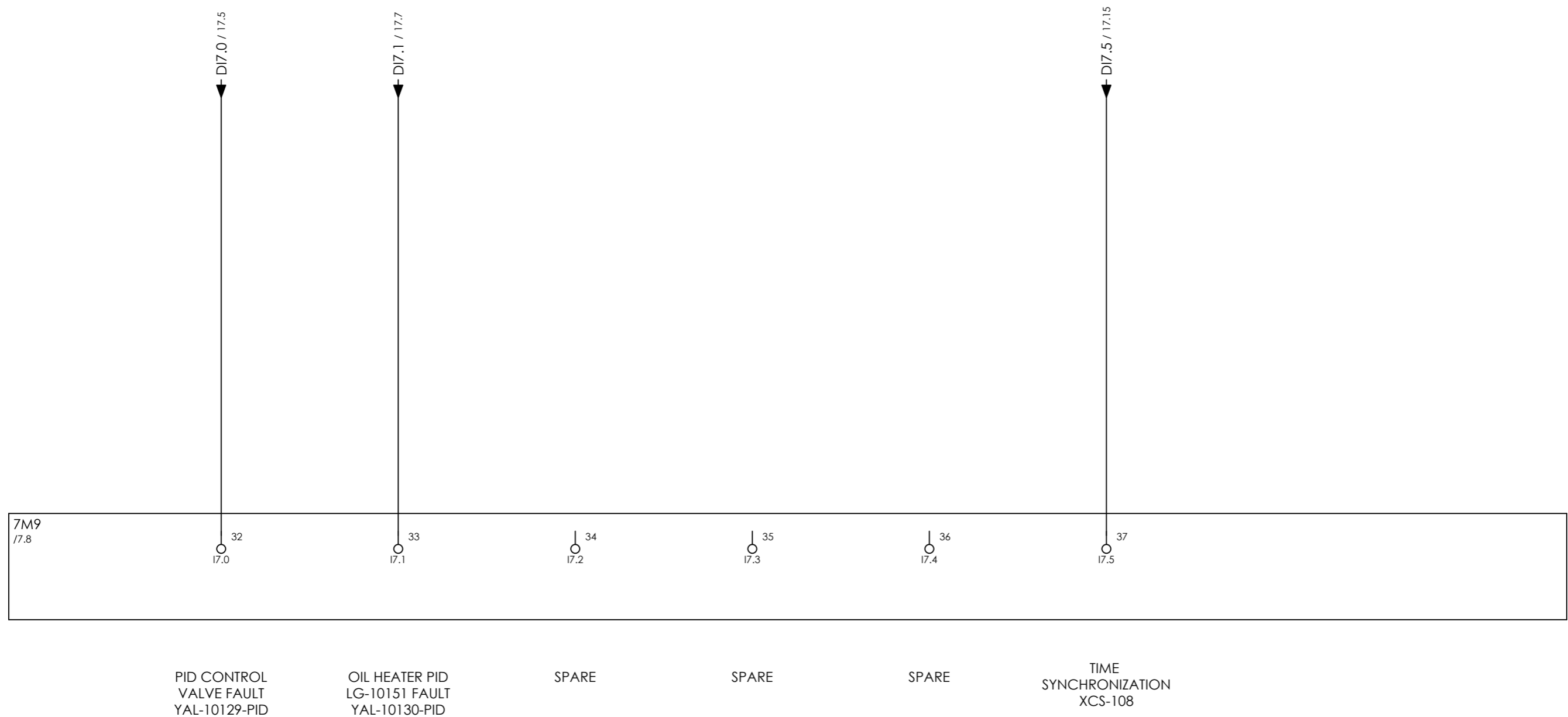
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SPARE



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 II [7M9]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	51	

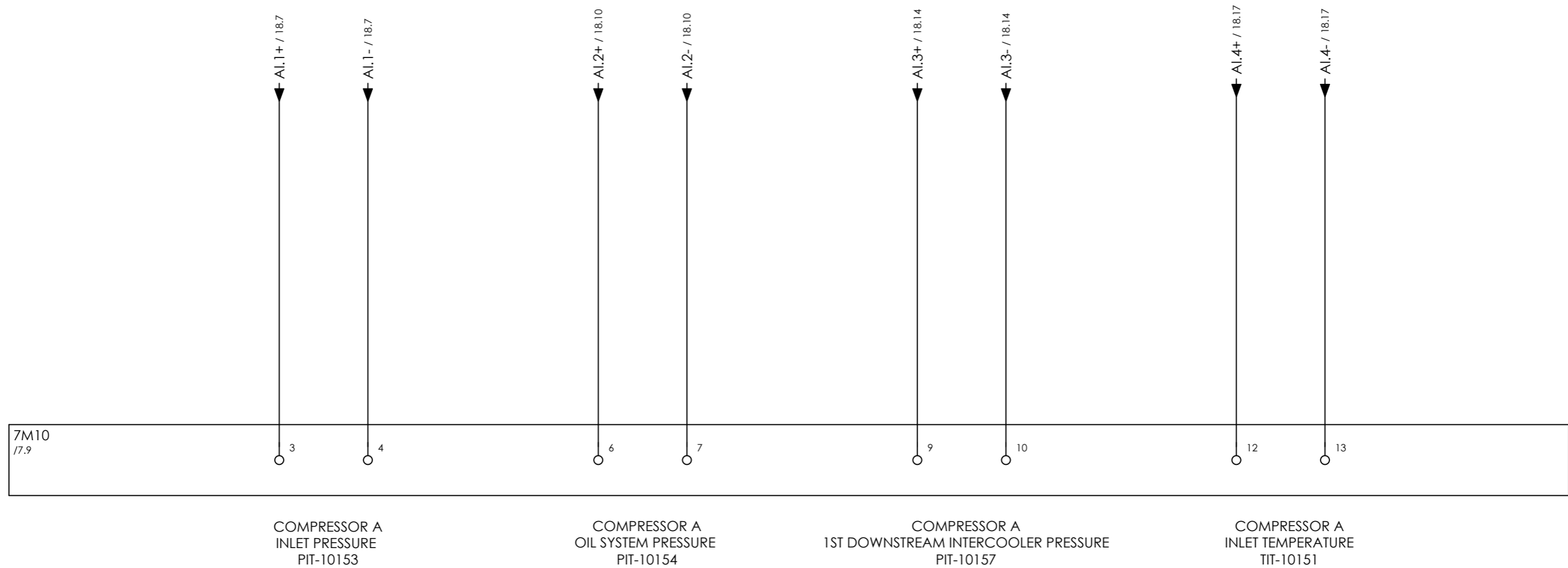


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	52

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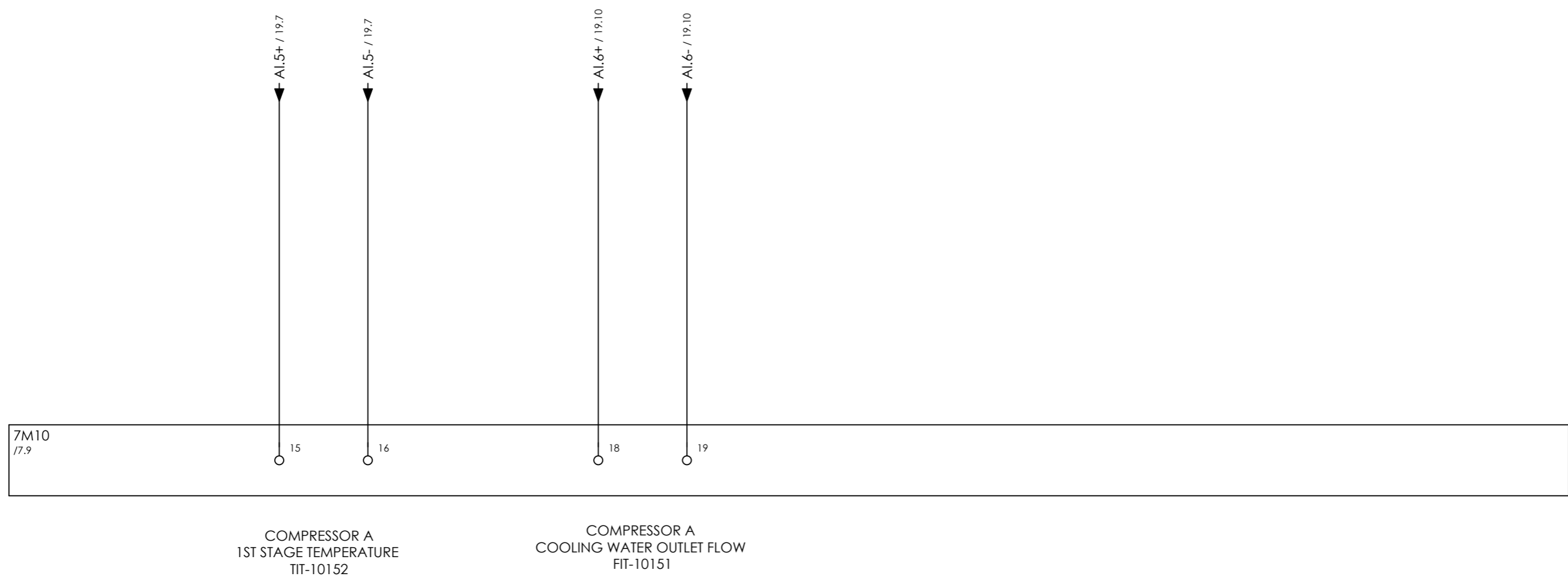


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M10]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	53

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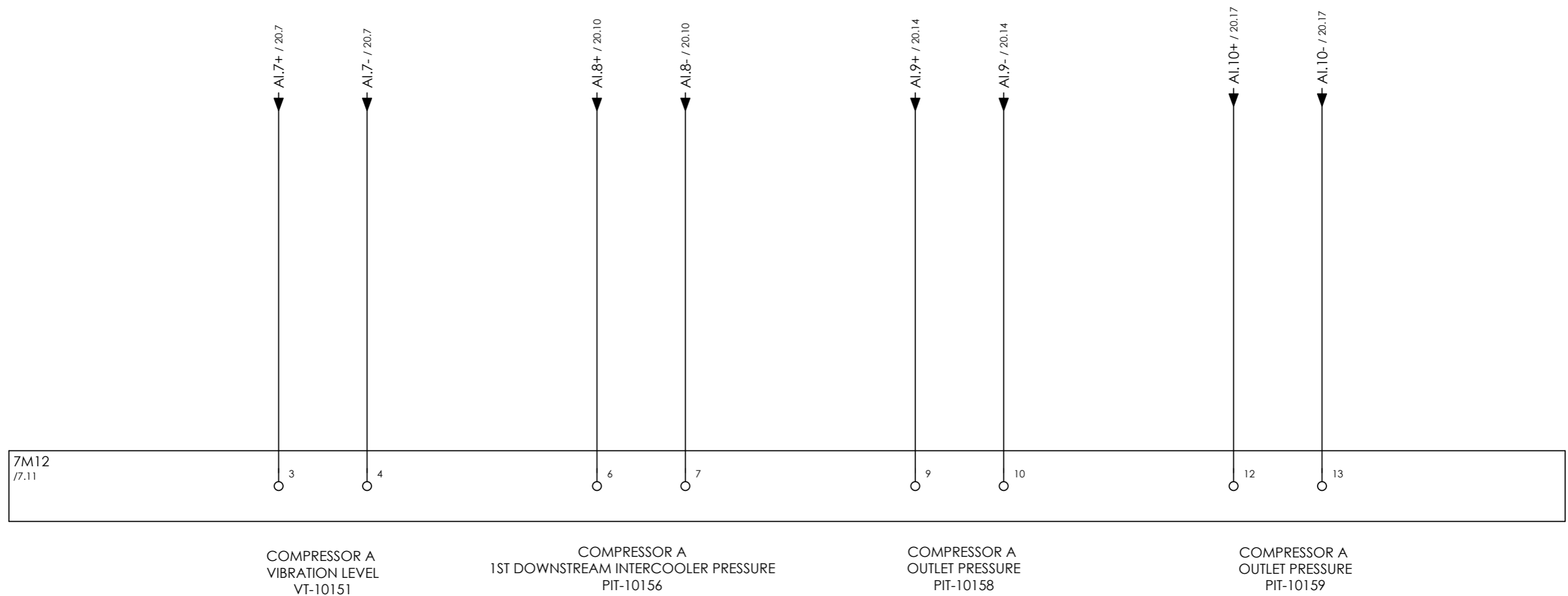


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M10]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	54

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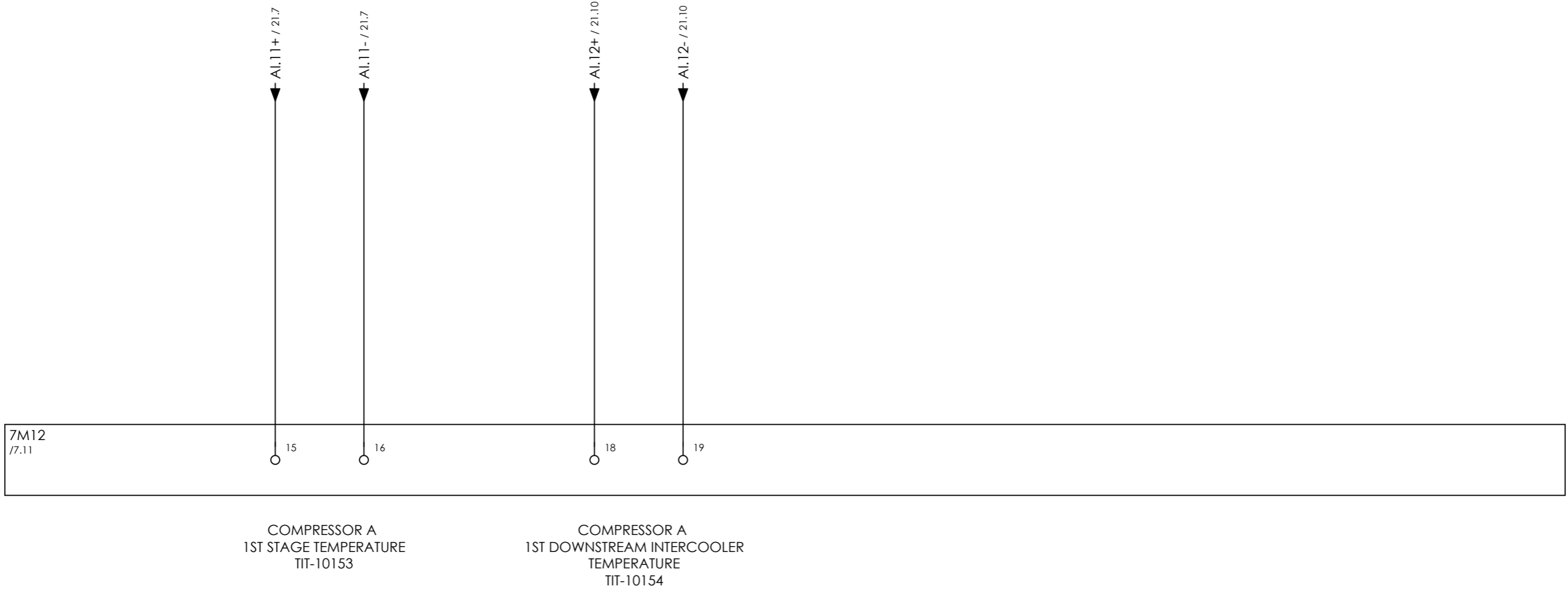


