

OWNER:



**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

EPC CONTRACTOR:



MC :



**UCP/LCP/JB WIRING DIAGRAM FOR
NITROGEN GAS BOOSTER**







Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
BU	20	VD	303	IN	DIG	0043	Rev.:	Page
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Owner Document Number:
17811-05A

**UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS
BOOSTER**

01	19/10/2021	For approval	HT	RB	KP	
00	24/11/2020	For approval	HT	RB	KP	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

OWNER:  شرکت ست دوی توسعه ایرانین (سامی تاسیس)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR: 	
	UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER								
MC :  	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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51.	X	X			
52.	X	X			
53.	X	X			
54.	X	X			
55.	X	X			
56.	X	X			
57.	X	X			
58.	X	X			
59.	X	X			
60.	X	X			
61.	X	X			
62.	X	X			
63.	X	X			
64.	X	X			
65.	X	X			
Till 108		X			
Till 78		X			



Airpack B.V.

4301 RN Zierikzee
The Netherlands

PHONE: (31) (0) 111 - 415455

FAX: (31) (0) 111 - 413338

E-MAIL : AIRPACK@AIRPACK.NL

WEBPAGE : WWW.AIRPACK.NL

Client : Bushehr Petrochemical Company (BUPC)

Equipment location : Iran, Onshore

Client reference : Bushehr MEG Plant Project

Client dwg. no. : BU-20-VD-303-IN-DIG-0043

Airpack reference : 17811-05A

Airpack dwg. no. : 17811-05

Generation date : 06/11/2020

E & I manager : RBE

Last modifications : 18/10/2021

Last modifications by : htaher

Revision no. : 01



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

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

DRAWN BY	htaher	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	1	

NOTES ON ELECTRICAL DRAWINGS

MARK OF PLC IS SIEMENS S7-400 FH

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

ELECTRICAL SCHEME IS DRAWN IN NON ENERGIZED STATE

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

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

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

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

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

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

GLANDS: NICKEL PLATED BRASS GLANDS WITH PVC SHROUDS, ISO METRIC THREADS , IP-66, DOUBLE COMPRESSION, Ex-d/Ex-d dual certified including Locknut, Earth tag & Sealing washer
CABLE TRAYS: GALVANIZED STEEL WITHOUT COVER

AMBIENT TEMPERATURE: 5 / 55 °C

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

- Terminal blocks shall be spring loaded Klippon type and vibration proof for JB
- Screens shall be insulated from earth at instrument side. They shall be continuous through to the control room marshaling cabinet where they will be connected to the clean system.

COLOUR CODES INTERNAL WIRING

400 VAC, 50HZ, L1	BLACK
400 VAC, 50HZ, L3	BROWN
400 VAC, 50HZ, L3	GREY
110 VAC / 230 VAC, 50HZ, L	BROWN
110 VAC / 230 VAC, 50HZ, N	BLUE
24VDC +	RED
0 VDC	BLACK
CURRENT LOOPS	PURPLE
VOLT FREE CONTACTS	ORANGE
PROTECTION EARTH	GREEN / YELLOW
INSTRUMENT SAFETY EARTH	GREEN
INTRINSICALLY SAFE	BLUE



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SUBJECT		DRAWN BY		htaher		=		
Project description		CHECKED BY		RBE		+		
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021		CURRENT PAGE			
CLIENT	Bushehr Petrochemical Company (BUPC)		AIRPACK DWG NO.	17811-05				
CLIENT REF.	Bushehr MEG Plant Project		REVISION	01				
AIRPACK REF.	17811-05A		TOTAL PAGE AMOUNT	2				

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/4	Table of contents : =20-C-1002+UCP-C1002-01/24 - =20-C-1002+PD-C-1002-01/1	4	18/10/2021	htaher
/5	Table of contents : =20-C-1002+PD-C-1002-01/2 - =20-C-1002+PD-C-1002-01/11	5	18/10/2021	htaher
/6	Device tag list : =+UCP-C1002-01-2TH11 - =20-C-1002+UCP-C1002-01-16H6	6	18/10/2021	htaher
/7	Device tag list : =20-C-1002+UCP-C1002-01-16H8 - =20-C-1002+UCP-C1002-01-6M7	7	18/10/2021	htaher
/8	Device tag list : =20-C-1002+UCP-C1002-01-6M11 - =20-C-1002+UCP-C1002-01-16U12	8	18/10/2021	htaher
/9	Device tag list : =20-C-1002+UCP-C1002-01-2V15 - =20-C-1002+PD-C-1002-01-2Q3	9	18/10/2021	htaher
/10	Device tag list : =20-C-1002+PD-C-1002-01-4TH8 - =20-C-1002+PD-C-1002-01-2V17	10	18/10/2021	htaher
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=20-C-1002+UCP-C1002-01/3	EMERGENCY SHUTDOWN	13	15/10/2021	htaher
=20-C-1002+UCP-C1002-01/4	SOLENOIDS	14	15/10/2021	htaher
=20-C-1002+UCP-C1002-01/5	PLC LAYOUT	15	13/10/2021	htaher
=20-C-1002+UCP-C1002-01/6	IO RACK I	16	14/10/2021	htaher
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=20-C-1002+UCP-C1002-01/8	DISPLAY	18	07/10/2021	htaher
=20-C-1002+UCP-C1002-01/9	LOOP SPLITTERS	19	13/10/2021	htaher
=20-C-1002+UCP-C1002-01/10	DIGITAL INPUTS I	20	11/10/2021	htaher
=20-C-1002+UCP-C1002-01/11	DIGITAL INPUTS I	21	12/10/2021	htaher
=20-C-1002+UCP-C1002-01/12	DIGITAL INPUTS I	22	11/10/2021	htaher
=20-C-1002+UCP-C1002-01/13	DIGITAL INPUTS I	23	08/10/2021	htaher
=20-C-1002+UCP-C1002-01/14	ANALOG INPUTS I	24	13/10/2021	htaher
=20-C-1002+UCP-C1002-01/15	ANALOG INPUTS I	25	14/10/2021	htaher
=20-C-1002+UCP-C1002-01/16	DIGITAL OUTPUTS I	26	08/10/2021	htaher
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EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	01	
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT REF.	Bushehr MEG Plant Project	
		AIRPACK REF.	17811-05A	

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LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
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=20-C-1002+UCP-C1002-01/27	DIGITAL OUTPUTS II	37	11/10/2021	htaher
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=20-C-1002+UCP-C1002-01/35	Terminal diagram =20-C-1002+UCP-C1002-01-X1	45	14/10/2021	htaher
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=20-C-1002+JNDX-C1002-01/1	TERMINAL STRIP DEFINITION	52	11/10/2021	htaher
=20-C-1002+JNDX-C1002-01/2	CONNECTION SOLENOIDS	53	14/10/2021	htaher
=20-C-1002+JNDX-C1002-01/3	Terminal diagram =20-C-1002+JNDX-C1002-01-X1	54	14/10/2021	htaher
=20-C-1002+JIAX-C1002-01/1	TERMINAL STRIP DEFINITION	55	11/10/2021	htaher
=20-C-1002+JIAX-C1002-01/2	CONNECTION TRANSMITTERS	56	14/10/2021	htaher
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=20-C-1002+JIAX-C1002-01/5	Terminal diagram =20-C-1002+JIAX-C1002-01-X2	59	14/10/2021	htaher
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=20-C-1002+LP-C1002-01/2	CONNECTION PUSHBUTTONS	61	07/10/2021	htaher
=20-C-1002+LP-C1002-01/3	CONNECTION LAMPS	62	11/10/2021	htaher
=20-C-1002+LP-C1002-01/4	CONNECTION ESD BUTTON	63	07/10/2021	htaher
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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 Table of contents : =20-C-1002+UCP-C1002-01/24 - =20-C-1002+PD-C-1002-01/1
 ADAPTED TO P&ID REVISION 01
 CLIENT Bushehr Petrochemical Company (BUPC)
 CLIENT REF. Bushehr MEG Plant Project
 AIRPACK REF. 17811-05A

DRAWN BY htaher
 CHECKED BY RBE
 LAST MODIFICATION DATE 14/10/2021
 AIRPACK DWG NO. 17811-05
 REVISION 01
 TOTAL PAGE AMOUNT 4

=
 +
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DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
-2TH11	EMERGENCY SHUTDOWN RELAY	SET@	
-2TH13		SET@	
-8A9		DISPLAY	
-3ESDR2		ESD relay	
-3ESDR8		ESD relay expansion	
-2F9		230VAC 6A	
-2F11		230VAC 2A	
-2F13		230VAC 4A	
-2F15		110VAC 10A	

Device tag	Function text	Tech. car.	Symbol
-2F15.1		24VDC 10A	
-2F17		110VAC 10A	
-2F17.1		24VDC 10A	
-5F2		24VDC 6A	
-5F11		24VDC 6A	
-2G15		QUINT DIODE	
-2H10			
-16H4	COMPRESSOR A OPERATIONAL XL-10006	GREEN	
-16H6	COMPRESSOR A RUNNING XL-10007	GREEN	

DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
-16H8	COMPRESSOR A COMMON ALARM XL-10008	AMBER	
-16H10	COMPRESSOR A COMMON TRIP XL-10009	RED	
-17K16	COMPRESSOR A FORCED SHUTDOWN		
-18K4	COMPRESSOR A SOLENOID VALVE XY-001A		
-18K6	COMPRESSOR A SOLENOID VALVE XY-002A		
-18K8	SPARE		
-18K10	=		
-19K4	COMPRESSOR A MAIN MOTOR 20-M-1002 START/STOP		
-19K6	COMPRESSOR A OIL HEATER LG-10001 ON/OFF		

Device tag	Function text	Tech. car.	Symbol
-19K10			
-33K4			
-2M11			
-5M2	PLC POWER SUPPLY		
-5M3	S7-400 CPU		
-5M11	PLC POWER SUPPLY		
-5M12	S7-400 CPU		
-6M4	CP 343-1		
-6M7	32 DI	SM321 24VDC	



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SUBJECT		Device tag list : =20-C-1002+UCP-C1002-01-16H8 - =20-C-1002+UCP-C1002-01-6M7	
ADAPTED TO P&ID REVISION	01	CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK REF.	17811-05A

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DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
-6M11	32 DO	SM322 24VDC	
-7M4	CP 343-1		
-7M7	32 DI	SM321 24VDC	
-7M11	32 DO	SM322 24VDC	
-2S2			
-2S4			
-2S6			
-3S3		Red	
-10S4	GREEN		

Device tag	Function text	Tech. car.	Symbol
-10S6	RED		
-10S8	BLACK		
-10S10	=		
-10S12	=		
-2U13			
-9U4			
-9U6			
-9U7			
-16U12	COMPRESSOR A HOURMETER HM-10001		



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SUBJECT	
Device tag list : =20-C-1002+UCP-C1002-01-6M11 - =20-C-1002+UCP-C1002-01-16U12	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A




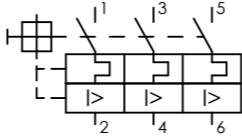
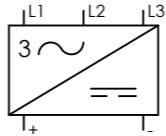
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DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
-2V15		110VAC 24VDC 10A	
-2V17		110VAC 24VDC 10A	
+LP-C1002-01-3H4		GREEN	
+LP-C1002-01-3H6		GREEN	
+LP-C1002-01-3H8		AMBER	
+LP-C1002-01-3H10		RED	
+LP-C1002-01-2S4		GREEN	
+LP-C1002-01-2S6		RED	
+LP-C1002-01-2S8		BLACK	

Device tag	Function text	Tech. car.	Symbol
+LP-C1002-01-2S10		LOCAL/OFF/REMOTE	
+LP-C1002-01-4S3		Red	
+PD-C-1002-01-2F17		6A	
+PD-C-1002-01-2F17.1		6A	
+PD-C-1002-01-3F3		400VAC 100A	
+PD-C-1002-01-4F4		230VAC 5A	
+PD-C-1002-01-5K4	COMPRESSOR A MAIN MOTOR 20-C-1002-M START/STOP		
+PD-C-1002-01-5K6	COMPRESSOR A OIL HEATER LG-10001 ON/OFF		

DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
+PD-C-1002-01-4TH8		Thermostat	
+PD-C-1002-01-3U2			
+PD-C-1002-01-3U2.1			
+PD-C-1002-01-4U4		5A	
+PD-C-1002-01-2V17		400VAC 24VDC 5A	

Device tag	Function text	Tech. car.	Symbol



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SUBJECT		Device tag list : =20-C-1002+PD-C-1002-01-4TH8 - =20-C-1002+PD-C-1002-01-2V17	
ADAPTED TO P&ID REVISION	01	CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK REF.	17811-05A

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REVISION	01	
TOTAL PAGE AMOUNT	10	

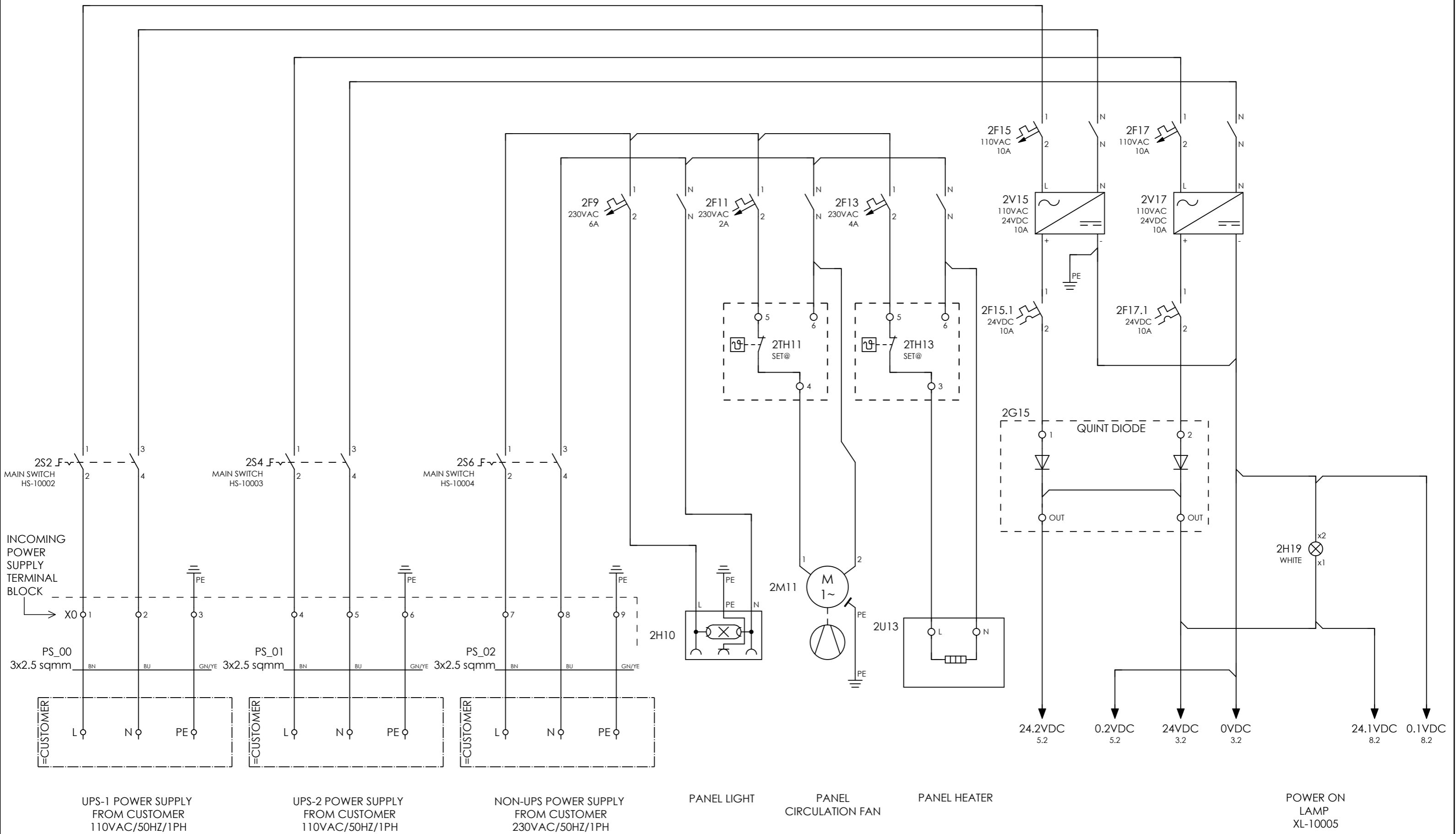
UNIT CONTROL PANEL UCP-C1002-01

TERMINAL STRIP DEFINITION

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



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	EQUIPMENT NO.	20-C-1002	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ UCP-C1002-01
	EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
			CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
			CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	11		



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

PANEL LIGHT

PANEL CIRCULATION FAN

PANEL HEATER

POWER ON LAMP XL-10005

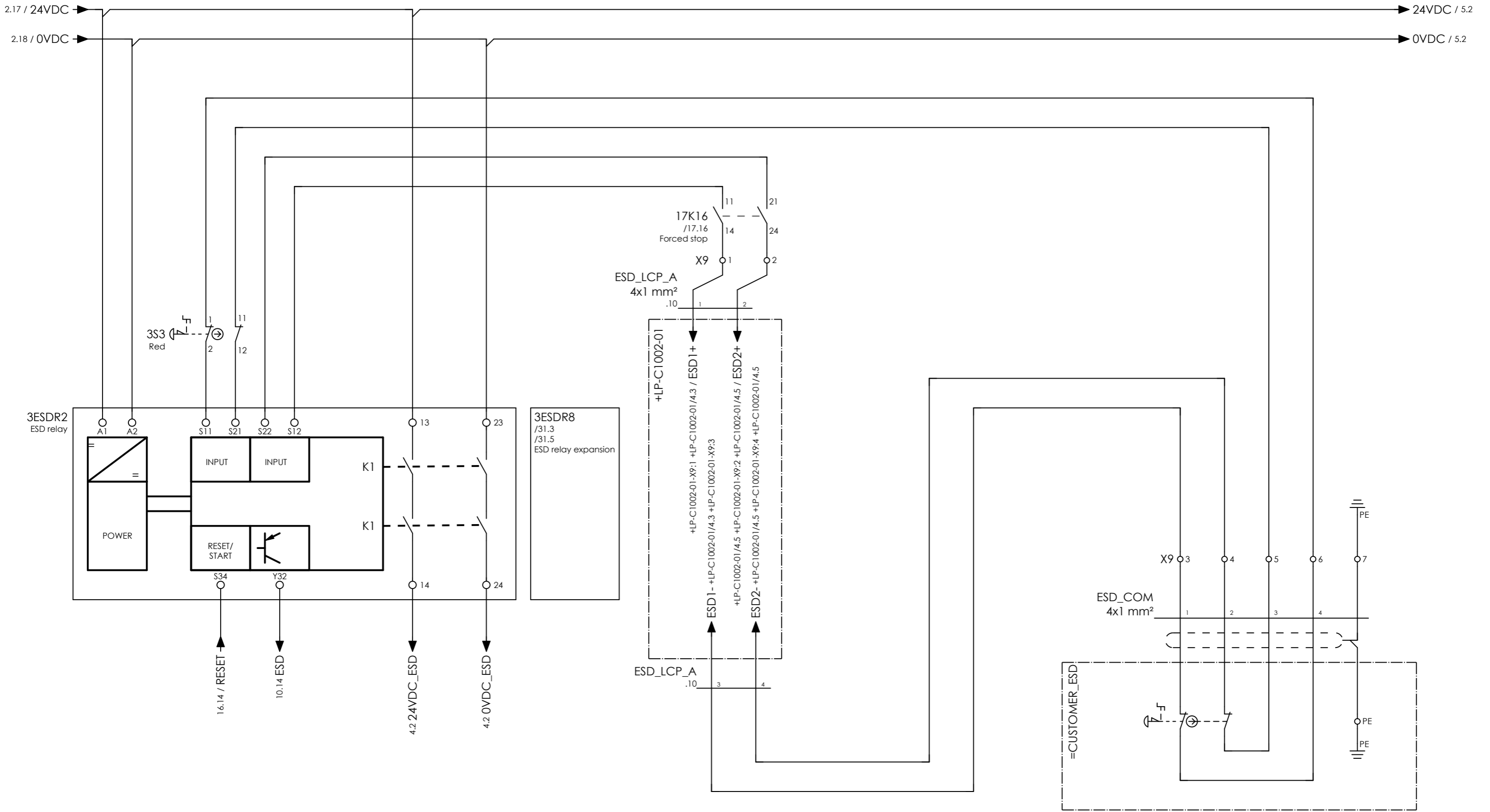


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT POWER SUPPLY	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project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

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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	12

