







<b>OWNER:</b>  شرکت سست و سویی توستر ایران (سهامی خاص)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>  <b>UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER</b>	<b>EPC CONTRACTOR:</b>  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT																				
<b>MC :</b>  شرکت سست و سویی توستر ایران (سهامی خاص)																						
<b>Owner Document Number: 17811-05A</b>	<table border="1"> <thead> <tr> <th>Project</th> <th>Area</th> <th>Phase</th> <th>Unit</th> <th>Dis.</th> <th>Doc.</th> <th>Seq.</th> </tr> </thead> <tbody> <tr> <td>BU</td> <td>20</td> <td>VD</td> <td>303</td> <td>IN</td> <td>DIG</td> <td>0093</td> </tr> </tbody> </table>	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	BU	20	VD	303	IN	DIG	0093	<table border="1"> <tr> <td colspan="2"><b>Contract No : 52-98/445</b></td> </tr> <tr> <td><b>Rev.:</b></td> <td><b>Page</b></td> </tr> <tr> <td>01</td> <td>1 of 78</td> </tr> </table>	<b>Contract No : 52-98/445</b>		<b>Rev.:</b>	<b>Page</b>	01	1 of 78
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- Please refer to comments on I/O List, P&ID and other relevant document.
- After FAT minimum of 20 % installed spare in all respects shall be available.
- Ventilation system (110 V, 50 Hz, UPS) fitted with dust filters and with extraction fans mounted on the top of cabinets shall be provided.
- TIT-10003 signal and wiring diagram is missed.
- Multi cable for connection pushbuttons and lamps on LCS not specified, please consider one 10Pair cable for LCS signals to UCP and arrange terminal strip accordingly.
- PB-10003 on local panel, for compressor ESD PB, I/O card connection is missed.
- Related I/O card for emergency shut down command from ESD to be specified and also ESD command on the UCP panel.
- Please modify device tag list in page 8 same as following table :





Component list

Tag	Quantity	Designation	Type number	Manufacturer	Manufacturer part number
-40K1	1	Relay module	TRS 230VAC RC 2CO AU	WEIDMÜLLER	1123810000

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

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

Class: 1      Phase: P

<b>OWNER:</b>  شرکت ست دوی توسعه ایرانین (سامی تاسیس)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>						<b>EPC CONTRACTOR:</b> 		
	<b>UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER</b>								
<b>MC :</b>  	<b>Project</b>	<b>Area</b>	<b>Phase</b>	<b>Unit</b>	<b>Dis.</b>	<b>Doc.</b>	<b>Seq.</b>	<b>Contract No : 52-98/445</b>	
<b>Owner Document Number: 17811-05A</b>	<b>BU</b>	<b>20</b>	<b>VD</b>	<b>303</b>	<b>IN</b>	<b>DIG</b>	<b>0043</b>	<b>Rev.:</b>	<b>Page</b>
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# 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	:	06/11/2020	
E & I manager	:	RBE	Revision no. : 01
Last modifications	:	18/10/2021	
Last modifications by	:	htaher	



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	=
EQUIPMENT NO.	20-C-1002	Title page / cover sheet		CHECKED BY	RBE	+
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	1
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		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'

(RAL 9006) Gray

Eex'd' shall be used as per your deviation list in TCL.

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

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

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

AMBIENT TEMPERATURE: 5 / 55 °C

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

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

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

## COLOUR CODES INTERNAL WIRING

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

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		AIRPACK REF.	17811-05A	

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=20-C-1002+PD-C-1002-01/1	TERMINAL STRIP DEFINITION	66	12/10/2021	htaher



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

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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
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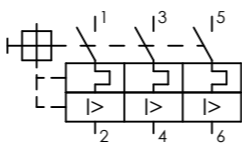
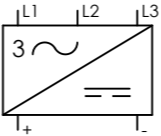
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AIRPACK DWG NO.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	8	

# 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	EL-03: description shall be specified.	400VAC 24VDC 5A	

Device tag	Function text	Tech. car.	Symbol

TERMINAL STRIP DEFINITION

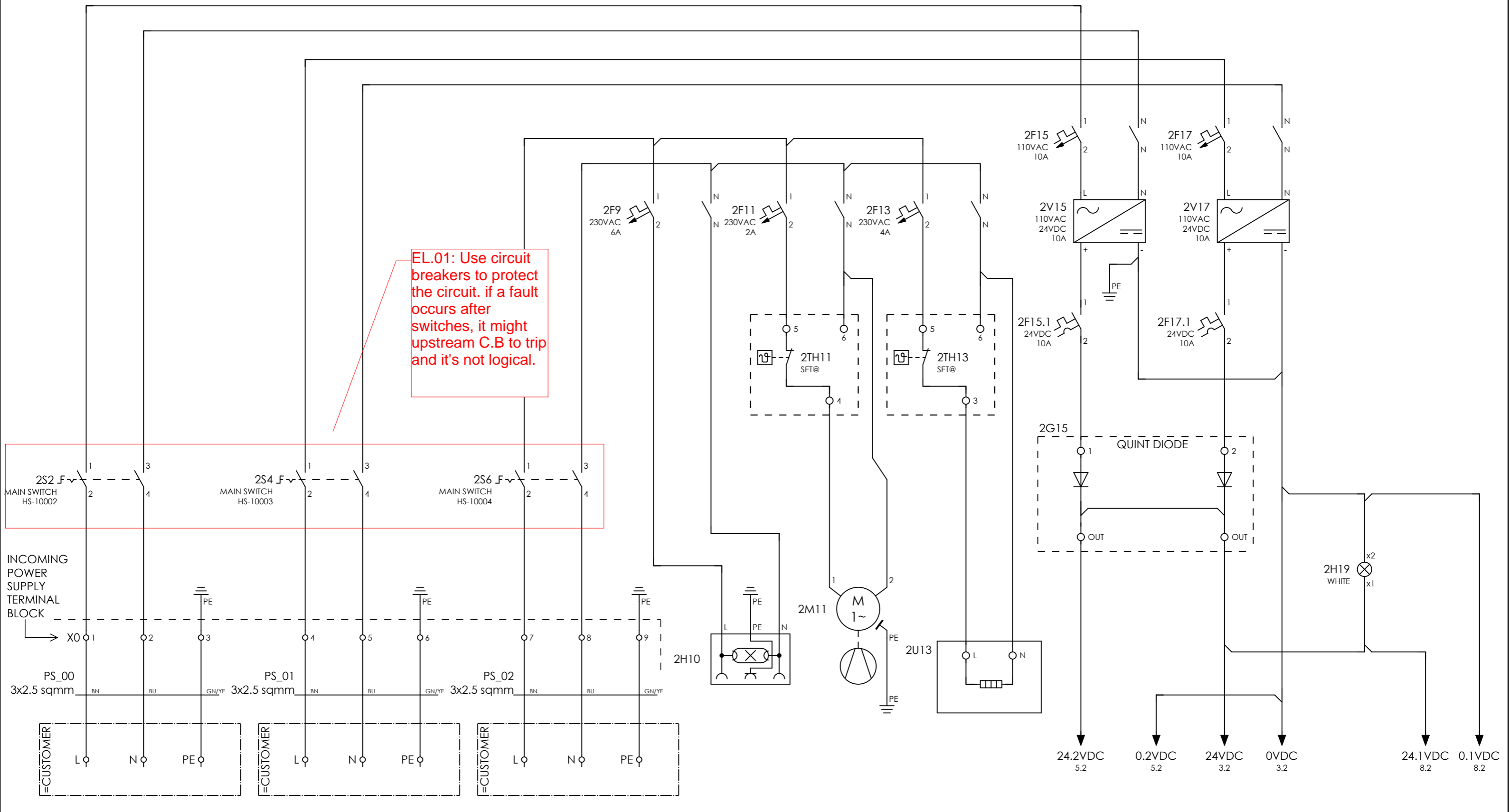
UNIT CONTROL PANEL  
UCP-C1002-01

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

FCS



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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			



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

2S2 MAIN SWITCH HS-10002  
 2S4 MAIN SWITCH HS-10003  
 2S6 MAIN SWITCH HS-10004

INCOMING POWER SUPPLY TERMINAL BLOCK  
 X0 1 2 3 4 5 6 7 8 9  
 PS\_00 3x2.5 sqmm BN BU GN/YE  
 PS\_01 3x2.5 sqmm BN BU GN/YE  
 PS\_02 3x2.5 sqmm BN BU GN/YE  
 =CUSTOMER L N PE

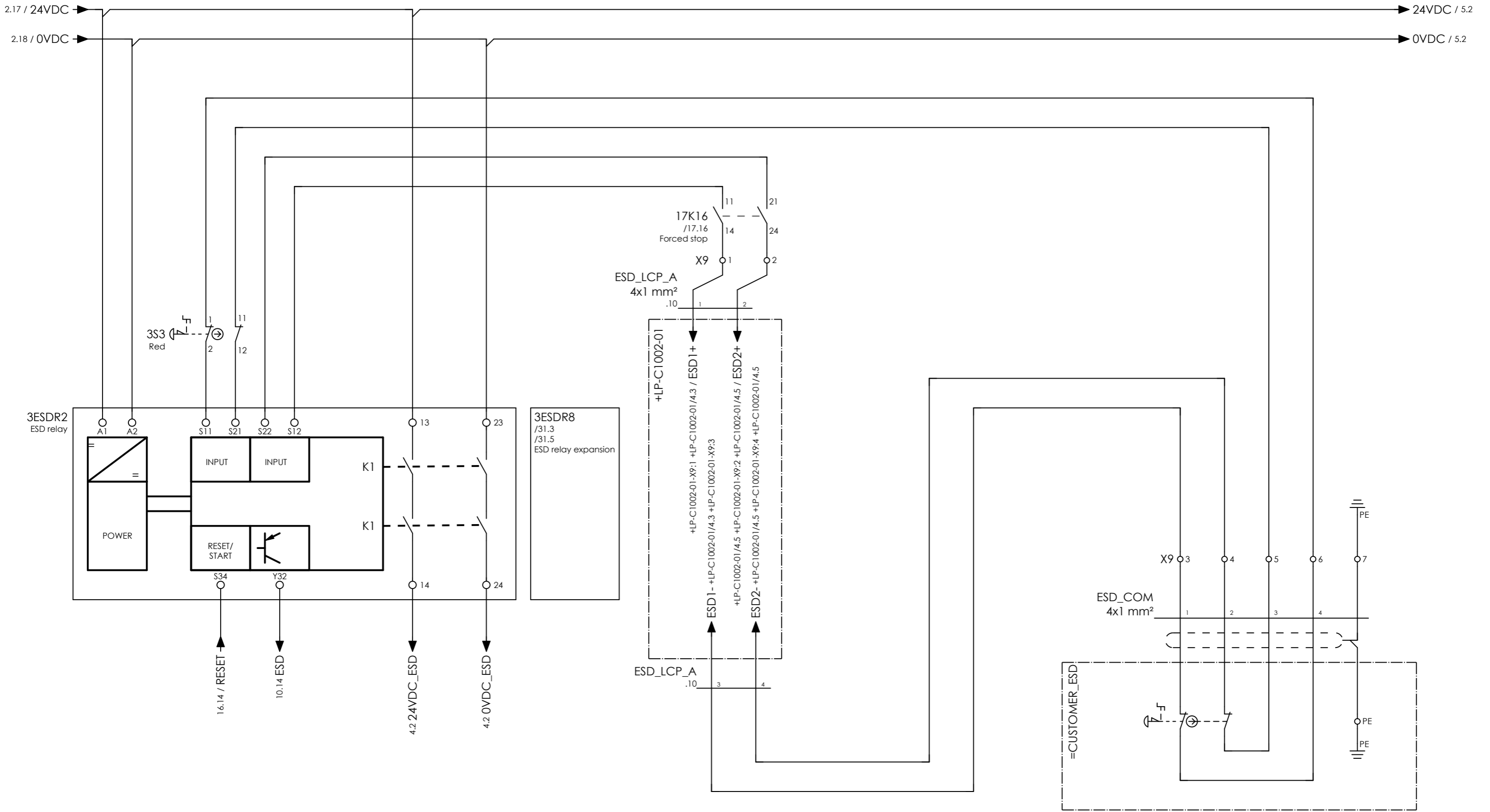
UPS-1 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH  
 UPS-2 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH  
 NON-UPS POWER SUPPLY FROM CUSTOMER 230VAC/50HZ/1PH

PANEL LIGHT  
 PANEL CIRCULATION FAN  
 PANEL HEATER  
 POWER ON LAMP XL-10005

EL02: Incoming power supply terminal numbers shall be clarified.



NT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	POWER SUPPLY	DRAWN BY	htaher	= 20-C-1002
IPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	01	CHECKED BY	RBE	+ UCP-C1002-01
IPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	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 REF.	Bushehr MEG Plant Project	AIRPACK DWG NO.	17811-05	
		AIRPACK REF.	17811-05A	REVISION	01	
				TOTAL PAGE AMOUNT	12	



EMERGENCY SHUTDOWN RELAY

EMERGENCY STOP BUTTON ON PANEL PB-10007

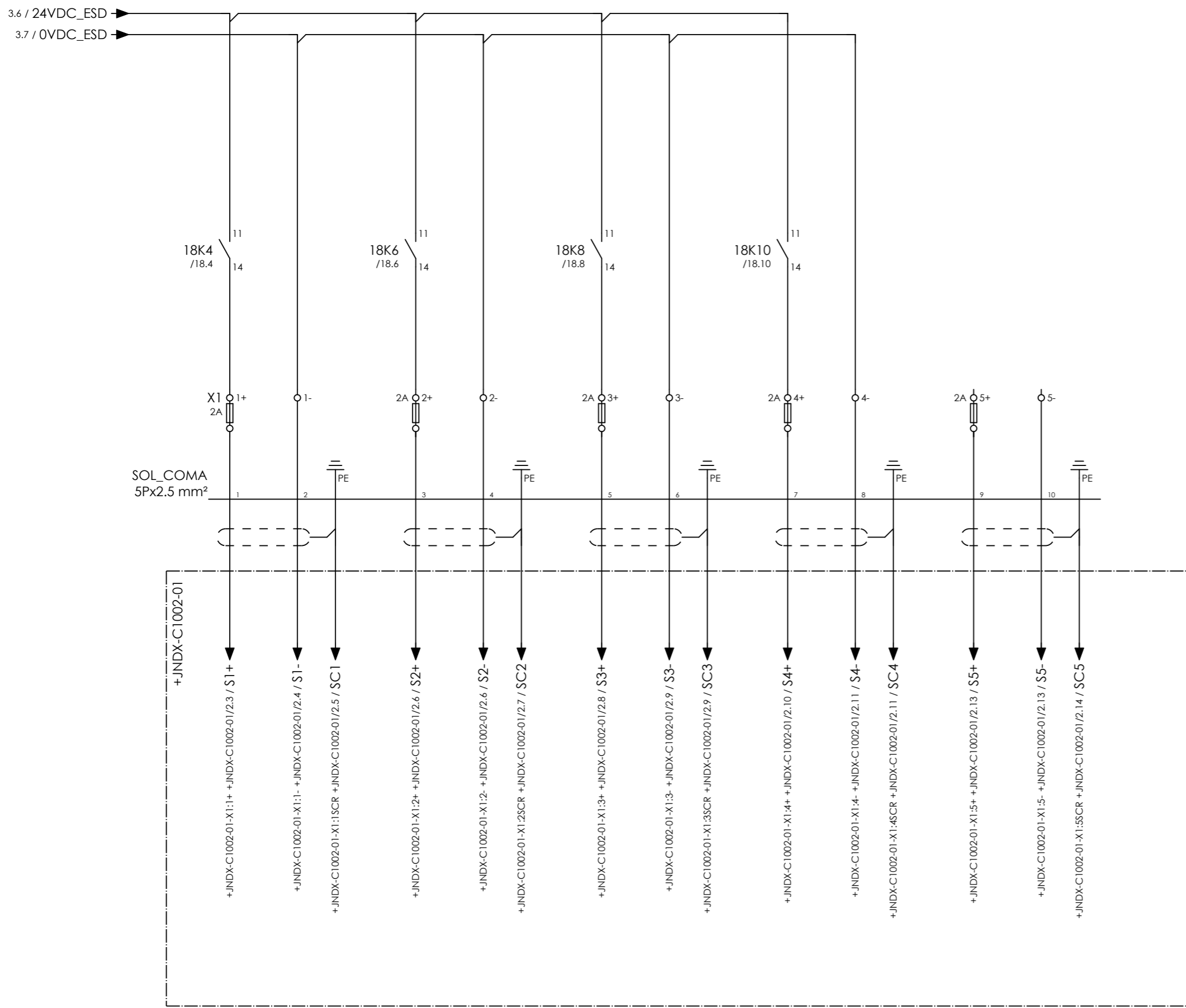
EMERGENCY SHUTDOWN FROM CUSTOMER HS-115-SD-1



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

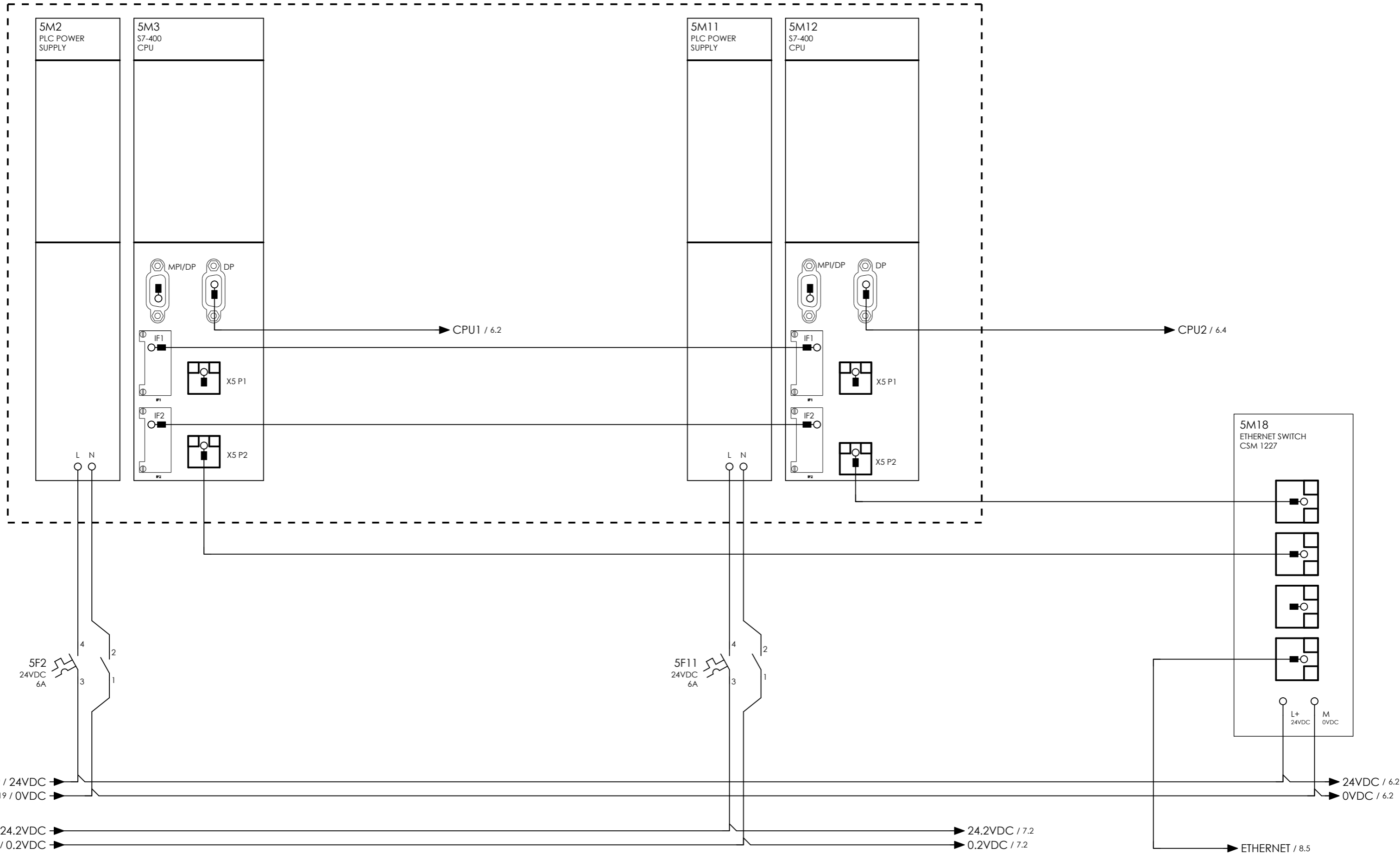


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SOLENOIDS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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