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M12]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	55

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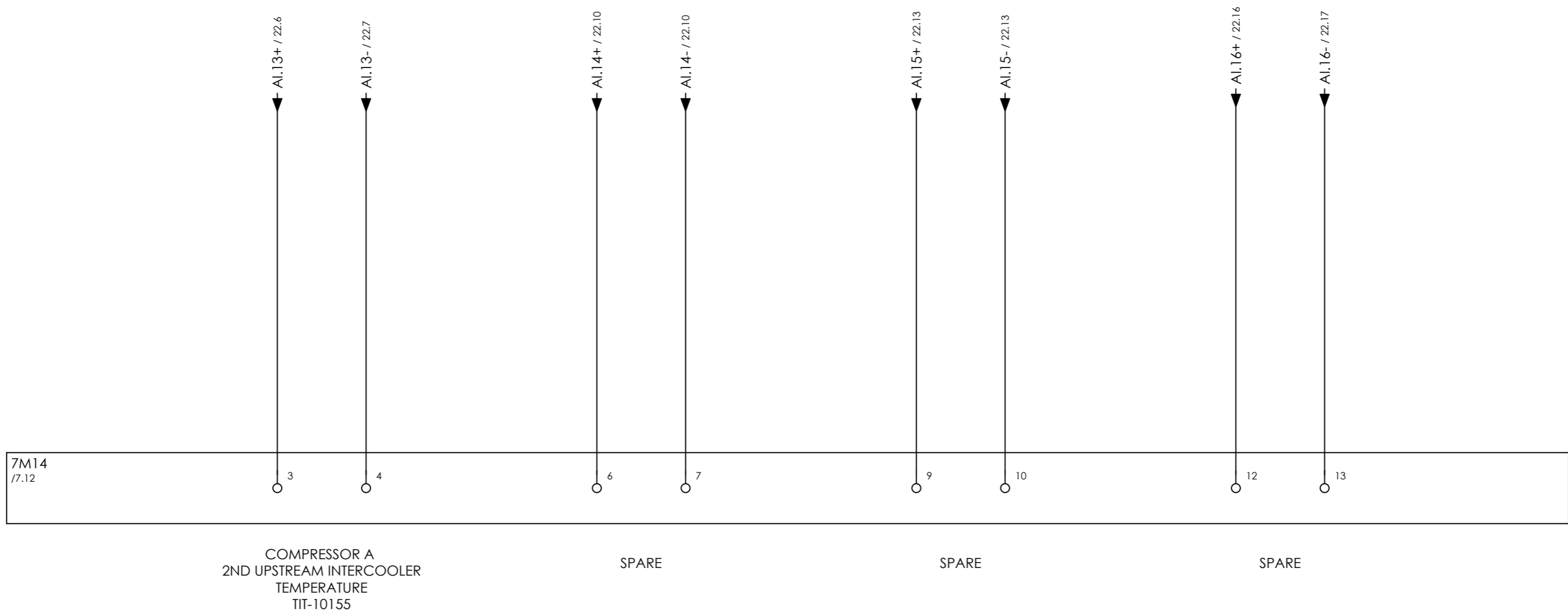


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M12]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	56

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



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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	57

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



SPARE

SPARE

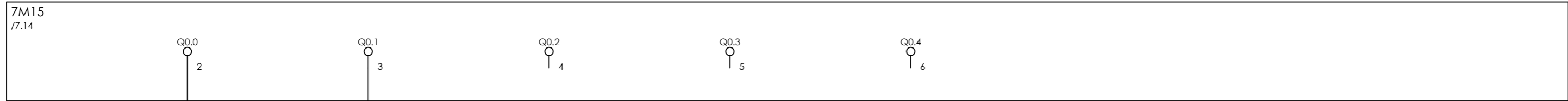


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II [7M14]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	58

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



ESD RELAY 01

ESD RELAY 02

SPARE

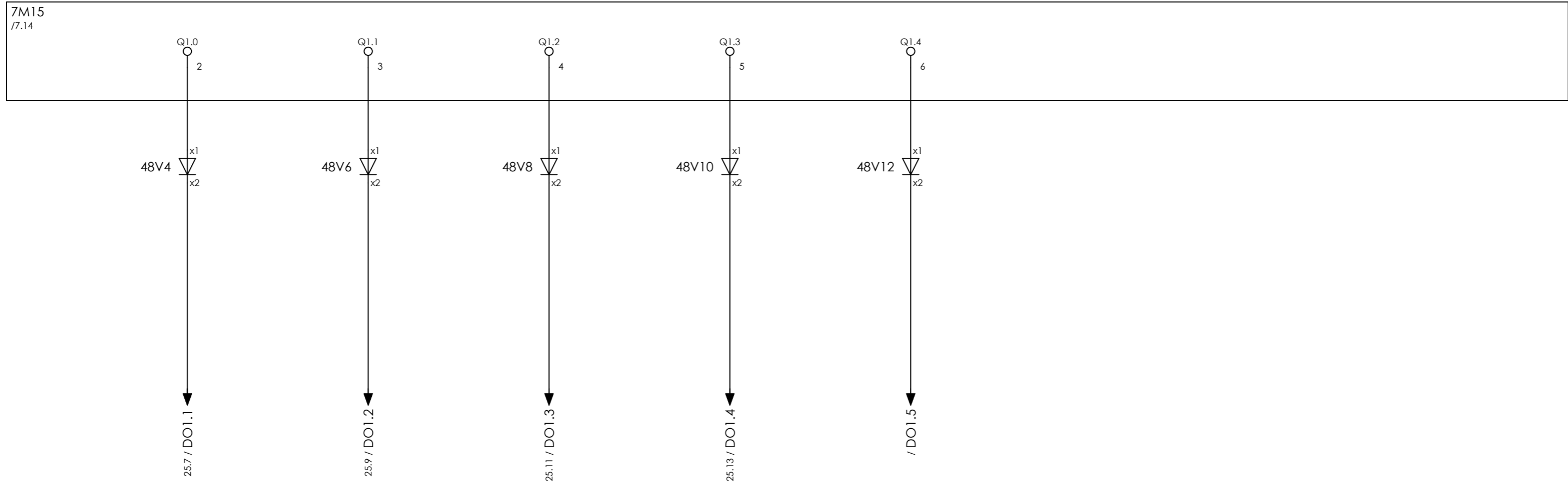
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SPARE



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 OUTPUTS II [7M15]		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	59	



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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	60

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



COMPRESSOR A  
OPERATIONAL  
XL-10151

COMPRESSOR A  
RUNNING  
XL-10152

COMPRESSOR A  
COMMON ALARM  
XL-10153

COMPRESSOR A  
COMMON TRIP  
XL-10154

SPARE

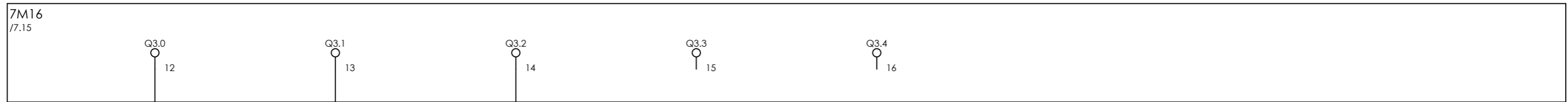


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	61

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



SPARE

SPARE

COMPRESSOR A  
FORCED SHUTDOWN  
HS-10121-SD

SPARE

SPARE



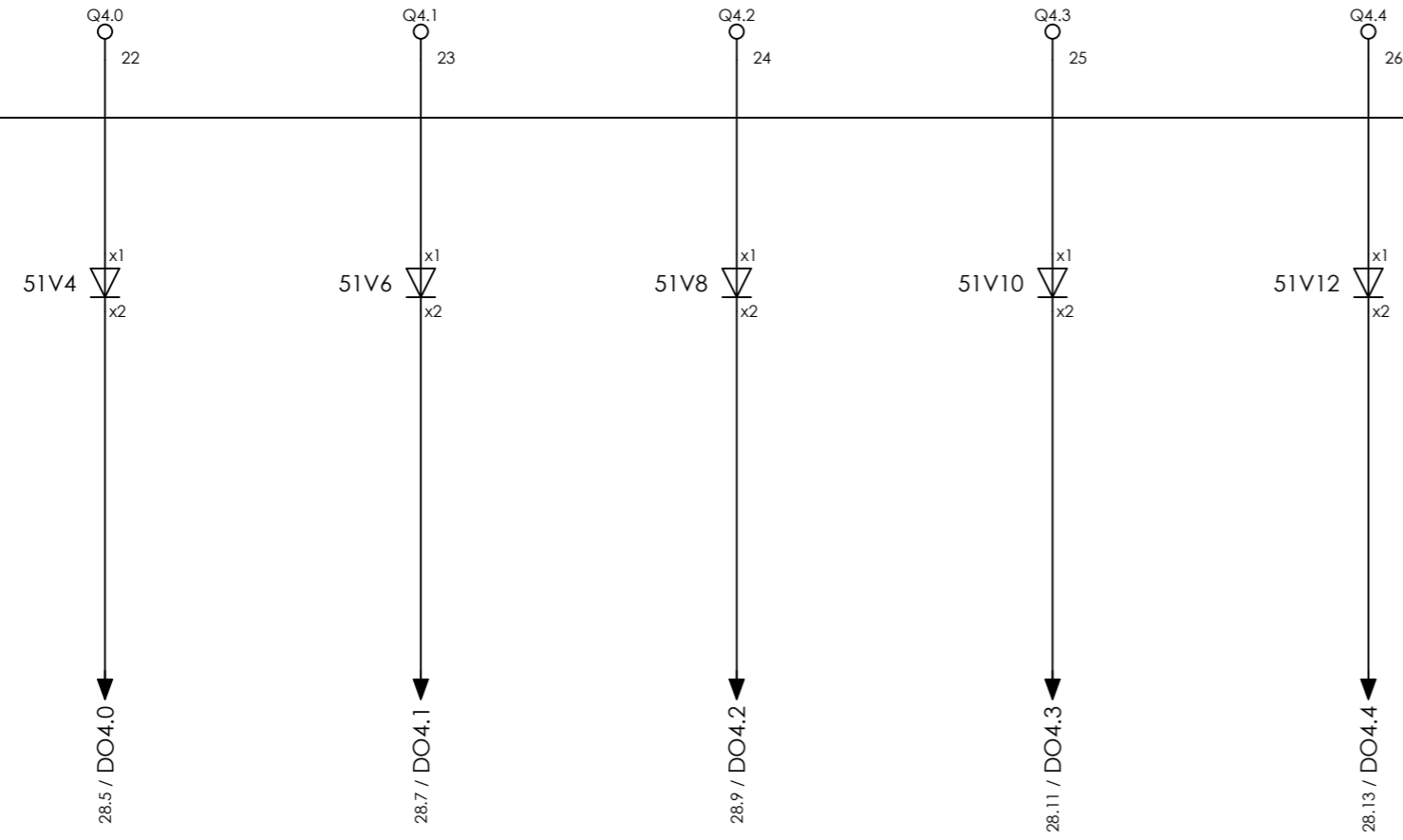
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	62

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

7M18  
/7.17



COMPRESSOR A  
SOLENOID VALVE  
XY-10151

COMPRESSOR A  
SOLENOID VALVE  
XY-10152

SPARE

SPARE

PID CONTROL  
ACTIVE  
XS-10128-PID



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 [7M18]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	63