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



EMERGENCY SHUTDOWN RELAY

EMERGENCY STOP BUTTON ON PANEL PB-10007

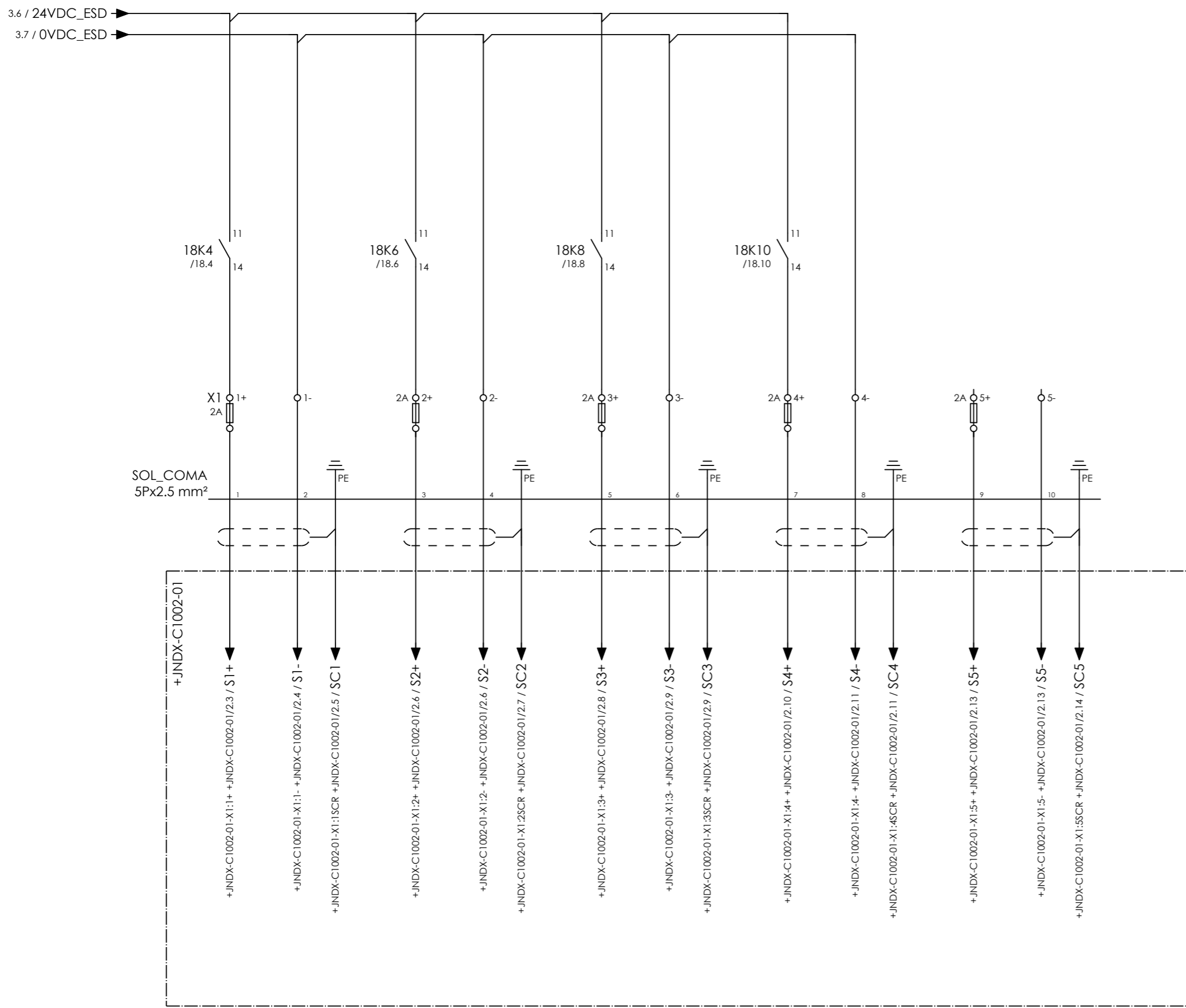
EMERGENCY SHUTDOWN FROM CUSTOMER HS-115-SD-1



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

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	13	



COMPRESSOR A
INLET
SOLENOID VALVE
XY-10001

COMPRESSOR A
COOLING WATER INLET
SOLENOID VALVE
XY-10002

SPARE

SPARE

SPARE

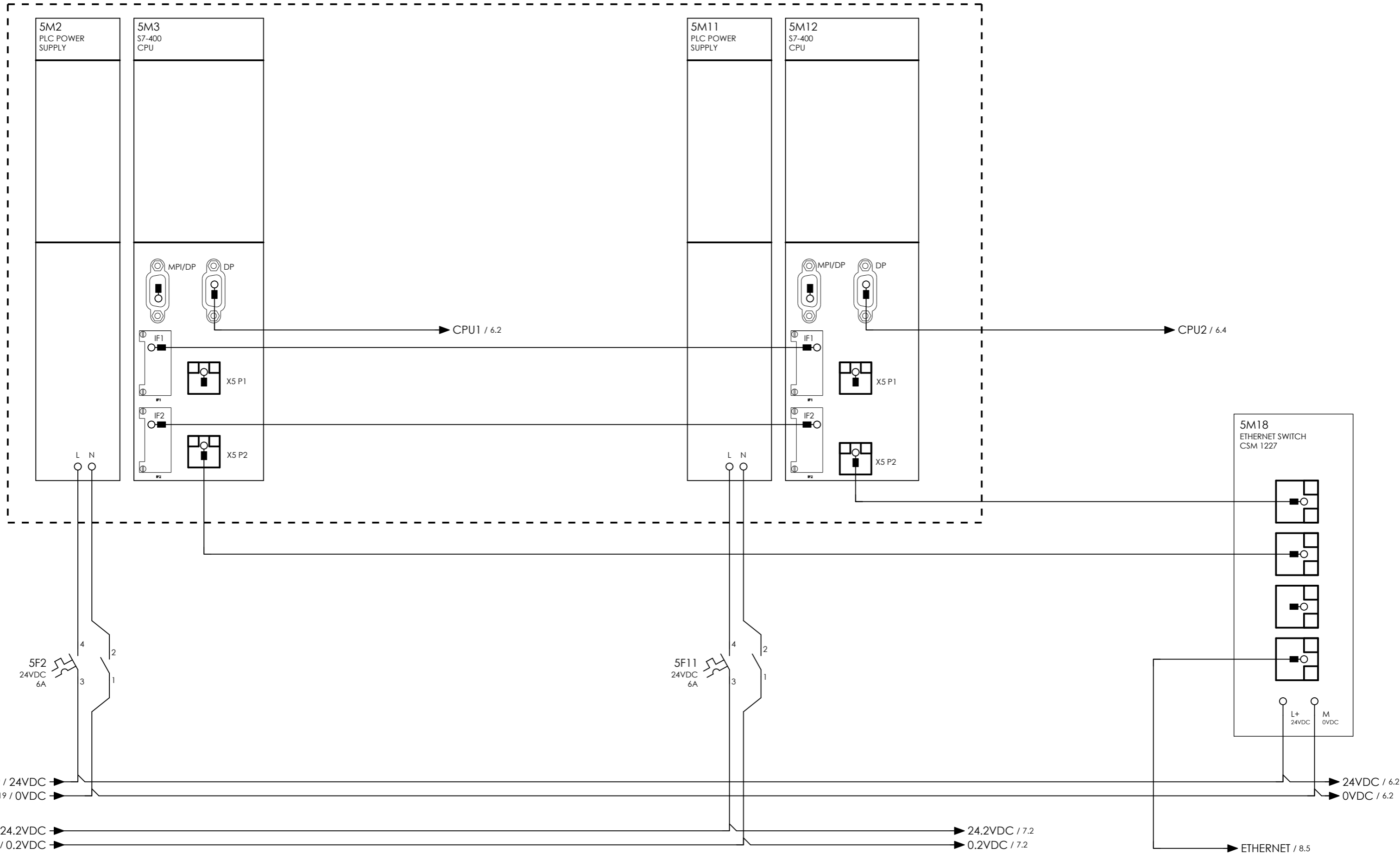


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SOLENOIDS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
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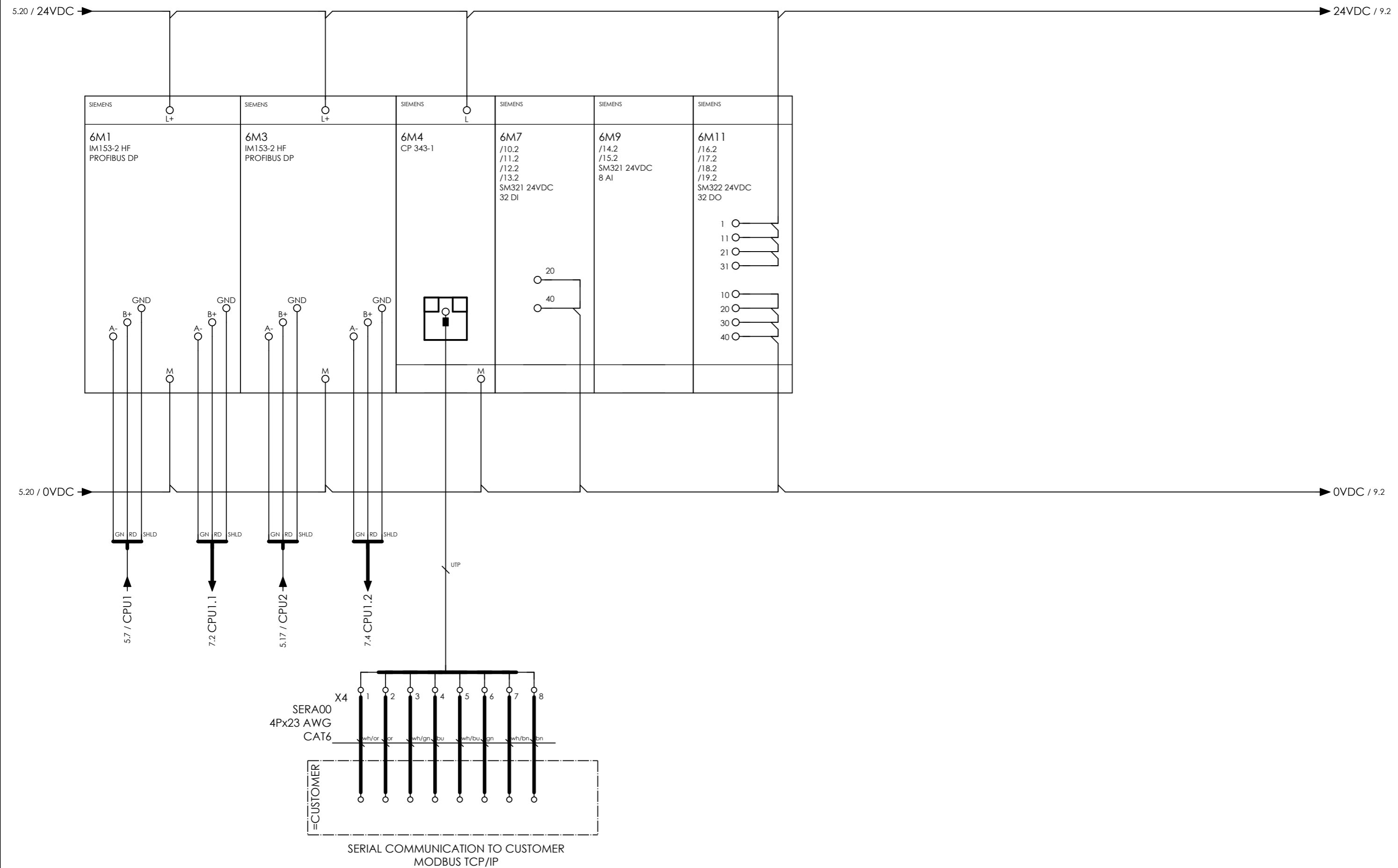


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
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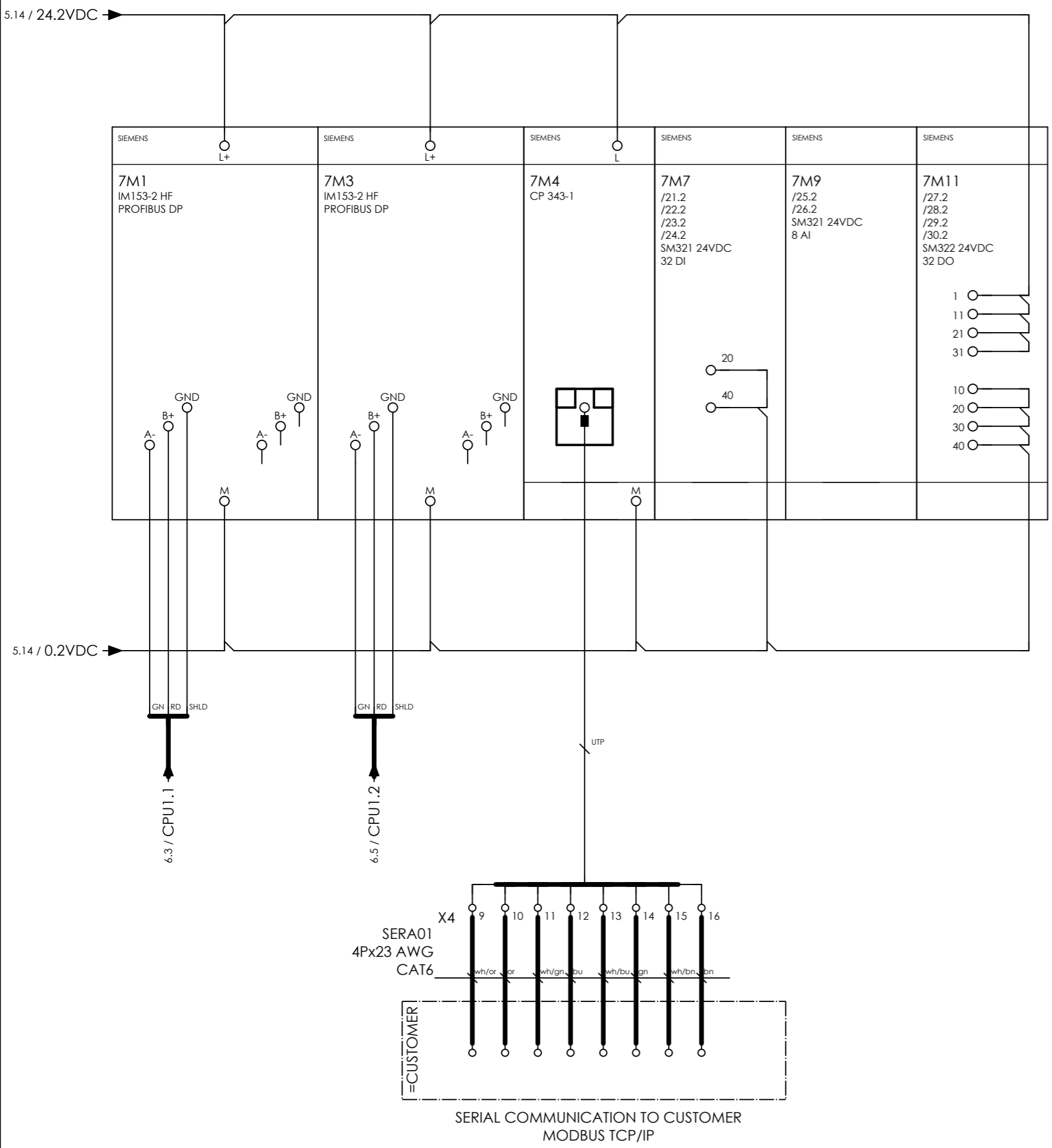


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT IO RACK I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
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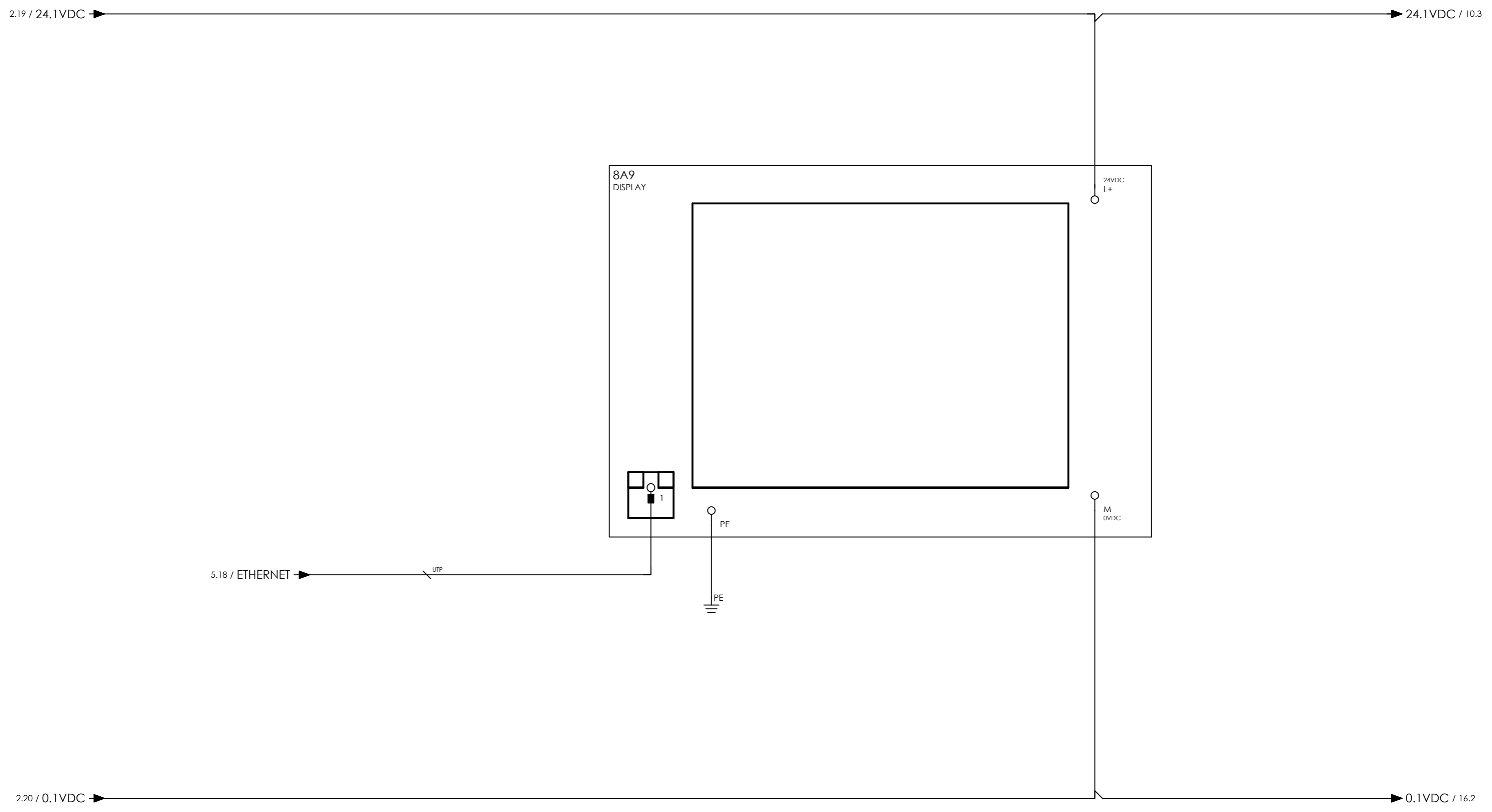


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT IO RACK II	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	17

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+ UCP-C1002-01
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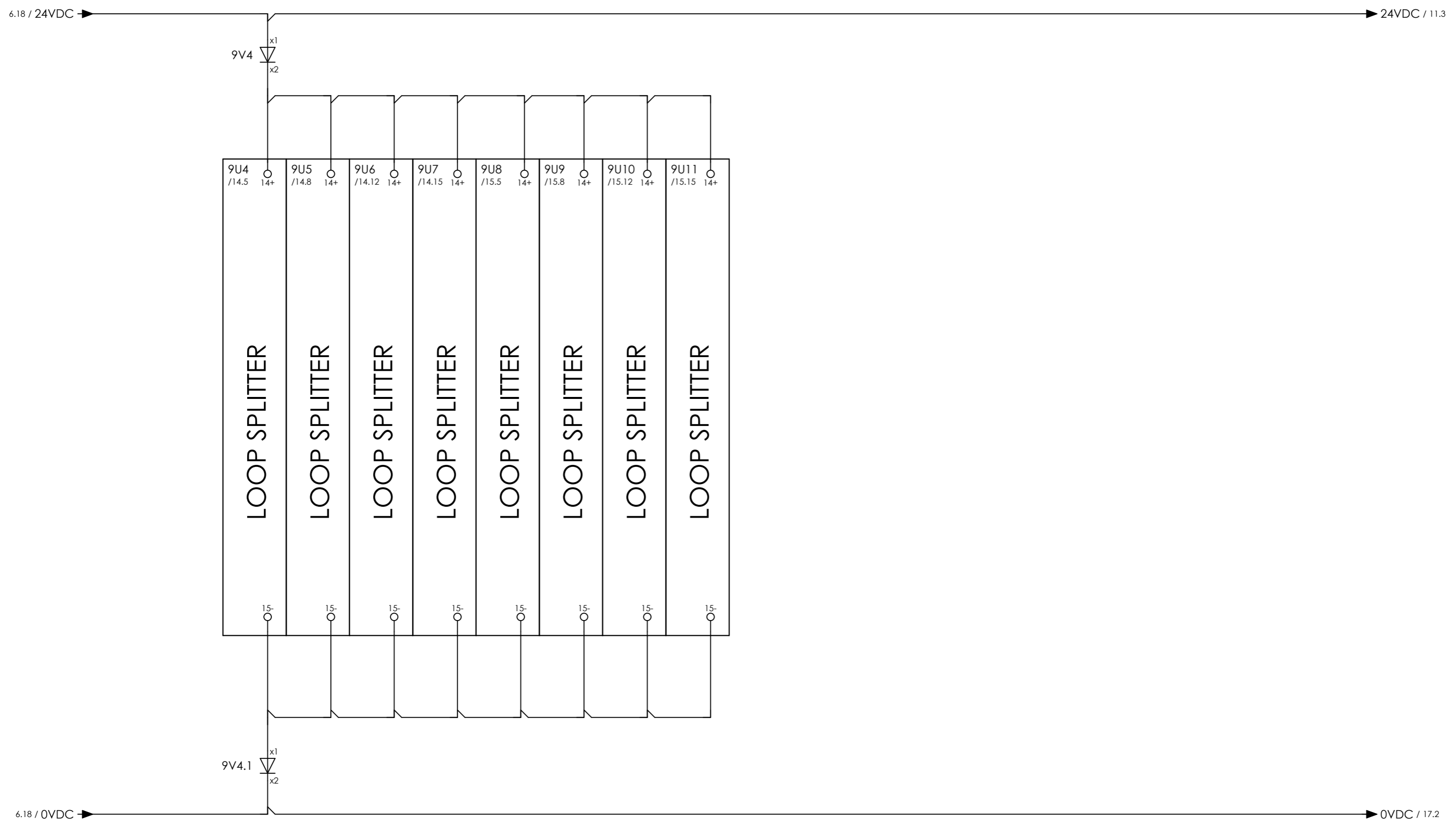