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+ UCP-C1002-01
CURRENT PAGE

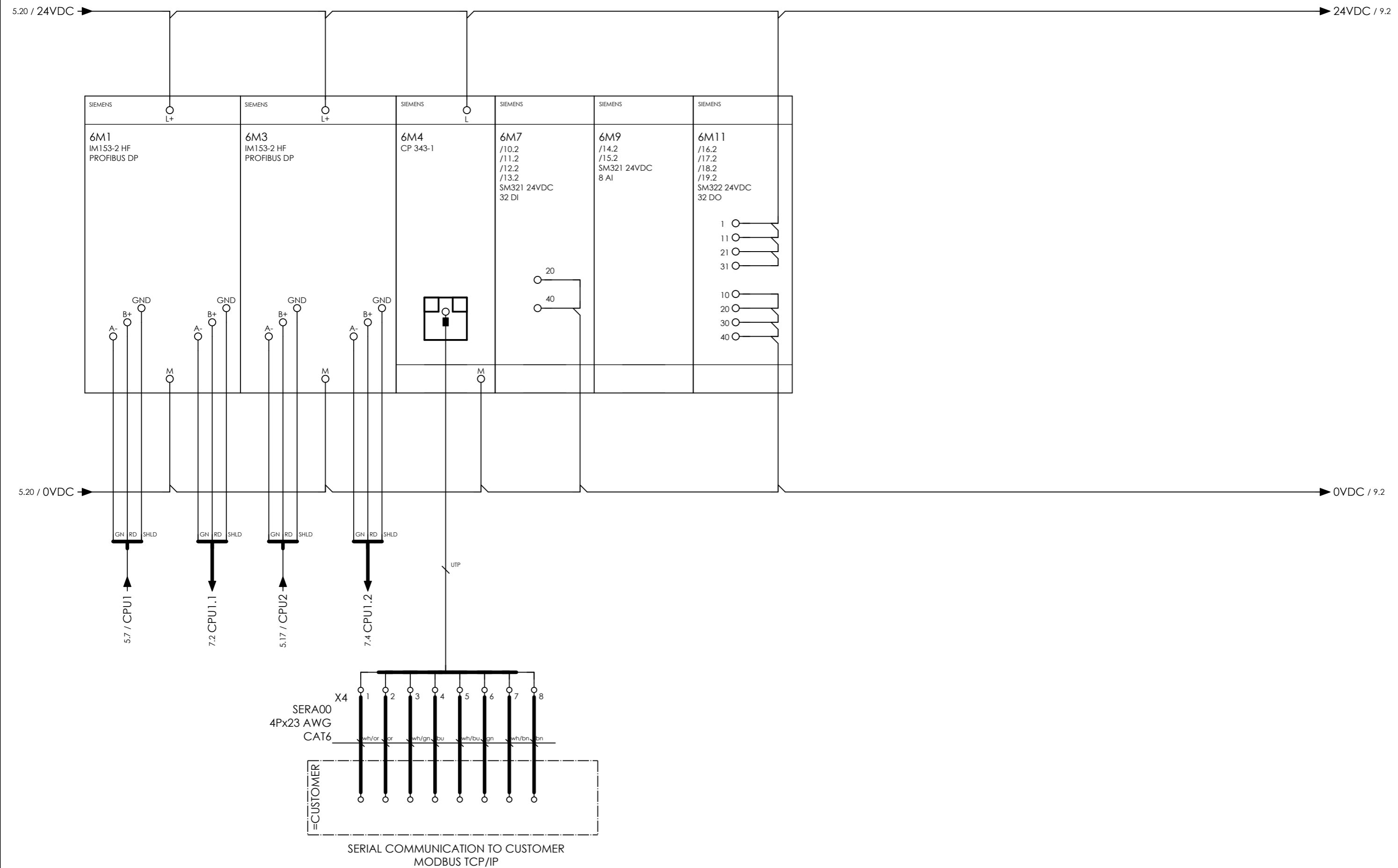


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	15

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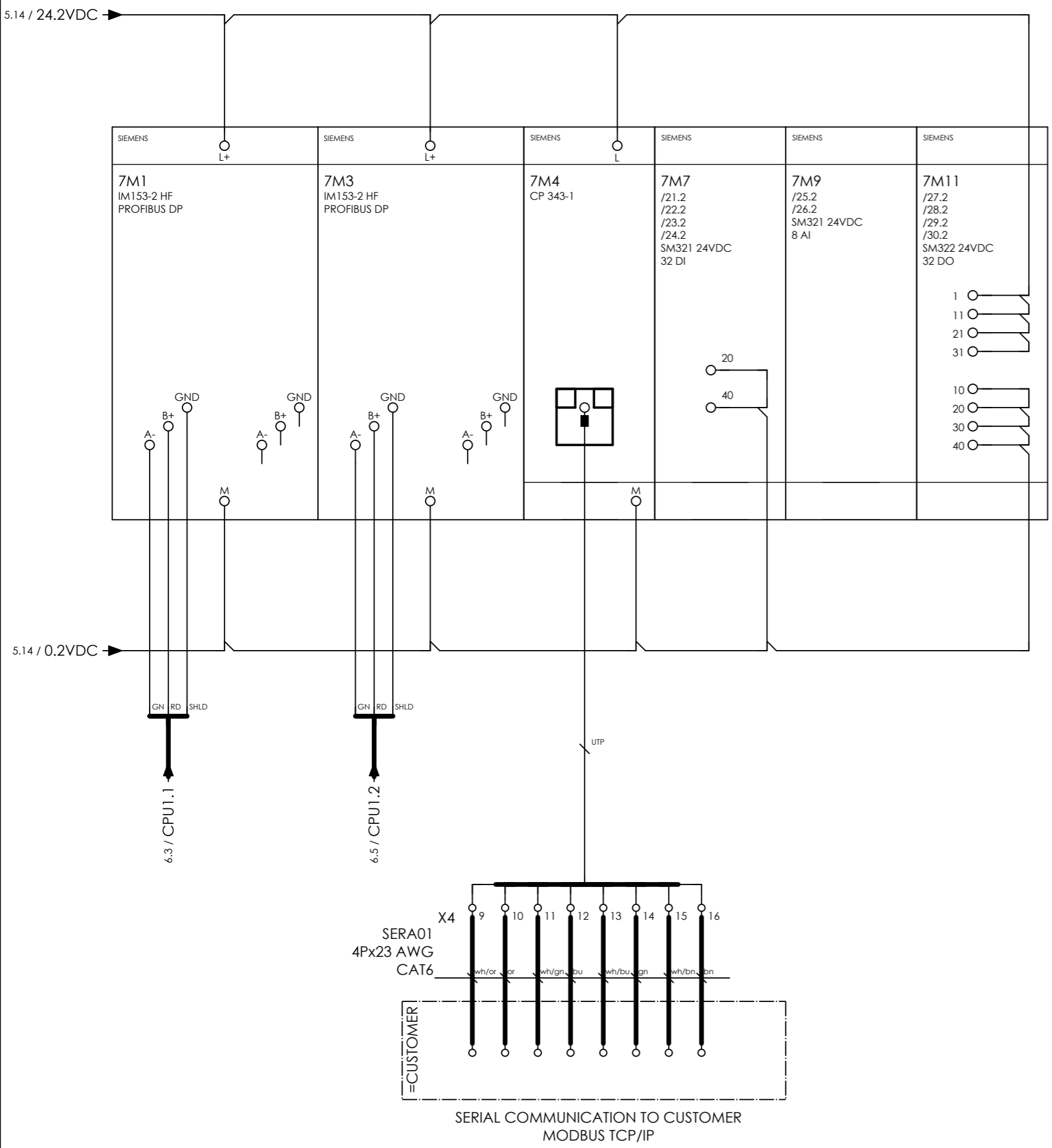


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT IO RACK I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	16

= 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
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

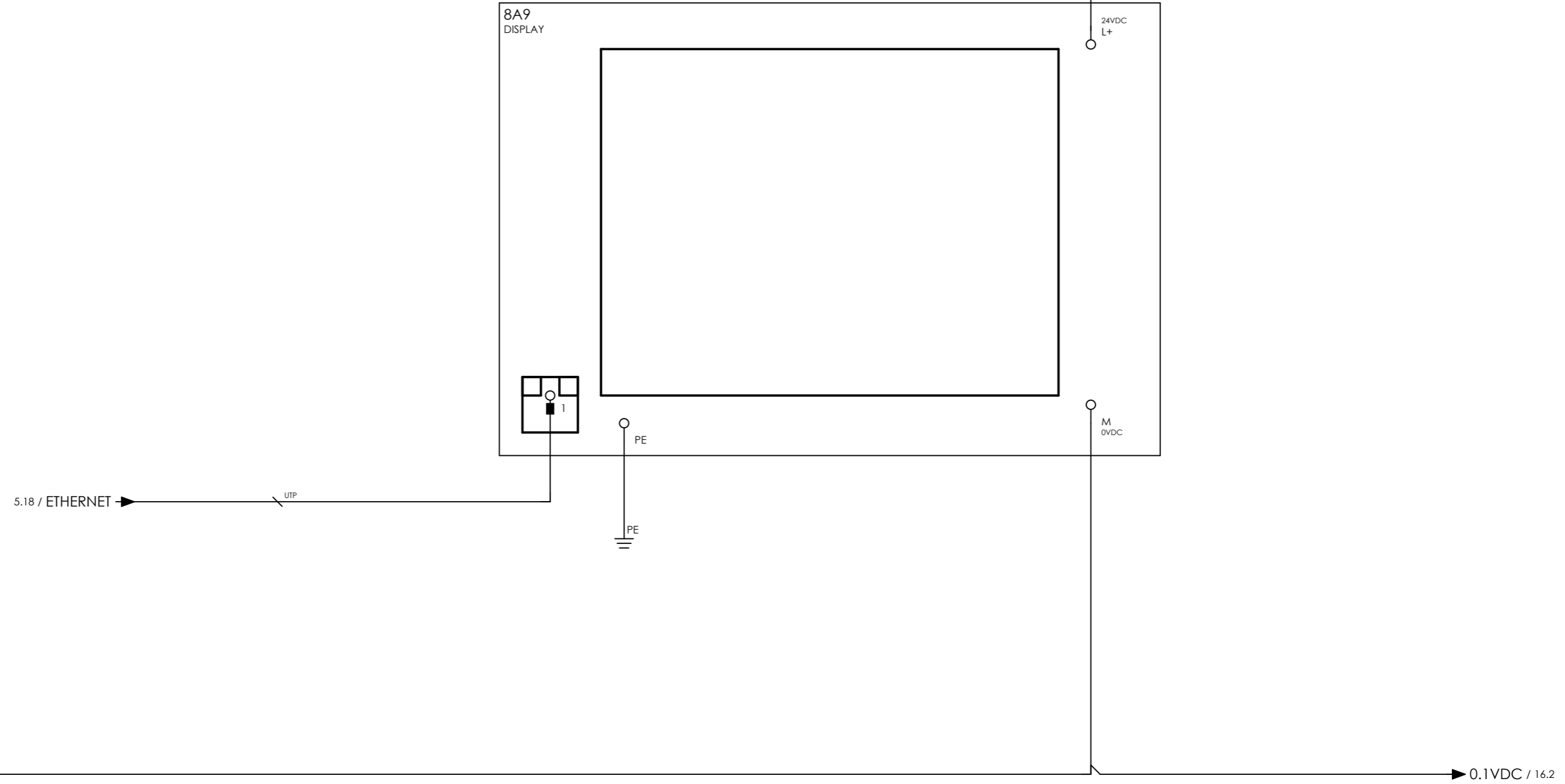
SUBJECT IO RACK II	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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

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

2.19 / 24.1VDC → 24.1VDC / 10.3

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

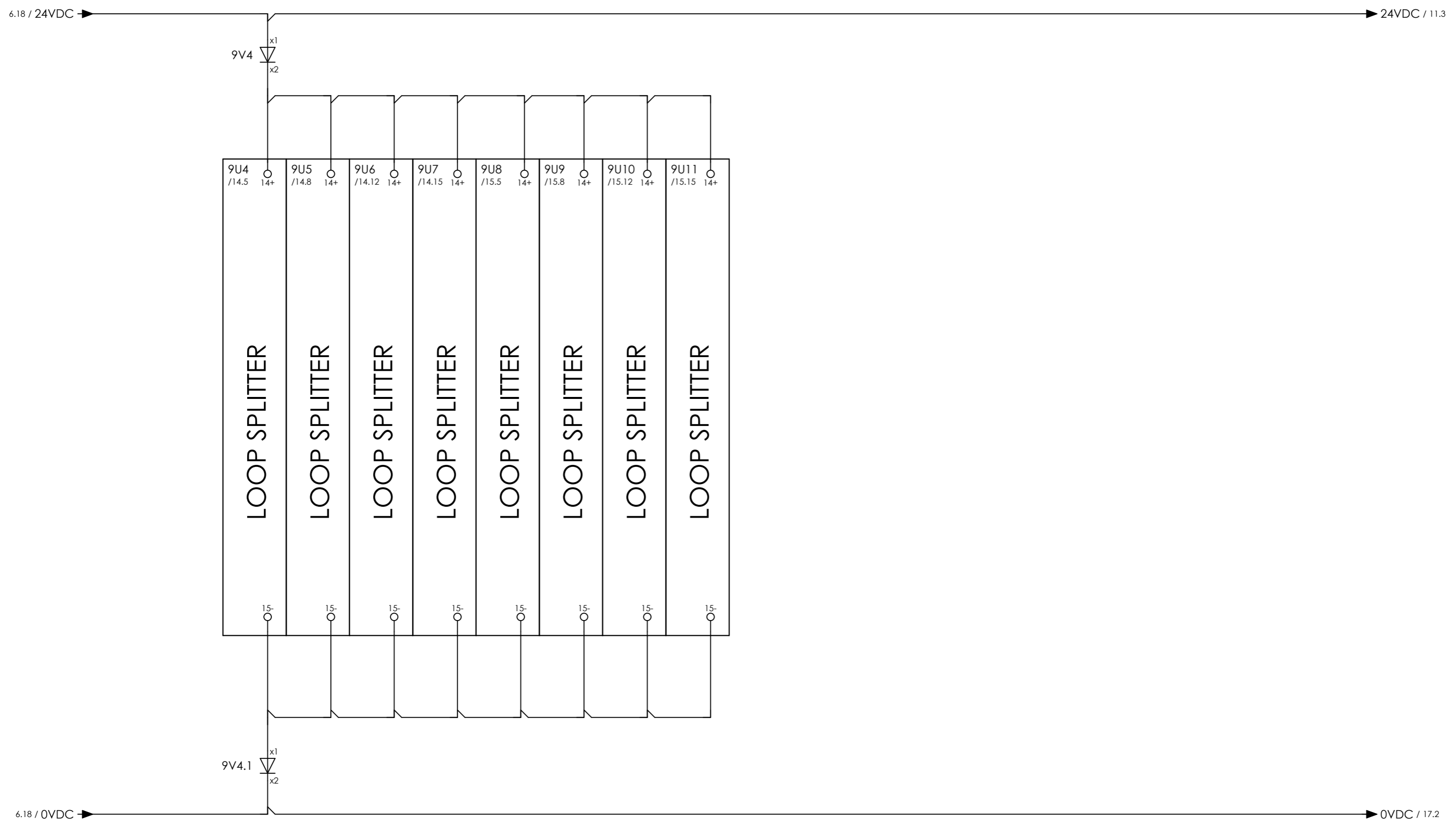


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DISPLAY	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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
CURRENT PAGE