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

7M18  
/7.17

Q5.0  
22

Q5.1  
23

Q5.2  
24

Q5.3  
25

Q5.4  
26

SPARE

SPARE

SPARE

SPARE

SPARE



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

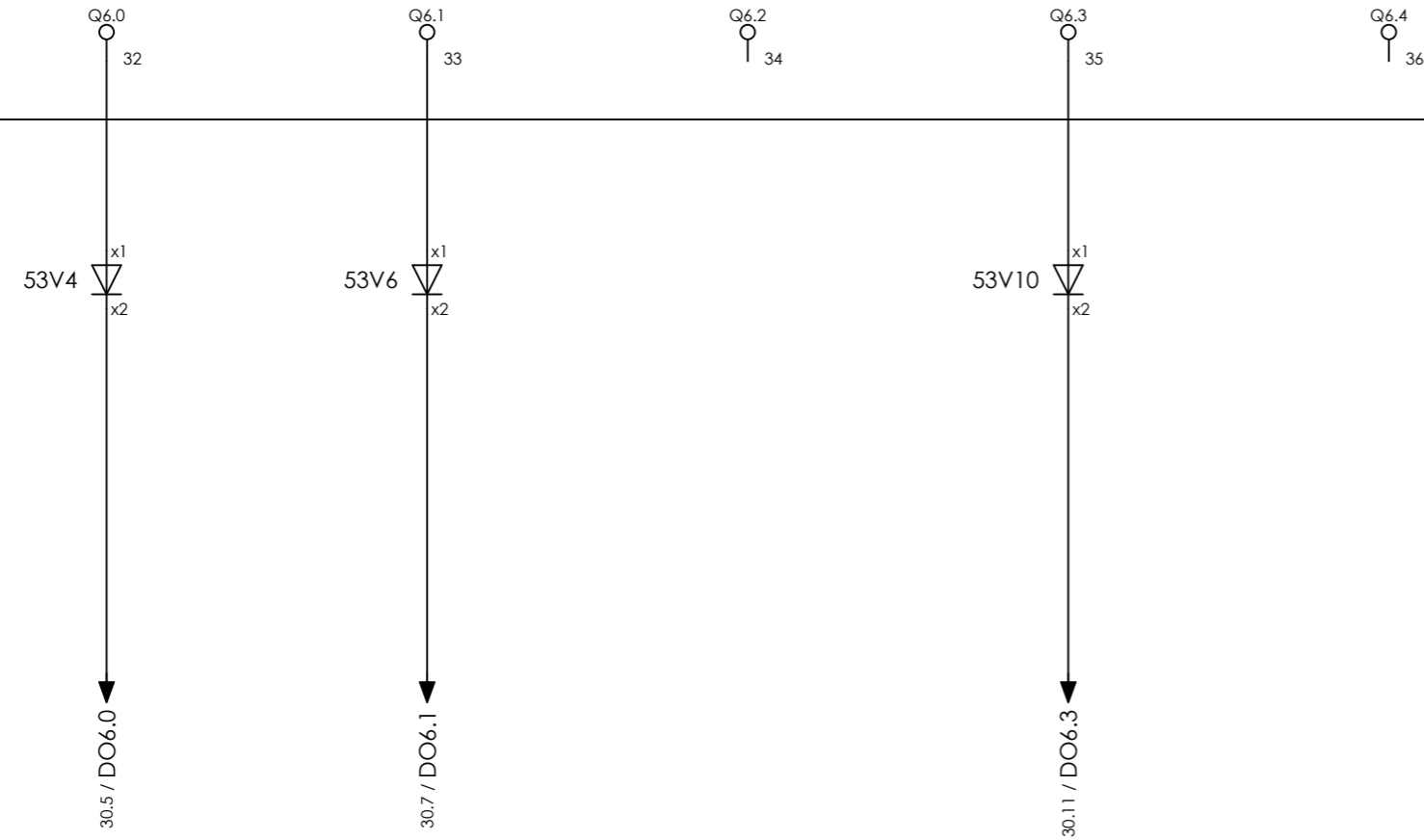
SUBJECT DIGITAL OUTPUTS II [7M18]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	64

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

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7M19  
/7.18



COMPRESSOR A  
MAIN MOTOR 20-M-1002  
START/STOP  
XS-10122-ST/SP

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF  
XS-10123-ST/SP

SPARE

S/D STATUS  
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 DIGITAL OUTPUTS II [7M19]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	65

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

7M19  
/7.18

Q7.0  
32

Q7.1  
33

Q7.2  
34

Q7.3  
35

Q7.4  
36

SPARE

SPARE

SPARE

SPARE

SPARE

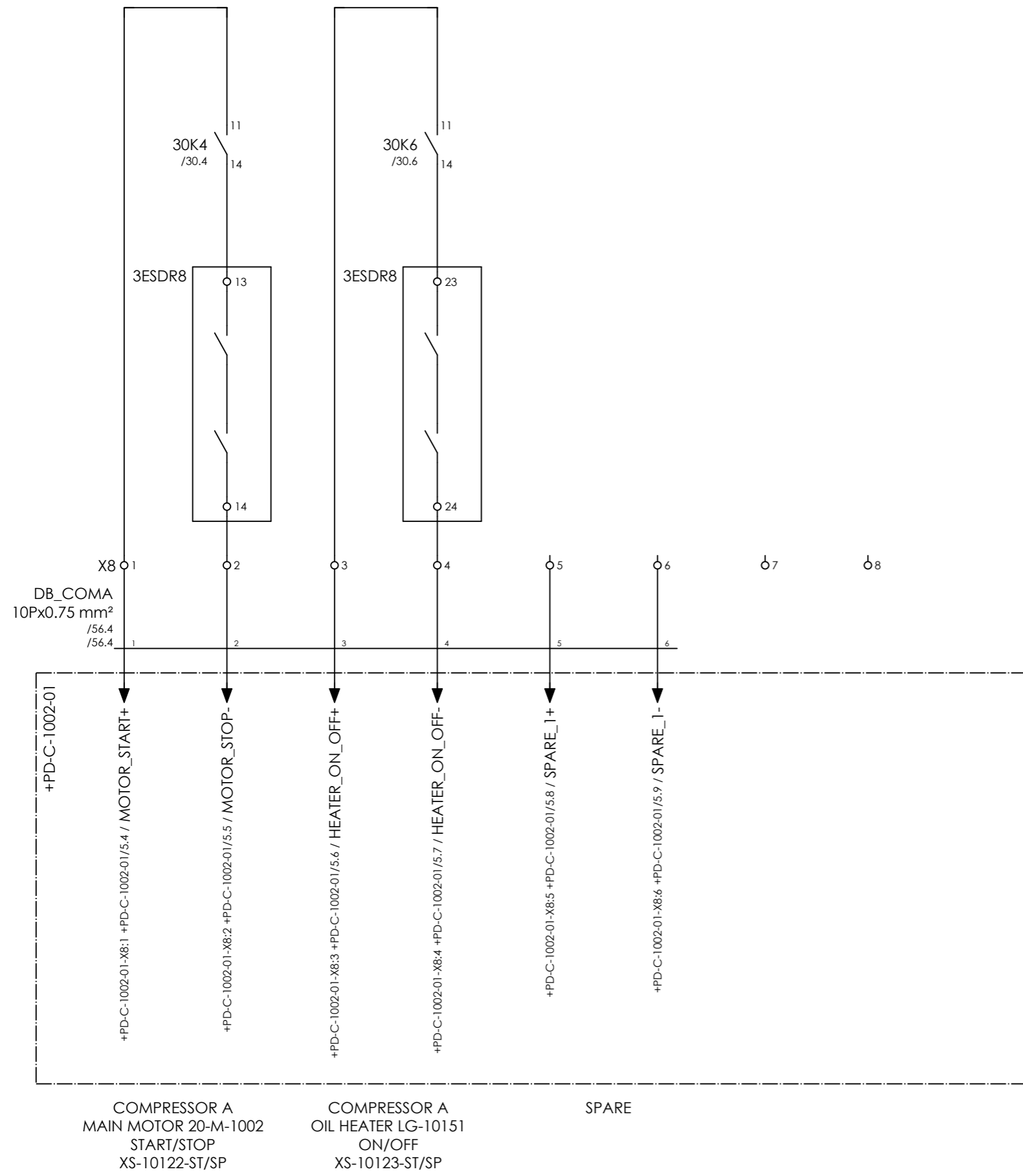


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS II [7M19]	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	66

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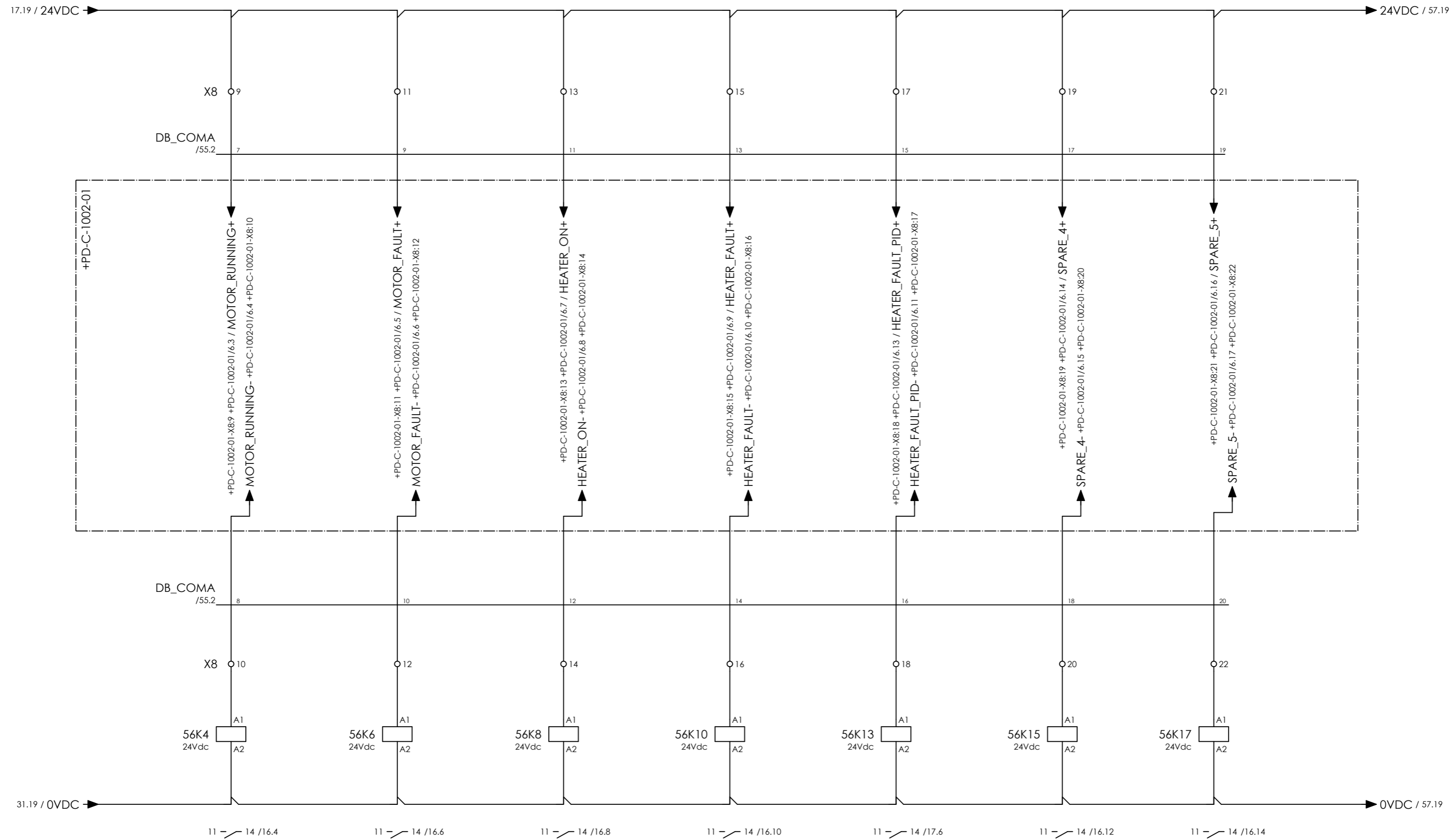


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SIGNALS TO DISTRIBUTION BOARD	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	67

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



COMPRESSOR A MAIN MOTOR 20-C-1002-M RUNNING XL-10124  
 COMPRESSOR A MAIN MOTOR 20-C-1002-M FAULT YAL-10125  
 COMPRESSOR A OIL HEATER LG-10151 RUNNING XL-10126  
 COMPRESSOR A OIL HEATER LG-10151 FAULT YAL-10127  
 OIL HEATER PID LG-10151 FAULT YAL-10130-PID  
 SPARE  
 SPARE