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	18

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+ UCP-C1002-01
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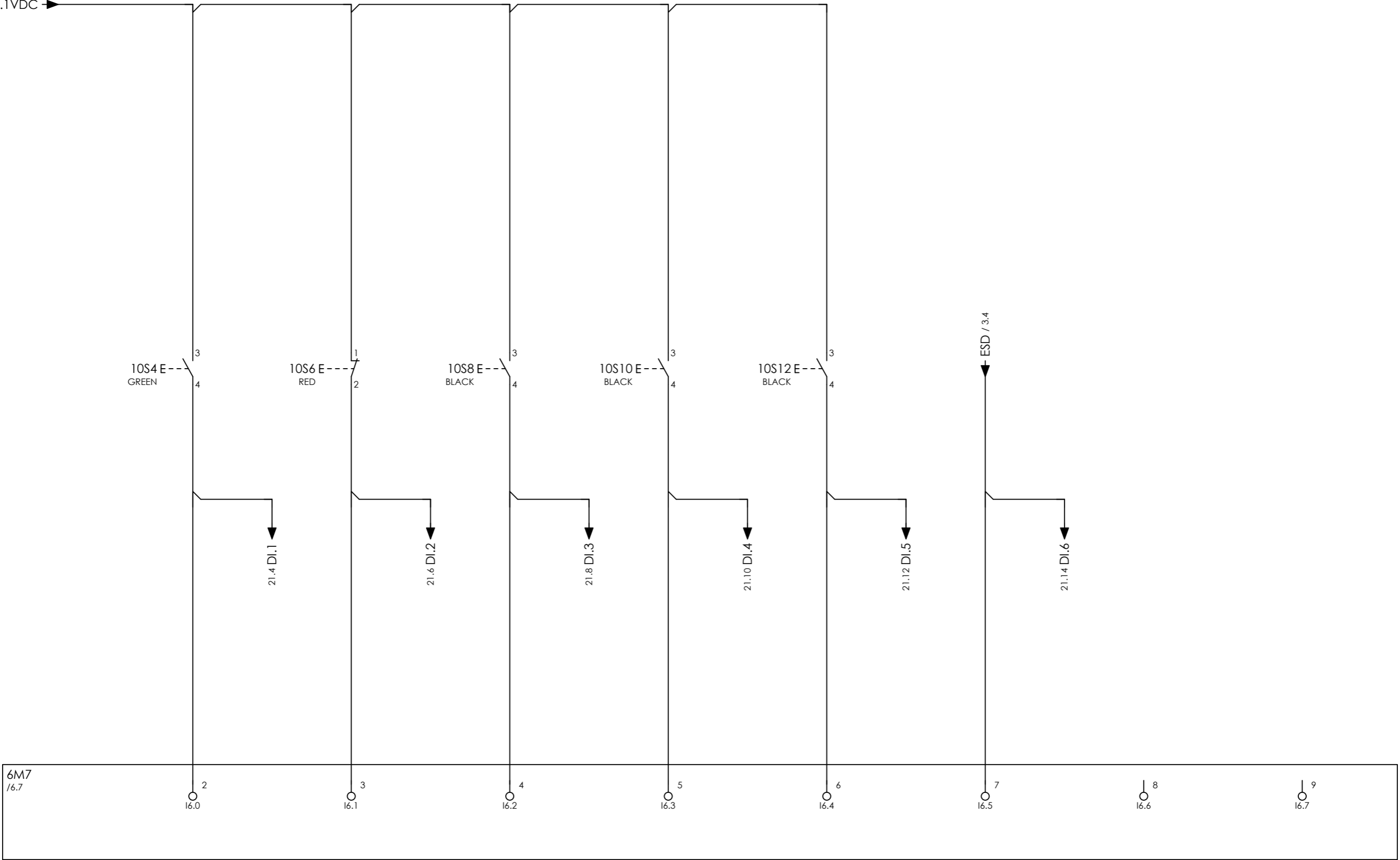
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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	19

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

8.19 / 24.1VDC →



COMPRESSOR A
START
PB-10005

COMPRESSOR A
STOP
PB-10006

COMPRESSOR A
LAMPTEST
PB-10008

COMPRESSOR A
ACCEPT
PB-10009

COMPRESSOR A
RESET
PB-10010

ESD
ENGAGED

SPARE

SPARE

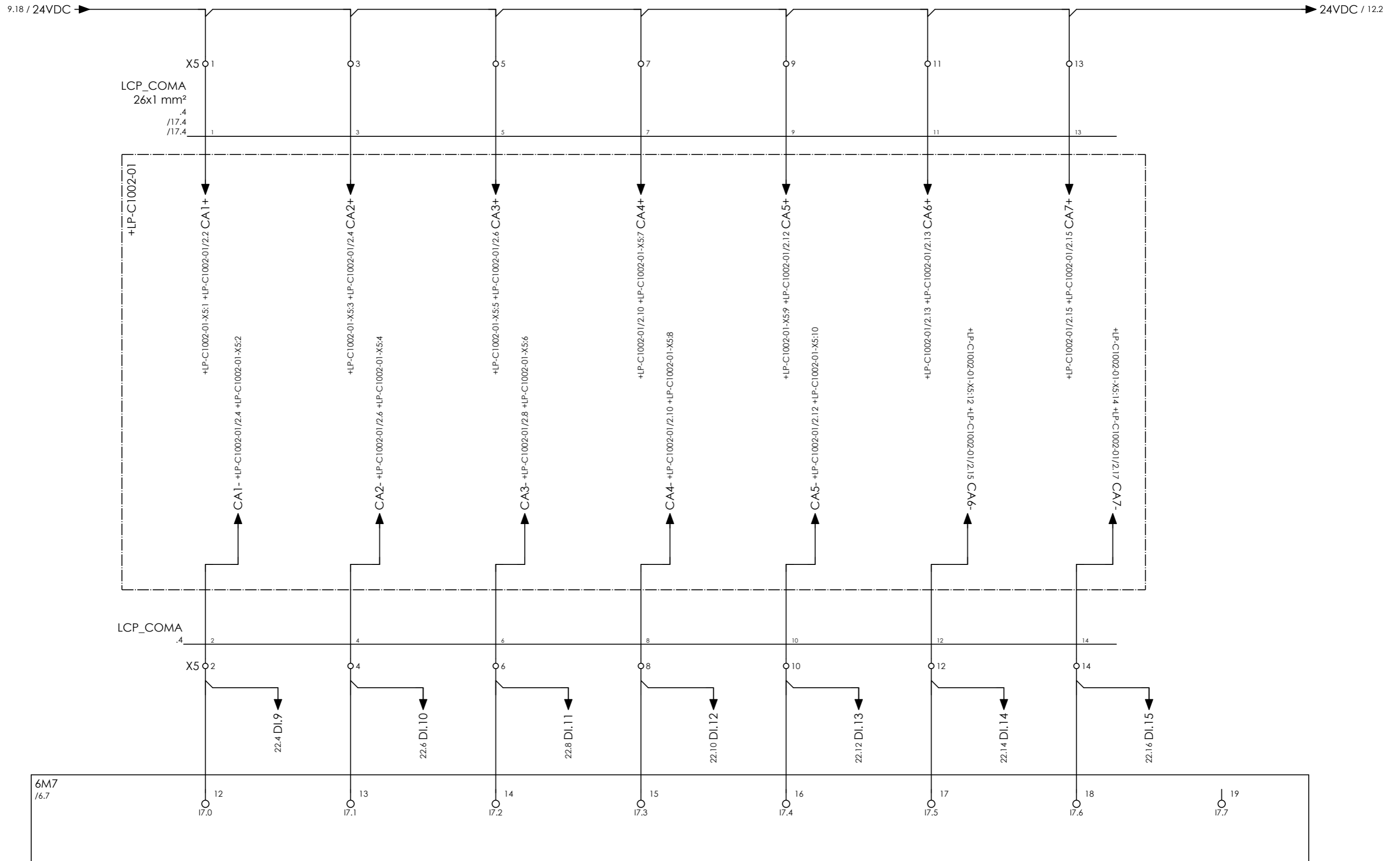


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	20

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



COMPRESSOR A
START
PB-10001

COMPRESSOR A
STOP
PB-10002

COMPRESSOR A
LAMPTEST
PB-10004

COMPRESSOR A
LOCAL
HS-10001

COMPRESSOR A
REMOTE
HS-10001

SPARE

SPARE

SPARE

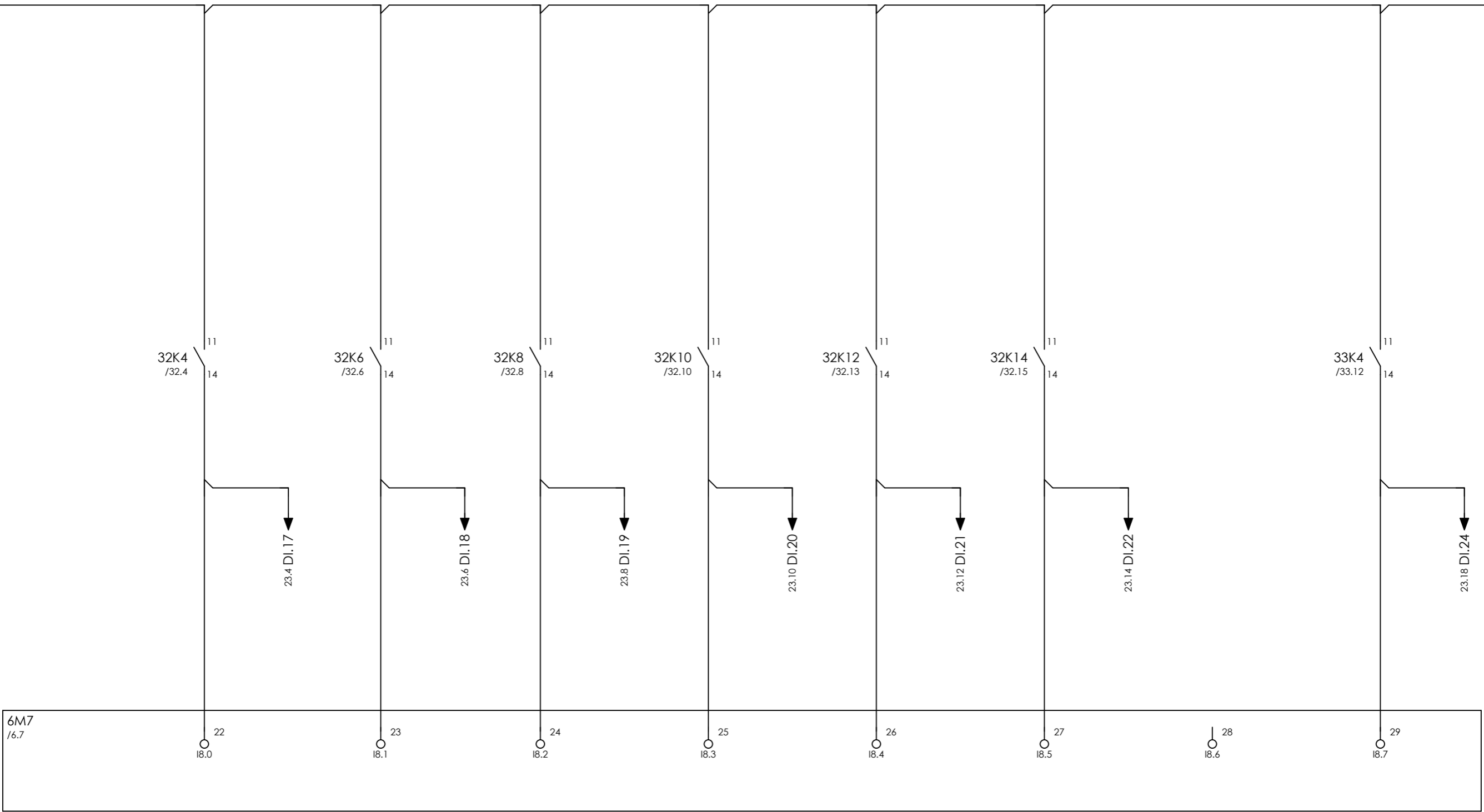


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	21	

11.19 / 24VDC → 24VDC / 32.2



COMPRESSOR A MAIN MOTOR 20-C-1002-M RUNNING
 COMPRESSOR A MAIN MOTOR 20-C-1002-M FAULT
 COMPRESSOR A OIL HEATER LG-10001 ON
 COMPRESSOR A OIL HEATER LG-10001 FAULT
 SPARE
 SPARE
 SPARE
 TIME SYNCHRONIZATION XCS-115

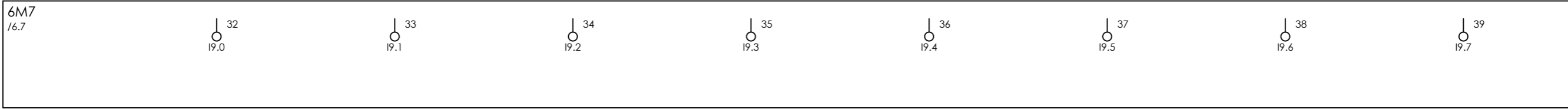


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EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DIGITAL INPUTS I	
ADAPTED TO P&ID REVISION	01	CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
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TOTAL PAGE AMOUNT	22

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SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE

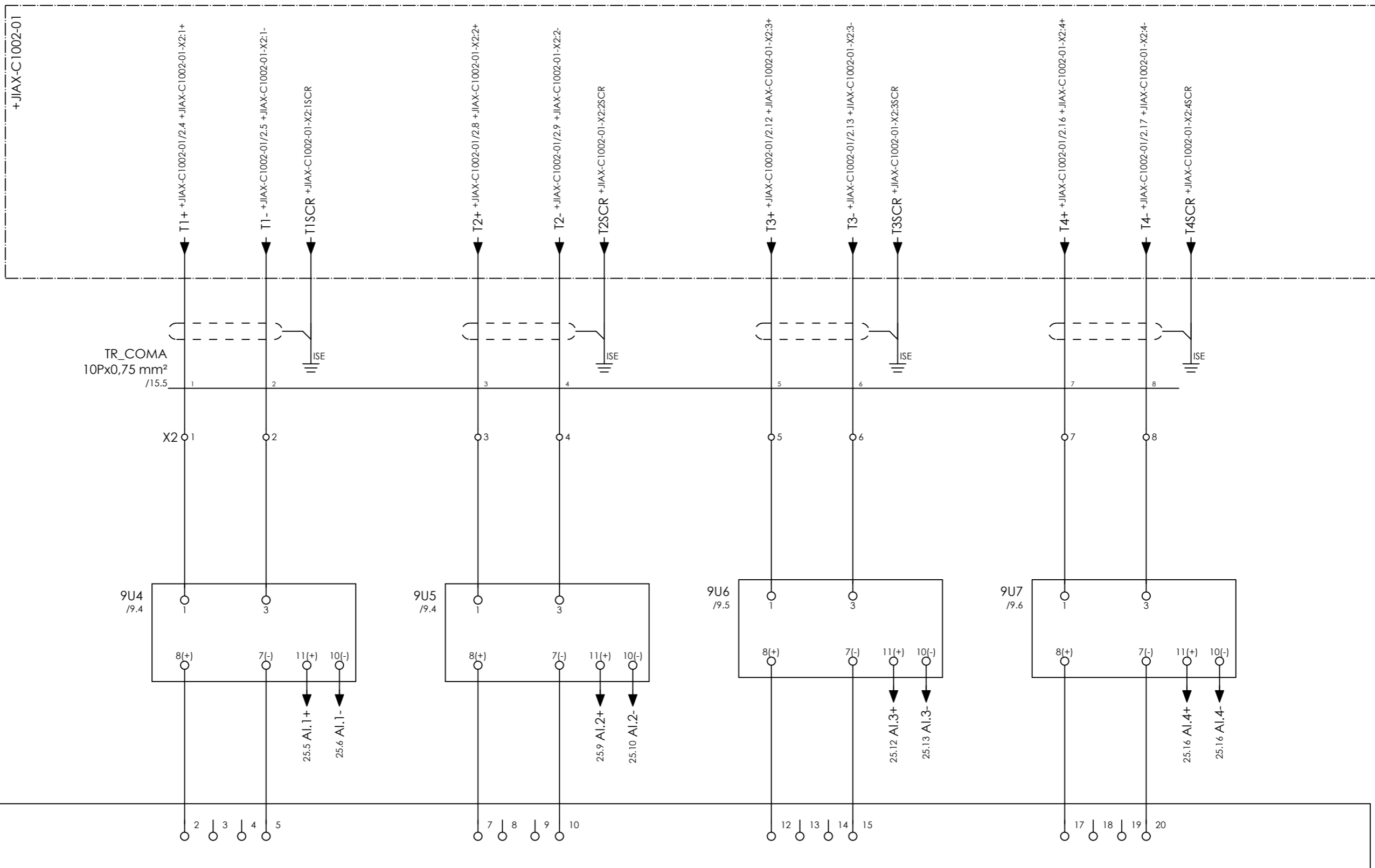


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

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LAST MODIFICATION DATE	14/10/2021
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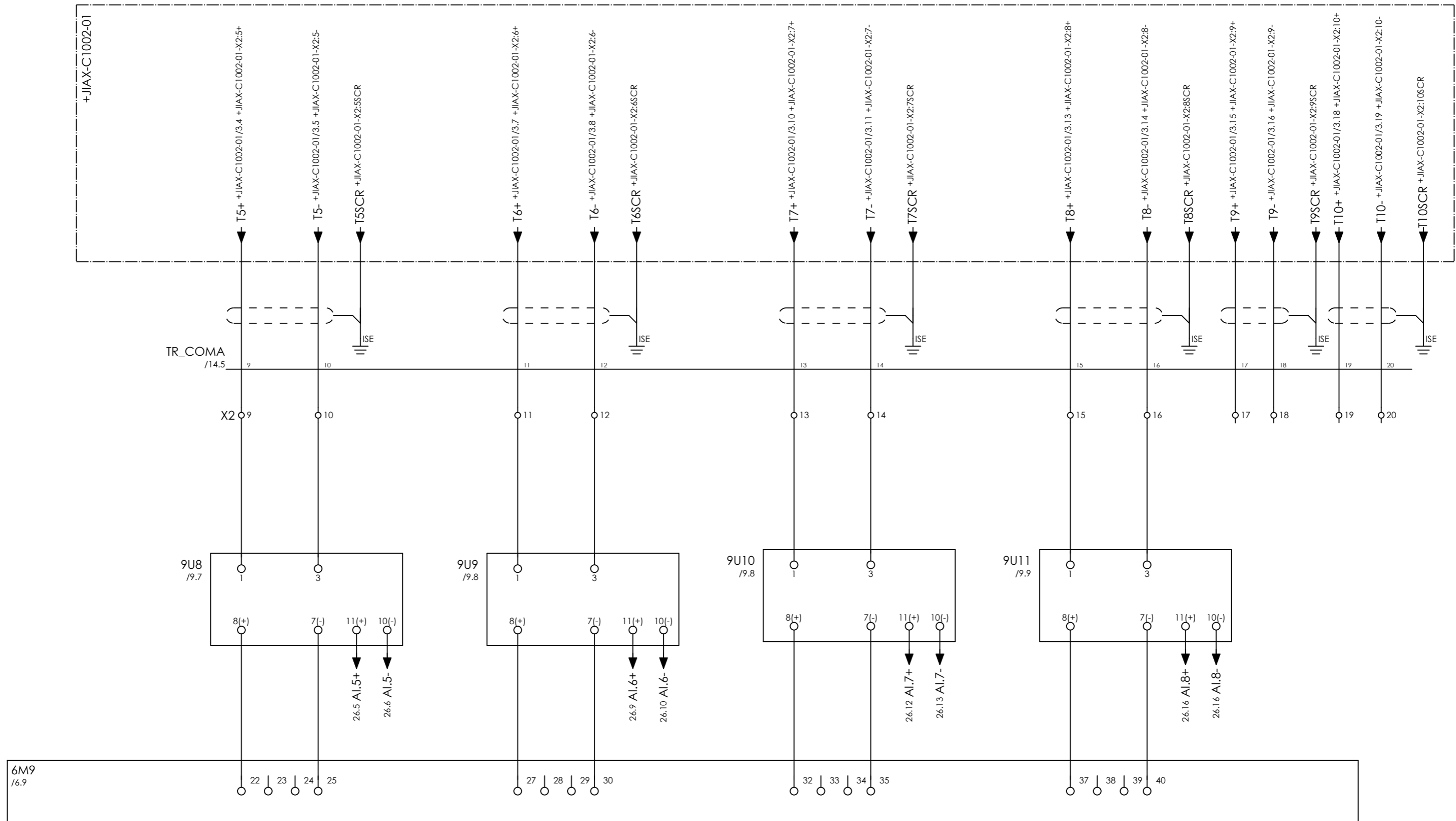