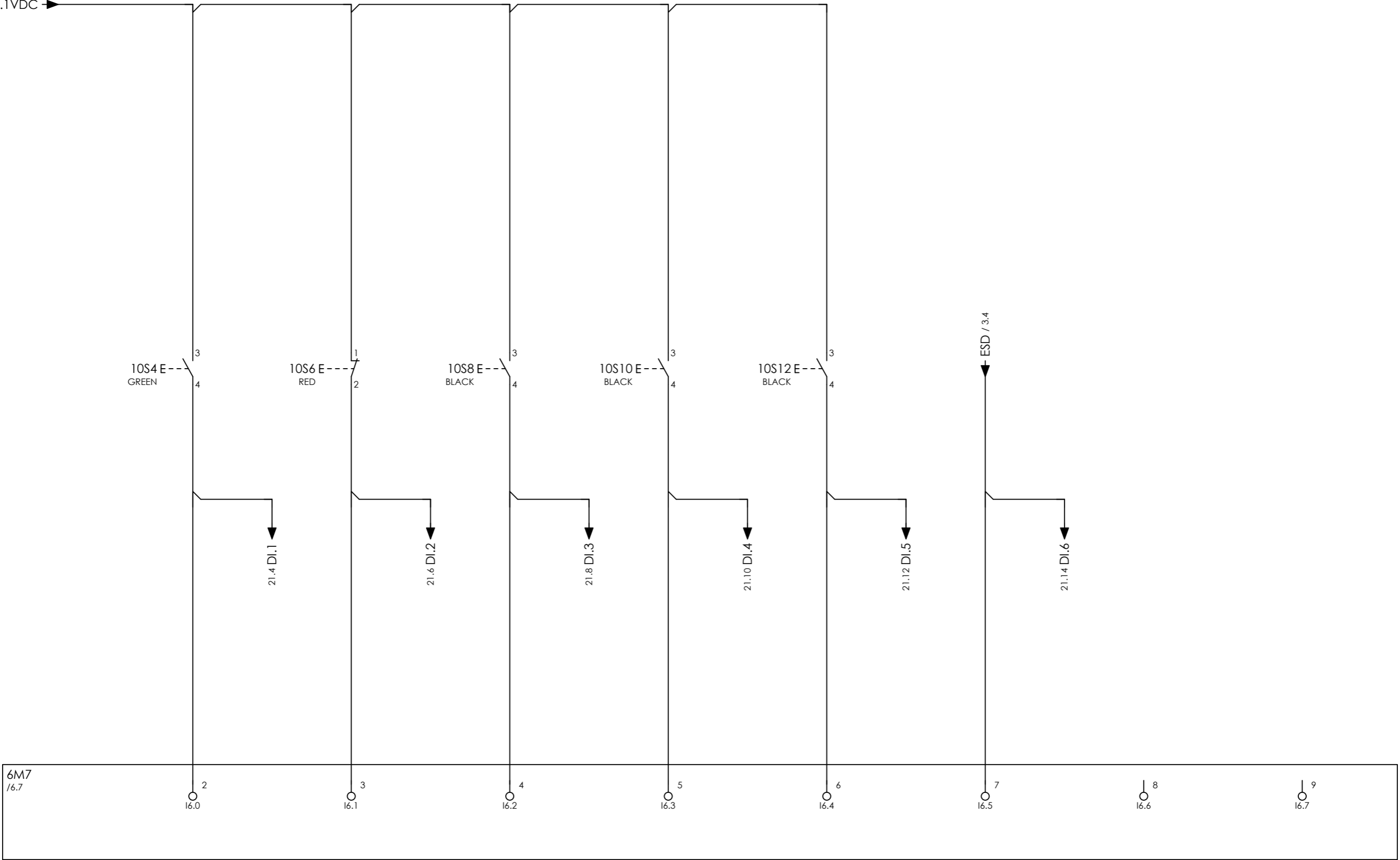
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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

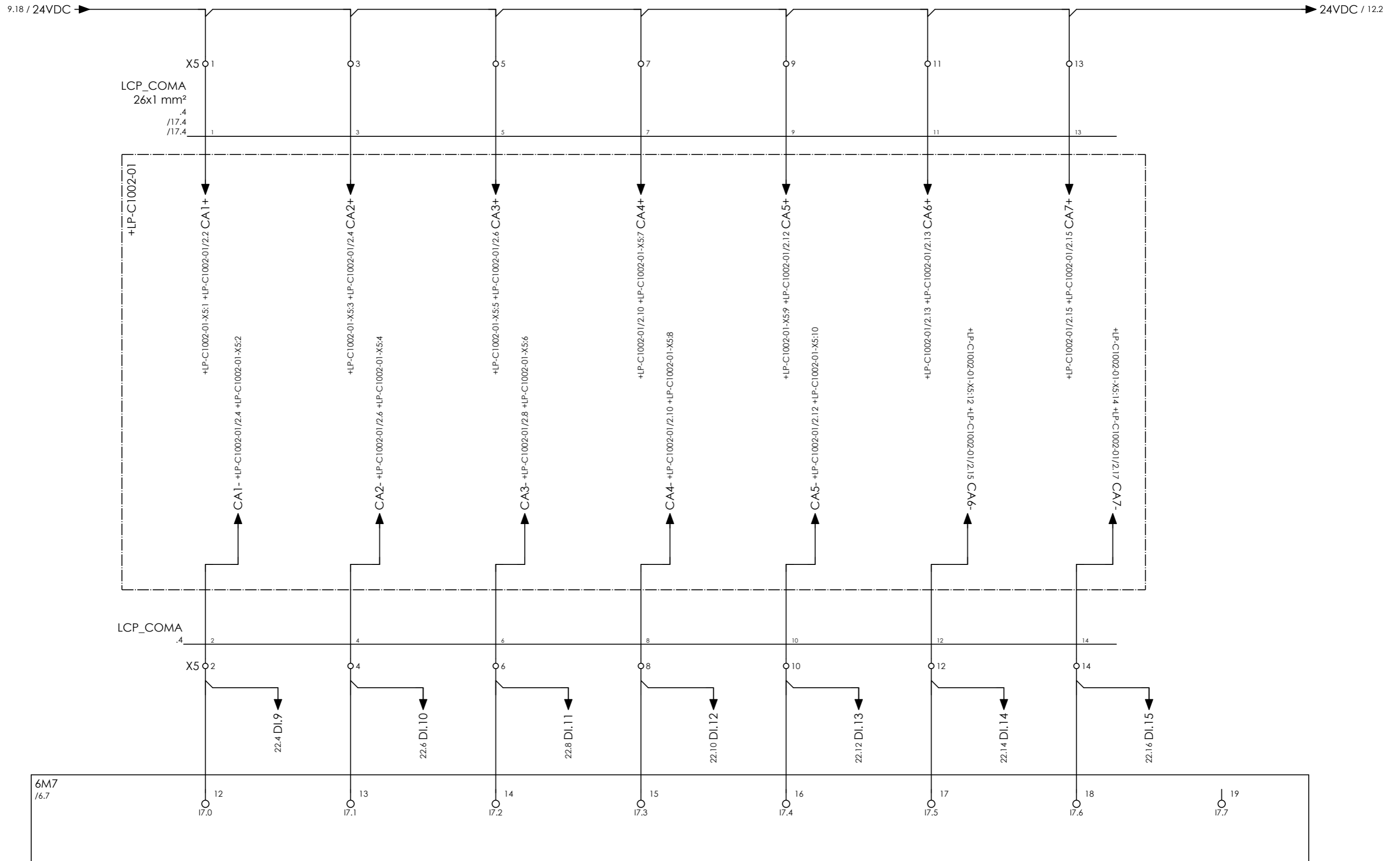
SPARE

SPARE



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	htaher	= 20-C-1002
DIGITAL INPUTS I		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	20	



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

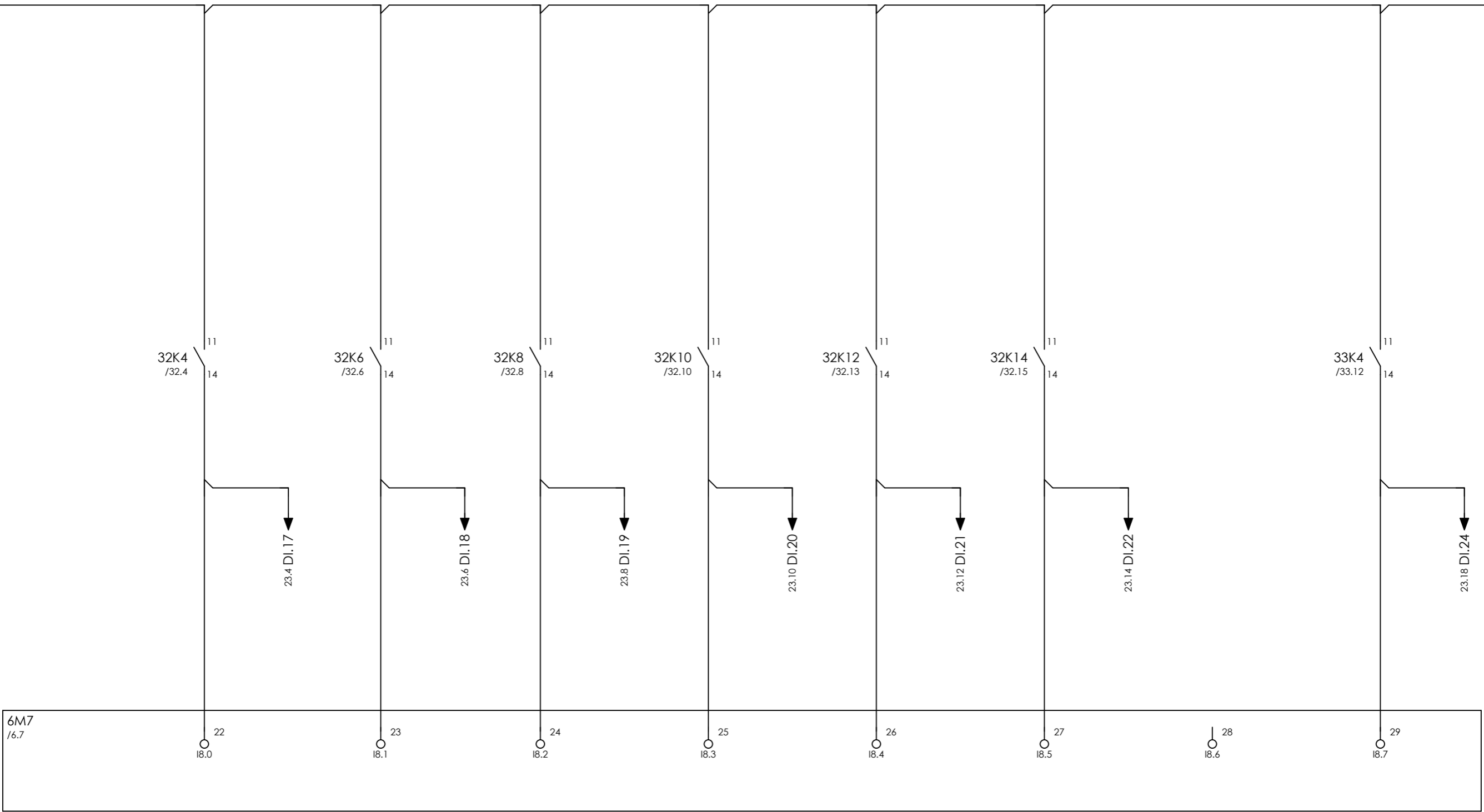


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

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

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	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

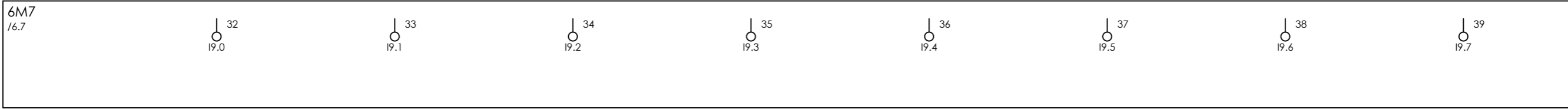
SPARE

TIME  
SYNCHRONIZATION  
XCS-115



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 INPUTS I		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	22	



SPARE                      SPARE                      SPARE                      SPARE                      SPARE                      SPARE                      SPARE                      SPARE

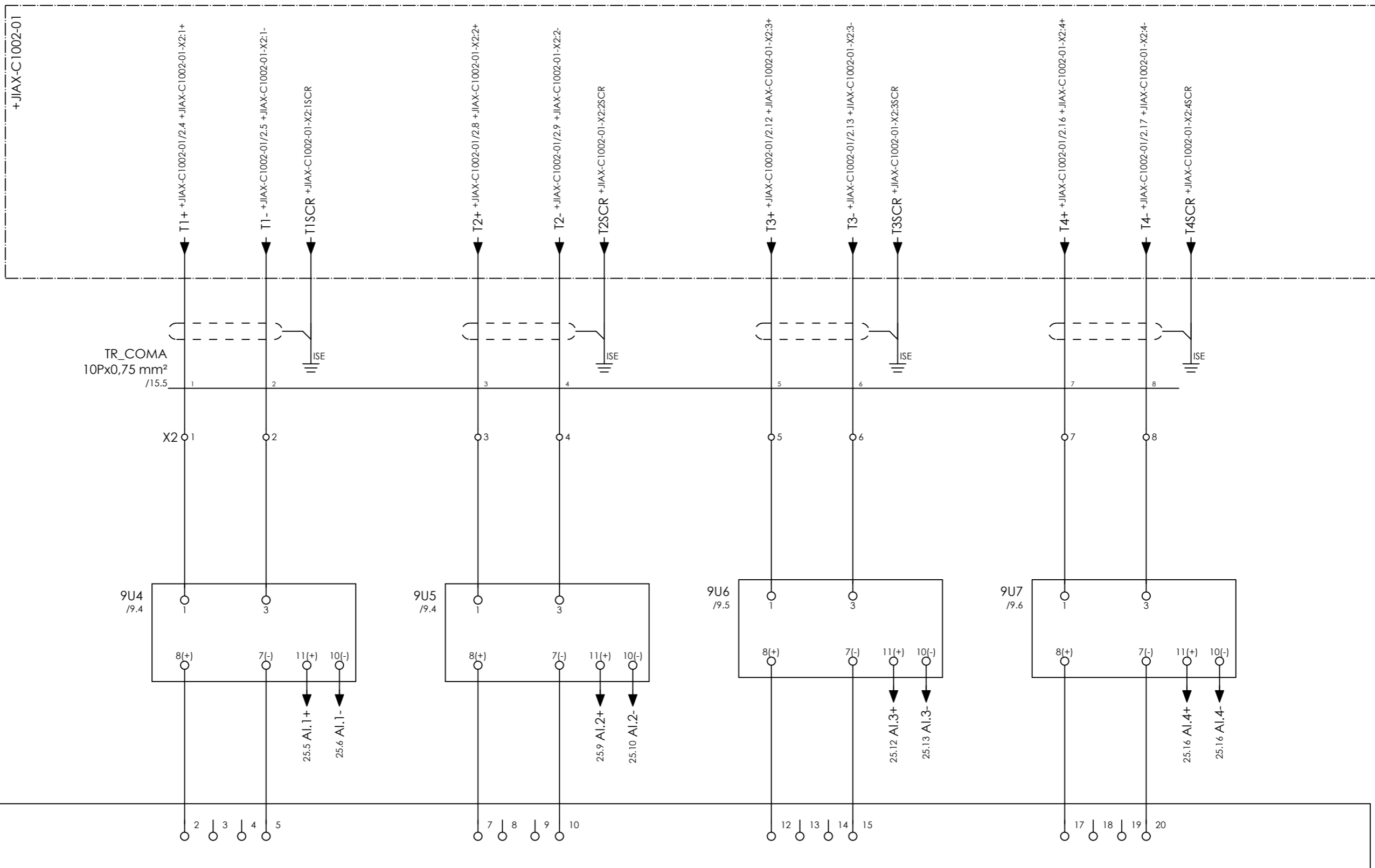


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	23

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+ UCP-C1002-01
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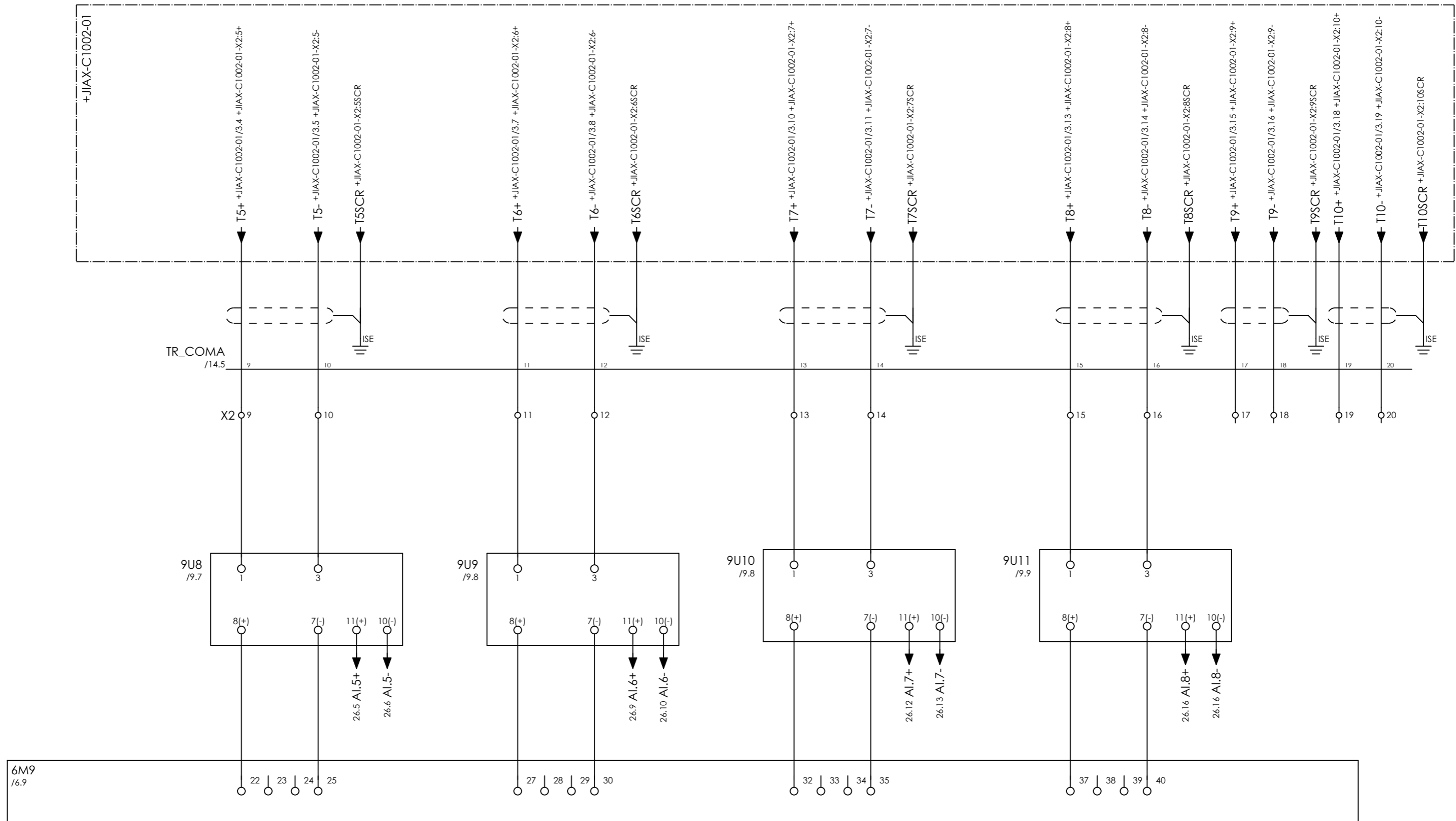