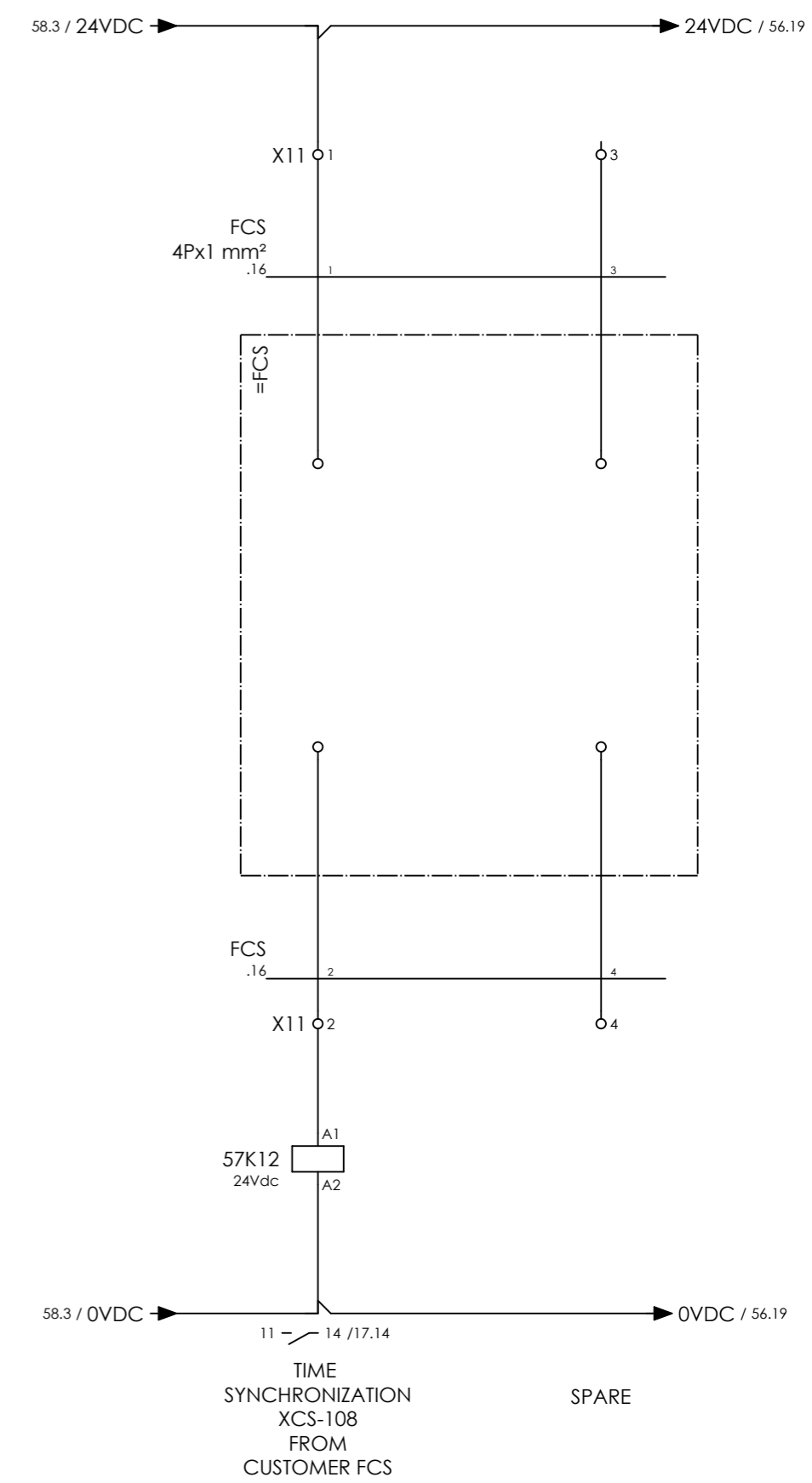
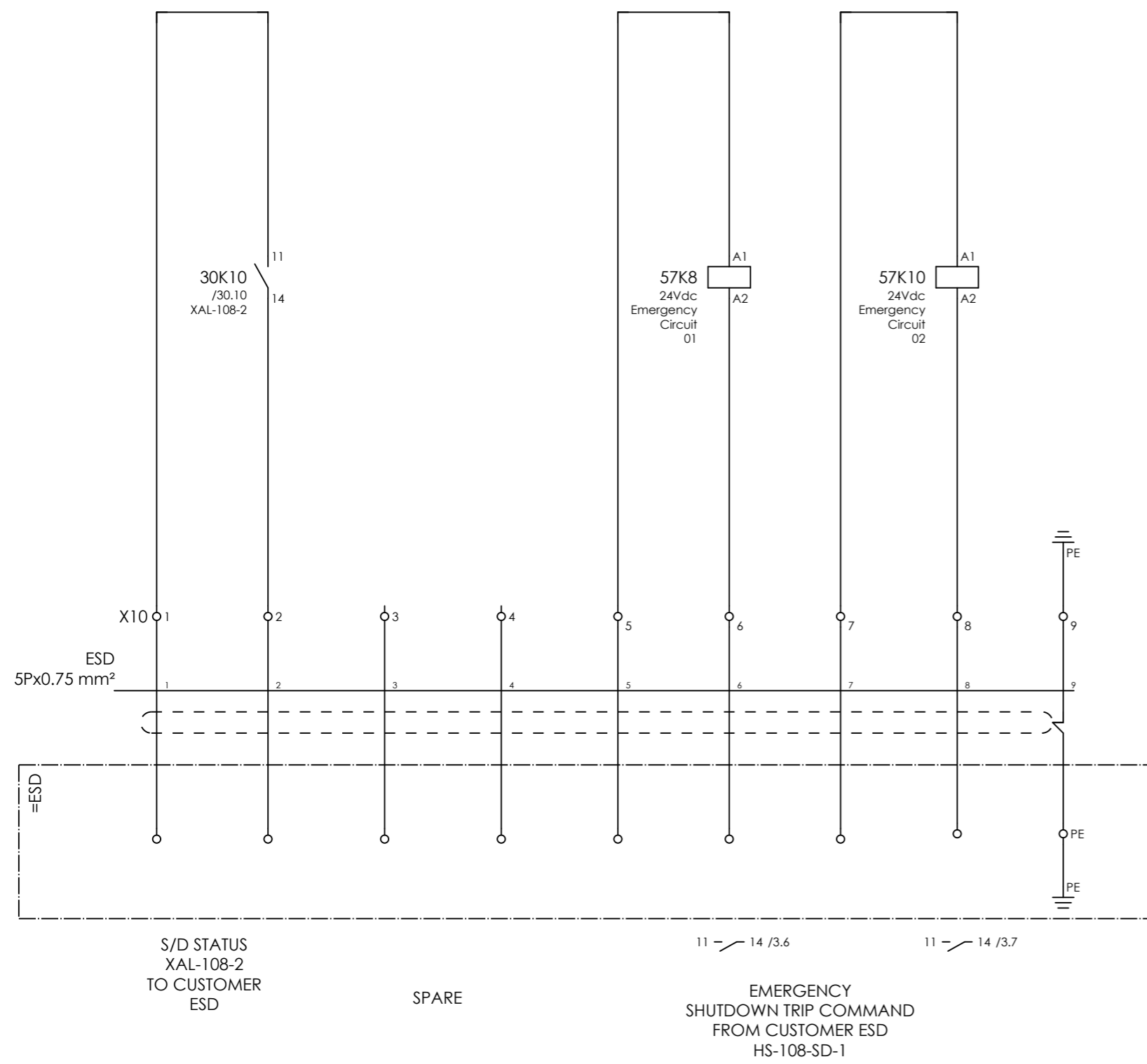


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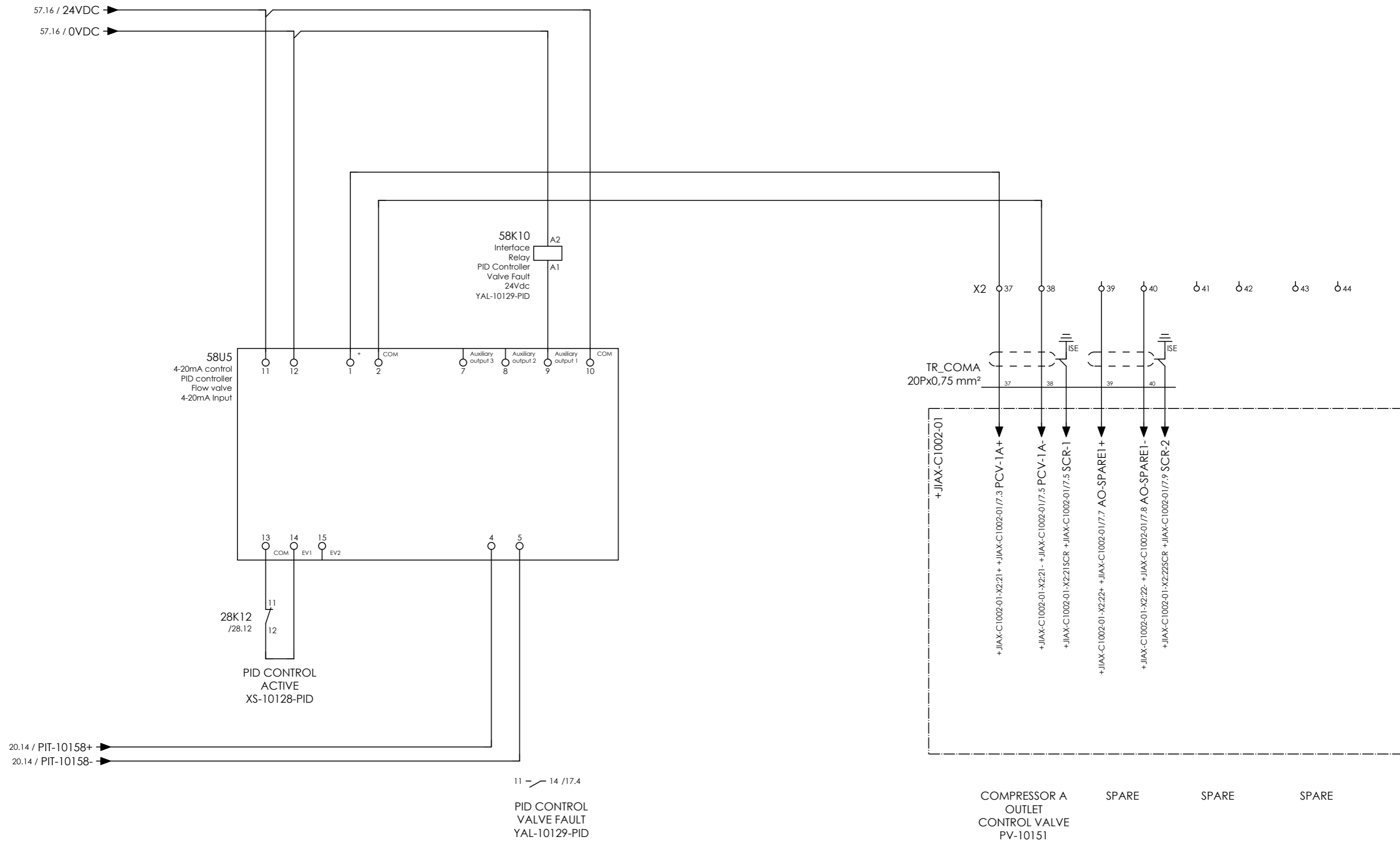
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	SIGNALS FROM DISTRIBUTION BOARD
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	05
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
		CLIENT REF.	Bushehr MEG Plant Project
		AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	68

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



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	SIGNALS TO ESD AND FROM FCS		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	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	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	69	



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

SUBJECT PID CONTROL FLOW VALVE	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	70

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



# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X1 SOLENOIDS										Cable name	
Terminal	Connection point	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point
1	1+	+JNDX-C1002-01-X1	1+	1+			1+	1+					
2	1-	+JNDX-C1002-01-X1	1-	1-	•		1-	1-	•				
3	2+	+JNDX-C1002-01-X1	2+	2+	•		2+	2+	•				
4	2-	+JNDX-C1002-01-X1	2-	2-	•		2-	2-	•				
5	3+	+JNDX-C1002-01-X1	3+	3+	•		3+	3+	•				
6	3-	+JNDX-C1002-01-X1	3-	3-	•		3-	3-	•				
7	4+	+JNDX-C1002-01-X1	4+	4+	•		4+	4+	•				
8	4-	+JNDX-C1002-01-X1	4-	4-	•		4-	4-	•				
9	5+	+JNDX-C1002-01-X1	5+	5+			5+	5+					
10	5-	+JNDX-C1002-01-X1	5-	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	05
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	13-7-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	05	
TOTAL PAGE AMOUNT	72	











# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X10 SIGNALS TO ESD						Cable name	
Terminal	Connection point	Target designation	Jumper	Terminal	Connection point	Target designation	Terminal	Connection point	
1	-30K10	XAL-108-2	.	1			1	5Px0.75 mm <sup>2</sup> mm <sup>2</sup>	
2	-30K10	XAL-108-2	.	2			2		
3			.	3			3		
4			.	4			4		
5	-57K8	24Vdc Emergency Circuit 01		5			5		
6	-57K8	24Vdc Emergency Circuit 01		6			6		
7	-57K10	24Vdc Emergency Circuit 02		7			7		
8	-57K10	24Vdc Emergency Circuit 02		8			8		
9	PE	PE		9	PE		9		



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-X10  
 ADAPTED TO P&ID REVISION 05  
 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 13-7-2022  
 AIRPACK DWG NO. 17811-05  
 REVISION 05  
 TOTAL PAGE AMOUNT 78

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



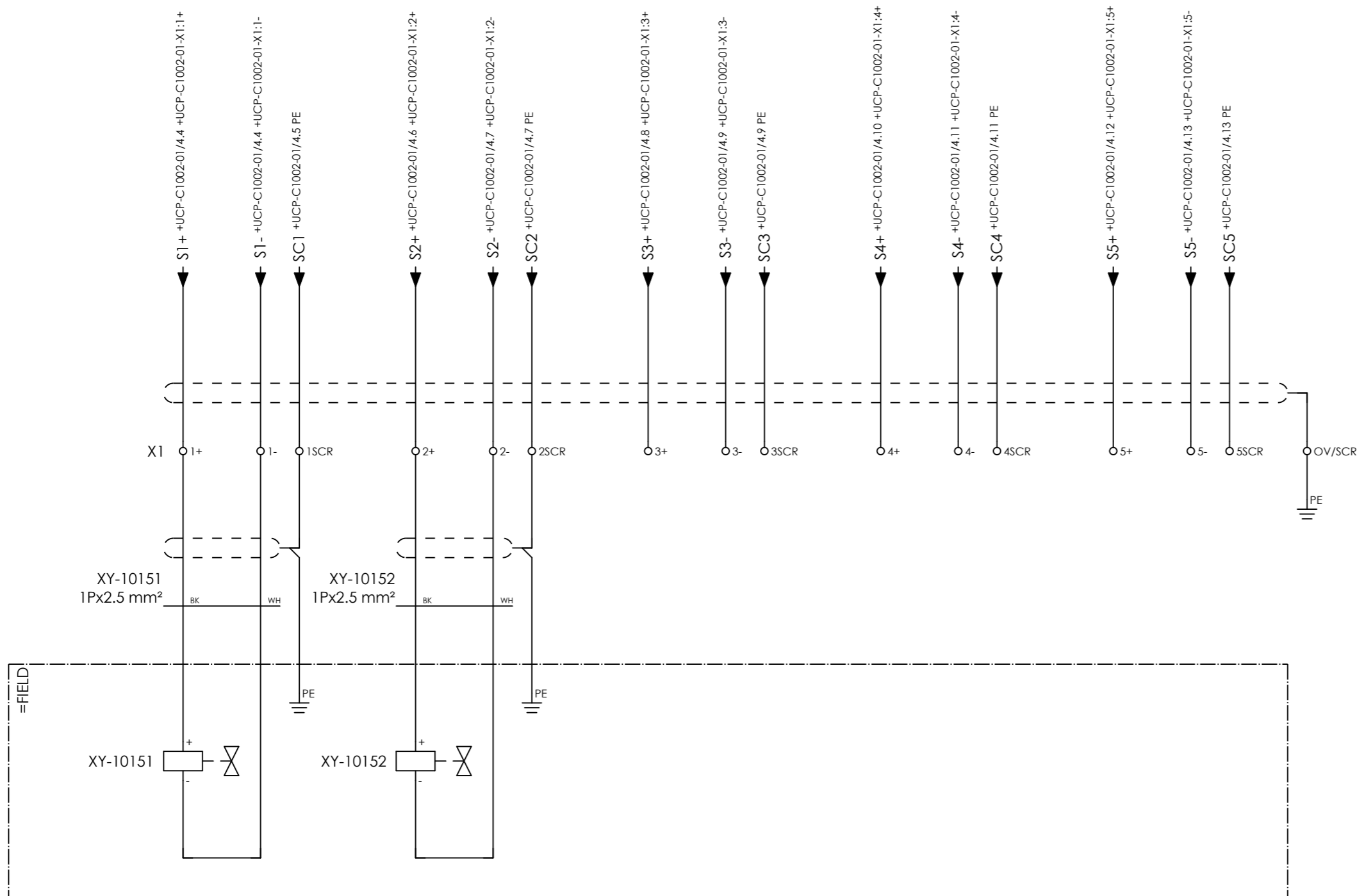
TERMINAL STRIP DEFINITION

JUNCTION BOX  
JNDX-C1002-01

X1 = CONNECTION SOLENOIDS



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ JNDX-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	80	