COMPRESSOR A
INLET PRESSURE
PIT-10003

COMPRESSOR A
OIL SYSTEM PRESSURE
PIT-10004

COMPRESSOR A
OUTLET PRESSURE
PIT-10007

COMPRESSOR A
INLET TEMPERATURE
TIT-10001



COMPRESSOR A
UPSTREAM AFTER COOLER TEMPERATURE
TIT-10002

COMPRESSOR A
COOLING WATER OUTLET FLOW
FT-10001

COMPRESSOR A
BEARING VIBRATION
VT-10001

SPARE



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

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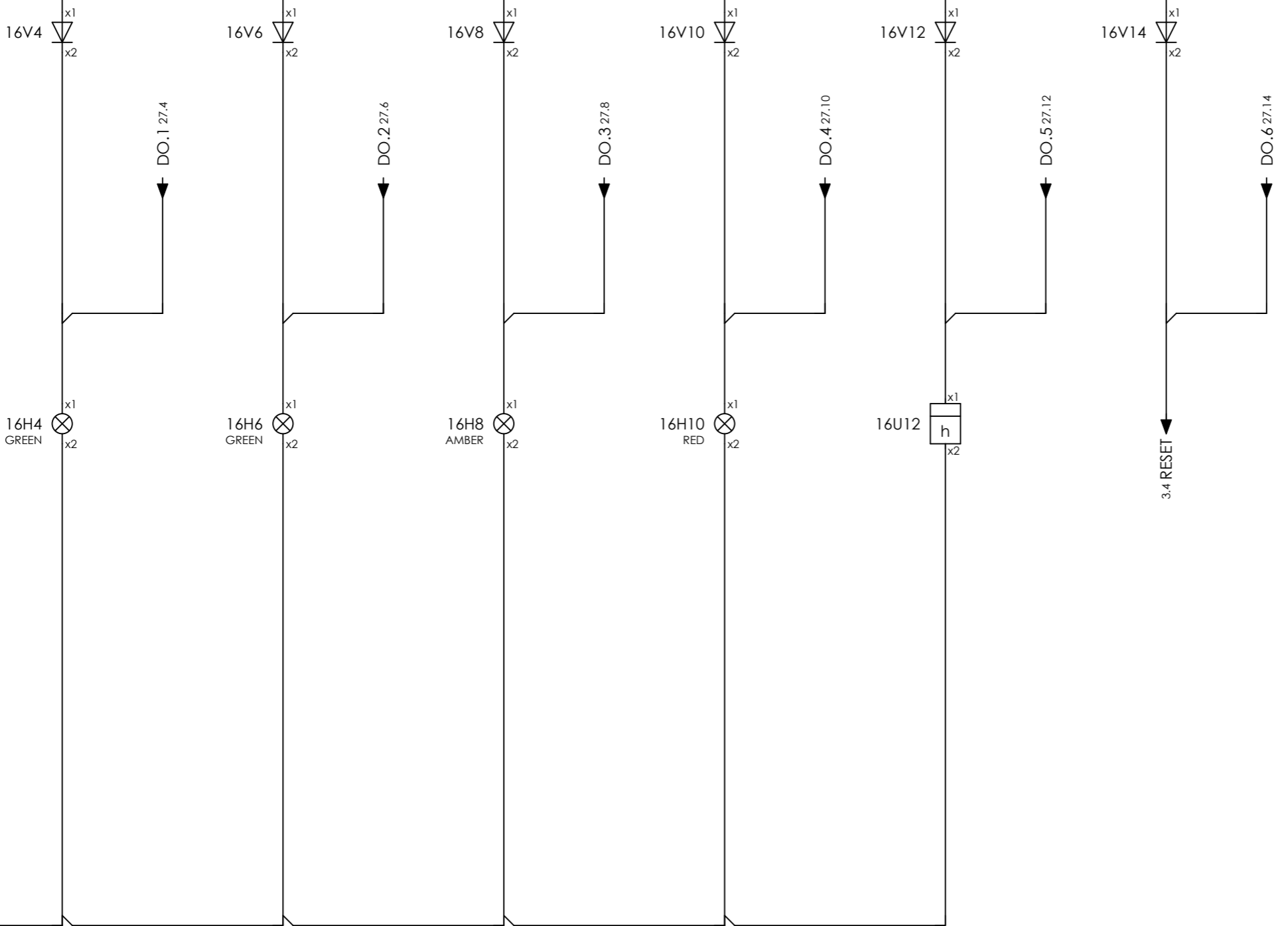
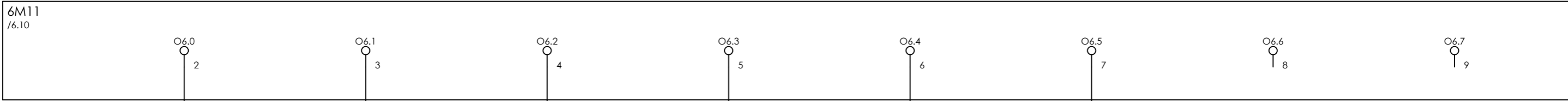
SUBJECT	
ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	01

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

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REVISION	01
TOTAL PAGE AMOUNT	25

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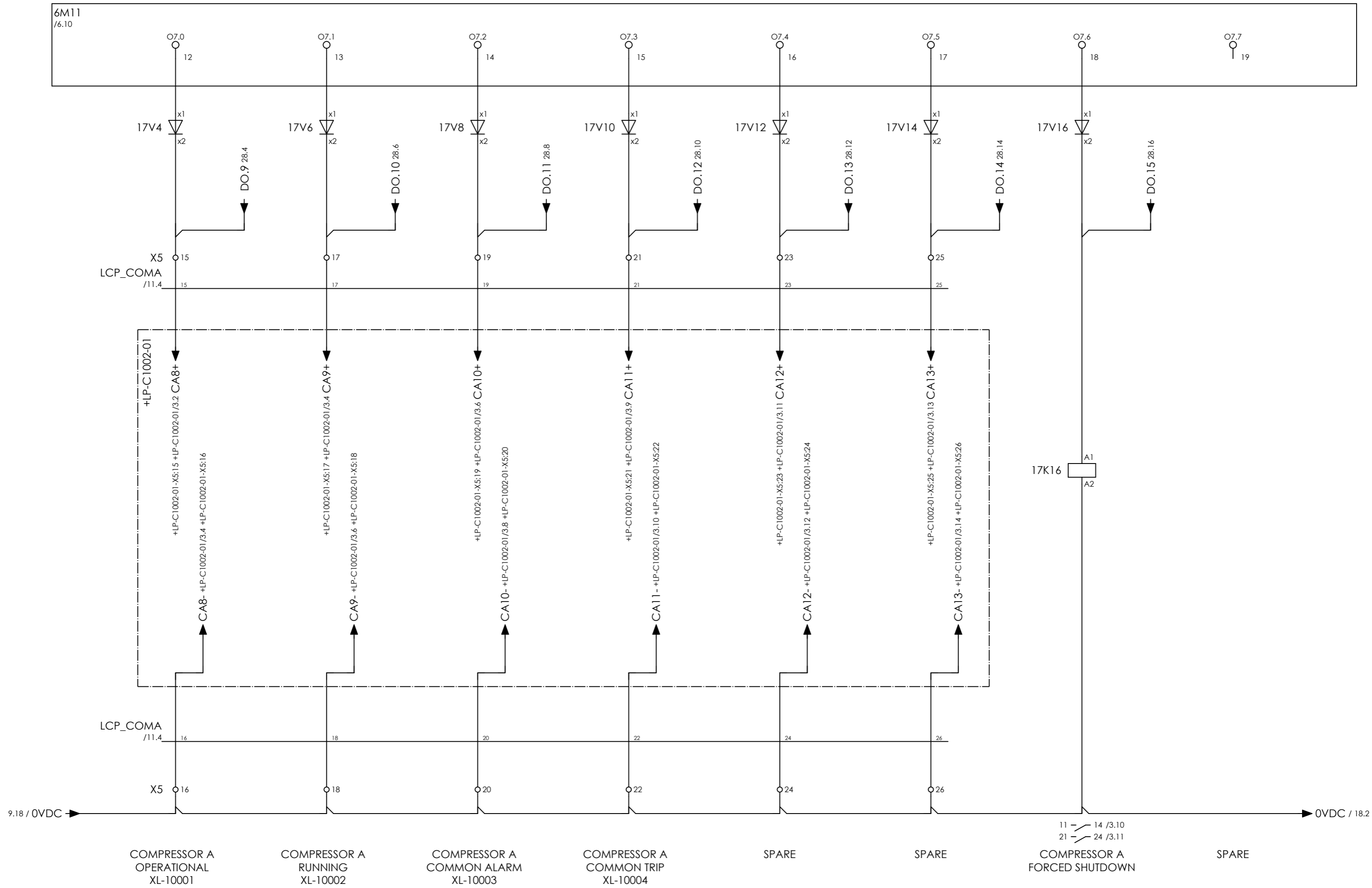
COMPRESSOR A OPERATIONAL XL-10006 COMPRESSOR A RUNNING XL-10007 COMPRESSOR A COMMON ALARM XL-10008 COMPRESSOR A COMMON TRIP XL-10009 COMPRESSOR A HOURMETER HM-10001 RESET ESD RELAY SPARE SPARE



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

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

DRAWN BY	htaher	= 20-C-1002
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LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	26	



COMPRESSOR A OPERATIONAL XL-10001

COMPRESSOR A RUNNING XL-10002

COMPRESSOR A COMMON ALARM XL-10003

COMPRESSOR A COMMON TRIP XL-10004

SPARE

SPARE

COMPRESSOR A FORCED SHUTDOWN

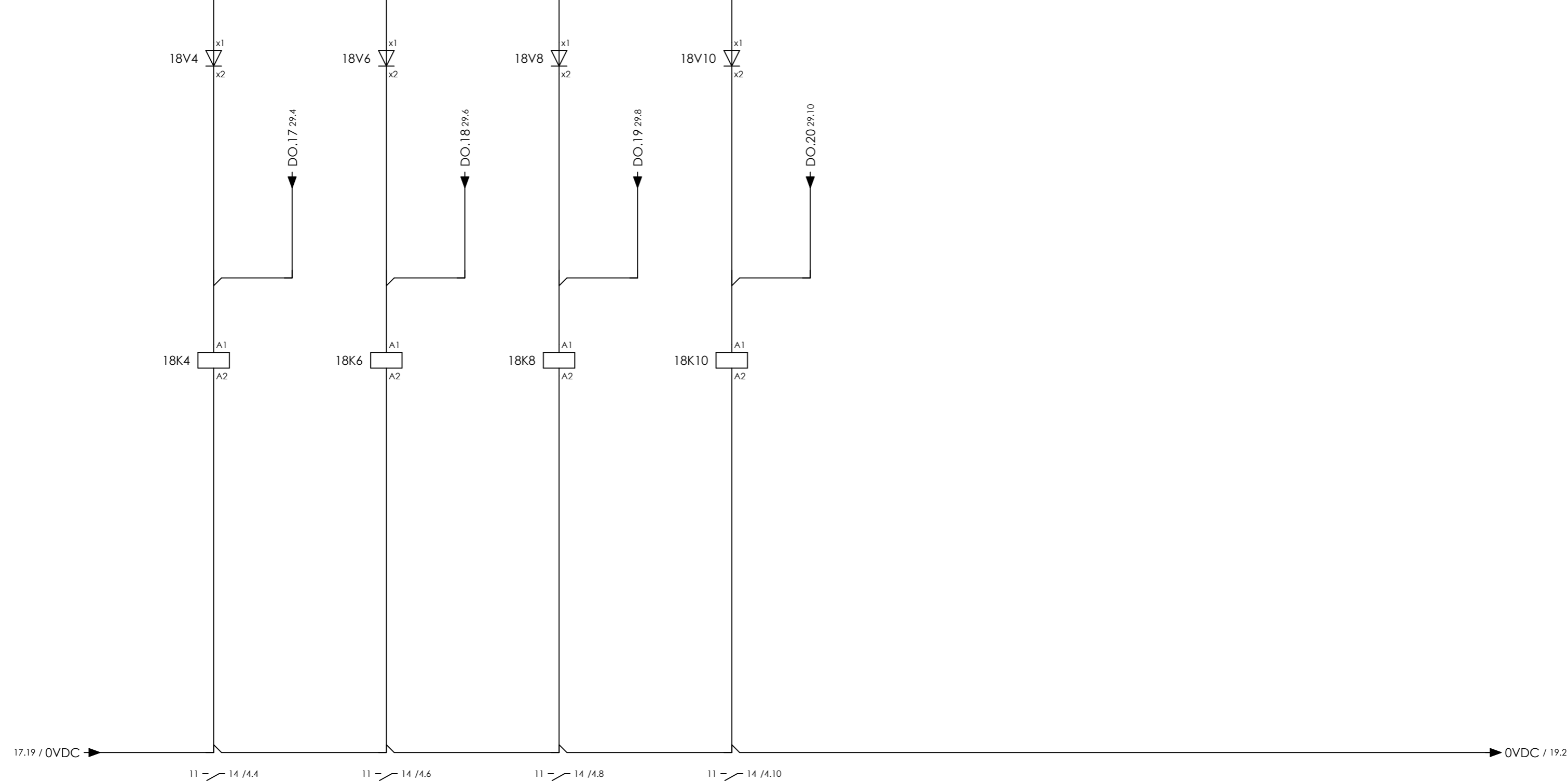
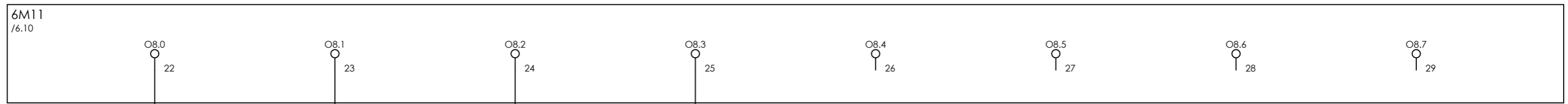
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL OUTPUTS I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

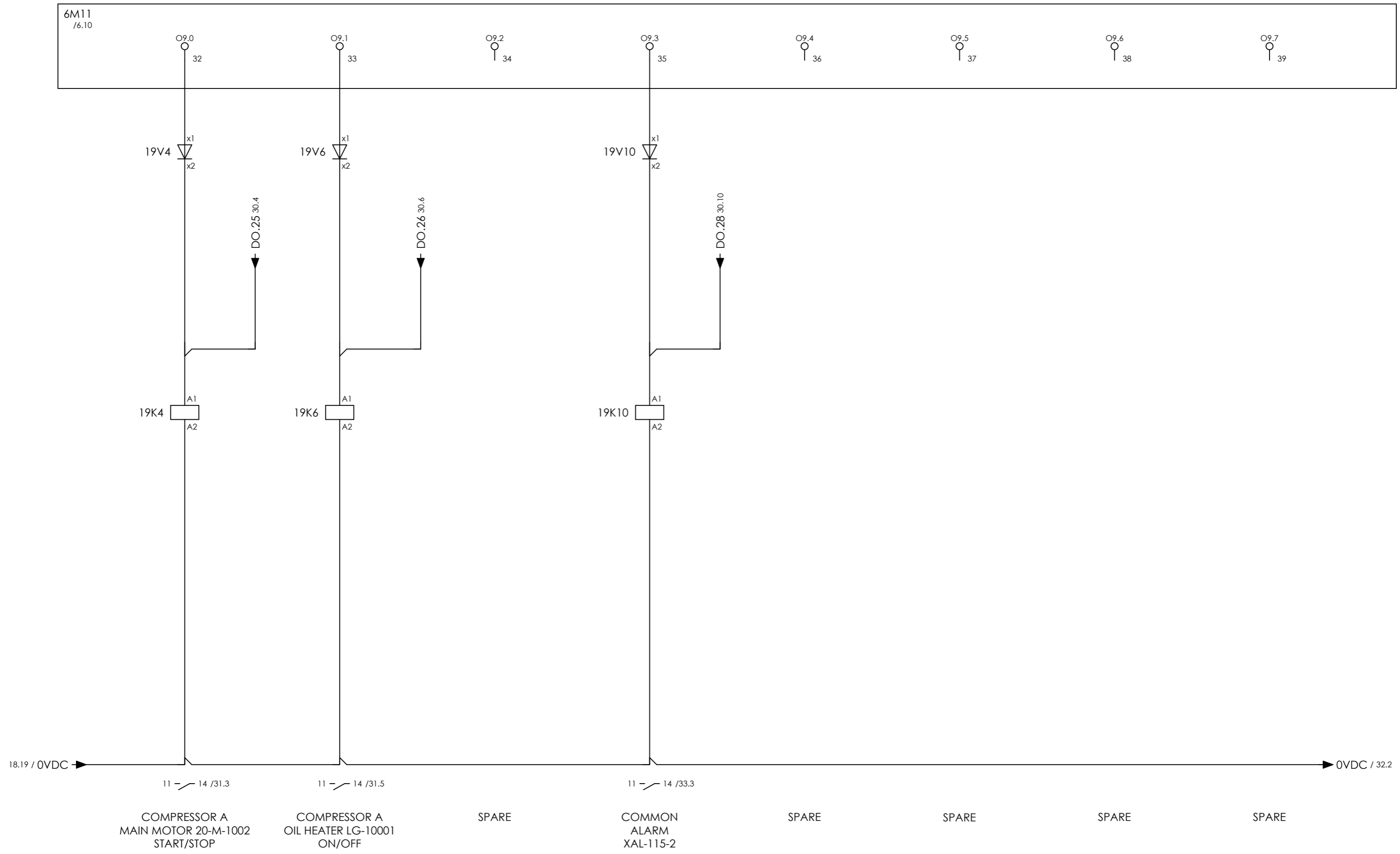
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LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	27	



COMPRESSOR A SOLENOID VALVE XY-001A COMPRESSOR A SOLENOID VALVE XY-002A SPARE SPARE SPARE SPARE SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	DIGITAL OUTPUTS I		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	28	