COMPRESSOR A  
INLET PRESSURE  
PIT-10003

COMPRESSOR A  
OIL SYSTEM PRESSURE  
PIT-10004

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10007

COMPRESSOR A  
INLET TEMPERATURE  
TIT-10001



COMPRESSOR A  
UPSTREAM AFTER COOLER TEMPERATURE  
TIT-10002

COMPRESSOR A  
COOLING WATER OUTLET FLOW  
FT-10001

COMPRESSOR A  
BEARING VIBRATION  
VT-10001

SPARE

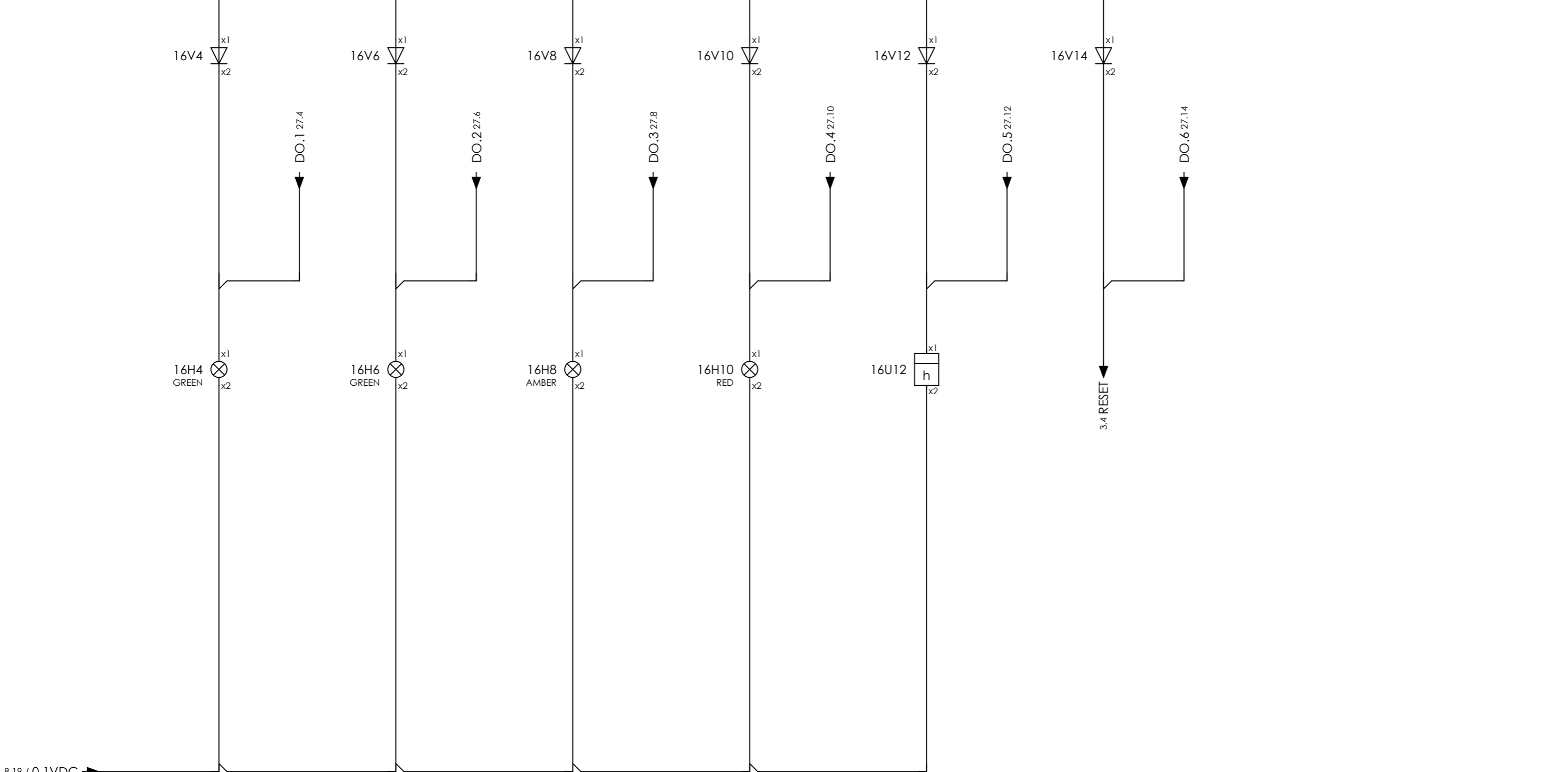
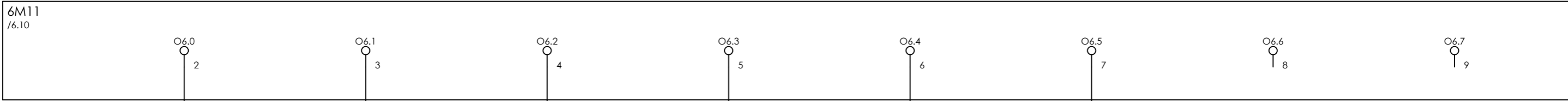


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	25

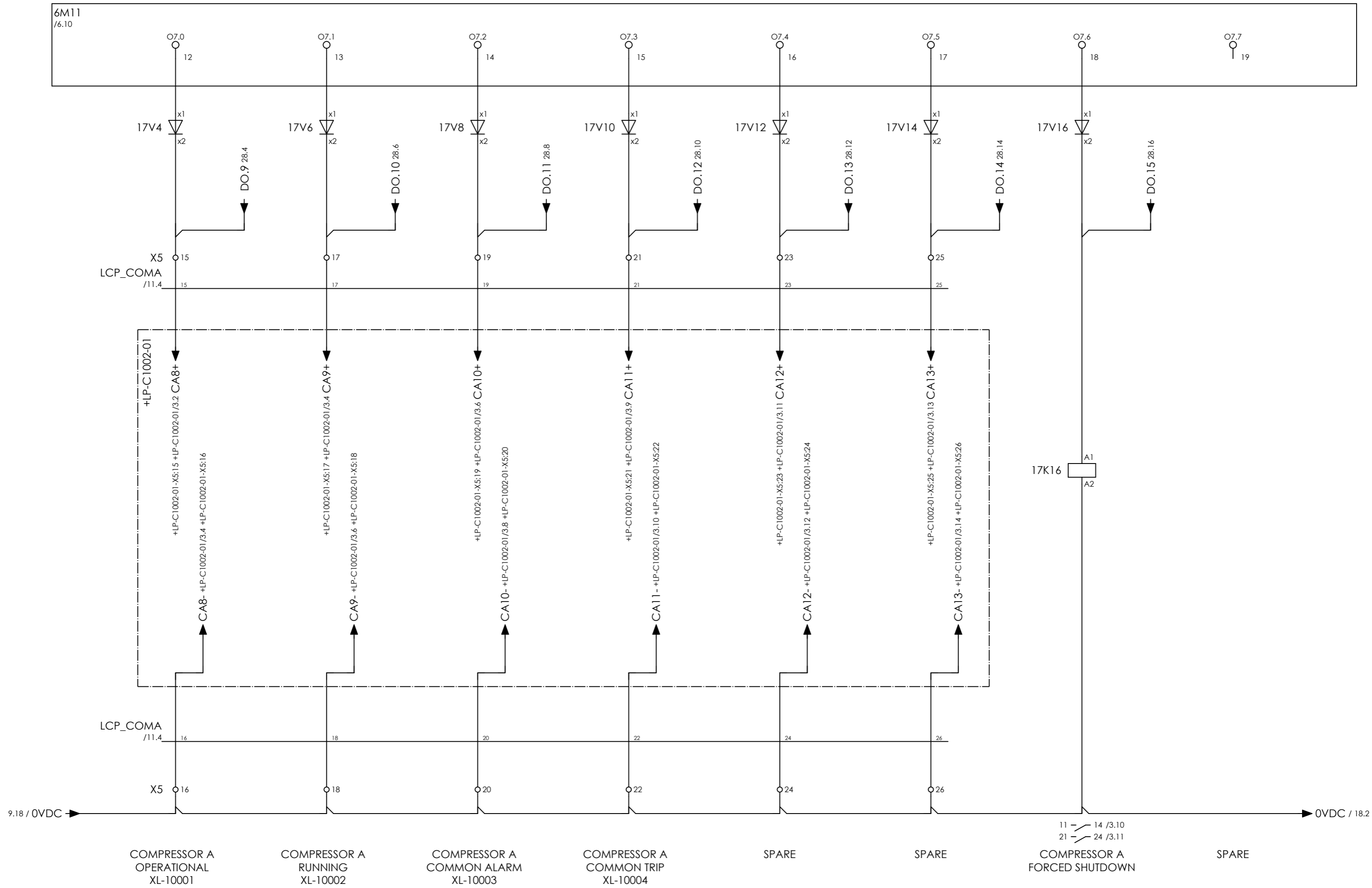
= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



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	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	26	

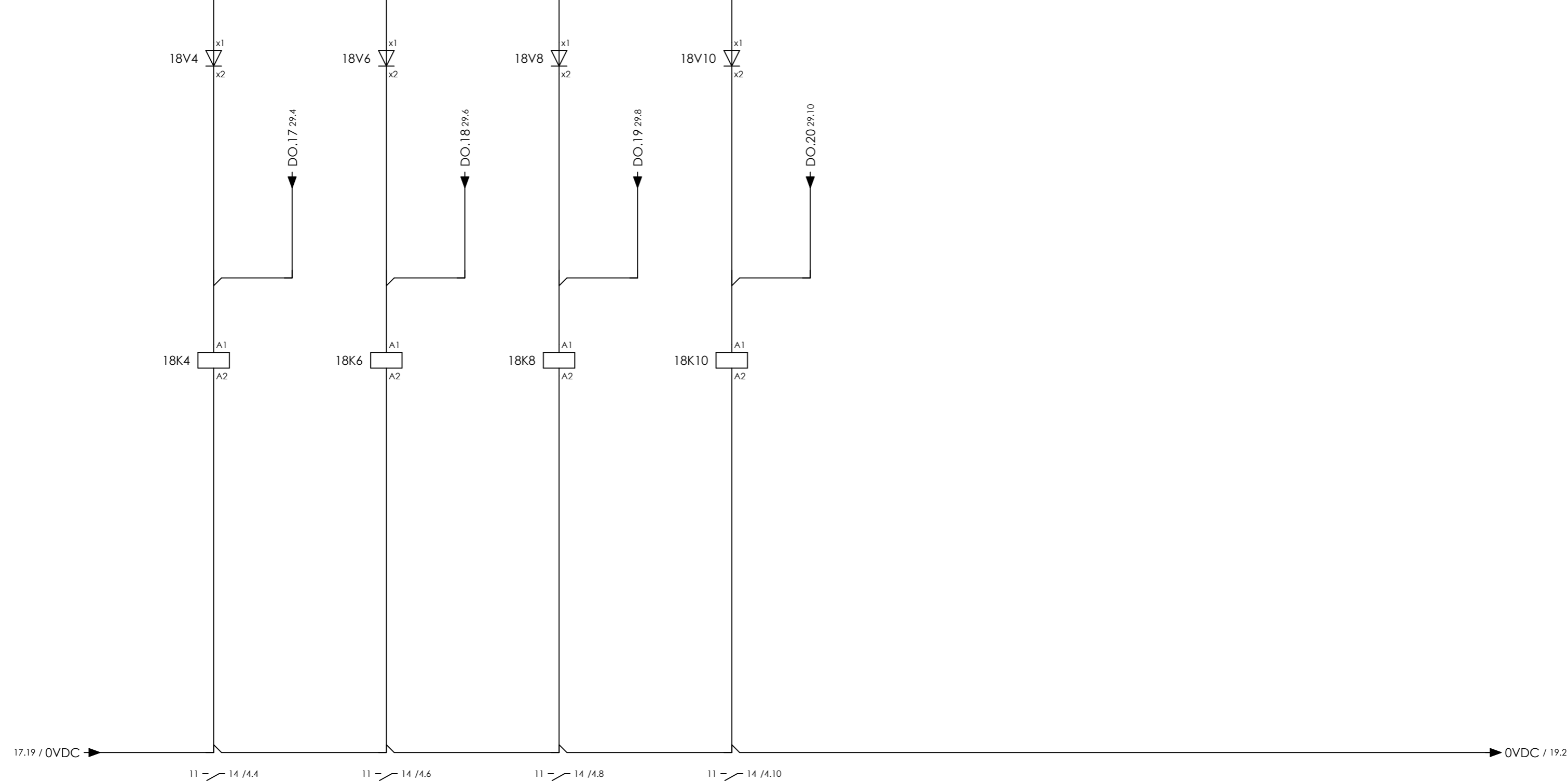
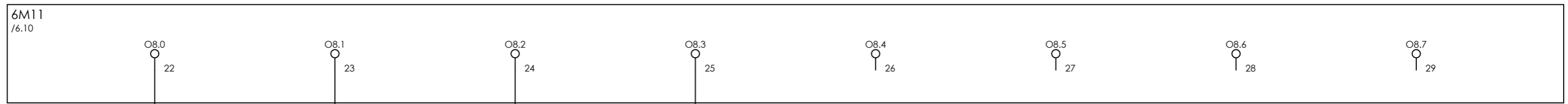


11 - 14 / 3.10  
21 - 24 / 3.11

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



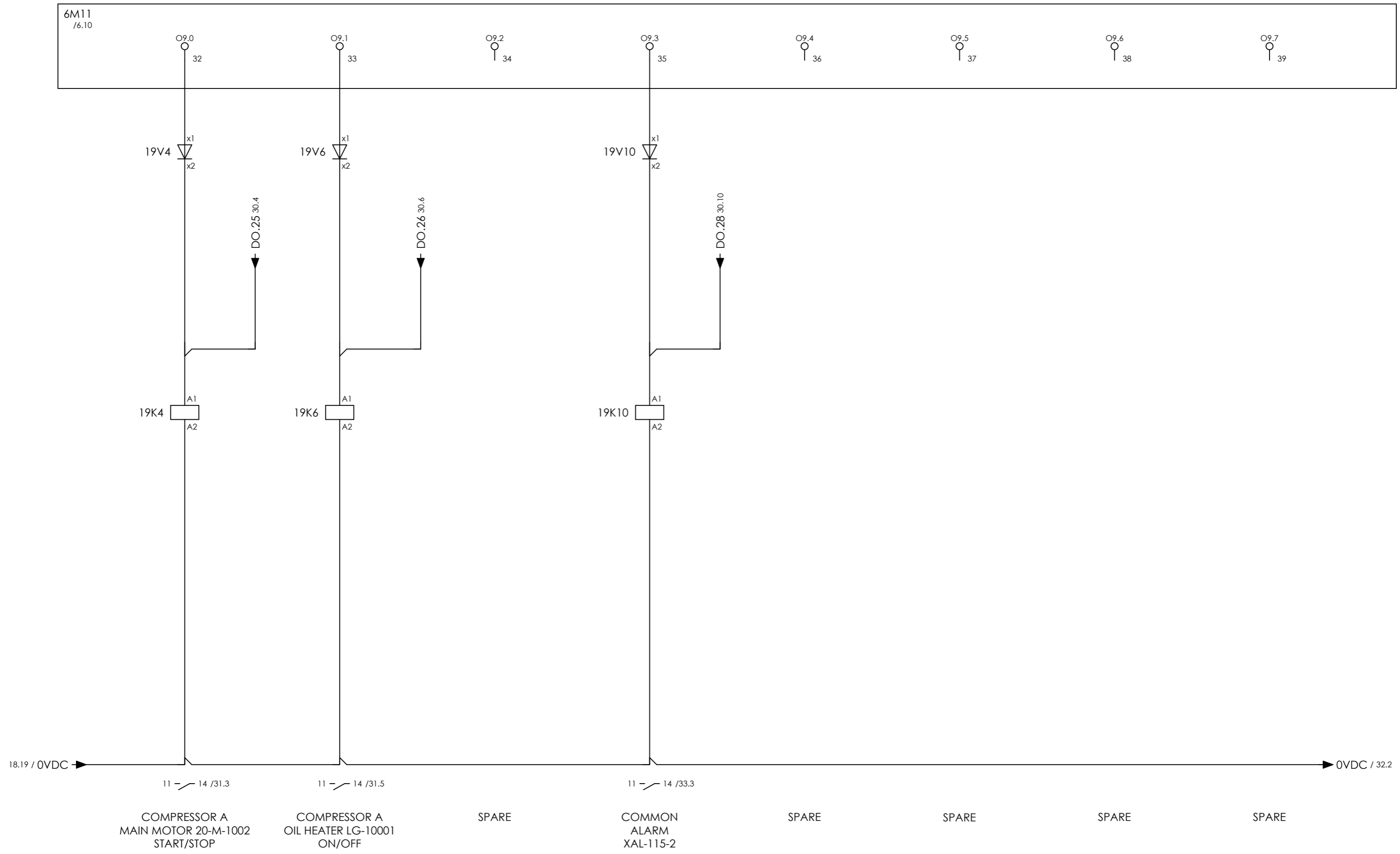
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EQUIPMENT NO.	20-C-1002	DIGITAL OUTPUTS I		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED 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	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	



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

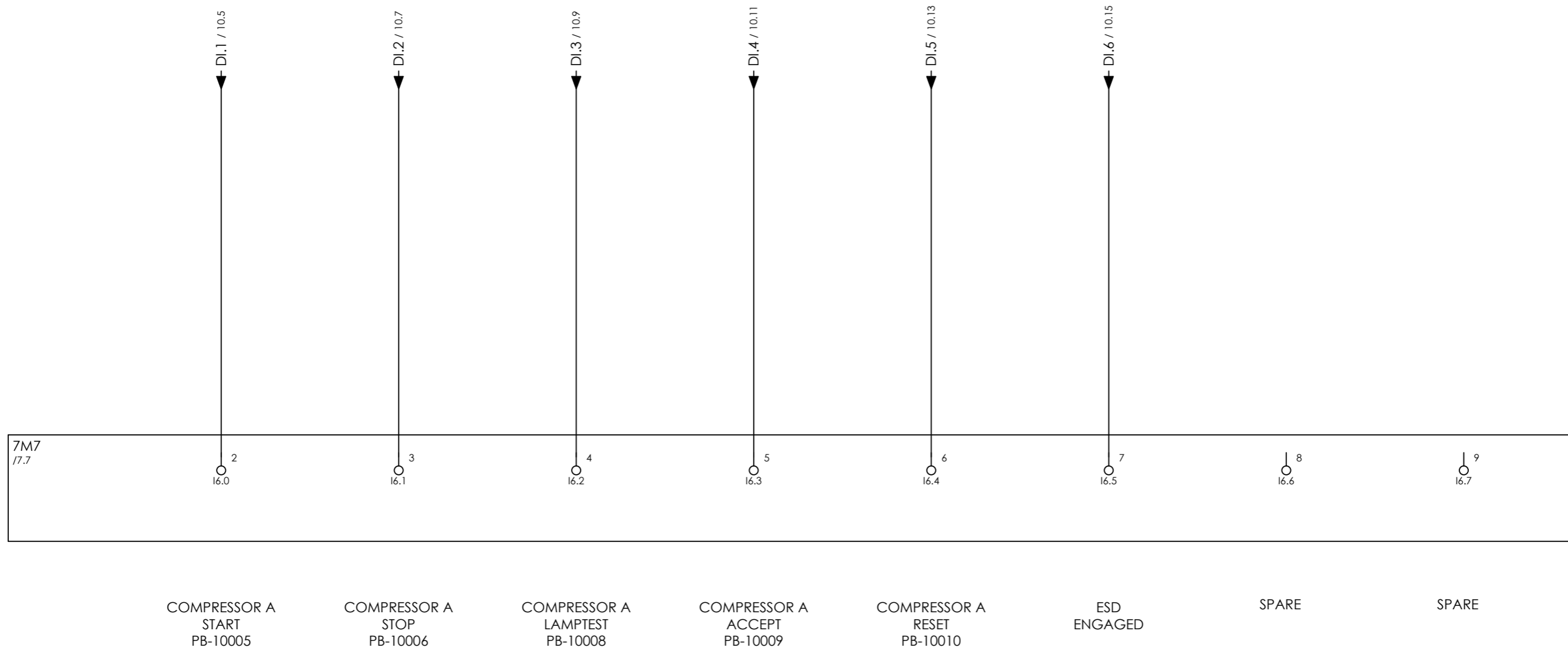
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CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	29