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-
=FIELD-XY-10152	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 05  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 LAST MODIFICATION DATE 13-7-2022  
 AIRPACK DWG NO. 17811-05  
 REVISION 05  
 TOTAL PAGE AMOUNT 82

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

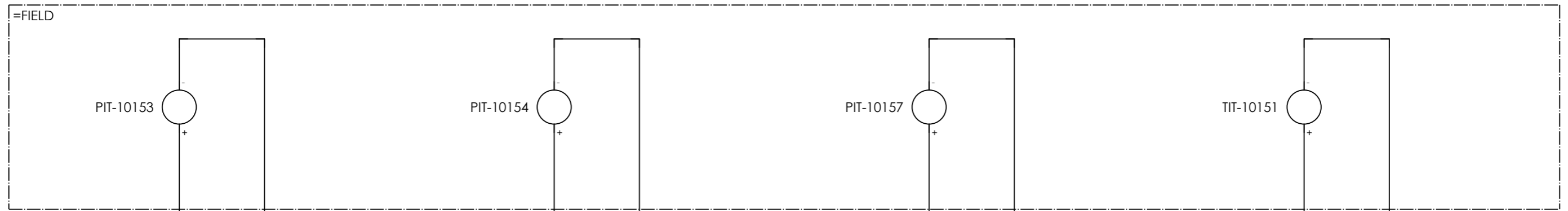
# JUNCTION BOX JIAX-C1002-01

## TERMINAL STRIP DEFINITION

X2 = CONNECTION TRANSMITTERS AND CONTROL VALVE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ JIAX-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	83	



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

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

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

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

X2 1+ 1- 1SCR

2+ 2- 2SCR

3+ 3- 3SCR

4+ 4- 4SCR

+UCP-C1002-01-X2:1 +UCP-C1002-01/18.5 / T1+  
+UCP-C1002-01-X2:2 +UCP-C1002-01/18.6 / T1-  
ISE +UCP-C1002-01/18.7 / T1SCR

+UCP-C1002-01-X2:3 +UCP-C1002-01/18.9 / T2+  
+UCP-C1002-01-X2:4 +UCP-C1002-01/18.10 / T2-  
ISE +UCP-C1002-01/18.10 / T2SCR

+UCP-C1002-01-X2:5 +UCP-C1002-01/18.12 / T3+  
+UCP-C1002-01-X2:6 +UCP-C1002-01/18.13 / T3-  
ISE +UCP-C1002-01/18.14 / T3SCR

+UCP-C1002-01-X2:7 +UCP-C1002-01/18.16 / T4+  
+UCP-C1002-01-X2:8 +UCP-C1002-01/18.16 / T4-  
ISE +UCP-C1002-01/18.17 / T4SCR

COMPRESSOR A  
INLET PRESSURE  
PIT-10153

COMPRESSOR A  
OIL SYSTEM PRESSURE  
PIT-10154

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER PRESSURE  
PIT-10157

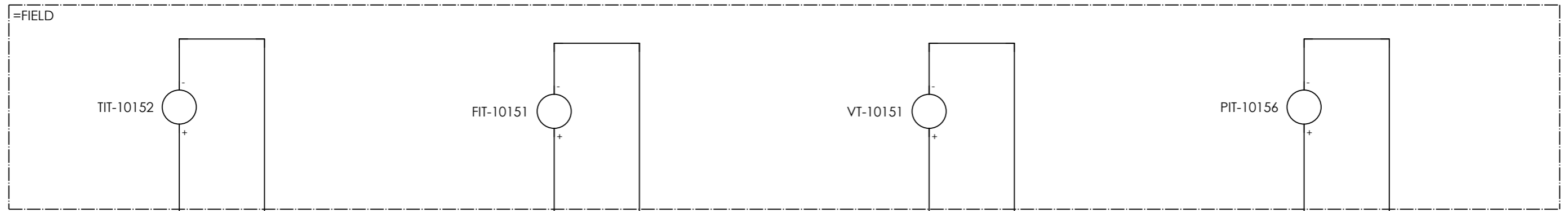
COMPRESSOR A  
INLET TEMPERATURE  
TIT-10151



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

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LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	05	
TOTAL PAGE AMOUNT	84	



TIT-10152  
1Px1.5 mm<sup>2</sup>  
BK WH

X2 5+ 5- 5SCR

+UCP-C1002-01-X2:9 +UCP-C1002-01/19.5 / T5+  
+UCP-C1002-01-X2:10 +UCP-C1002-01/19.6 / T5-  
ISE +UCP-C1002-01/19.7 / T5SCR

COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10152

FIT-10151  
1Px1.5 mm<sup>2</sup>  
BK WH

6+ 6- 6SCR

+UCP-C1002-01-X2:11 +UCP-C1002-01/19.9 / T6+  
+UCP-C1002-01-X2:12 +UCP-C1002-01/19.10 / T6-  
ISE +UCP-C1002-01/19.10 / T6SCR

COMPRESSOR A  
COOLING WATER OUTLET FLOW  
FIT-10151

VT-10151  
1Px1.5 mm<sup>2</sup>  
BK WH

7+ 7- 7SCR

+UCP-C1002-01-X2:13 +UCP-C1002-01/20.5 / T7+  
+UCP-C1002-01-X2:14 +UCP-C1002-01/20.6 / T7-  
ISE +UCP-C1002-01/20.7 / T7SCR

COMPRESSOR A  
VIBRATION LEVEL  
VT-10151

PIT-10156  
1Px1.5 mm<sup>2</sup>  
BK WH

8+ 8- 8SCR

+UCP-C1002-01-X2:15 +UCP-C1002-01/20.9 / T8+  
+UCP-C1002-01-X2:16 +UCP-C1002-01/20.10 / T8-  
ISE +UCP-C1002-01/20.10 / T8SCR

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER PRESSURE  
PIT-10156



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

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CHECKED BY	RBE	+ JIAX-C1002-01
LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	05	
TOTAL PAGE AMOUNT	85	



PIT-10158  
1Px1.5 mm<sup>2</sup>  
BK WH

X2 9+ 9- 9SCR

+UCP-C1002-01-X2:17 +UCP-C1002-01/20.12 / T9+  
+UCP-C1002-01-X2:18 +UCP-C1002-01/20.13 / T9-  
ISE +UCP-C1002-01/20.14 / T9SCR

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10158

PIT-10159  
1Px1.5 mm<sup>2</sup>  
BK WH

10+ 10- 10SCR

+UCP-C1002-01-X2:19 +UCP-C1002-01/20.16 / T10+  
+UCP-C1002-01-X2:20 +UCP-C1002-01/20.16 / T10-  
ISE +UCP-C1002-01/20.17 / T10SCR

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10159

TIT-10153  
1Px1.5 mm<sup>2</sup>  
BK WH

11+ 11- 11SCR

+UCP-C1002-01-X2:21 +UCP-C1002-01/21.5 / T11+  
+UCP-C1002-01-X2:22 +UCP-C1002-01/21.6 / T11-  
ISE +UCP-C1002-01/21.7 / T11SCR

COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10153

TIT-10154  
1Px1.5 mm<sup>2</sup>  
BK WH

12+ 12- 12SCR

+UCP-C1002-01-X2:23 +UCP-C1002-01/21.9 / T12+  
+UCP-C1002-01-X2:24 +UCP-C1002-01/21.10 / T12-  
ISE +UCP-C1002-01/21.10 / T12SCR

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10154



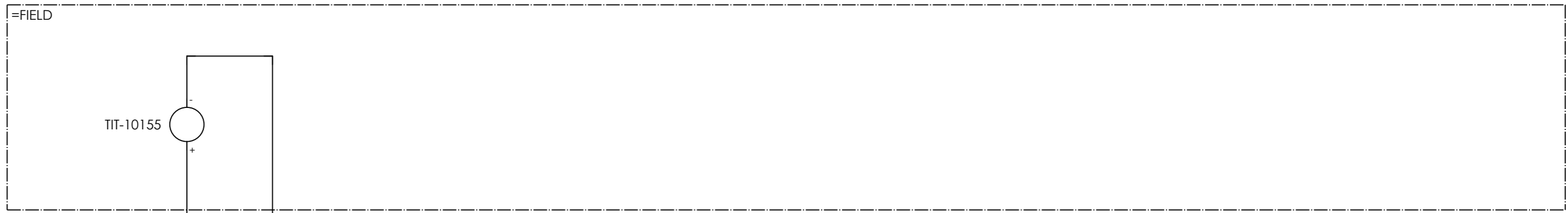
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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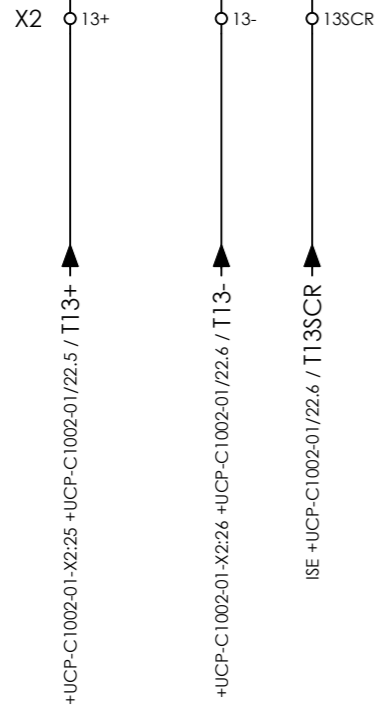
SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	86

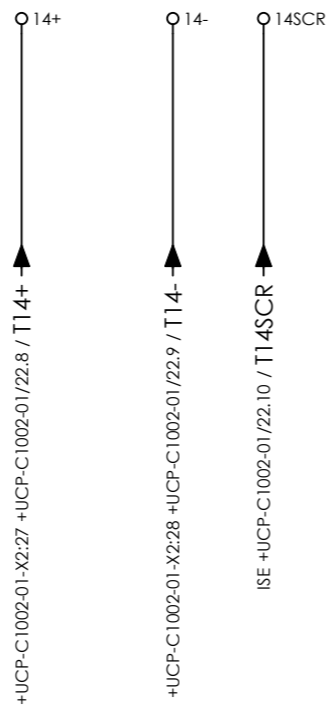
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+ JIAX-C1002-01
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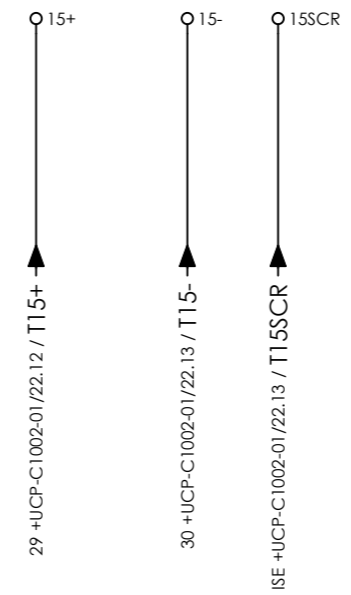
TIT-10155  
1Px1.5 mm<sup>2</sup>  
BK WH



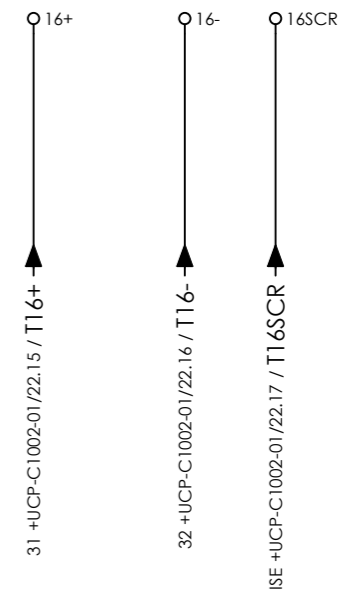
COMPRESSOR A  
2ND UPSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10155