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

COMPRESSOR A
OIL HEATER LG-10001
ON/OFF

SPARE

COMMON
ALARM
XAL-115-2

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

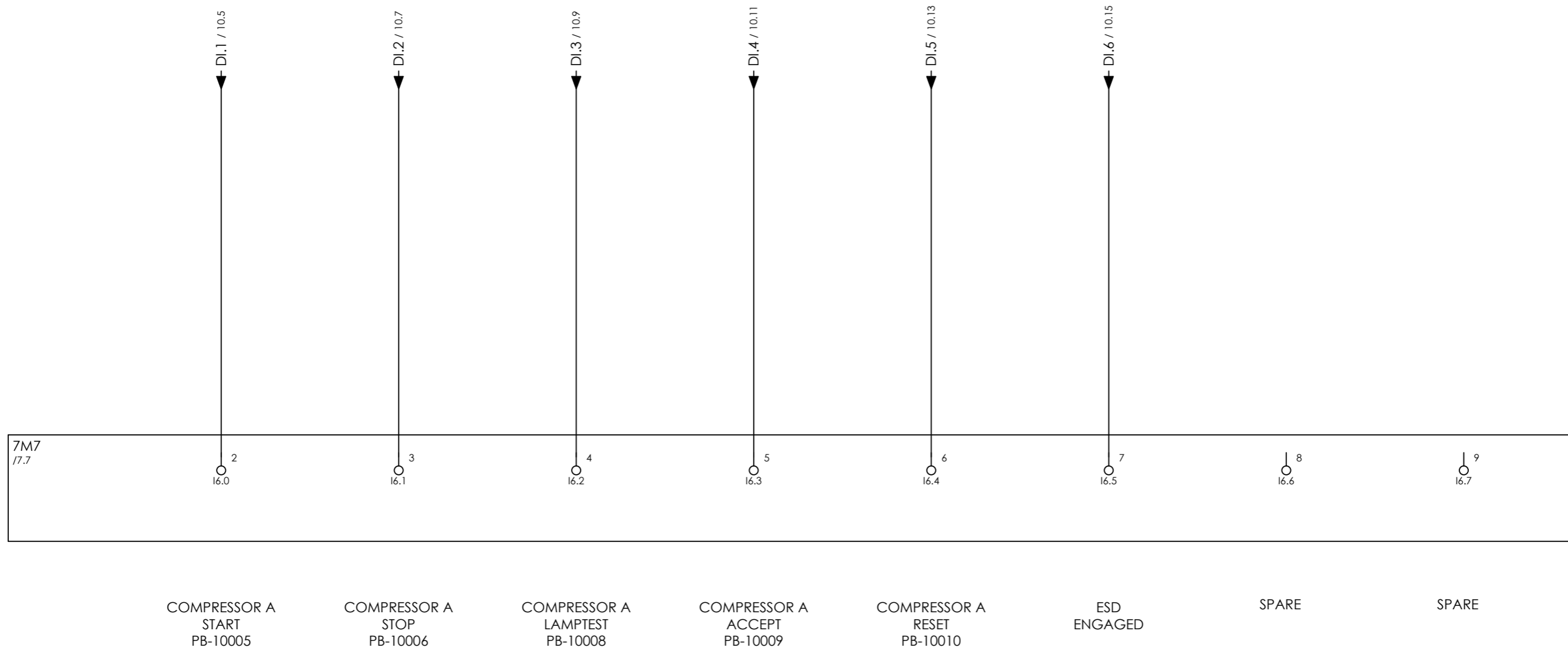
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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	29

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	EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
			CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
			CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
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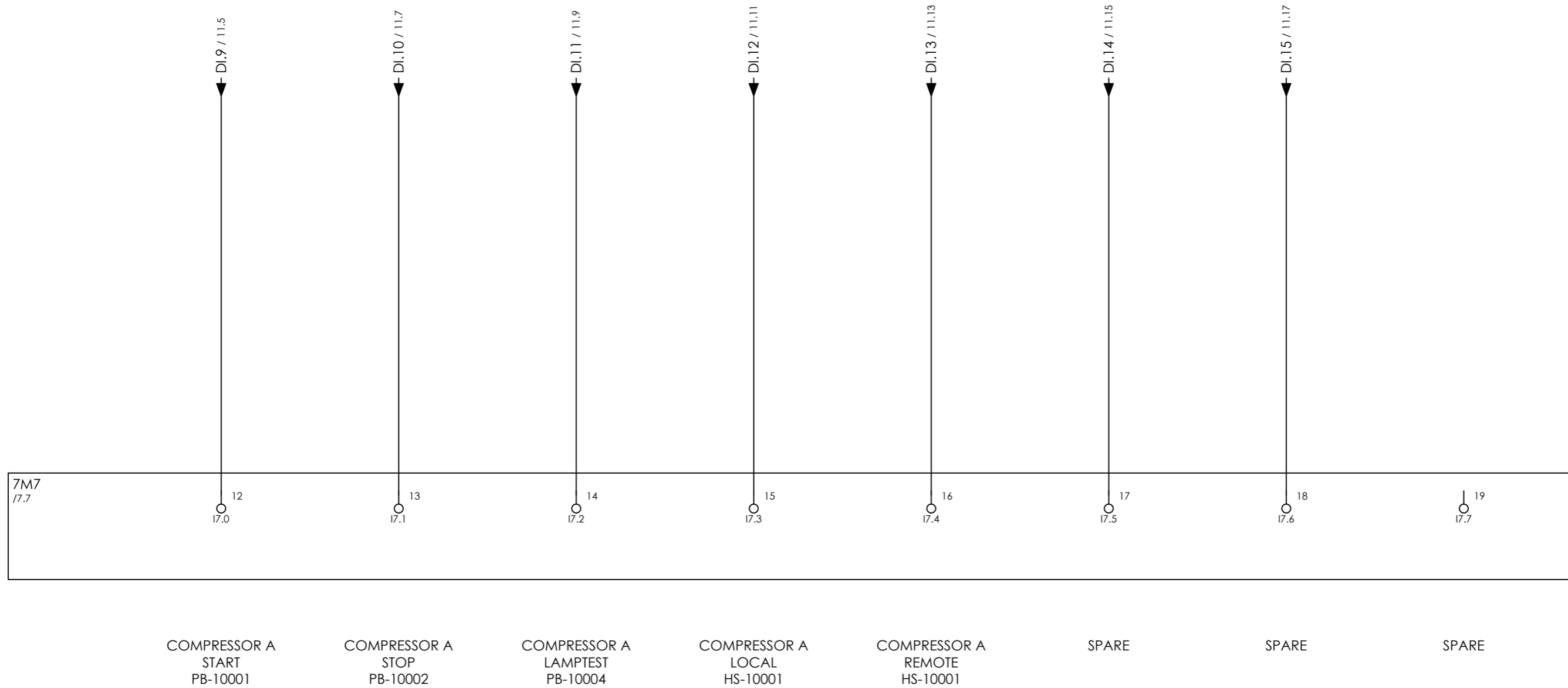


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	htaher
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LAST MODIFICATION DATE	14/10/2021
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REVISION	01
TOTAL PAGE AMOUNT	31

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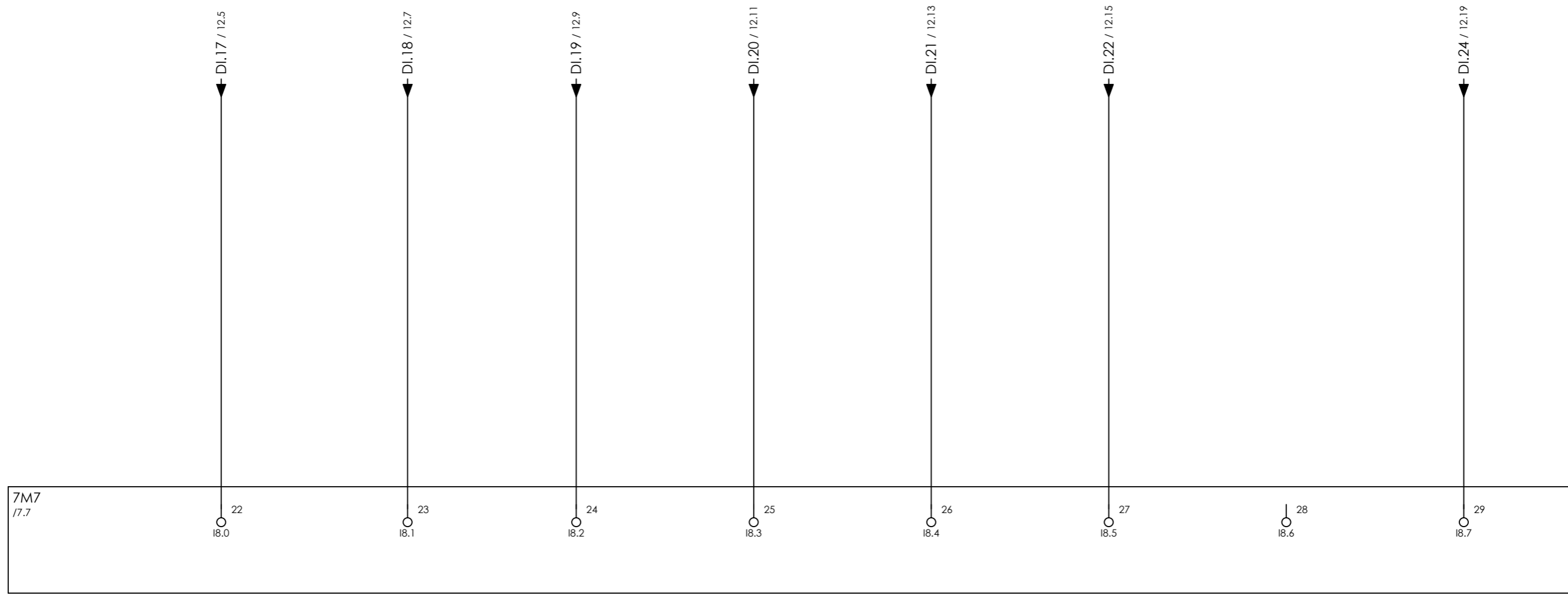


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	32

= 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-10001
ON

COMPRESSOR A
OIL HEATER LG-10001
FAULT

SPARE

SPARE

SPARE

TIME
SYNCHRONIZATION
XCS-115

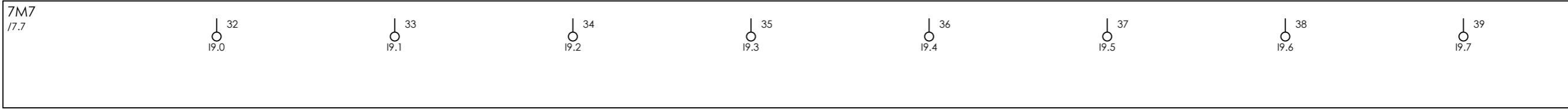


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

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CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	33

= 20-C-1002
+ UCP-C1002-01
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SPARE SPARE 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 INPUTS II	
ADAPTED TO P&ID REVISION	01

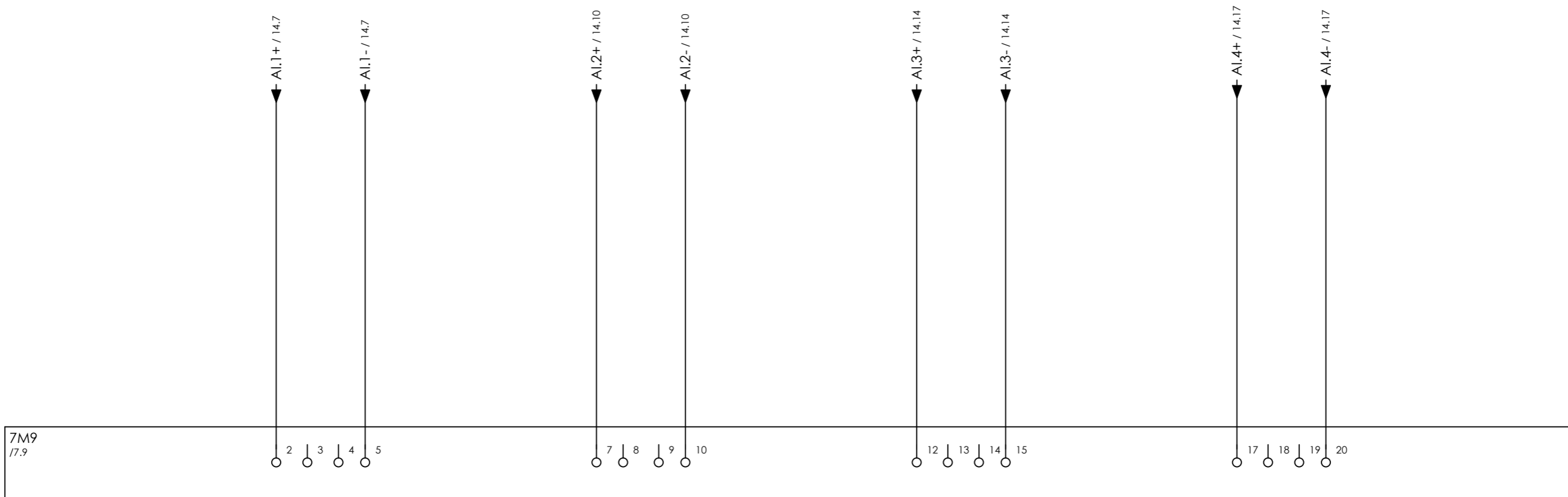
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021

AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	34

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COMPRESSOR A
INLET PRESSURE
PIT-10003

COMPRESSOR A
OIL SYSTEM PRESSURE
PIT-10004

COMPRESSOR A
OUTLET PPRESSION
PIT-10007

COMPRESSOR A
INLET TEMPERATURE
TIT-10001



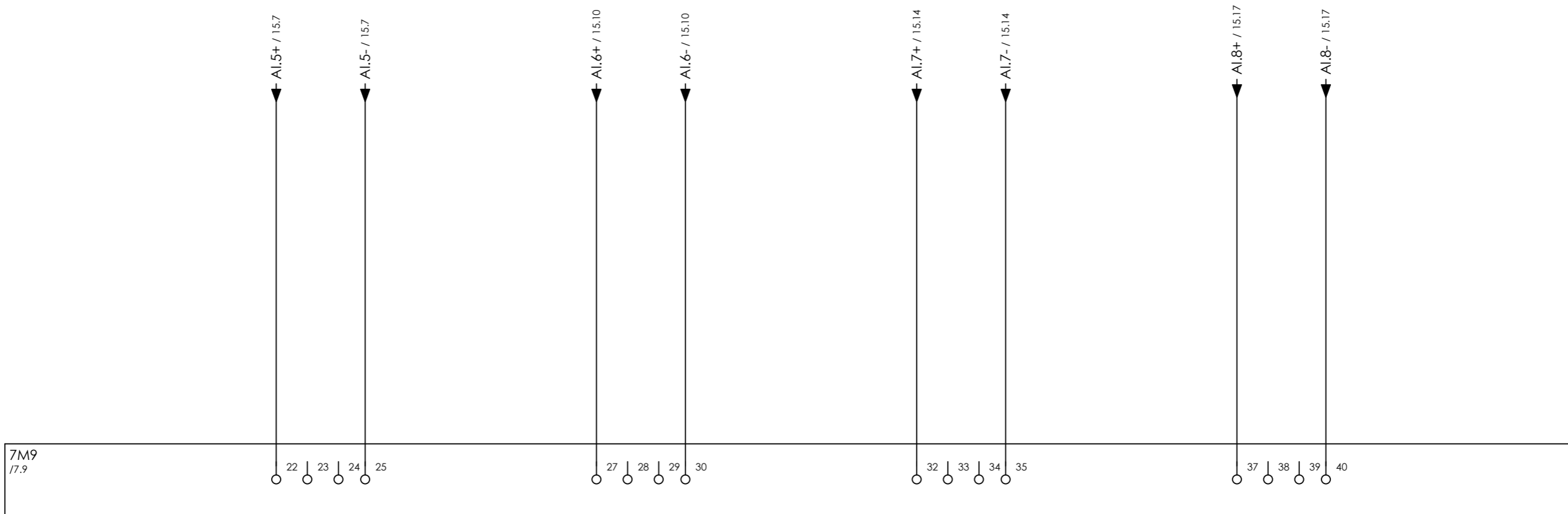
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT ANALOG INPUTS II	
ADAPTED TO P&ID REVISION	01
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	01
TOTAL PAGE AMOUNT	35

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



COMPRESSOR A
UPSTREAM AFTER COOLER TEMPERATURE
TIT-10002

COMPRESSOR A
COOLING WATER OUTLET FLOW
FT-10001

COMPRESSOR A
BEARING VIBRATION
VT-10001

SPARE

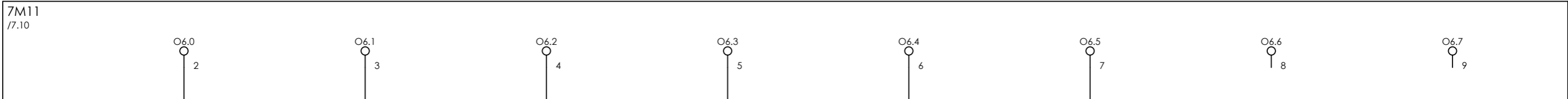


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	36

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



27V4
x1
x2
16.5 / DO.1

27V6
x1
x2
16.7 / DO.2

27V8
x1
x2
16.9 / DO.3

27V10
x1
x2
16.11 / DO.4

27V12
x1
x2
16.13 / DO.5

27V14
x1
x2
16.15 / DO.6

COMPRESSOR A
OPERATIONAL
XL-10006

COMPRESSOR A
RUNNING
XL-10007

COMPRESSOR A
COMMON ALARM
XL-10008

COMPRESSOR A
COMMON TRIP
XL-10009

COMPRESSOR A
HOURMETER
HM-10001

RESET
ESD RELAY

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	
ADAPTED TO P&ID REVISION	01
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	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	37

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



COMPRESSOR A
OPERATIONAL
XL-10001

COMPRESSOR A
RUNNING
XL-10002

COMPRESSOR A
COMMON ALARM
XL-10003

COMPRESSOR A
COMMON TRIP
XL-10004

SPARE

SPARE

COMPRESSOR A
FORCED SHUTDOWN

SPARE

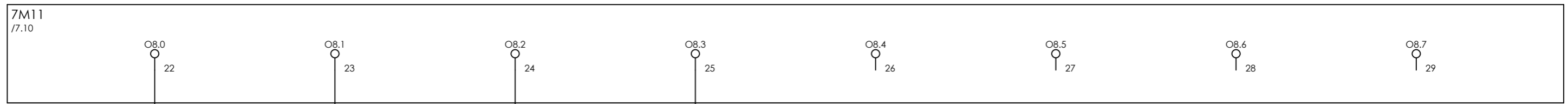


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	38

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



COMPRESSOR A
SOLENOID VALVE
XY-001A

COMPRESSOR A
SOLENOID VALVE
XY-002A

SPARE

SPARE

SPARE

SPARE

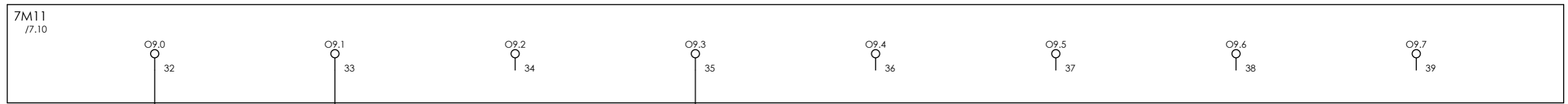
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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	htaher	= 20-C-1002
DIGITAL OUTPUTS II		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	39	



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

COMPRESSOR A
OIL HEATER LG-10001
ON/OFF

SPARE

COMMON
ALARM
XAL-115-2

SPARE

SPARE

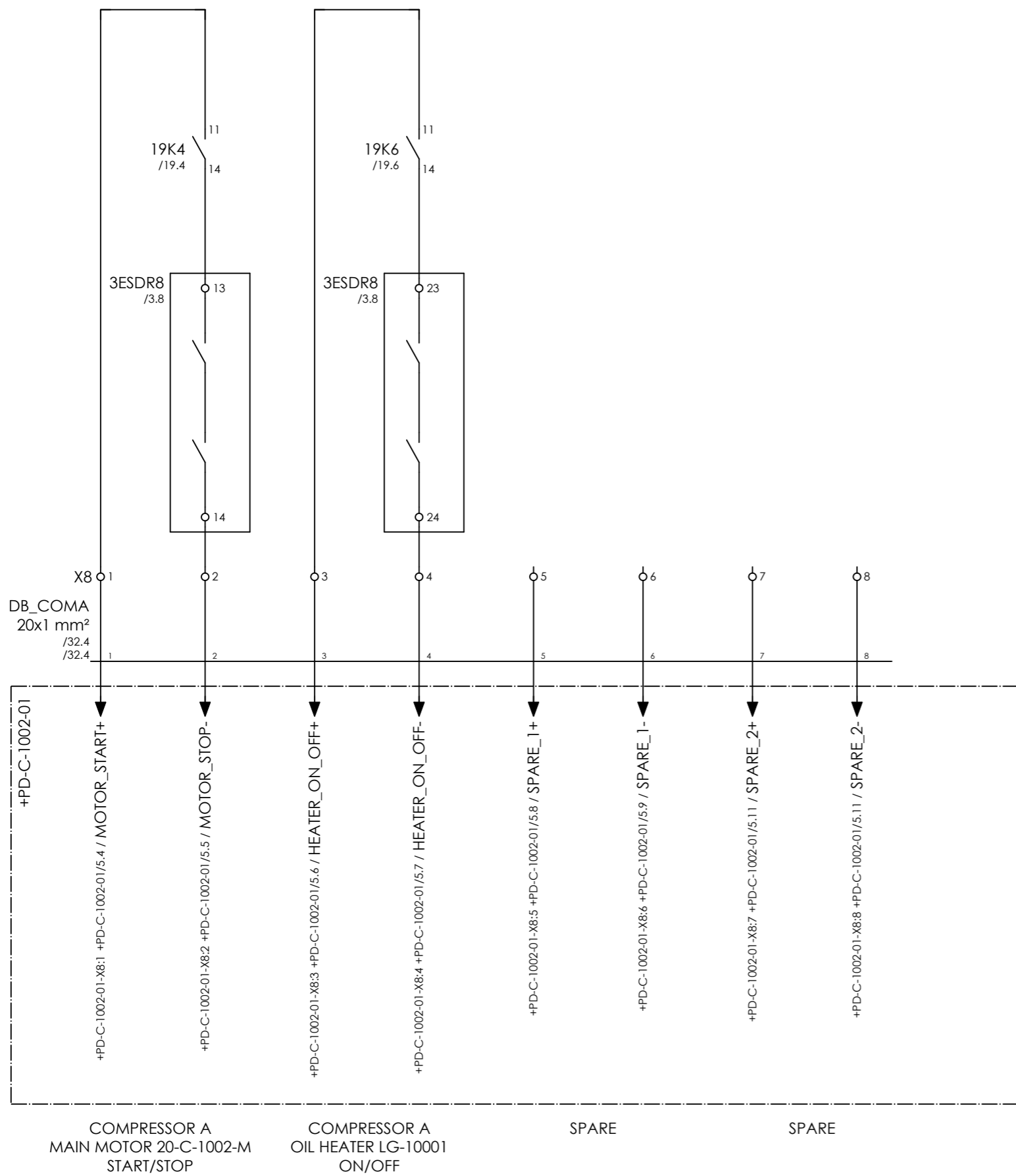
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	htaher	= 20-C-1002
DIGITAL OUTPUTS II		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	40	