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

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THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaheer	= 20-C-1002
	EQUIPMENT NO.	20-C-1002	EMPTY PAGE		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	30		

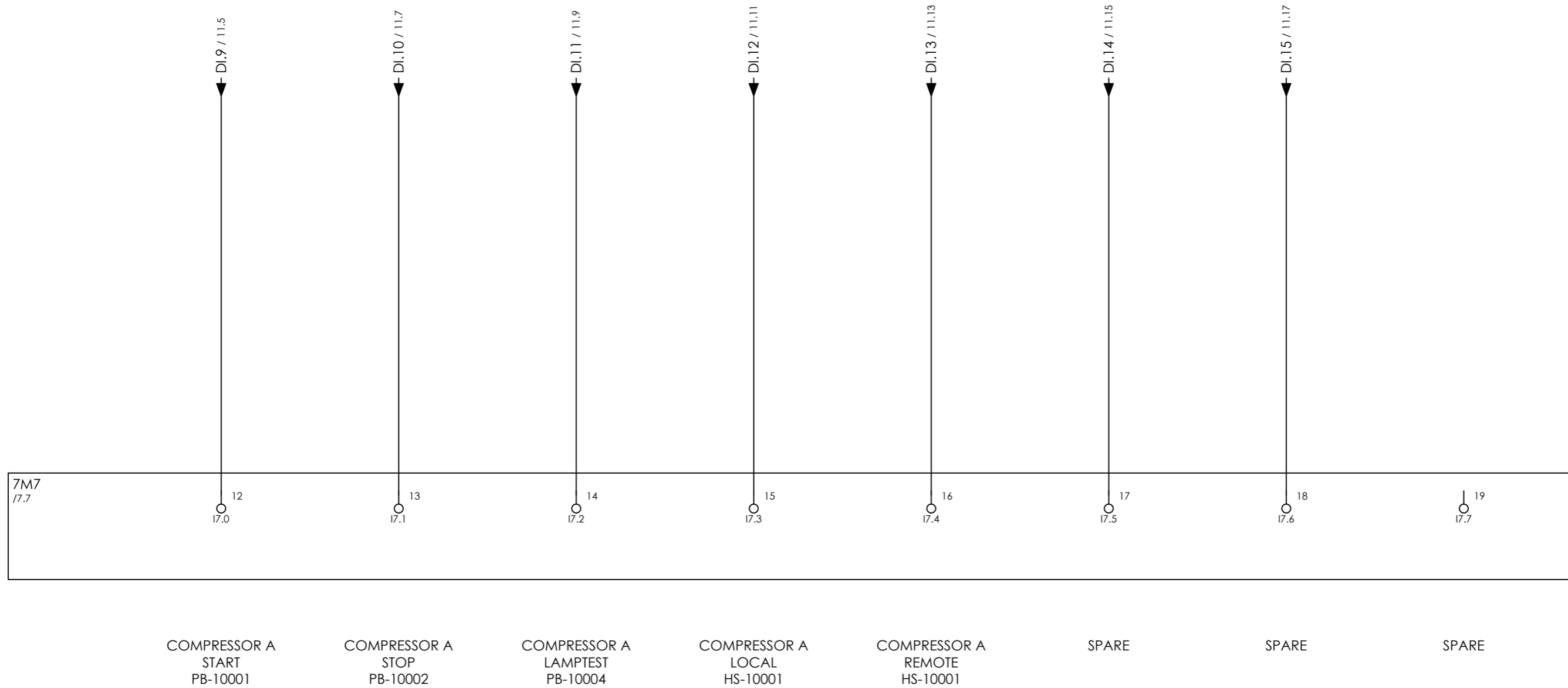


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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	31

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+ UCP-C1002-01
CURRENT PAGE

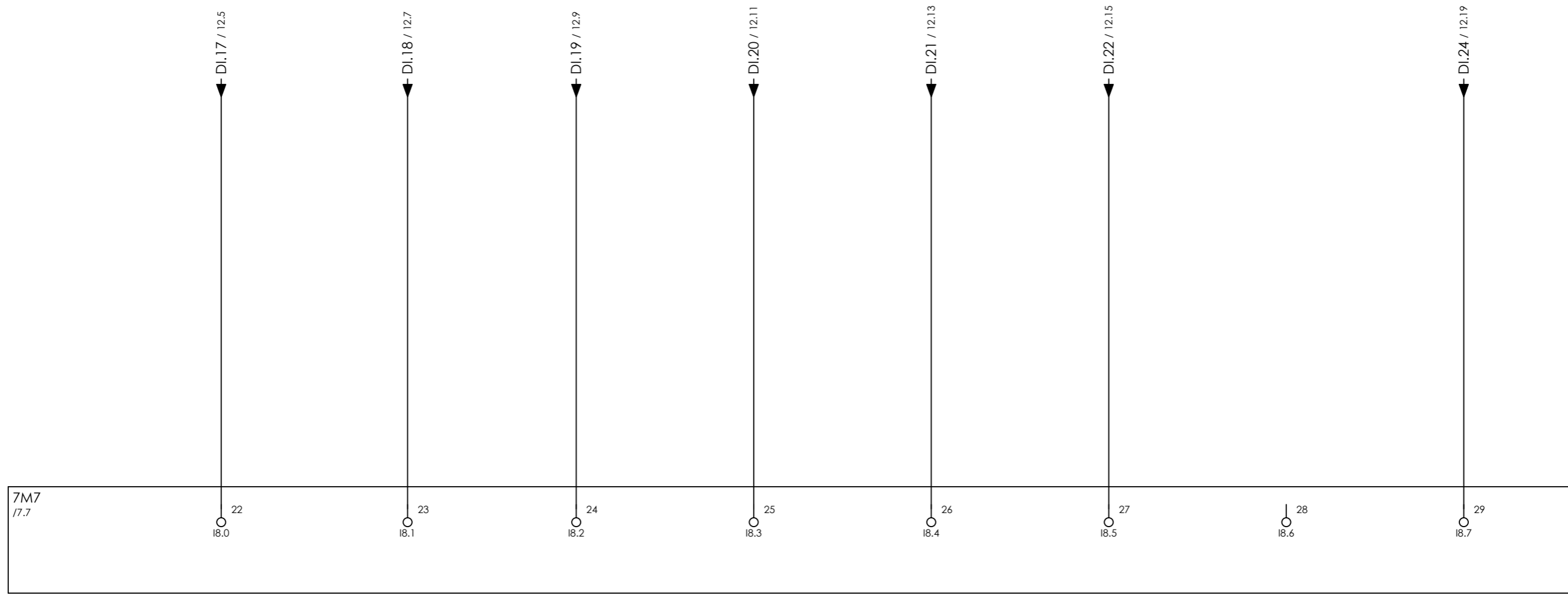


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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	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

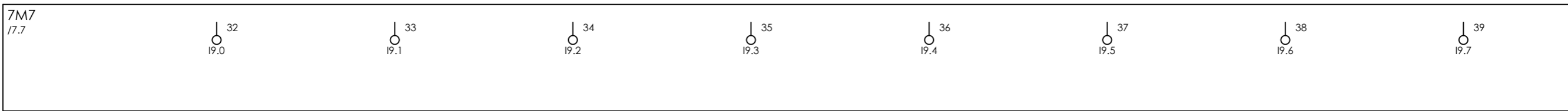


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

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



7M7  
17.7

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

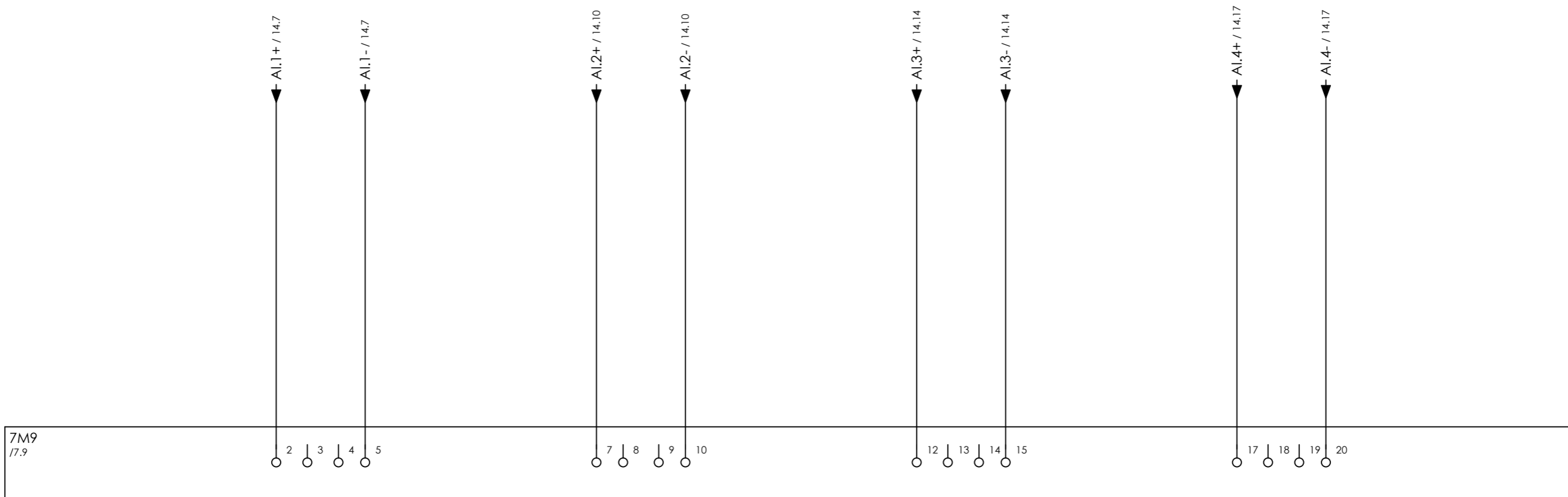


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS II	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	34

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



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

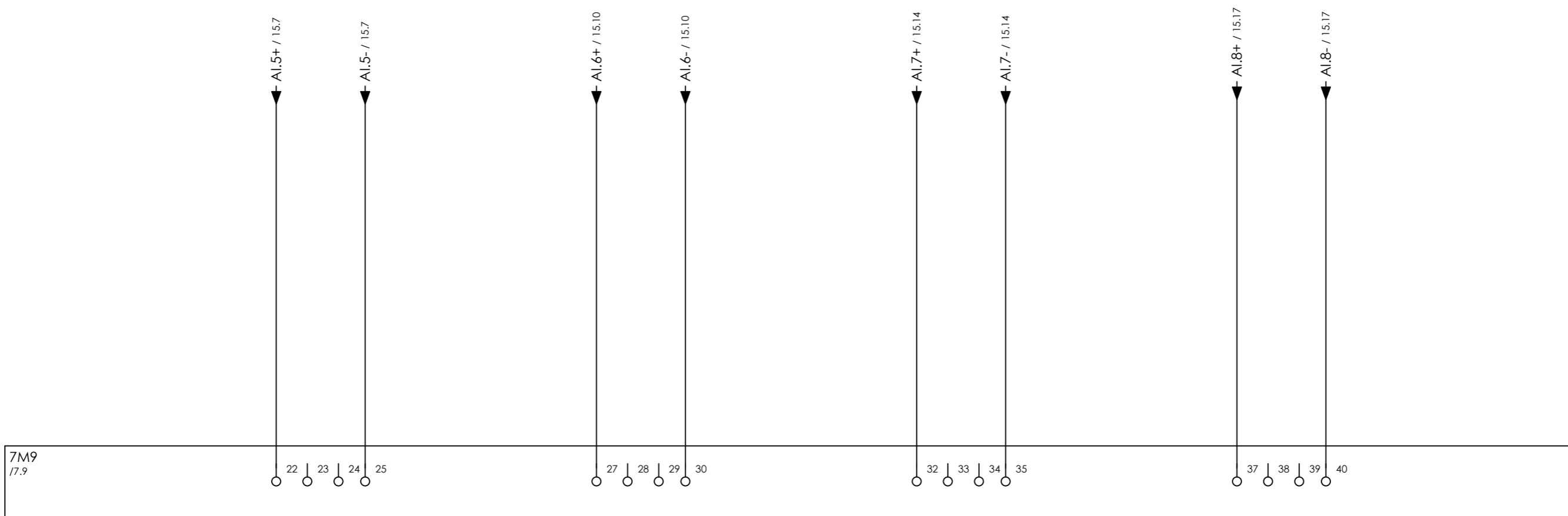


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	14/10/2021
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

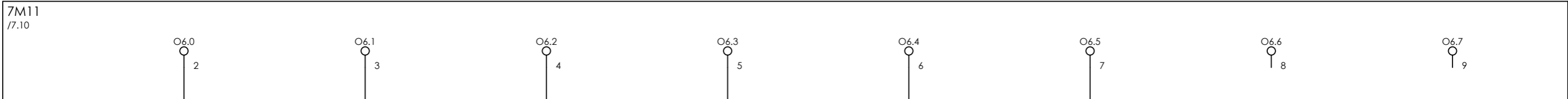


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant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

27V6

27V8

27V10

27V12

27V14

16.5 / DO.1

16.7 / DO.2

16.9 / DO.3

16.11 / DO.4

16.13 / DO.5

16.15 / DO.6

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

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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

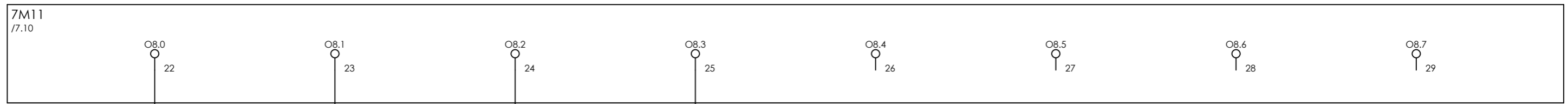


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

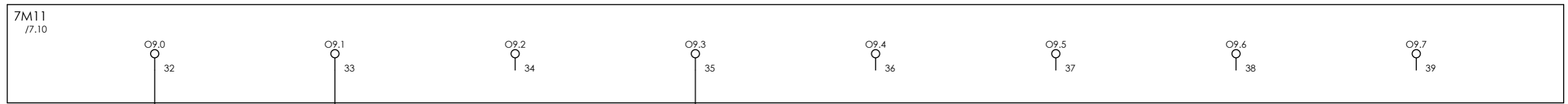
SPARE

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
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

SPARE

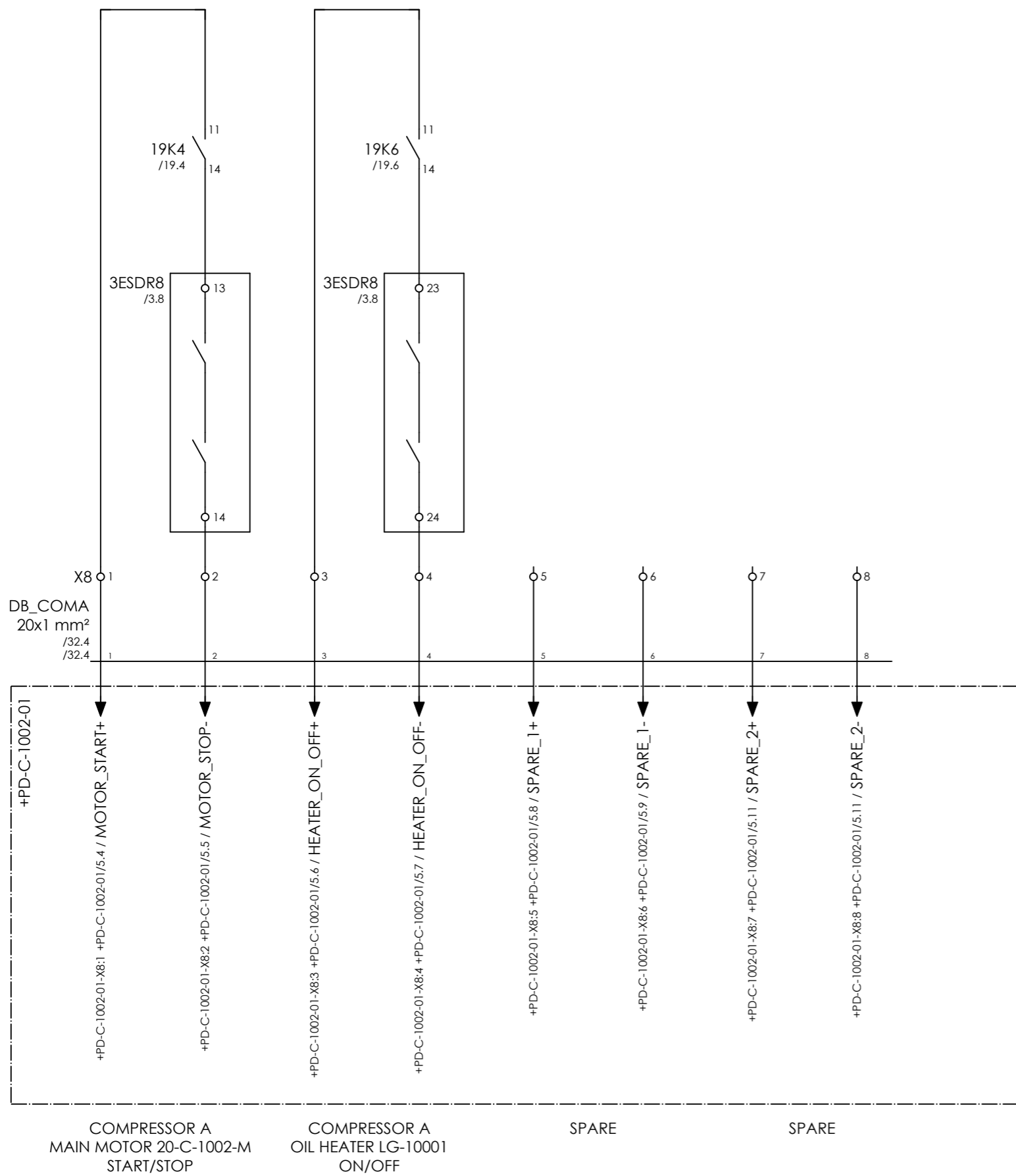
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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			