SPARE



SPARE



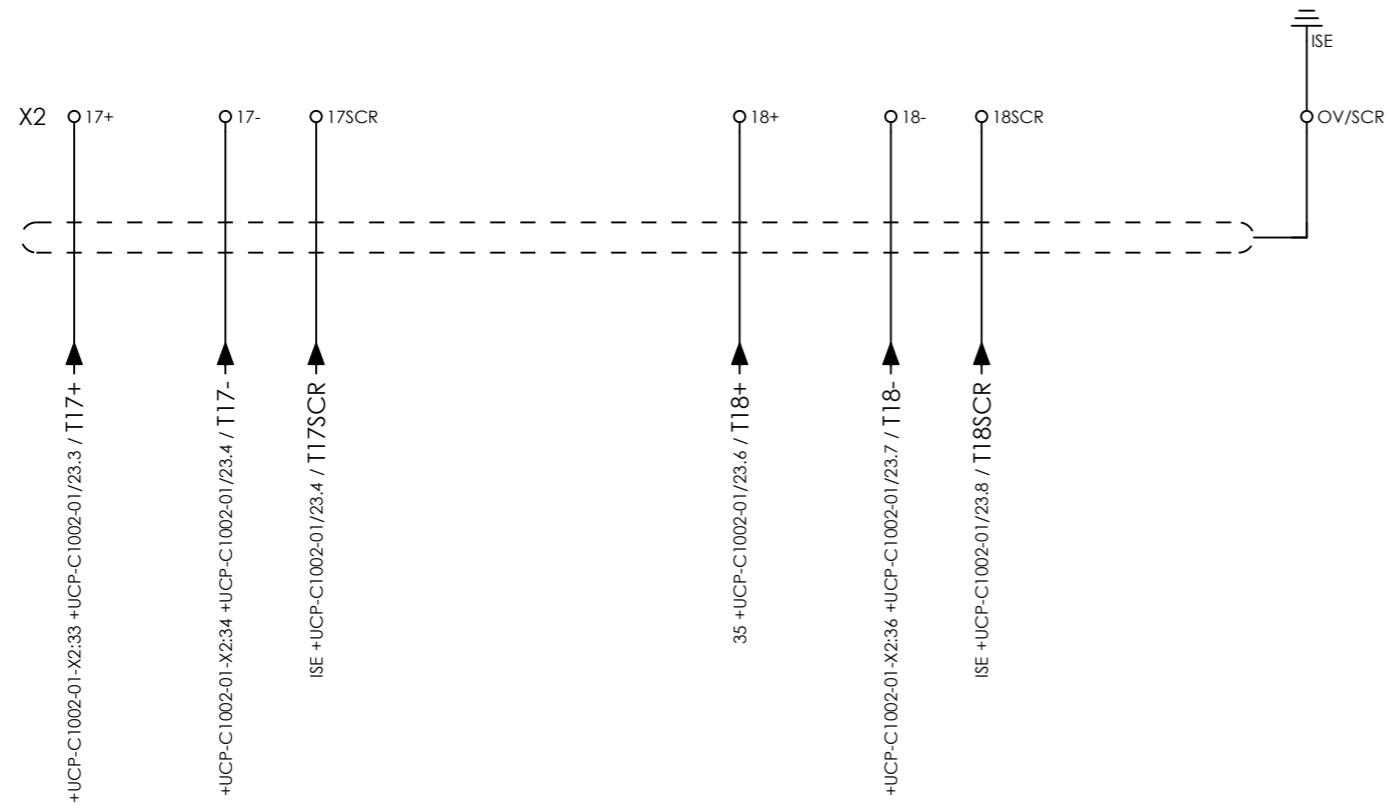
SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	05		
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	05	
TOTAL PAGE AMOUNT	87	



SPARE

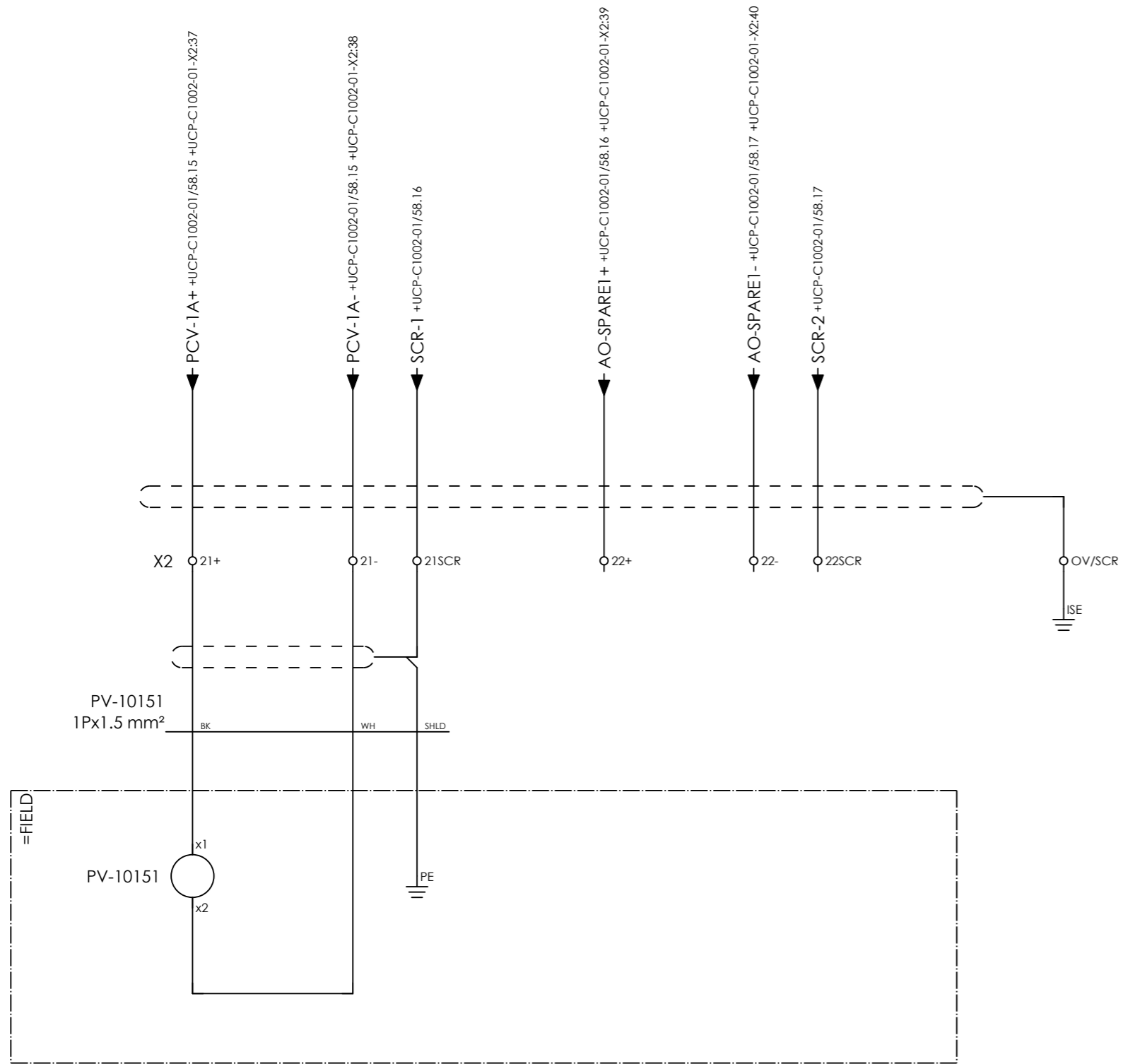
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	05		
CLIENT	Bushehr Petrochemical Company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

DRAWN BY	MaGo	= 20-C-1002
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LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	05	
TOTAL PAGE AMOUNT	88	



COMPRESSOR A  
OUTLET  
CONTROL VALVE  
PV-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 CONNECTION CONTROL VALVE	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	89

= 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



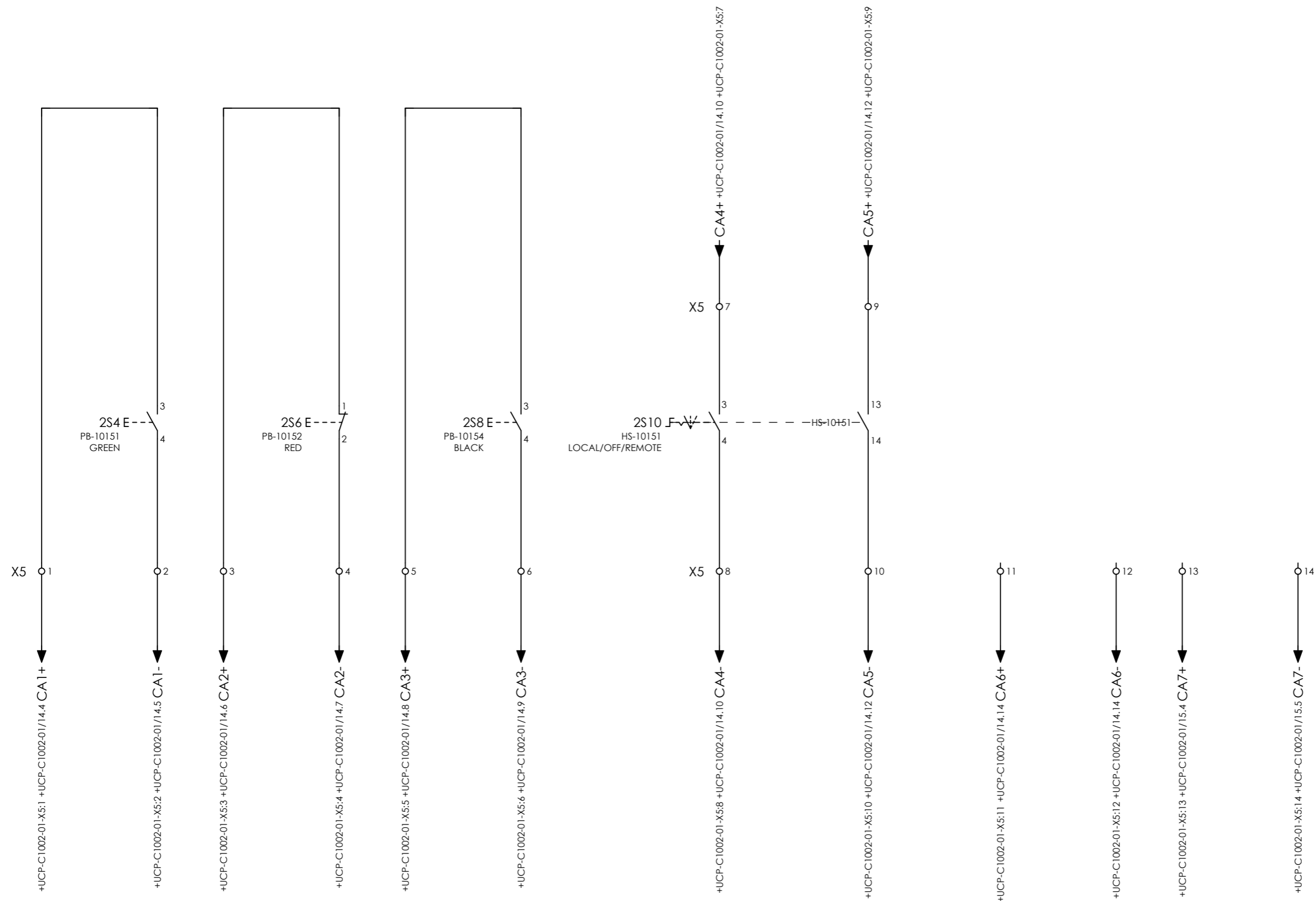
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	05
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	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	93

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

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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



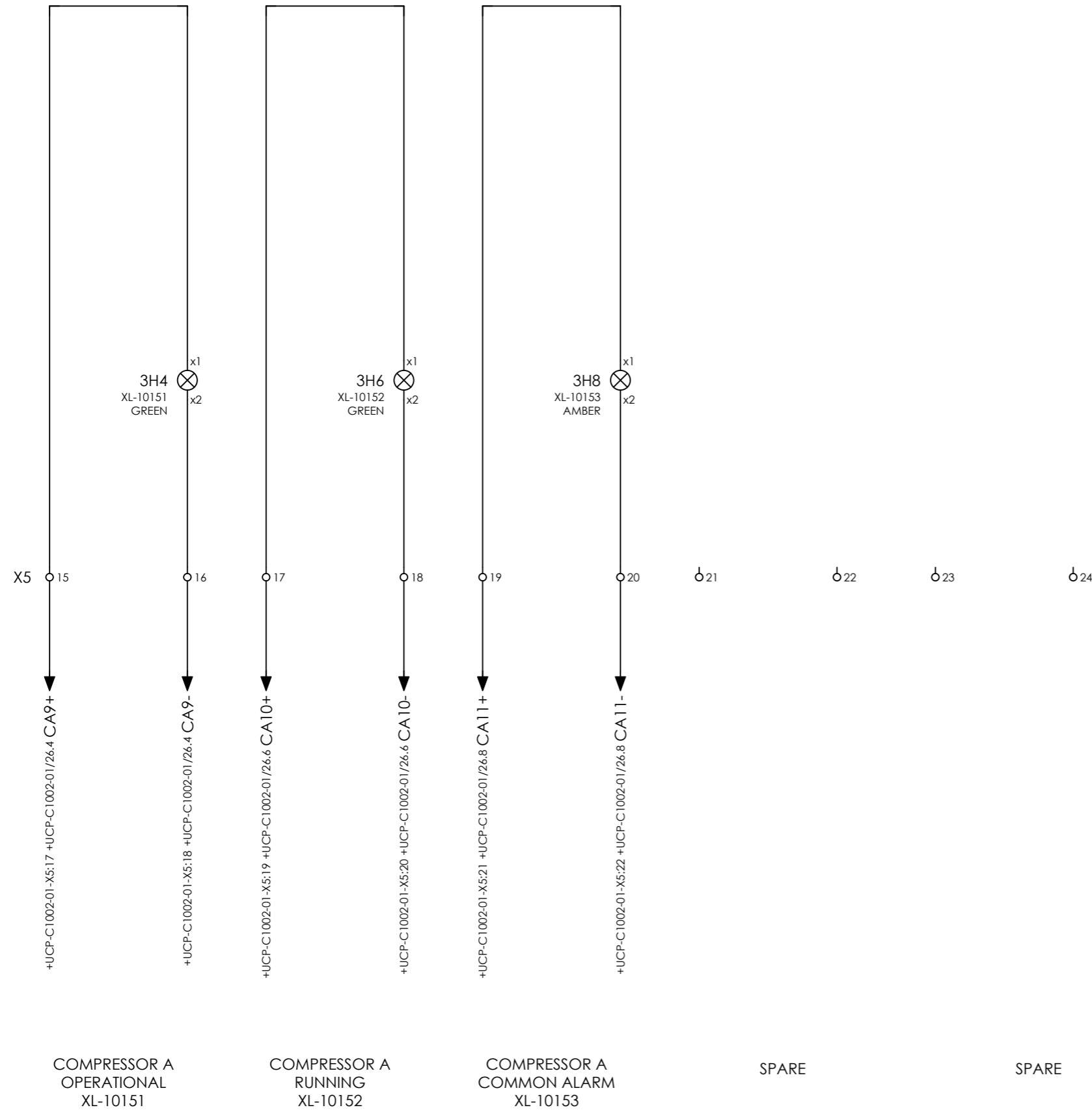
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	94