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

COMPRESSOR A
OIL HEATER LG-10001
ON/OFF

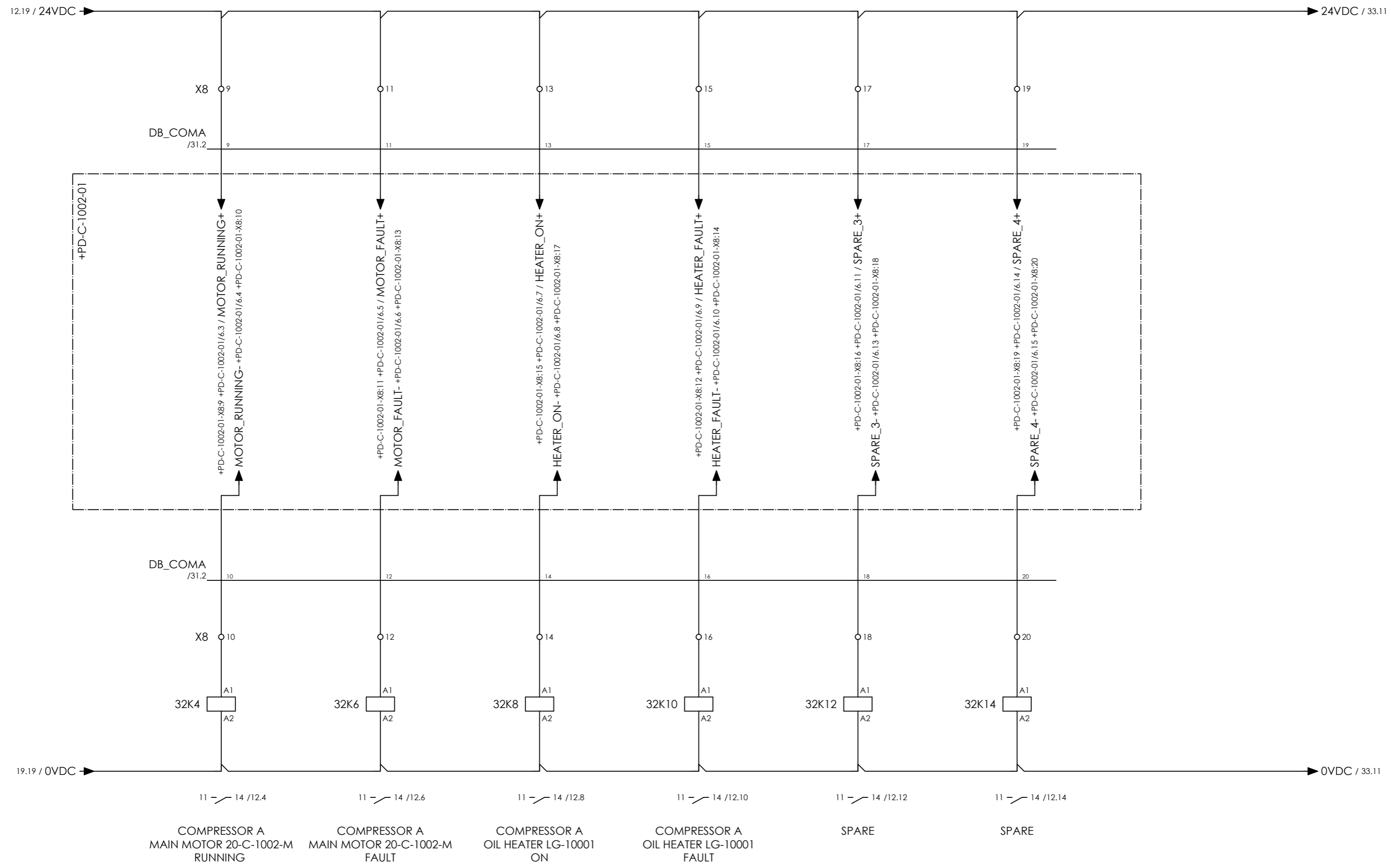
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SPARE

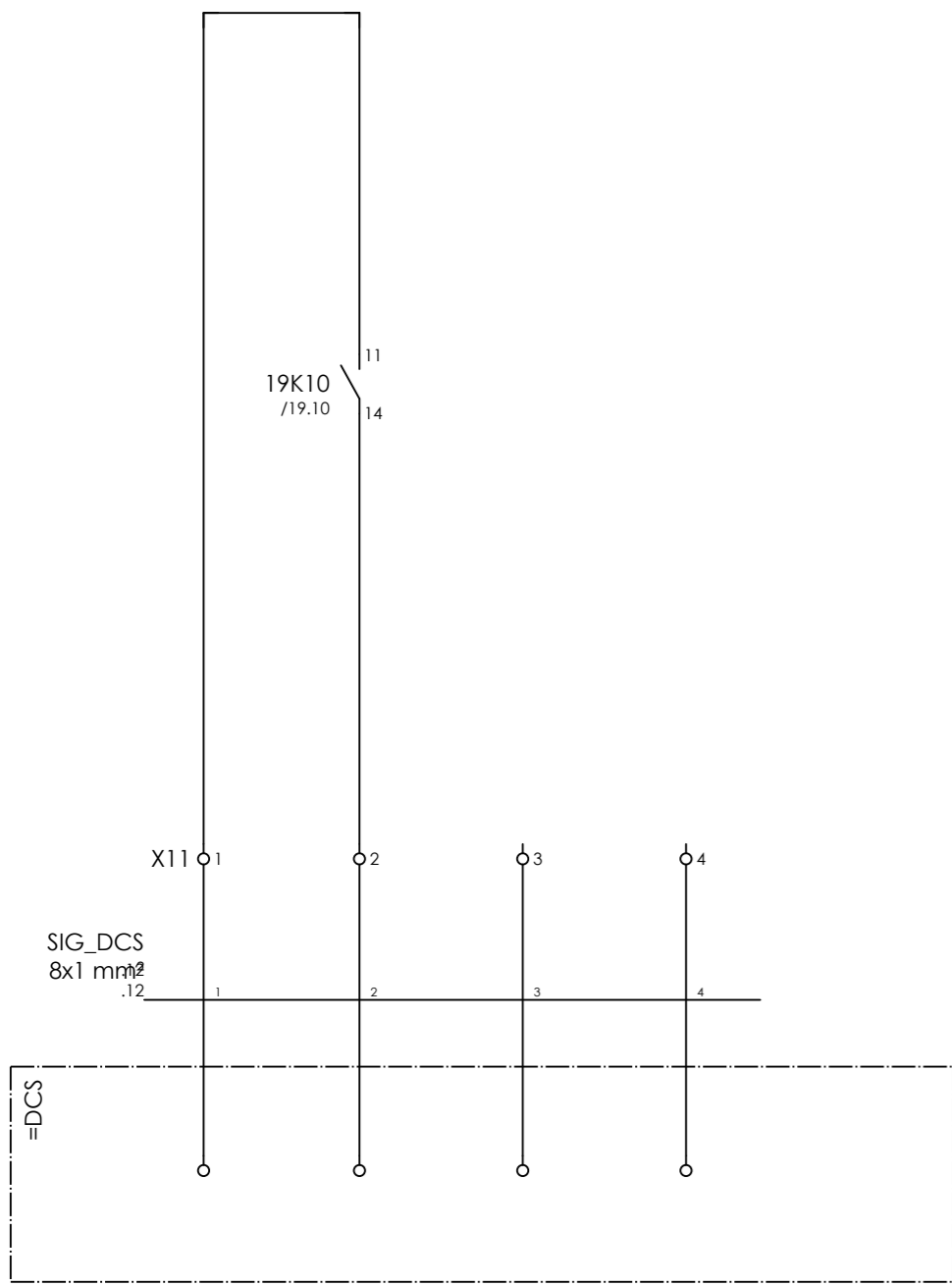


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY		htaher		= 20-C-1002	
SIGNALS TO DISTRIBUTION BOARD		CHECKED BY		RBE		+ UCP-C1002-01	
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021		CURRENT PAGE		
CLIENT	Bushehr Petrochemical Company (BUPC)		AIRPACK DWG NO.	17811-05			
CLIENT REF.	Bushehr MEG Plant Project		REVISION	01			
AIRPACK REF.	17811-05A		TOTAL PAGE AMOUNT	41			

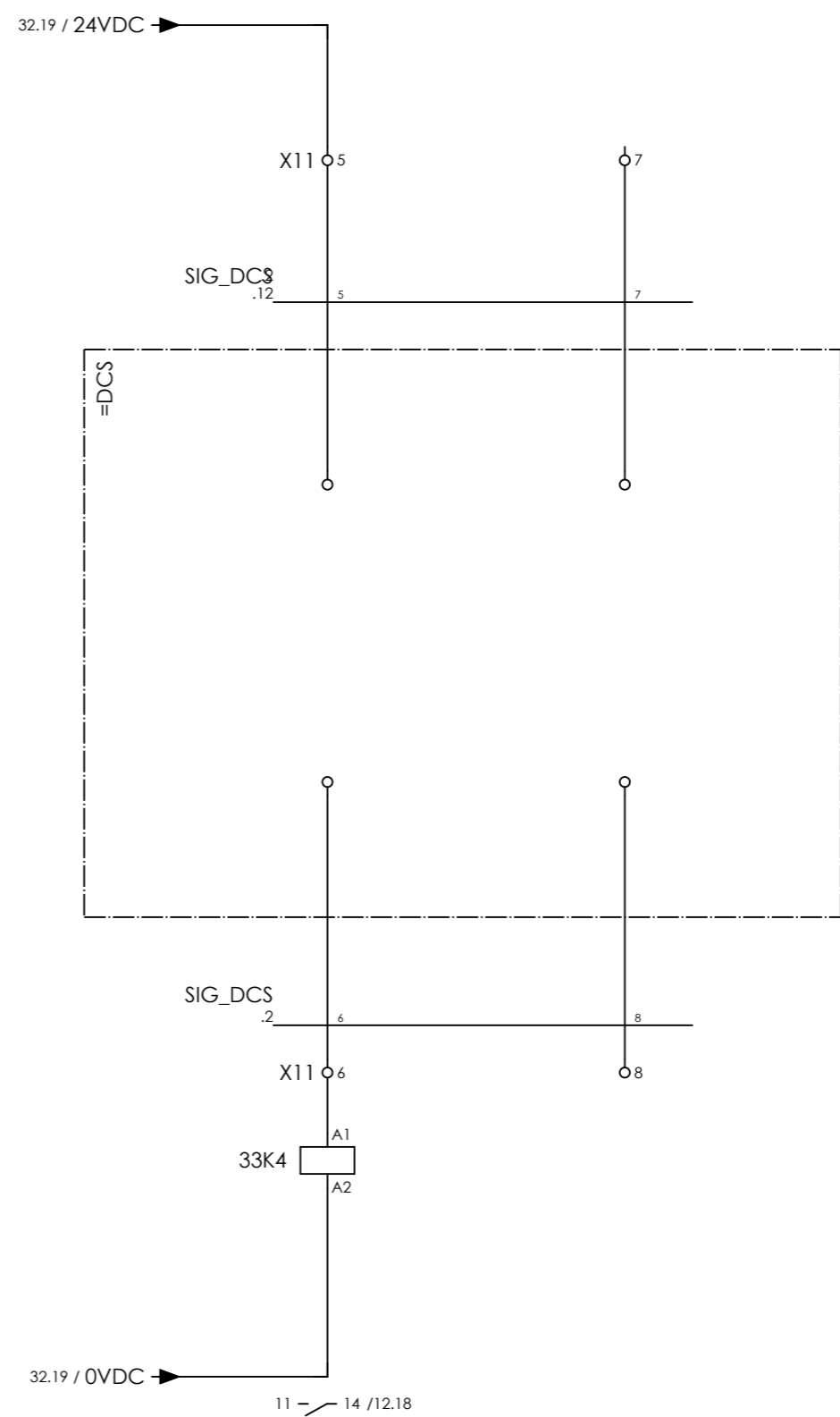


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	SIGNALS FROM DISTRIBUTION BOARD		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	42	



COMMON ALARM XAL-115-2

SPARE



TIME SYNCHRONIZATION XCS-115

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 TO / FROM DCS	
ADAPTED TO P&ID REVISION	01
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	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	43

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

Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X0 POWER SUPPLY 110VAC / 230VAC FROM CUSTOMER							Cable name	
Terminal	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	
-PS_02	3x2.5 sqmm	1	.	=CUSTOMER-L	-2S2	2	.	=CUSTOMER-N	4	
-PS_01	3x2.5 sqmm	2	.	=CUSTOMER-N	-2S2	3	.	=CUSTOMER-PE	PE	
-PS_00	3x2.5 sqmm	3	.	=CUSTOMER-PE		4	.	=CUSTOMER-L	2	
		4	.	=CUSTOMER-L	-2S4	5	.	=CUSTOMER-N	4	
		5	.	=CUSTOMER-N	-2S4	6	.	=CUSTOMER-PE	PE	
		6	.	=CUSTOMER-PE		7	.	=CUSTOMER-L	2	
		7	.	=CUSTOMER-L	-2S6	8	.	=CUSTOMER-N	4	
		8	.	=CUSTOMER-N	-2S6	9	.	=CUSTOMER-PE	PE	
		9	.	=CUSTOMER-PE						



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043
 EQUIPMENT NO. 20-C-1002
 EQUIPMENT LOCATION Iran, Onshore
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SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X0
 ADAPTED TO P&ID REVISION 01
 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 01
 TOTAL PAGE AMOUNT 44

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

Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X2 ANALOGUE INPUTS						Cable name	
Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	Connection point	Terminal	Target designation	
1	1+	+JIAX-C1002-01-X2	1+	.	-9U4	1+	1+		
2	1-	+JIAX-C1002-01-X2	1-	.	-9U4	3	3		
3	2+	+JIAX-C1002-01-X2	2+	.	-9U5	1+	1+		
4	2-	+JIAX-C1002-01-X2	2-	.	-9U5	3	3		
5	3+	+JIAX-C1002-01-X2	3+	.	-9U6	1+	1+		
6	3-	+JIAX-C1002-01-X2	3-	.	-9U6	3	3		
7	4+	+JIAX-C1002-01-X2	4+	.	-9U7	1+	1+		
8	4-	+JIAX-C1002-01-X2	4-	.	-9U7	3	3		
9	5+	+JIAX-C1002-01-X2	5+	.	-9U8	1+	1+		
10	5-	+JIAX-C1002-01-X2	5-	.	-9U8	3	3		
11	6+	+JIAX-C1002-01-X2	6+	.	-9U9	1+	1+		
12	6-	+JIAX-C1002-01-X2	6-	.	-9U9	3	3		
13	7+	+JIAX-C1002-01-X2	7+	.	-9U10	1+	1+		
14	7-	+JIAX-C1002-01-X2	7-	.	-9U10	3	3		
15	8+	+JIAX-C1002-01-X2	8+	.					
16	8-	+JIAX-C1002-01-X2	8-	.					
17	9+	+JIAX-C1002-01-X2	9+	.					
18	9-	+JIAX-C1002-01-X2	9-	.					
19	10+	+JIAX-C1002-01-X2	10+	.					
20	10-	+JIAX-C1002-01-X2	10-	.					



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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	Terminal diagram =20-C-1002+UCP-C1002-01-X2
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	01
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.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	46	

Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X5 CONNECTION PUSHBUTTONS / LAMPS										Cable name	
Terminal	Connection point	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	Target designation	Connection point	Terminal	Connection point
-LCP_COMA	26x1 mm ²												
1	1	+LP-C1002-01-X5	1	1	•	-9V4	1	1	x1				
2	2	+LP-C1002-01-X5	2	2	•	-6M7	2	2	12				
3	3	+LP-C1002-01-X5	3	3	•		3	3					
4	4	+LP-C1002-01-X5	4	4	•	-6M7	4	4	13				
5	5	+LP-C1002-01-X5	5	5	•		5	5					
6	6	+LP-C1002-01-X5	6	6	•	-6M7	6	6	14				
7	7	+LP-C1002-01-X5	7	7	•		7	7					
8	8	+LP-C1002-01-X5	8	8	•	-6M7	8	8	15				
9	9	+LP-C1002-01-X5	9	9	•		9	9					
10	10	+LP-C1002-01-X5	10	10	•	-6M7	10	10	16				
11	11	+LP-C1002-01-X5	11	11	•		11	11					
12	12	+LP-C1002-01-X5	12	12	•	-6M7	12	12	17				
13	13	+LP-C1002-01-X5	13	13	•	-24K4	13	13	11				
14	14	+LP-C1002-01-X5	14	14	•	-6M7	14	14	18				
15	15	+LP-C1002-01-X5	15	15	•	-6M11	15	15	12				
16	16	+LP-C1002-01-X5	16	16	•	-14U8	16	16	15(-)				
17	17	+LP-C1002-01-X5	17	17	•	-6M11	17	17	13				
18	18	+LP-C1002-01-X5	18	18	•		18	18					
19	19	+LP-C1002-01-X5	19	19	•	-6M11	19	19	14				
20	20	+LP-C1002-01-X5	20	20	•		20	20					
21	21	+LP-C1002-01-X5	21	21	•	-6M11	21	21	15				
22	22	+LP-C1002-01-X5	22	22	•		22	22					
23	23	+LP-C1002-01-X5	23	23	•	-6M11	23	23	16				
24	24	+LP-C1002-01-X5	24	24	•		24	24					
25	25	+LP-C1002-01-X5	25	25	•	-6M11	25	25	17				
26	26	+LP-C1002-01-X5	26	26	•	-19K16	26	26	A2				



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-X5
 ADAPTED TO P&ID REVISION 01
 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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= 20-C-1002
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Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X8 SIGNALS TO / FROM DISTRIBUTION BOARD										Cable name	
Terminal	Connection point	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	Target designation	Connection point	Terminal	Connection point
-DB_COMA	20x1 mm²												
1	1	+PD-C-1002-01-X8	1	1	.	-19K4	11	1	1				
2	2	+PD-C-1002-01-X8	2	2	.	-3ESDR8	14	2	2				
3	3	+PD-C-1002-01-X8	3	3	.	-19U6	14	3	3				
4	4	+PD-C-1002-01-X8	4	4	.	-3ESDR8	24	4	4				
5	5	+PD-C-1002-01-X8	5	5	.			5	5				
6	6	+PD-C-1002-01-X8	6	6	.			6	6				
7	7	+PD-C-1002-01-X8	7	7	.			7	7				
8	8	+PD-C-1002-01-X8	8	8	.			8	8				
9	11	+PD-C-1002-01-X8	11	9	.	-34K4	9	9	9				
10	10	+PD-C-1002-01-X8	10	10	.	-32K4	A1	10	10				
11		+PD-C-1002-01-X8		11	.		11	11	11				
12	13	+PD-C-1002-01-X8	13	12	.	-32K6	A1	12	12				
13		+PD-C-1002-01-X8		13	.		15	13	13				
14	17	+PD-C-1002-01-X8	17	14	.	-32K8	A1	14	14				
15		+PD-C-1002-01-X8		15	.		12	15	15				
16	14	+PD-C-1002-01-X8	14	16	.	-32K10	A1	16	16				
17		+PD-C-1002-01-X8		17	.		16	17	17				
18	18	+PD-C-1002-01-X8	18	18	.	-32K12	A1	18	18				
19	1	+PD-C-1002-01-X8	1	19	.	-X11	19	19	19				
20	20	+PD-C-1002-01-X8	20	20	.	-32K14	A1	20	20				



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
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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. 17811-05
 REVISION 01
 TOTAL PAGE AMOUNT 49