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

COMPRESSOR A  
OIL HEATER LG-10001  
ON/OFF

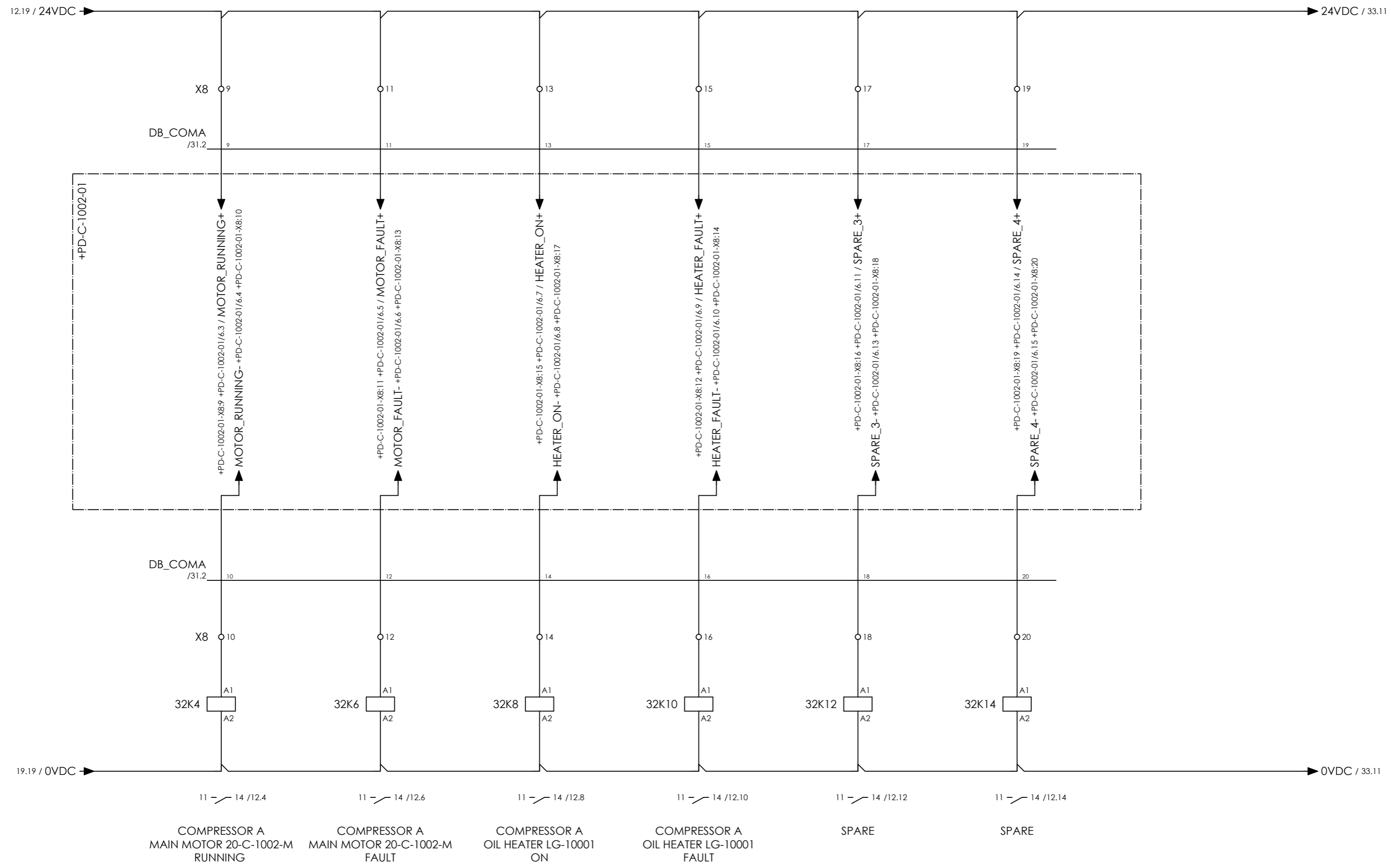
SPARE

SPARE



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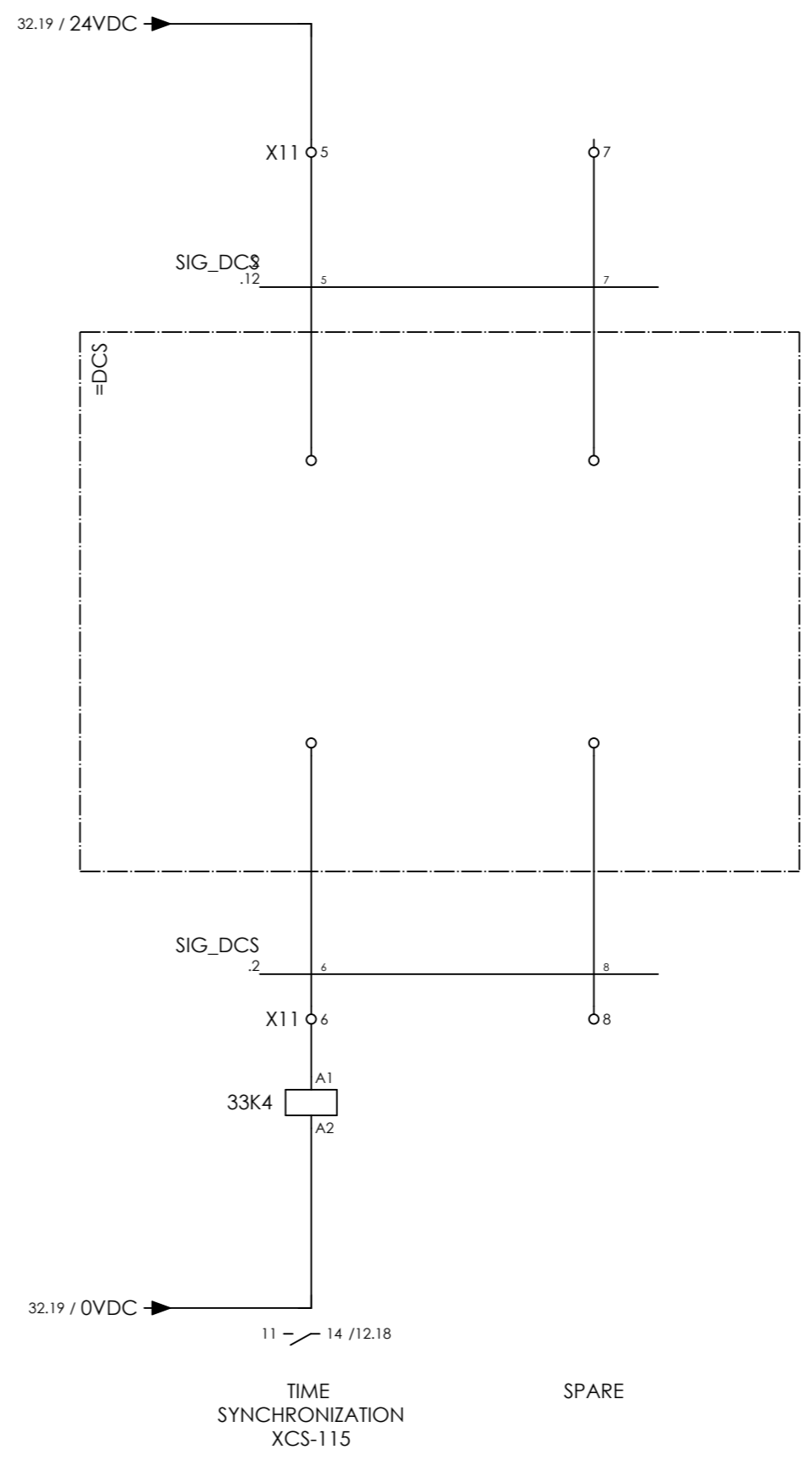
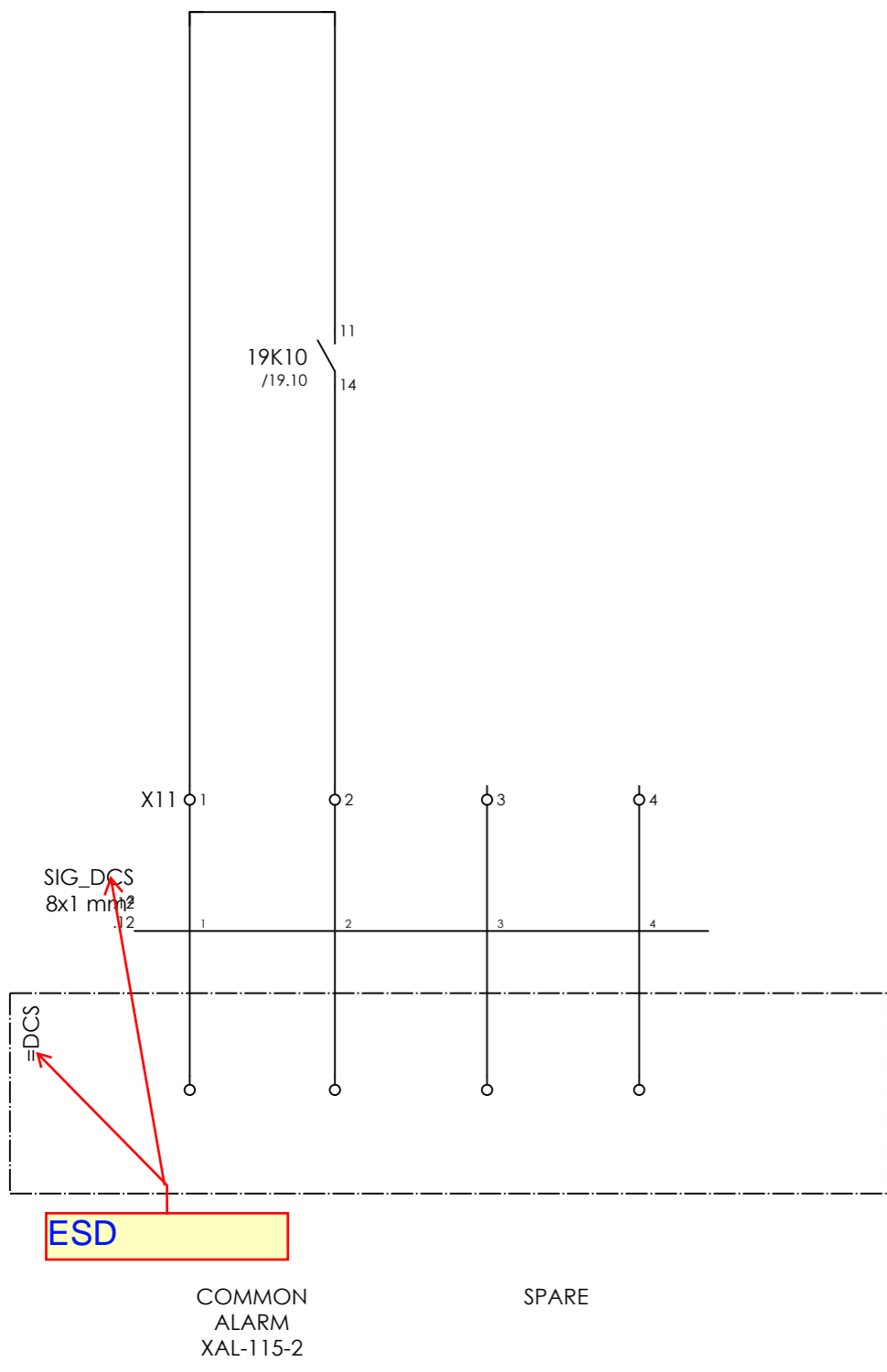
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SIGNALS TO DISTRIBUTION BOARD		CHECKED BY		RBE		+ UCP-C1002-01	
ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE		14/10/2021		CURRENT PAGE	
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.		17811-05			
CLIENT REF.	Bushehr MEG Plant Project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



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

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+ UCP-C1002-01	
CURRENT PAGE	
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	42



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

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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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	Target designation	Connection point	Terminal	Connection point	
-PS_02	3x2.5 sqmm	1	.	=CUSTOMER-L	-2S2	=CUSTOMER-L	2			
-PS_01	3x2.5 sqmm	2	.	=CUSTOMER-N	-2S2	=CUSTOMER-N	4			
-PS_00	3x2.5 sqmm	3	.	=CUSTOMER-PE		=CUSTOMER-PE	PE			
		4	.	=CUSTOMER-L	-2S4	=CUSTOMER-L	2			
		5	.	=CUSTOMER-N	-2S4	=CUSTOMER-N	4			
		6	.	=CUSTOMER-PE		=CUSTOMER-PE	PE			
		7	.	=CUSTOMER-L	-2S6	=CUSTOMER-L	2			
		8	.	=CUSTOMER-N	-2S6	=CUSTOMER-N	4			
		9	.	=CUSTOMER-PE		=CUSTOMER-PE	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-X1 SOLENOIDS							Cable name	
Terminal	Connection point	Target designation	Jumper	Target designation	Connection point	Terminal	Target designation	Connection point	Terminal	
1+	1+	+JNDX-C1002-01-X1			1+	1+				
1-	1-	+JNDX-C1002-01-X1	•		1-	1-				
2+	2+	+JNDX-C1002-01-X1	•		2+	2+				
2-	2-	+JNDX-C1002-01-X1	•		2-	2-				
3+	3+	+JNDX-C1002-01-X1	•		3+	3+				
3-	3-	+JNDX-C1002-01-X1	•		3-	3-				
4+	4+	+JNDX-C1002-01-X1	•		4+	4+				
4-	4-	+JNDX-C1002-01-X1	•		4-	4-				
5+	5+	+JNDX-C1002-01-X1			5+	5+				
5-	5-	+JNDX-C1002-01-X1			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	01
EQUIPMENT LOCATION	Iran, Onshore	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	45

= 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	Connection point	
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-	.						



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-X2  
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 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 REVISION 01  
 TOTAL PAGE AMOUNT 46

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

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X4 SERIAL COMMUNICATION MODBUS TCP/IP TO CUSTOMER																Cable name		
Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	
-SERA01	4Px23 AWG																			
-SERA00	4Px23 AWG	WH/OR	OR	WH/GN	BU	WH/BU	GN	WH/BN	BN											



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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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 47

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

# 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 <sup>2</sup>												
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

DRAWN BY htaher  
 CHECKED BY RBE  
 LAST MODIFICATION DATE 14/10/2021  
 AIRPACK DWG NO. 17811-05  
 REVISION 01  
 TOTAL PAGE AMOUNT 48

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

# Terminal diagram

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



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X8  
 ADAPTED TO P&ID REVISION 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 49

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



# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X11 SIGNALS TO / FROM DCS								Cable name	
Terminal	Connection point	Terminal	Connection point	Jumper	Target designation	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point
1	-19K10	1	11	.	-19K10	1	11				
2	-19K10	2	14	.	-19K10	2	14				
3		3		.		3					
4		4		.		4					
5		5	19	.	-X8	5	19				
6		6	A1	.	-33K4	6	A1				
7		7		.		7					
8		8		.		8					



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-X11  
 ADAPTED TO P&ID REVISION 01  
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 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 51

= 20-C-1002  
 + UCP-C1002-01  
 CURRENT PAGE  
 41

TERMINAL STRIP DEFINITION

JUNCTION BOX  
JNDX-C1002-01

X1 = CONNECTION SOLENOIDS

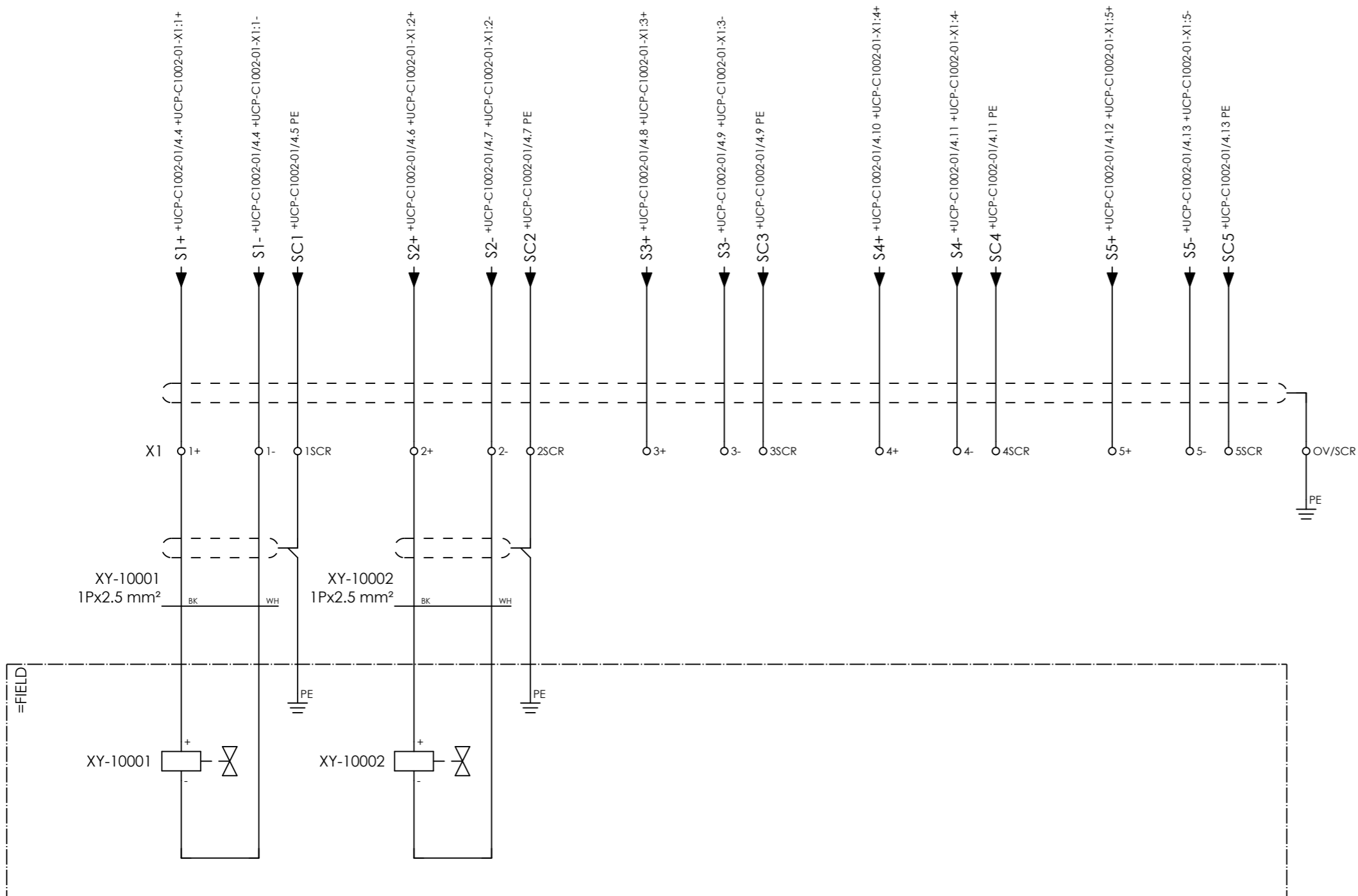


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaheer
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	94