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+ LP-C1002-01
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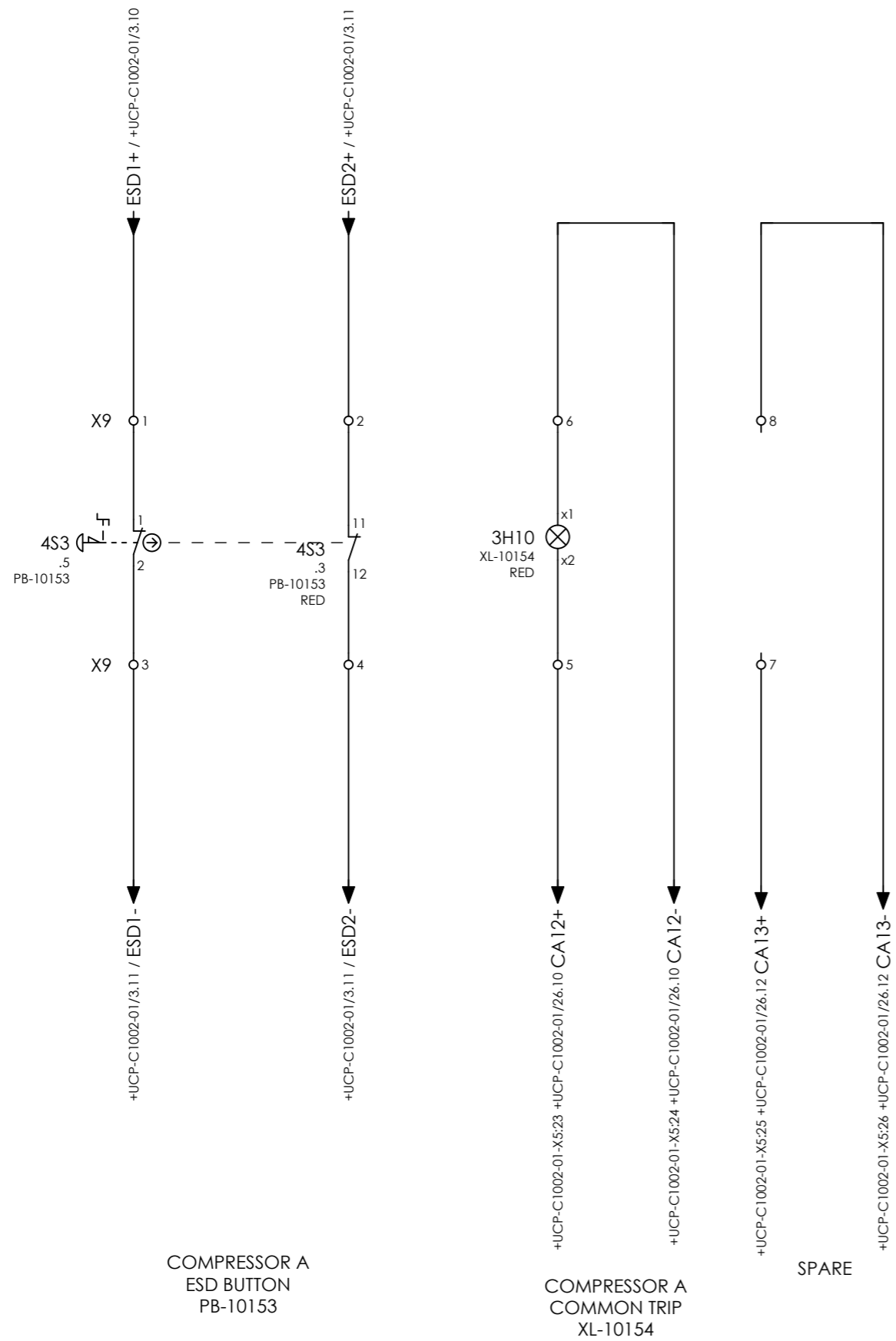


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

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

DRAWN BY	MaGo
CHECKED BY	RBE
LAST MODIFICATION DATE	13-7-2022
AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	95

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



COMPRESSOR A  
ESD BUTTON  
PB-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
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT		DRAWN BY		MaGo		= 20-C-1002	
CONNECTION ESD BUTTON		CHECKED BY		RBE		+ LP-C1002-01	
ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE		13-7-2022		CURRENT PAGE	
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.		17811-05			
CLIENT REF.	Bushehr MEG Plant Project	REVISION		05			
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT		96			

# 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	1	1	.	PB-10151	3	
+UCP-C1002-01-X5	2	2	.	-2S4	2	2	.	PB-10151	4	
+UCP-C1002-01-X5	3	3	.	-2S6	3	3	.	PB-10152	1	
+UCP-C1002-01-X5	4	4	.	-2S6	4	4	.	PB-10152	2	
+UCP-C1002-01-X5	5	5	.	-2S8	5	5	.	PB-10154	3	
+UCP-C1002-01-X5	6	6	.	-2S8	6	6	.	PB-10154	4	
-2S10	3	7	.	+UCP-C1002-01-X5	3	7	.	+UCP-C1002-01-X5	7	
+UCP-C1002-01-X5	8	8	.	-2S10	8	8	.	HS-10151	4	
-2S10	13	9	.	+UCP-C1002-01-X5	13	9	.	+UCP-C1002-01-X5	9	
+UCP-C1002-01-X5	10	10	.	-2S10	10	10	.	HS-10151	14	
+UCP-C1002-01-X5	11	11	.		11	11	.			
+UCP-C1002-01-X5	12	12	.		12	12	.			
+UCP-C1002-01-X5	13	13	.		13	13	.			
+UCP-C1002-01-X5	14	14	.		14	14	.			
+UCP-C1002-01-X5	17	15	.	-3H4	17	15	.	XL-10151	x1	
+UCP-C1002-01-X5	18	16	.	-3H4	18	16	.	XL-10151	x2	
+UCP-C1002-01-X5	19	17	.	-3H6	19	17	.	XL-10152	x1	
+UCP-C1002-01-X5	20	18	.	-3H6	20	18	.	XL-10152	x2	
+UCP-C1002-01-X5	21	19	.	-3H8	21	19	.	XL-10153	x1	
+UCP-C1002-01-X5	22	20	.	-3H8	22	20	.	XL-10153	x2	
		21	.			21	.			
		22	.			22	.			
		23	.			23	.			
		24	.			24	.			



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+LP-C1002-01-X5  
 ADAPTED TO P&ID REVISION 05  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

DRAWN BY MaGo  
 CHECKED BY RBE  
 LAST MODIFICATION DATE 13-7-2022  
 AIRPACK DWG NO. 17811-05  
 REVISION 05  
 TOTAL PAGE AMOUNT 97

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 + LP-C1002-01  
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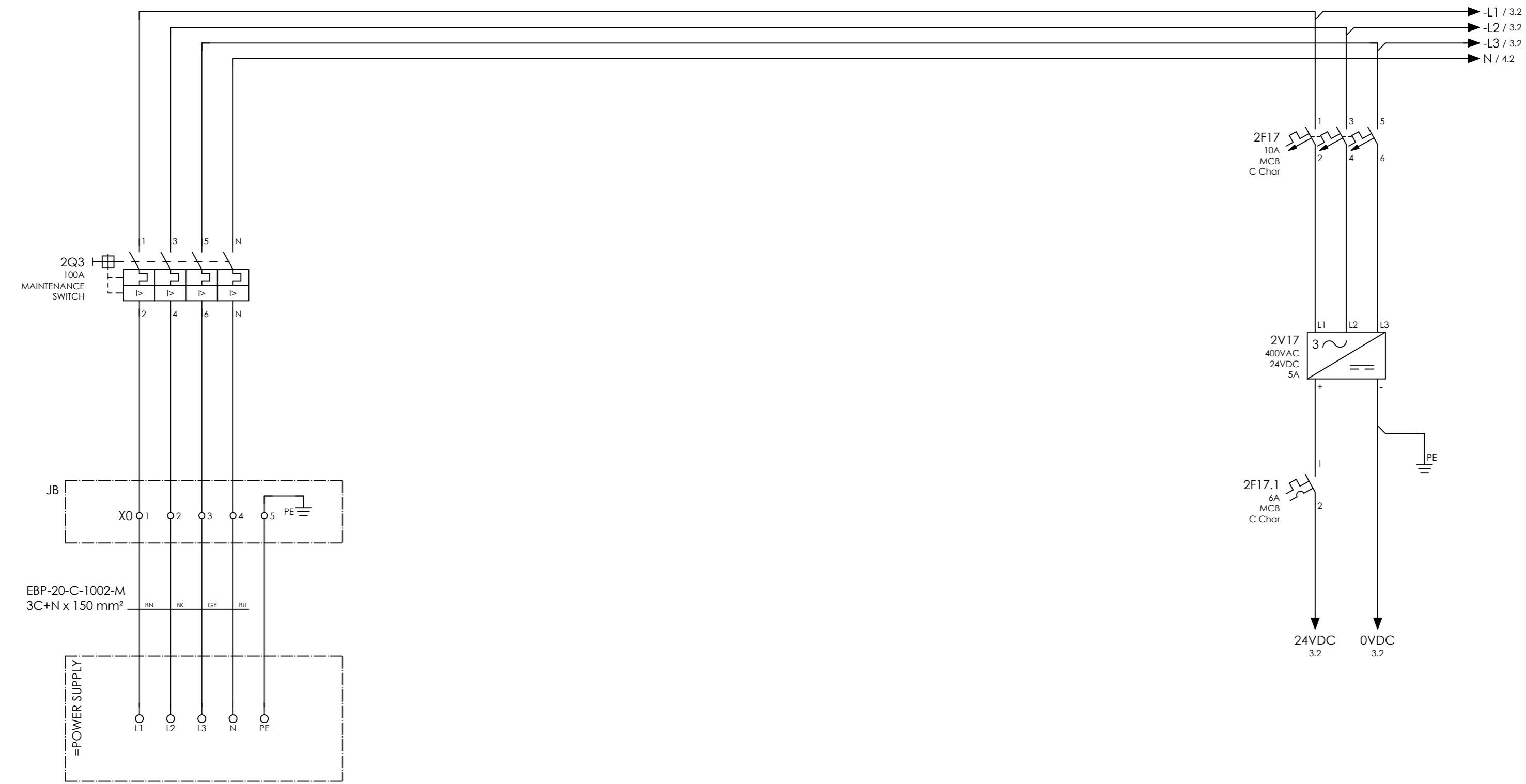
# POWER DISTRIBUTION BOARD PD-C-1002-01

## 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.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	MaGo	= 20-C-1002
EQUIPMENT NO.	20-C-1002	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ PD-C-1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	05	LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	05	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	99	



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

From: SWB3B-01 (0.4KV)  
Cable Type and Size: CU/XLPE/SWA/PVC3.5\*150mm<sup>2</sup>  
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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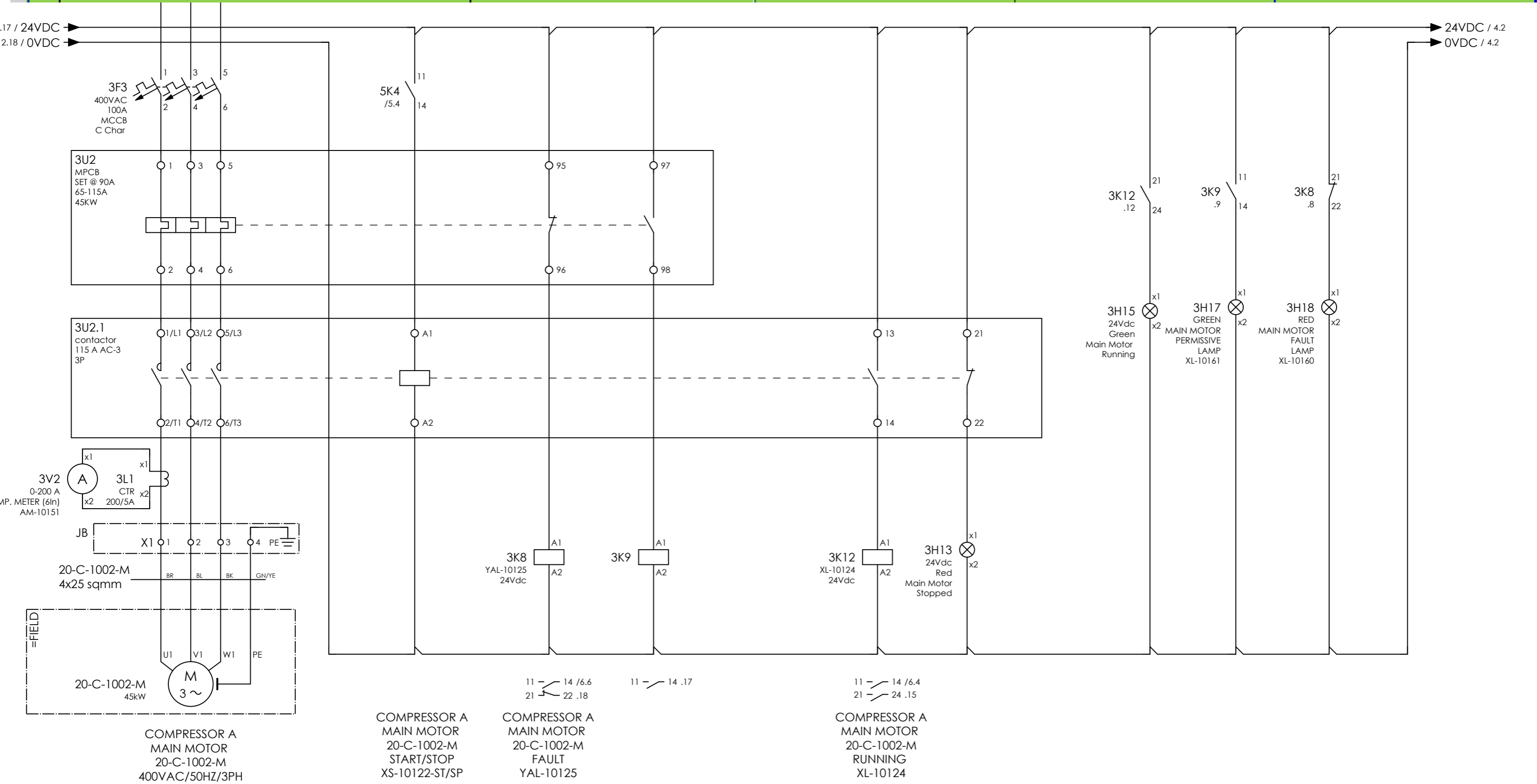
SUBJECT POWER SUPPLY	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	17811-05
REVISION	05
TOTAL PAGE AMOUNT	100

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**EL:**  
 Item 31 reply sheet is not implemented by vendor. please check and take suitable action, also shall be replied in reply sheet.