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TERMINAL STRIP DEFINITION

JUNCTION BOX
JNDX-C1002-01

X1 = CONNECTION SOLENOIDS

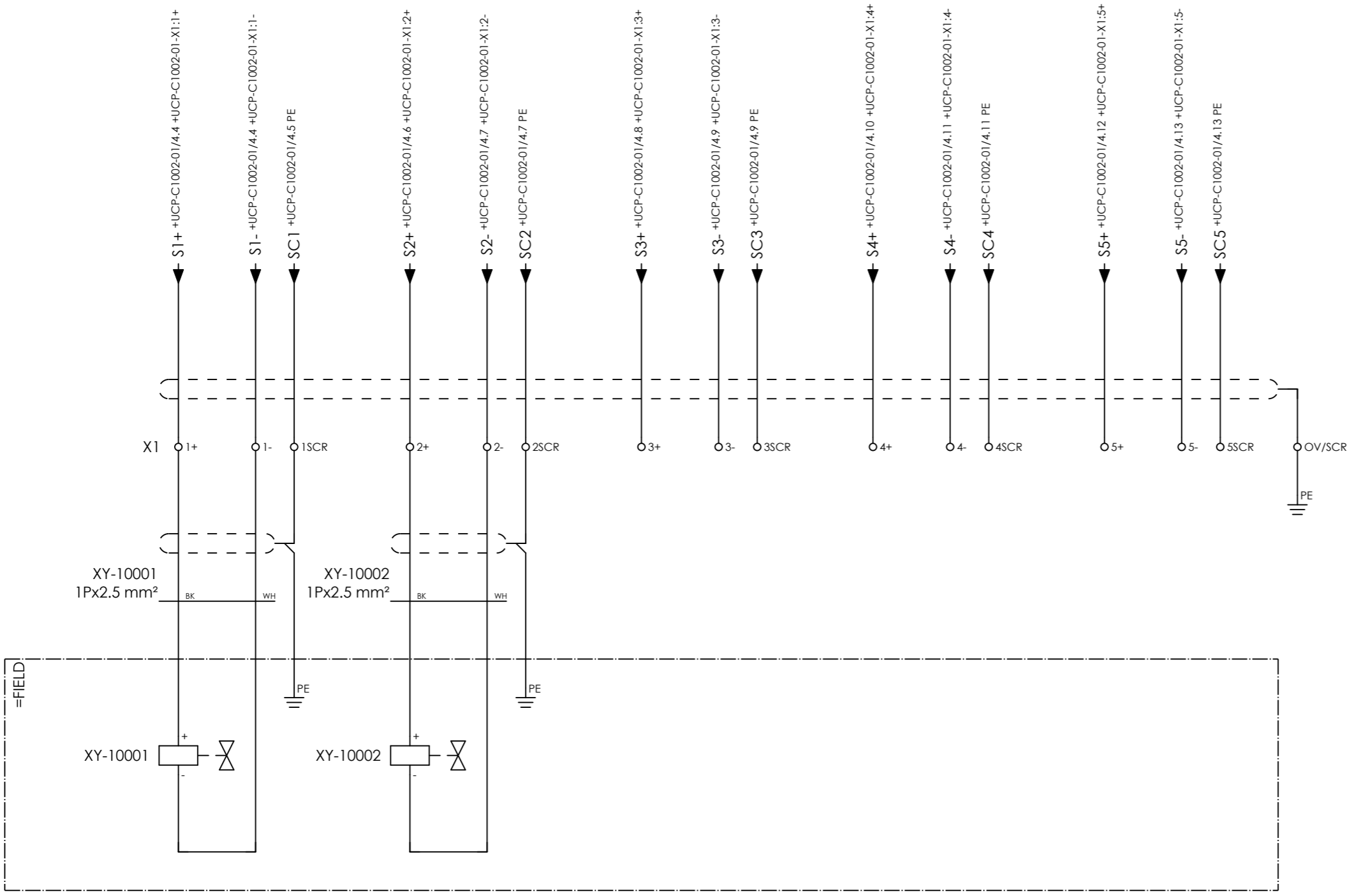


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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REVISION	
PAGE NUMBER	94

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+ JNDX-C1002-01
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COMPRESSOR A
INLET
SOLENOID VALVE
XY-10001

COMPRESSOR A
COOLING WATER INLET
SOLENOID VALVE
XY-10001

SPARE

SPARE

SPARE



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

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REVISION
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14/10/2021
+ JNDX-C1002-01
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Terminal diagram

Cable name		Strip =20-C-1002+JNDX-C1002-01-X1 CONNECTION SOLENOIDS										Cable name		
Cable name	Cross section	Connection point	Target designation	Jumper	Terminal	Connection point	Target designation	Connection point	Target designation	Jumper	Target designation	Connection point	Cross section	Cable name
+UCP-SOL_COMA	5Px2.5 mm²	1+	=FIELD-XY-10001	.	1+	+								
		1-	=FIELD-XY-10001	.	1-	-								
					1SCR									
		2+	=FIELD-XY-10002	.	2+	+								
		2-	=FIELD-XY-10002	.	2-	-								
					2SCR									
		3+		.	3+									
		3-		.	3-									
					3SCR									
		4+		.	4+									
		4-		.	4-									
					4SCR									
		5+		.	5+									
		5-		.	5-									
					5SCR									
					OV/SCR									
		PE												



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
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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. 17811-05
 REVISION 01
 TOTAL PAGE AMOUNT 54

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TERMINAL STRIP DEFINITION

JUNCTION BOX
JIAX-C1002-01

X2 = CONNECTION TRANSMITTERS

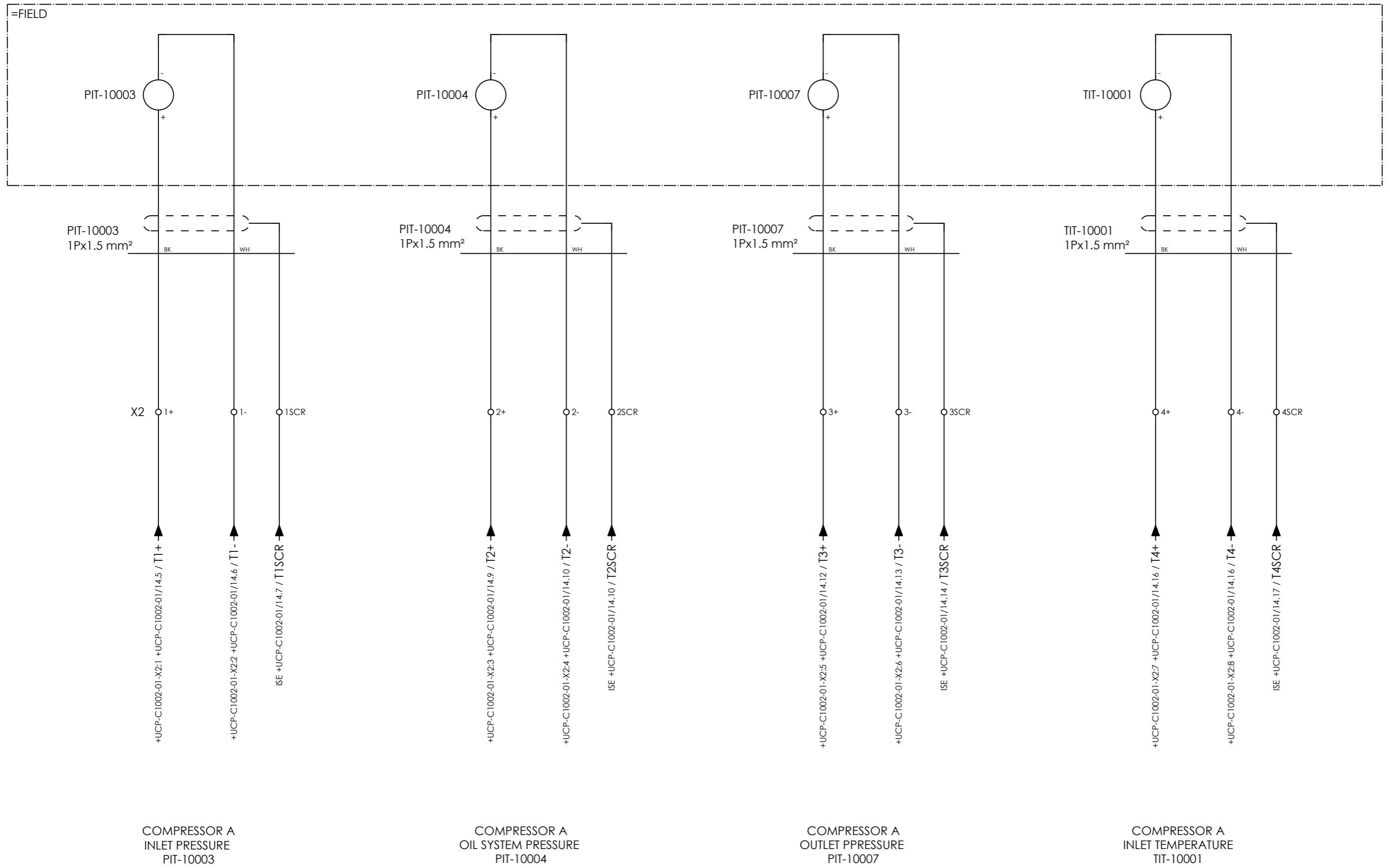


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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REVISION	
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+ JIAX-C1002-01
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COMPRESSOR A
INLET PRESSURE
PIT-10003

COMPRESSOR A
OIL SYSTEM PRESSURE
PIT-10004

COMPRESSOR A
OUTLET PRESSURE
PIT-10007

COMPRESSOR A
INLET TEMPERATURE
TIT-10001

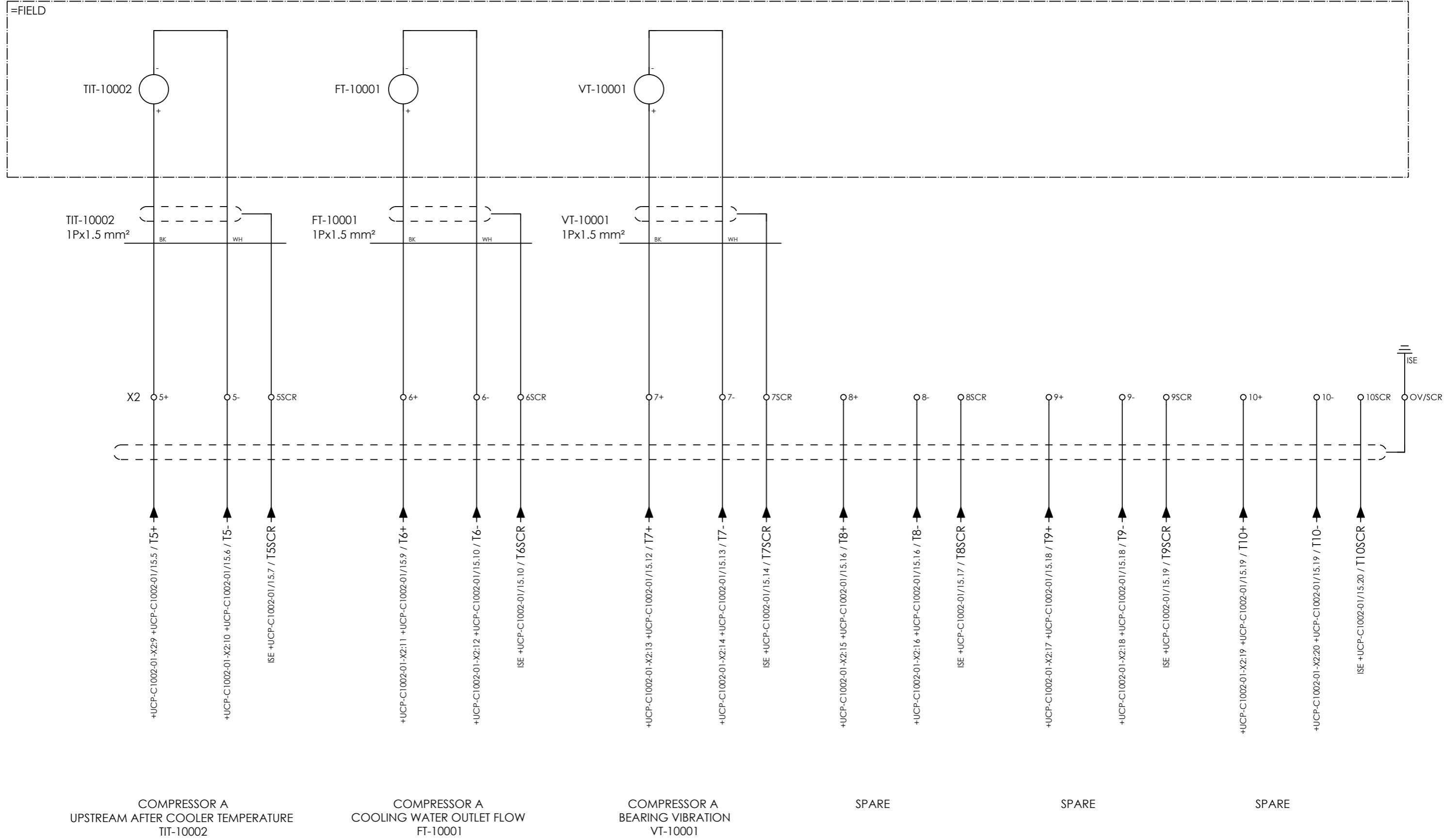


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
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AIRPACK REF.	17811-05A

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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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LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
AIRPACK DWG NO.		
REVISION		
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Terminal diagram

Cable name		Strip =20-C-1002+JIAX-C1002-01-X2 CONNECTION TRANSMITTERS										Cable name									
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper		
=FIELD-PIT-10003	+	1+	.	+UCP-C1002-01-X2	1	1+	.	+UCP-C1002-01-X2	1												
=FIELD-PIT-10003	-	1-	.	+UCP-C1002-01-X2	2	1-	.	+UCP-C1002-01-X2	2												
		1SCR																			
=FIELD-PIT-10004	+	2+	.	+UCP-C1002-01-X2	3	2+	.	+UCP-C1002-01-X2	3												
=FIELD-PIT-10004	-	2-	.	+UCP-C1002-01-X2	4	2-	.	+UCP-C1002-01-X2	4												
		2SCR																			
=FIELD-PIT-10007	+	3+	.	+UCP-C1002-01-X2	5	3+	.	+UCP-C1002-01-X2	5												
=FIELD-PIT-10007	-	3-	.	+UCP-C1002-01-X2	6	3-	.	+UCP-C1002-01-X2	6												
		3SCR																			
=FIELD-TIT-10001	+	4+	.	+UCP-C1002-01-X2	7	4+	.	+UCP-C1002-01-X2	7												
=FIELD-TIT-10001	-	4-	.	+UCP-C1002-01-X2	8	4-	.	+UCP-C1002-01-X2	8												
		4SCR																			
=FIELD-TIT-10002	+	5+	.	+UCP-C1002-01-X2	9	5+	.	+UCP-C1002-01-X2	9												
=FIELD-TIT-10002	-	5-	.	+UCP-C1002-01-X2	10	5-	.	+UCP-C1002-01-X2	10												
		5SCR																			
-TIT-10002																					
-TIT-10001																					
-PIT-10007																					
-PIT-10004																					
-PIT-10003	BK																				
	WH																				



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+JIAX-C1002-01-X2
 ADAPTED TO P&ID REVISION 01
 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 01
 TOTAL PAGE AMOUNT 58

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TERMINAL STRIP DEFINITION

LOCAL CONTROL PANEL
LP-C1002-01

X5 = CONNECTION PUSHBUTTONS AND LAMPS
X9 = CONNECTION ESD BUTTON

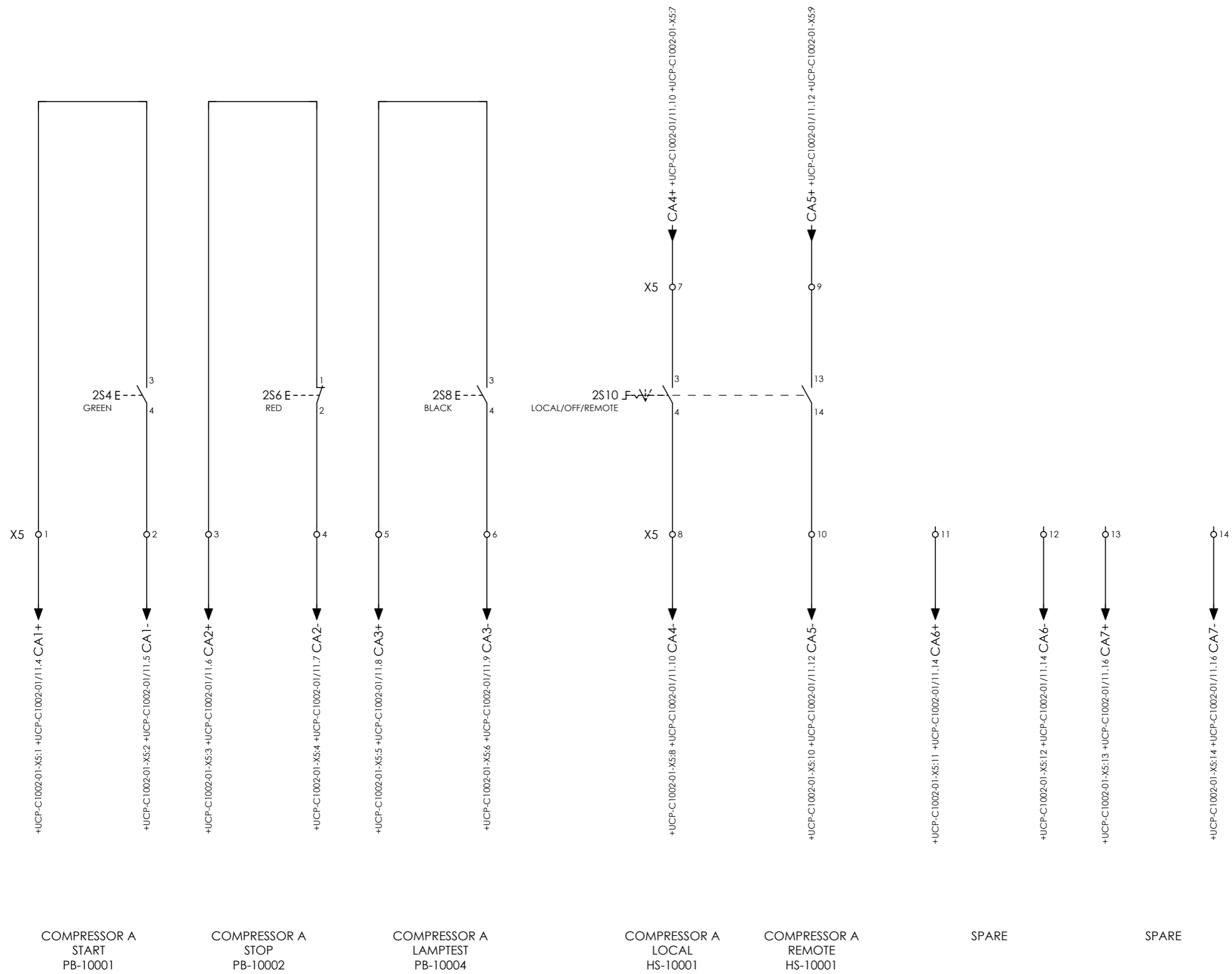


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

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REVISION	
PAGE NUMBER	94

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COMPRESSOR A
START
PB-10001

COMPRESSOR A
STOP
PB-10002

COMPRESSOR A
LAMPTEST
PB-10004

COMPRESSOR A
LOCAL
HS-10001

COMPRESSOR A
REMOTE
HS-10001

SPARE

SPARE

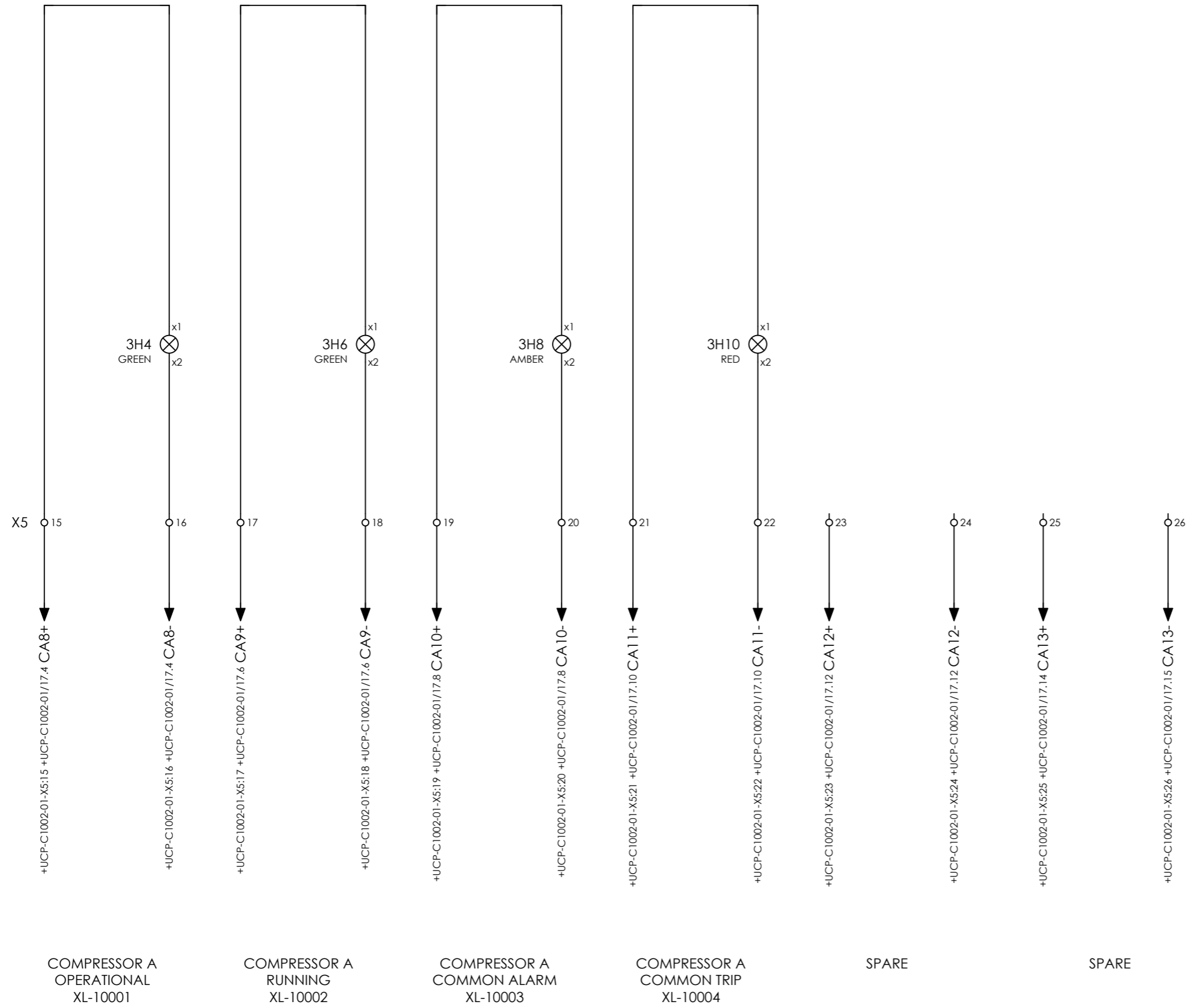


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION PUSHBUTTONS	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.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