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



COMPRESSOR A  
INLET  
SOLENOID VALVE  
XY-10001

COMPRESSOR A  
COOLING WATER INLET  
SOLENOID VALVE  
XY-10001

SPARE

SPARE

SPARE

XY-10002

# 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	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper
=FIELD-XY-10001	+	1+	.	+UCP-C1002-01-X1	1+	1+	.								
=FIELD-XY-10001	-	1-	.	+UCP-C1002-01-X1	1-	1-	.								
		1SCR													
=FIELD-XY-10002	+	2+	.	+UCP-C1002-01-X1	2+	2+	.								
=FIELD-XY-10002	-	2-	.	+UCP-C1002-01-X1	2-	2-	.								
		2SCR													
		3+	.	+UCP-C1002-01-X1	3+	3+	.								
		3-	.	+UCP-C1002-01-X1	3-	3-	.								
		3SCR													
		4+	.	+UCP-C1002-01-X1	4+	4+	.								
		4-	.	+UCP-C1002-01-X1	4-	4-	.								
		4SCR													
		5+	.	+UCP-C1002-01-X1	5+	5+	.								
		5-	.	+UCP-C1002-01-X1	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  
 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 54

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

TERMINAL STRIP DEFINITION

JUNCTION BOX  
JIAX-C1002-01

X2 = CONNECTION TRANSMITTERS

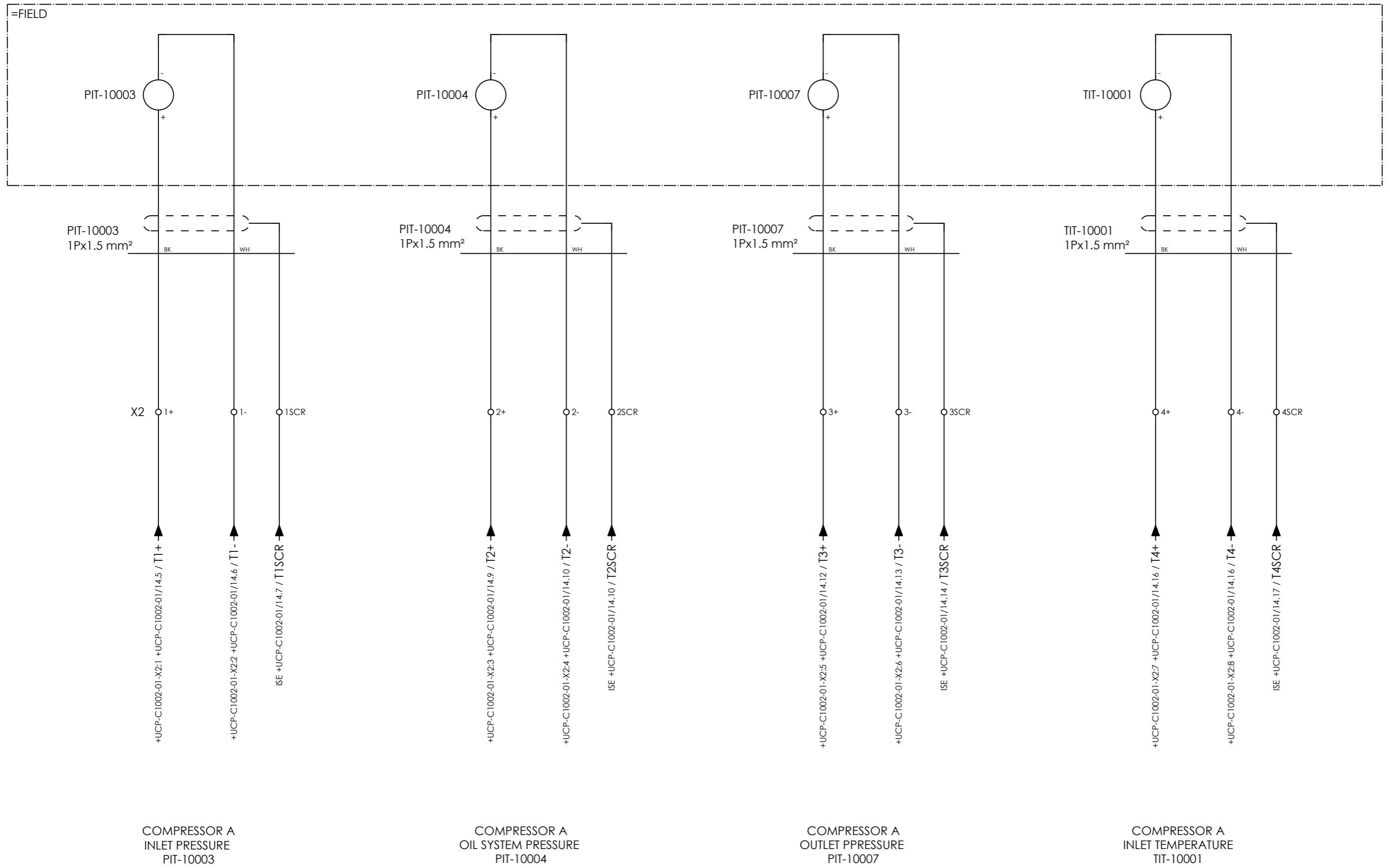


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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

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



COMPRESSOR A  
INLET PRESSURE  
PIT-10003

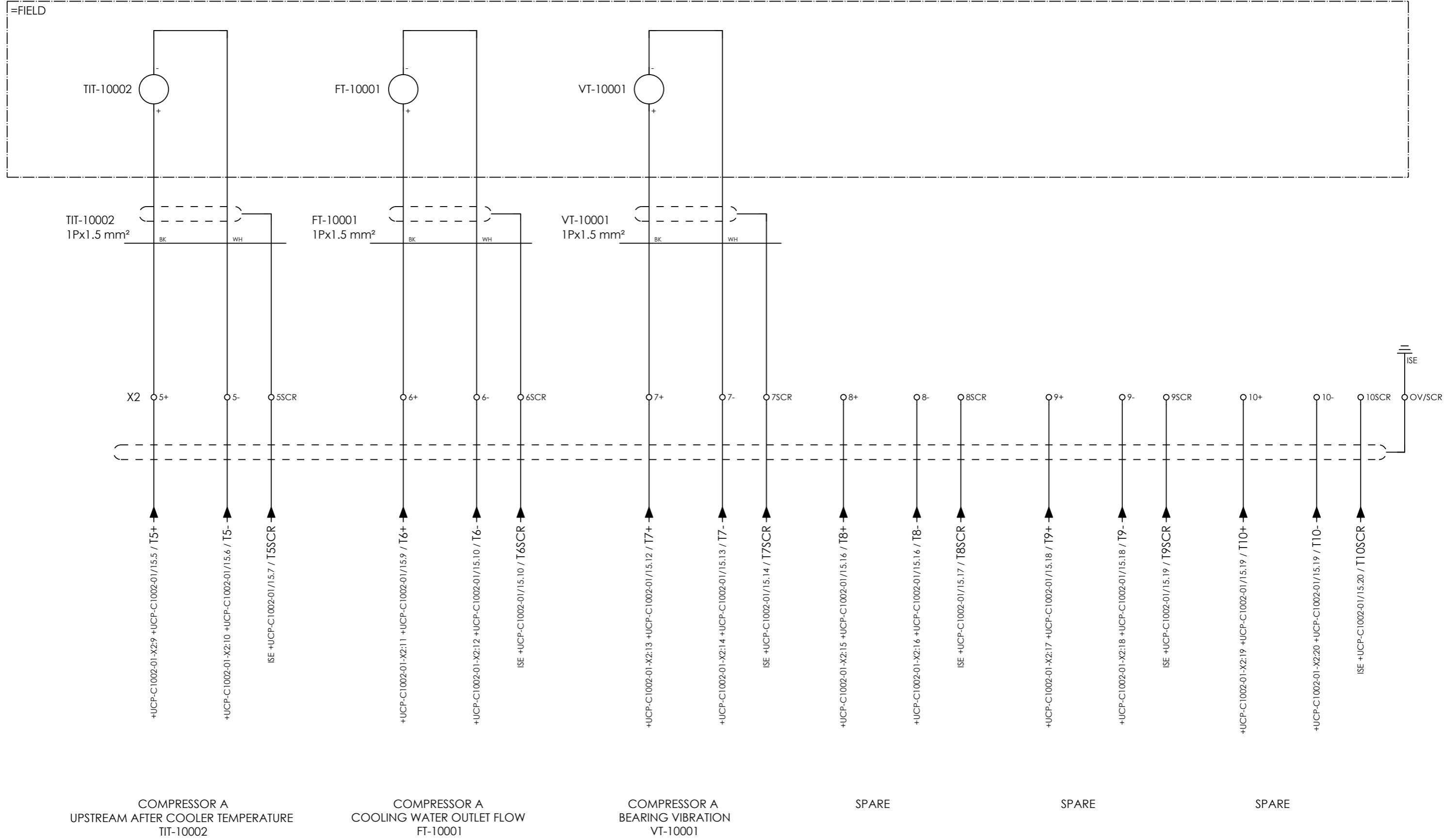
COMPRESSOR A  
OIL SYSTEM PRESSURE  
PIT-10004

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10007

COMPRESSOR A  
INLET TEMPERATURE  
TIT-10001



CLIENT DWG NO.		SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	CONNECTION TRANSMITTERS		CHECKED BY	RBE	+ JIAX-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION		LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION		
		AIRPACK REF.	17811-05A	PAGE NUMBER	95	



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

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ JIAX-C1002-01
LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
AIRPACK DWG NO.		
REVISION		
PAGE NUMBER	96	





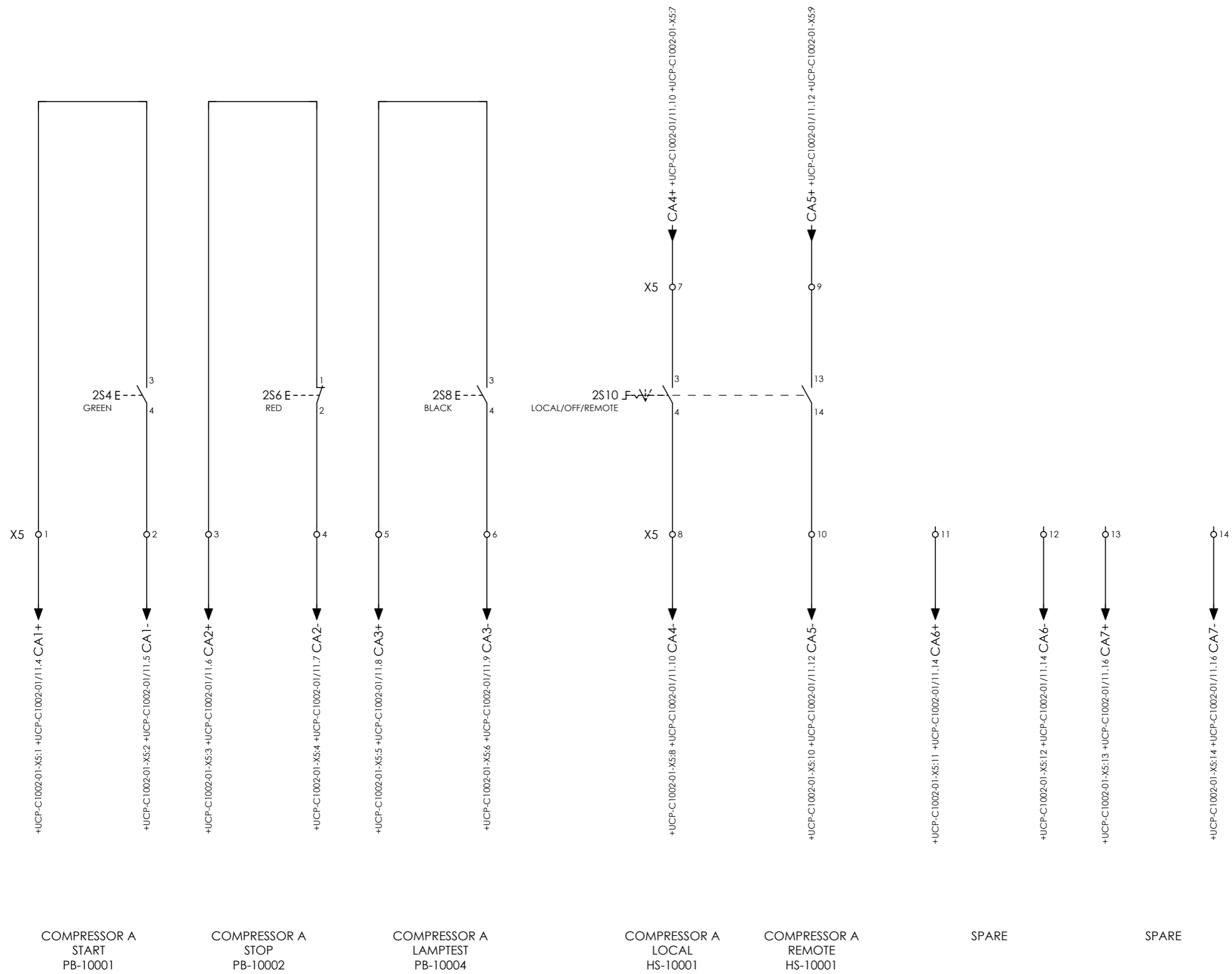
TERMINAL STRIP DEFINITION

LOCAL CONTROL PANEL  
LP-C1002-01

X5 = CONNECTION PUSHBUTTONS AND LAMPS  
X9 = CONNECTION ESD BUTTON



CLIENT DWG NO.		SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002			CHECKED BY	RBE	+ LP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION		LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION		
		AIRPACK REF.	17811-05A	PAGE NUMBER	94	



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

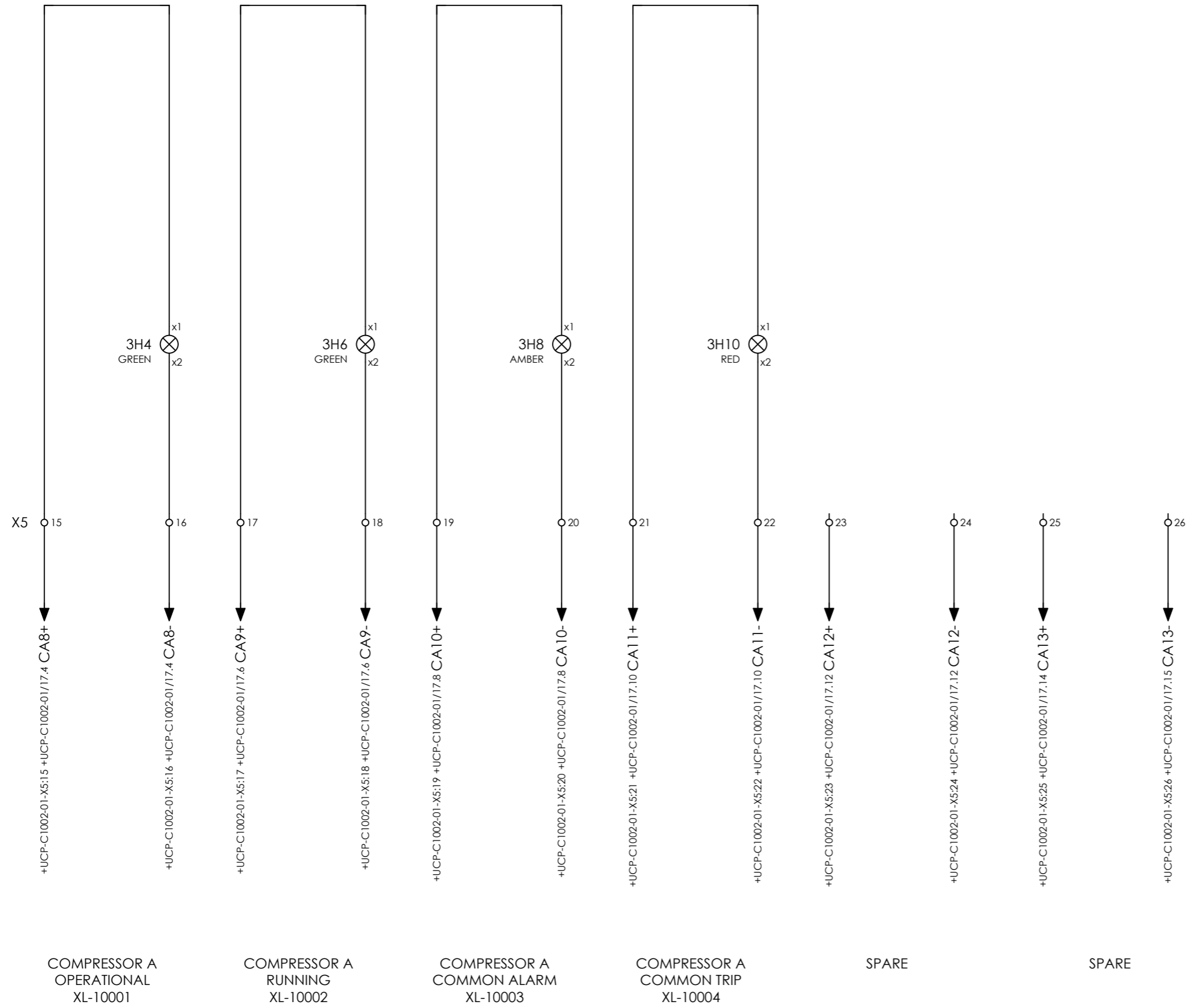


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION PUSHBUTTONS	
ADAPTED TO P&ID REVISION	01
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.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

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LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	61