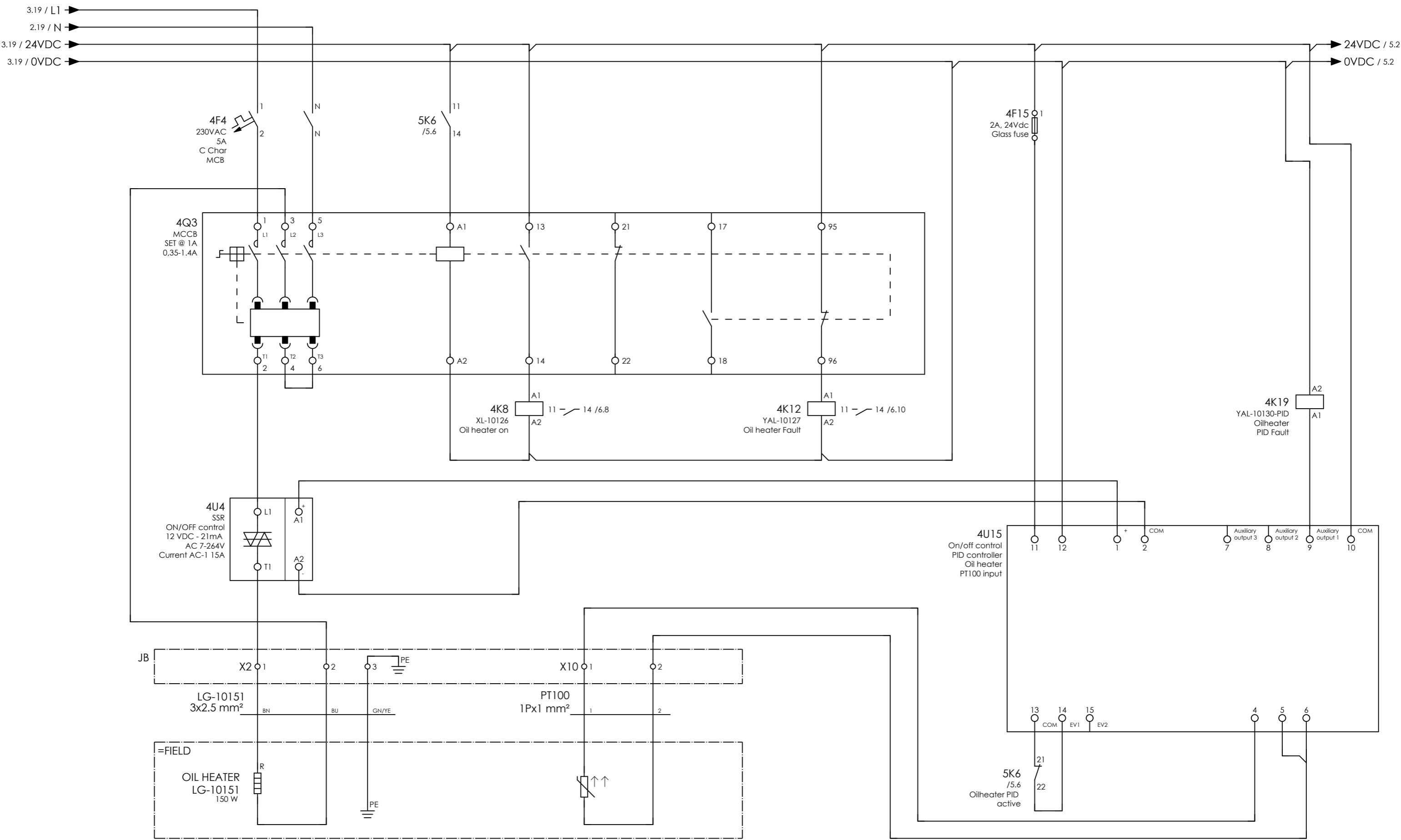
31	EL.10: Use 3K12 to indicate Running and Stopped position of the motor. (use 2 signal lamps)	This can't be changed since this is per P&ID design	"Running" and "stopped" positions of motor shall be specified with signal lamps.	Running light -> according to Control philosief, UCP XL-71107 and LCP - XL-71102. XL-71112 show status if motor is ready for start.	Not acceptable. Mentioned tags can not be found. "Running" and "stopped" positions of motor shall be specified with signal lamps. There is additional description in the document.
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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 MAIN MOTOR	
ADAPTED TO P&ID REVISION	05
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	13-7-2022	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	05	
TOTAL PAGE AMOUNT	101	



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

11 - 14 /6.13



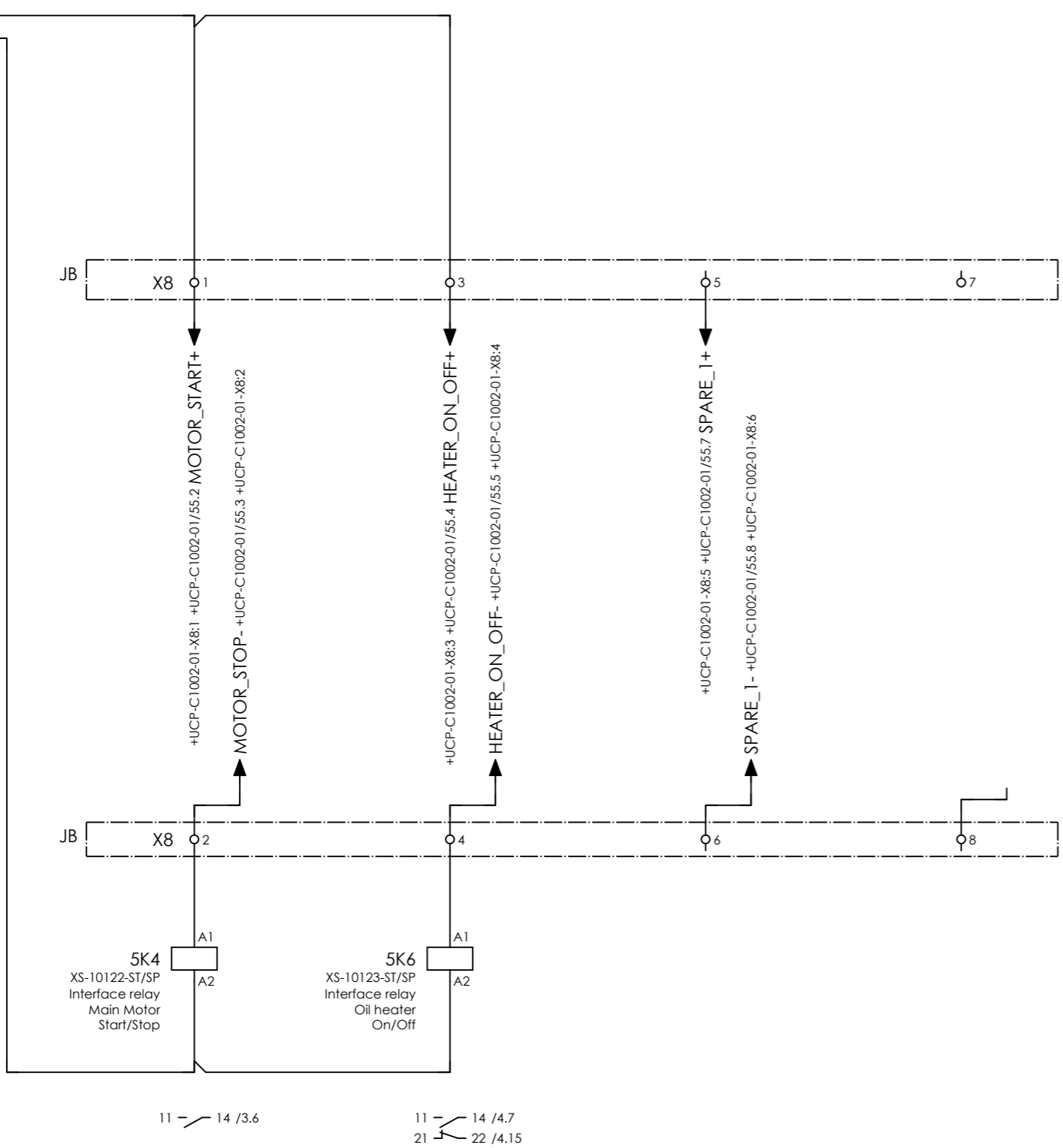
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

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REVISION	05	
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4.19 / 24VDC  
4.19 / -0VDC



COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
START/STOP  
XS-10122-ST/SP

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF  
XS-10123-ST/SP

SPARE

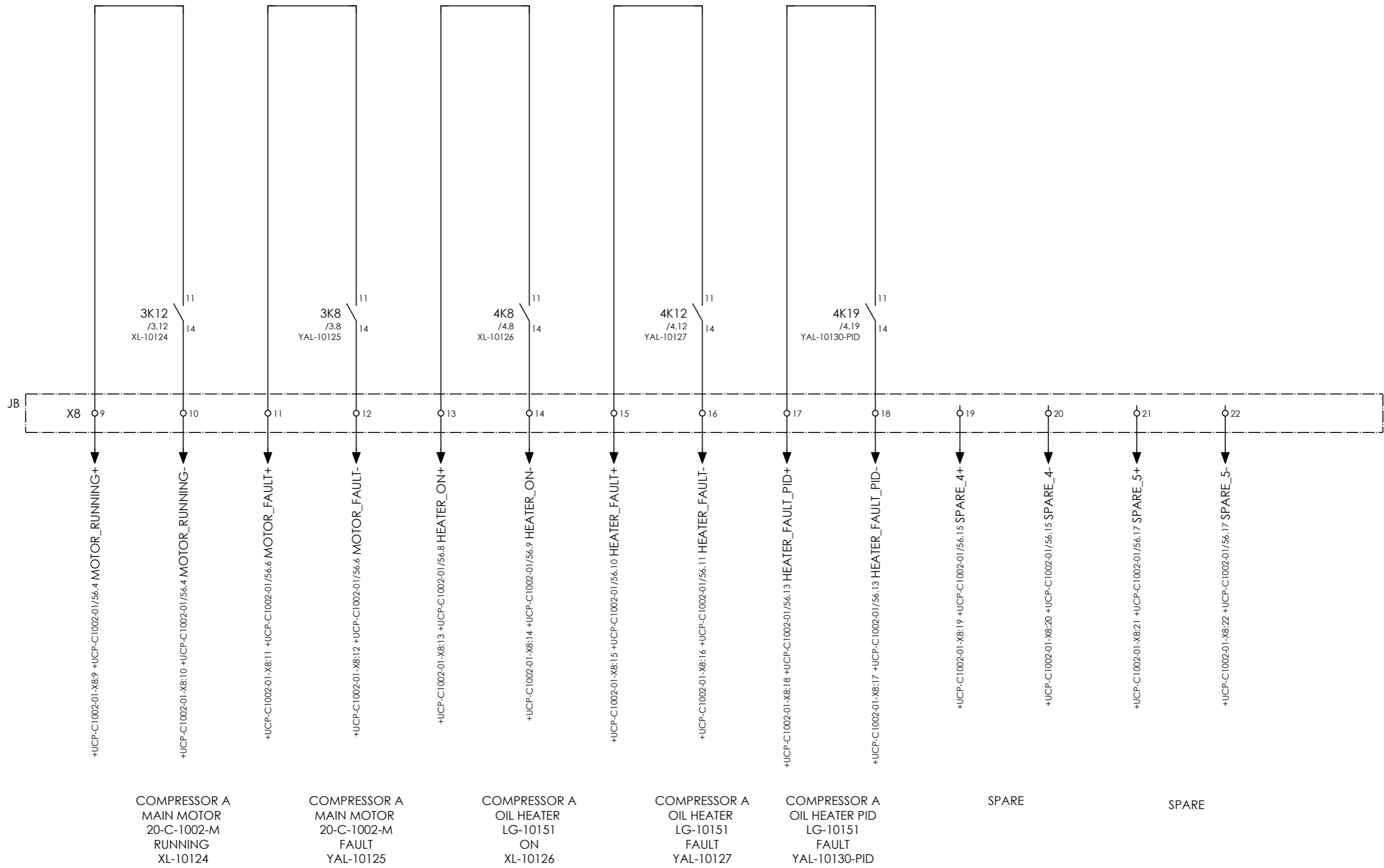


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		SIGNALS FROM UCP	
ADAPTED TO P&ID REVISION	05	CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	17811-05
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COMPRESSOR A  
MAIN MOTOR  
20-C-1002-M  
RUNNING  
XL-10124

COMPRESSOR A  
MAIN MOTOR  
20-C-1002-M  
FAULT  
YAL-10125

COMPRESSOR A  
OIL HEATER  
LG-10151  
ON  
XL-10126

COMPRESSOR A  
OIL HEATER  
LG-10151  
FAULT  
YAL-10127

COMPRESSOR A  
OIL HEATER  
LG-10151  
FAULT  
YAL-10130-PID

SPARE

SPARE



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

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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	PE	5		PE	PE			



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
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SUBJECT Terminal diagram =20-C-1002+PD-C-1002-01-X0  
 ADAPTED TO P&ID REVISION 05  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
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