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TOTAL PAGE AMOUNT	61

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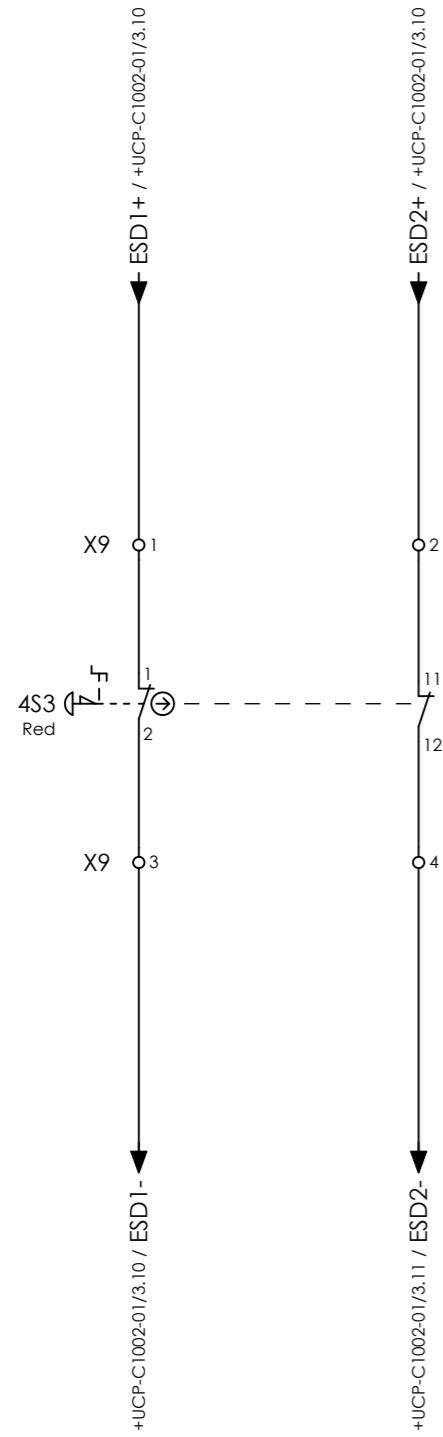


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

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AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	62

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COMPRESSOR A
ESD BUTTON
PB-10003



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	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	63

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

POWER DISTRIBUTION BOARD
PD-C-1002-01

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	
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	14/10/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	94

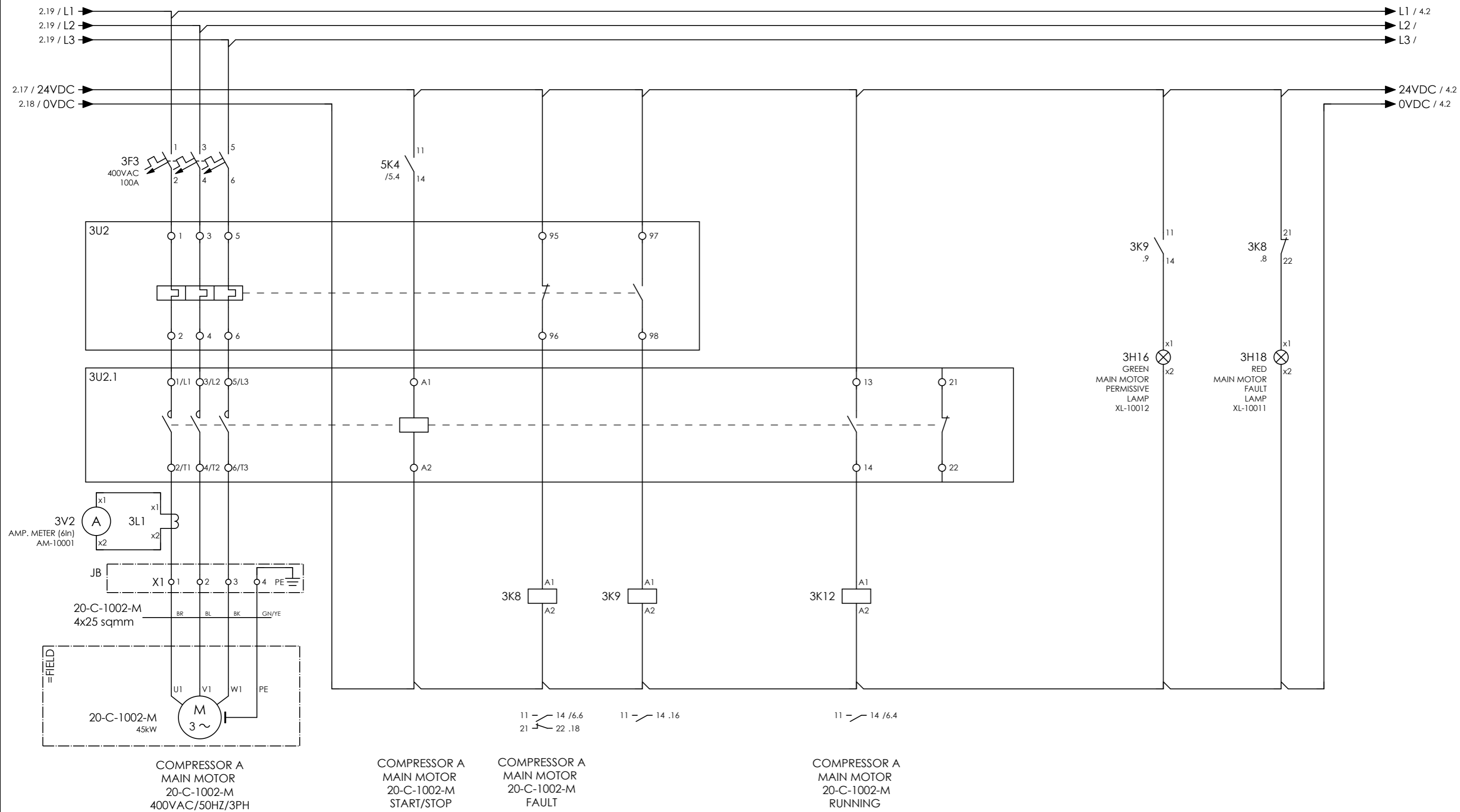
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+ PD-C-1002-01
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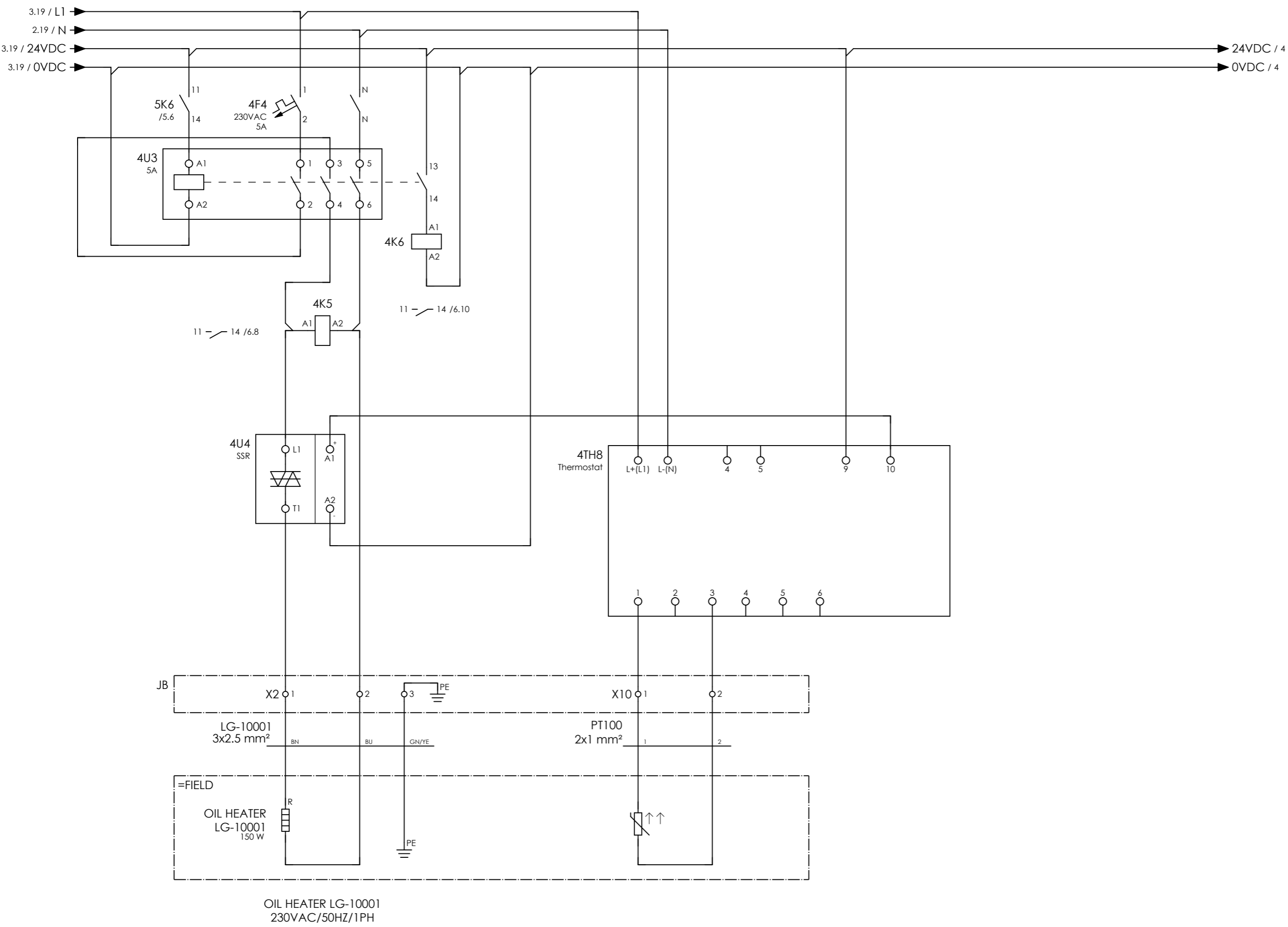


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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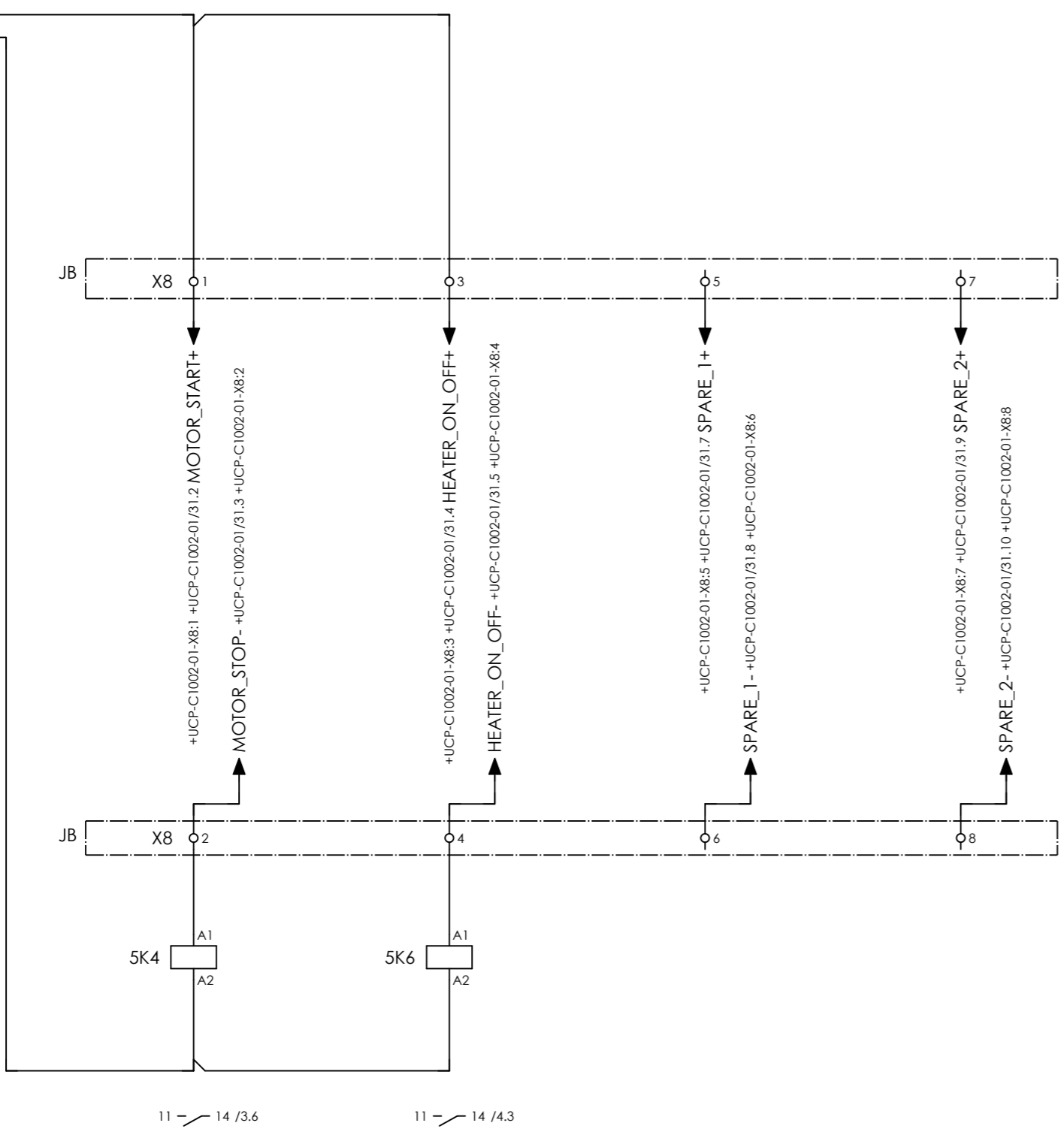
SUBJECT POWER SUPPLY	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	67	





/ 24VDC
/ -0VDC



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

COMPRESSOR A
OIL HEATER LG-10001
ON/OFF

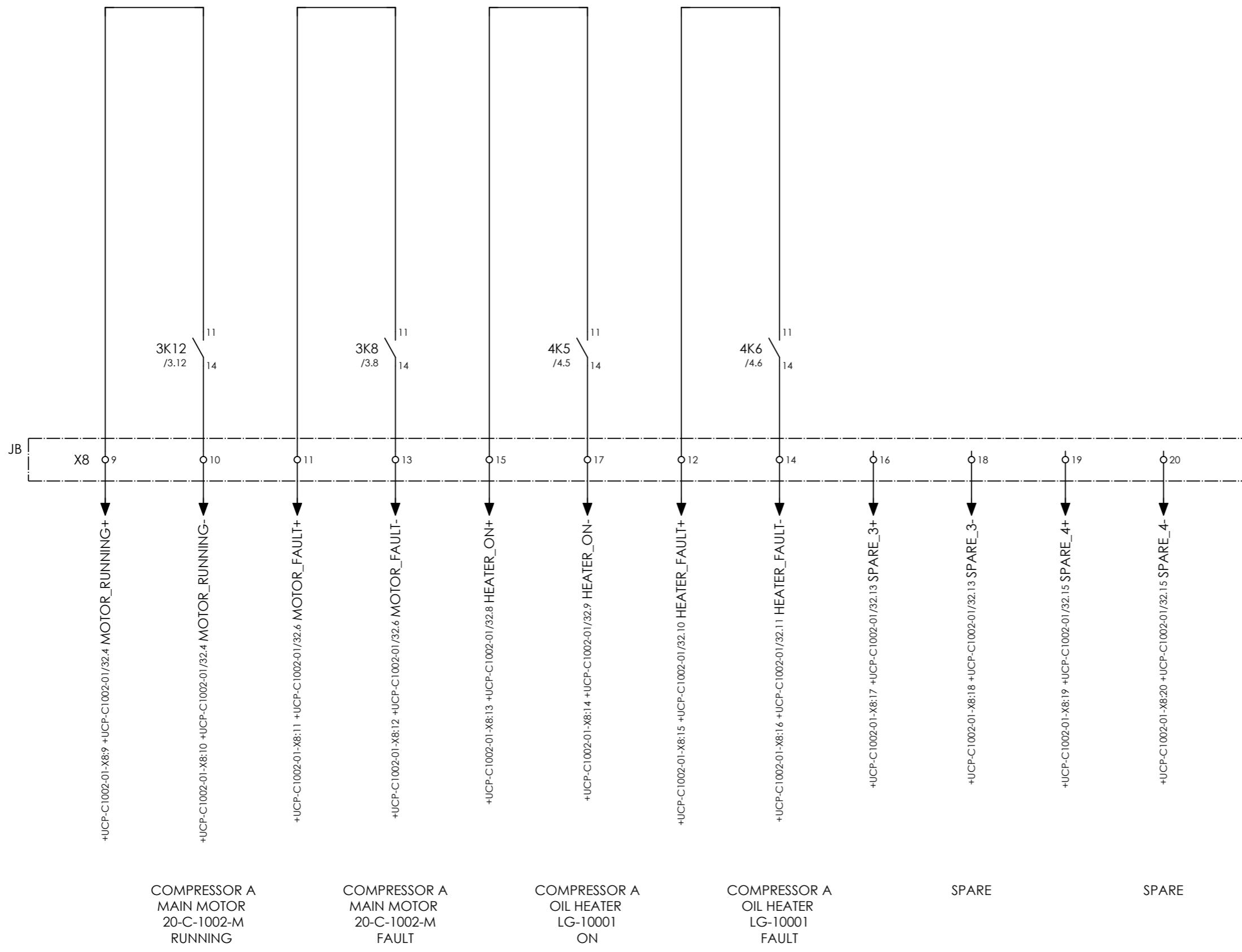
SPARE

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		DRAWN BY		htaher		= 20-C-1002	
SIGNALS FROM UCP		CHECKED BY		RBE		+ PD-C-1002-01	
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE		14/10/2021		CURRENT PAGE	
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.		17811-05			
CLIENT REF.	Bushehr MEG Plant Project	REVISION		01			
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT		70			



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

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

COMPRESSOR A
OIL HEATER
LG-10001
ON

COMPRESSOR A
OIL HEATER
LG-10001
FAULT

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		htaher	
SIGNALS TO UCP		CHECKED BY		RBE	
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE		14/10/2021	
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.		17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION		01	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT		71	

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



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+PD-C-1002-01-X0
 ADAPTED TO P&ID REVISION 01
 CLIENT Bushehr Petrochemical Company (BUPC)
 CLIENT REF. Bushehr MEG Plant Project
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 AIRPACK DWG NO. 17811-05
 REVISION 01
 TOTAL PAGE AMOUNT 72

= 20-C-1002
 + PD-C-1002-01
 CURRENT PAGE

Terminal diagram

Cable name		Connection point		Terminal		Jumper		Target designation	
Strip =20-C-1002+PD-C-1002-01-X10 CONNECTION PT100		1		1		.		-4TH8	
		2		2		.		-4TH8	
-PT100		2x1 mm²		1					
		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 Terminal diagram =20-C-1002+PD-C-1002-01-X10
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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. 17811-05
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