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

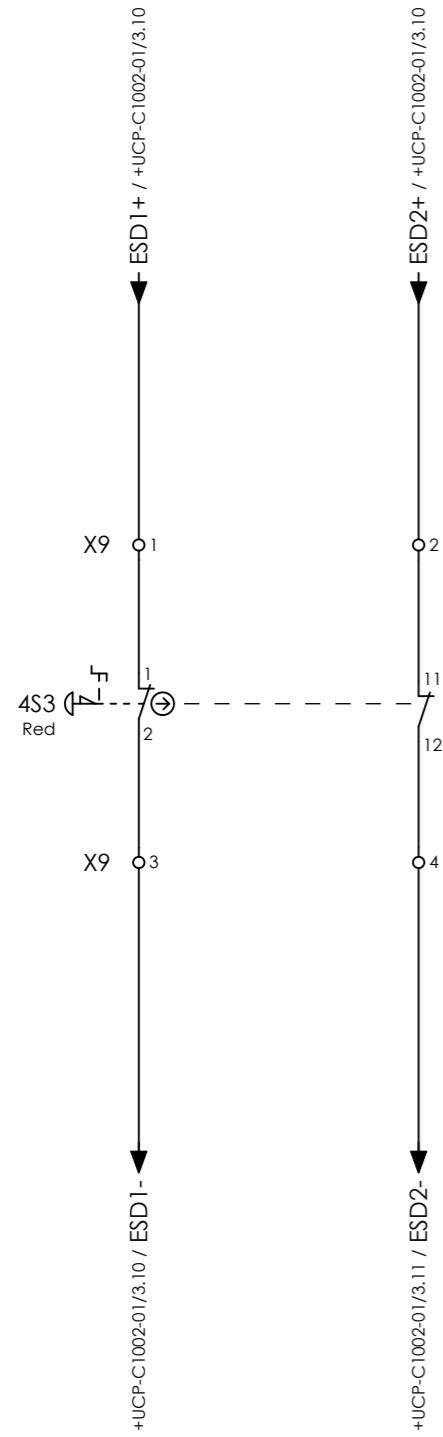


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	14/10/2021
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	62

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



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		DRAWN BY	htaher	= 20-C-1002
CONNECTION ESD BUTTON		CHECKED BY	RBE	+ LP-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	63	





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.		SUBJECT	DRAWN BY	htahter	= 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	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)		
		CLIENT REF.	Bushehr MEG Plant Project		
		AIRPACK REF.	17811-05A		
			AIRPACK DWG NO.		
			REVISION		
			PAGE NUMBER	94	

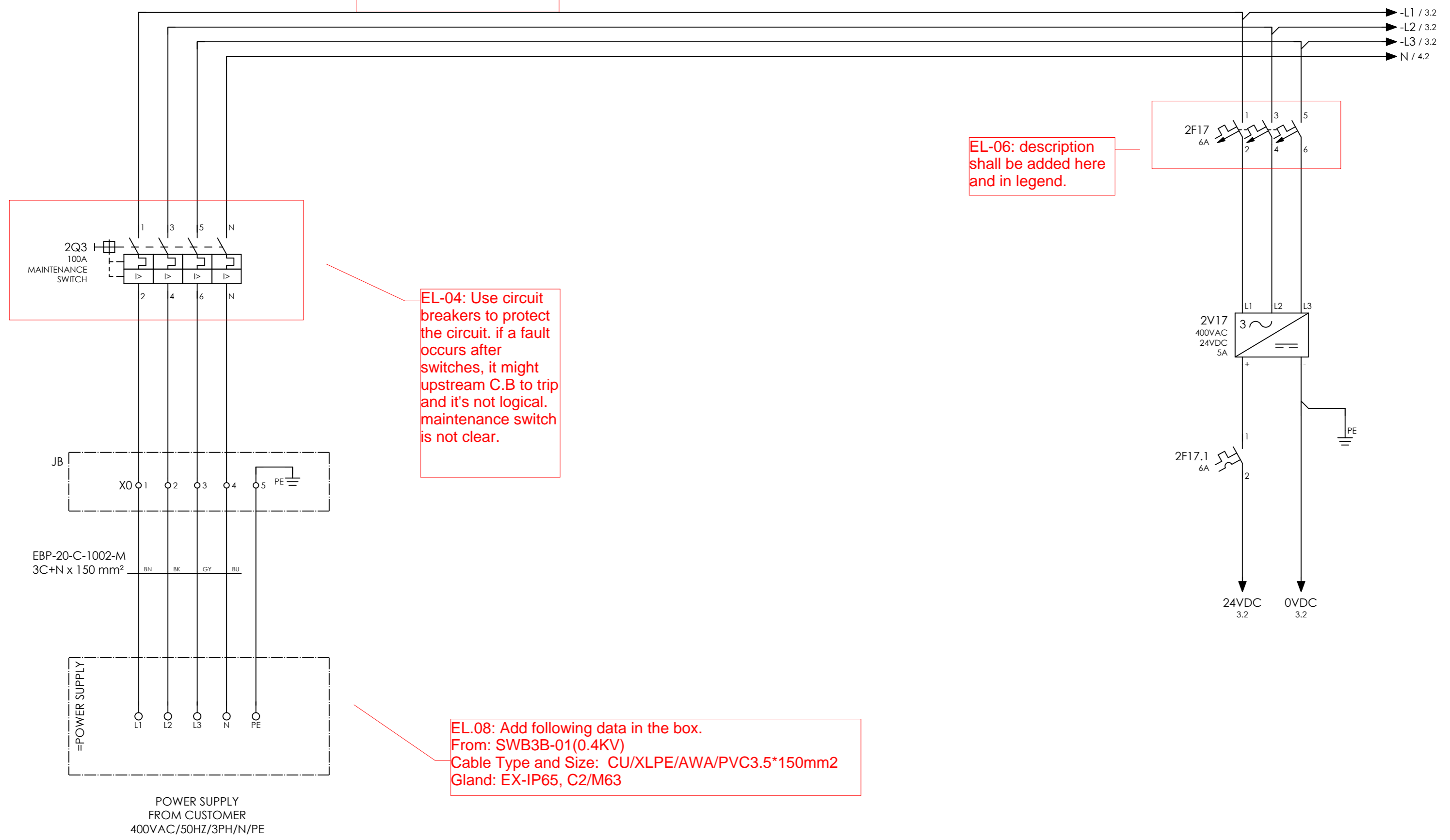
EL-05: Single line diagram document shall be revised based on this document.

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

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

EL-04: Use circuit breakers to protect the circuit. if a fault occurs after switches, it might upstream C.B to trip and it's not logical. maintenance switch is not clear.

EL-08: Add following data in the box.  
 From: SWB3B-01(0.4KV)  
 Cable Type and Size: CU/XLPE/AWA/PVC3.5\*150mm2  
 Gland: EX-IP65, C2/M63

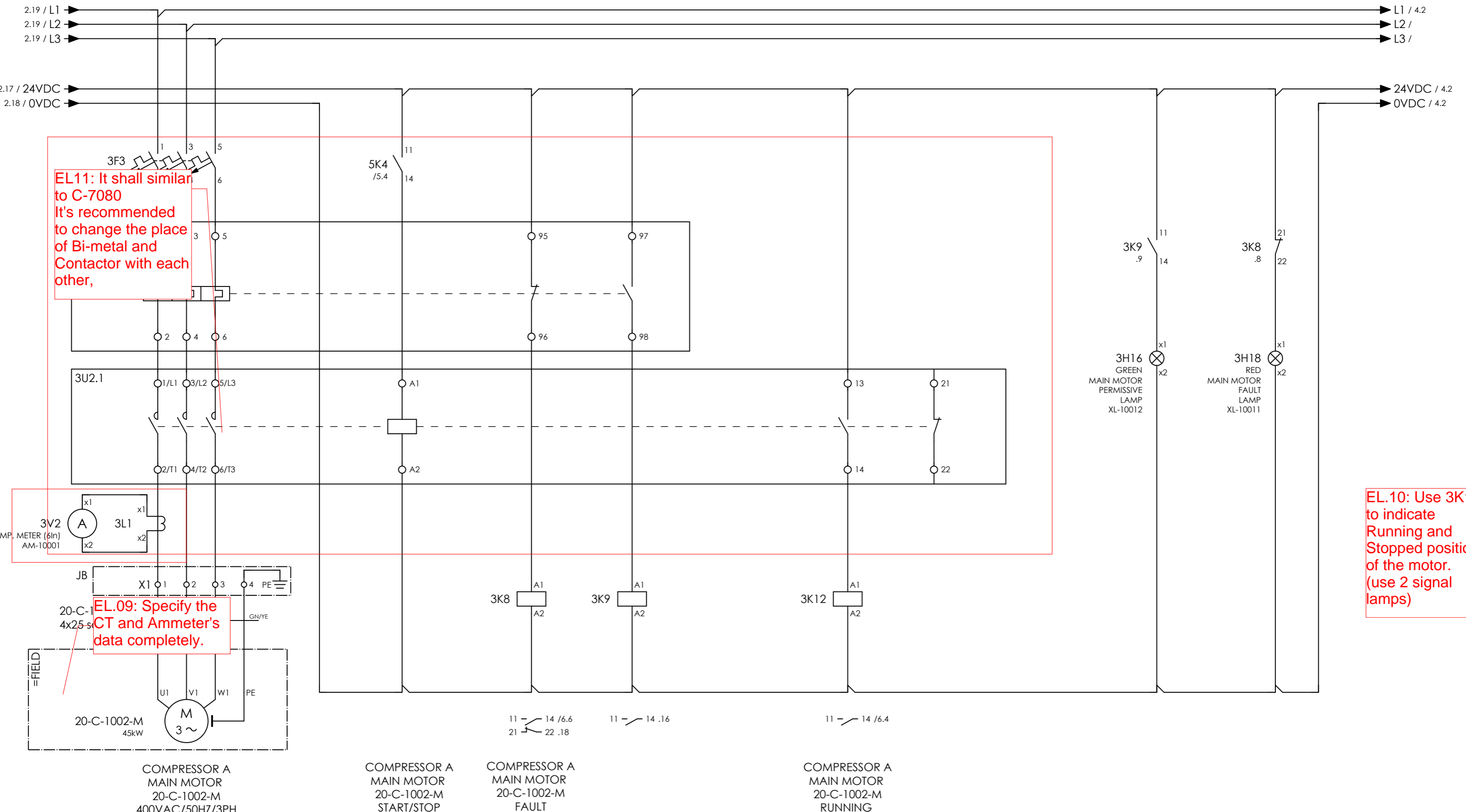


CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT POWER SUPPLY  
 ADAPTED TO P&ID REVISION 01  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 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 67

= 20-C-1002  
 + PD-C-1002-01  
 CURRENT PAGE  
 2



EL.11: It shall similar to C-7080  
It's recommended to change the place of Bi-metal and Contactor with each other,

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

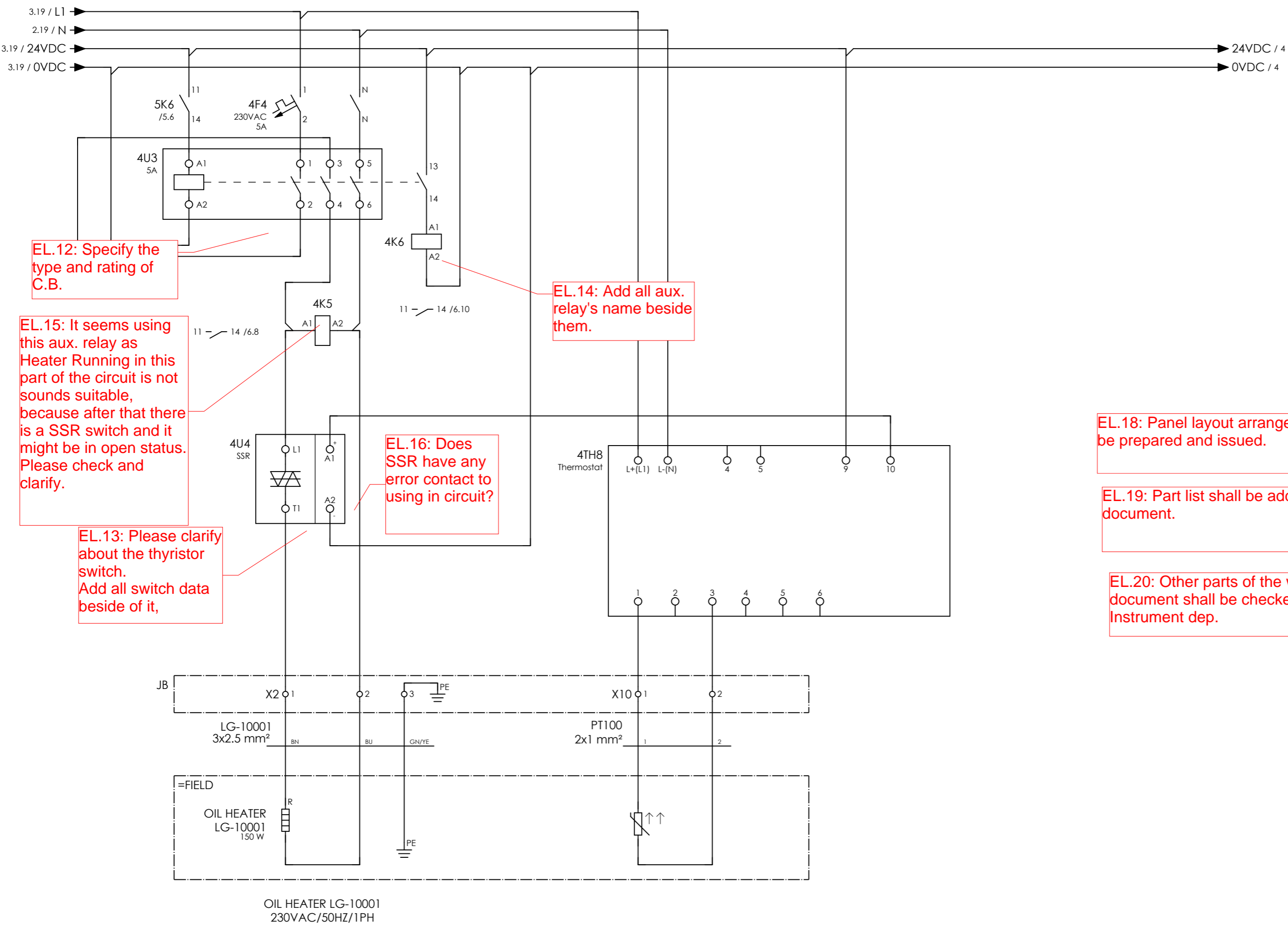
EL.10: Use 3K12 to indicate Running and Stopped position of the motor. (use 2 signal lamps)

- COMPRESSOR A MAIN MOTOR 20-C-1002-M 400VAC/50HZ/3PH
- COMPRESSOR A MAIN MOTOR 20-C-1002-M START/STOP
- COMPRESSOR A MAIN MOTOR 20-C-1002-M FAULT
- COMPRESSOR A MAIN MOTOR 20-C-1002-M RUNNING



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	MAIN MOTOR		CHECKED BY	RBE	+ PD-C-1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	01	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	01	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	68	

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ PD-C-1002-01
LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	01	
TOTAL PAGE AMOUNT	68	



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

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

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

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

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

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

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

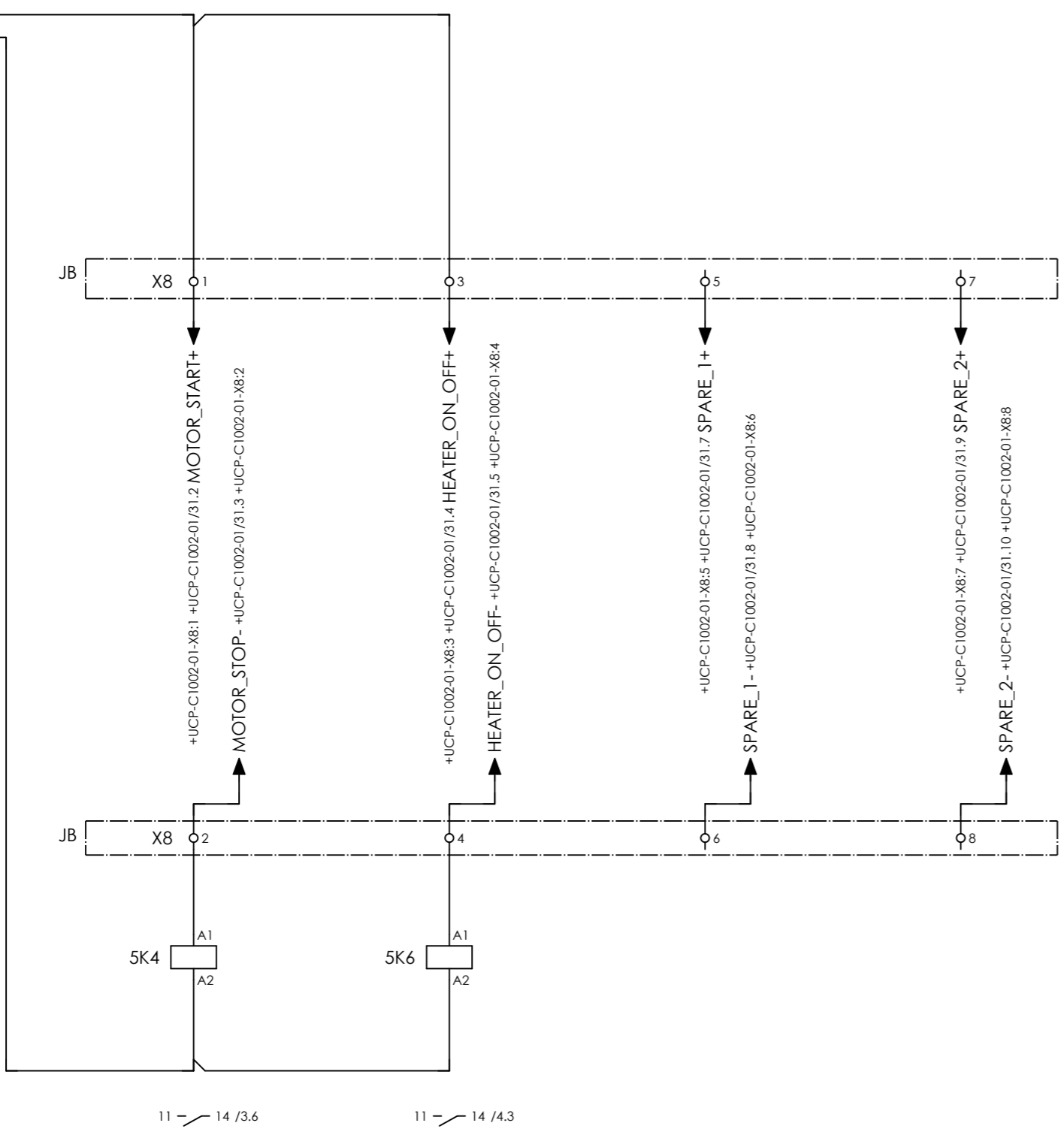
EL.20: Other parts of the wiring document shall be checked by Instrument dep.

OIL HEATER LG-10001  
230VAC/50HZ/1PH



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	OIL HEATER	DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	01	CHECKED BY	RBE	+ PD-C-1002-01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	14/10/2021	CURRENT PAGE
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		AIRPACK REF.	17811-05A	REVISION	01	
				TOTAL PAGE AMOUNT	69	

/ 24VDC  
/ -0VDC



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

COMPRESSOR A  
OIL HEATER LG-10001  
ON/OFF

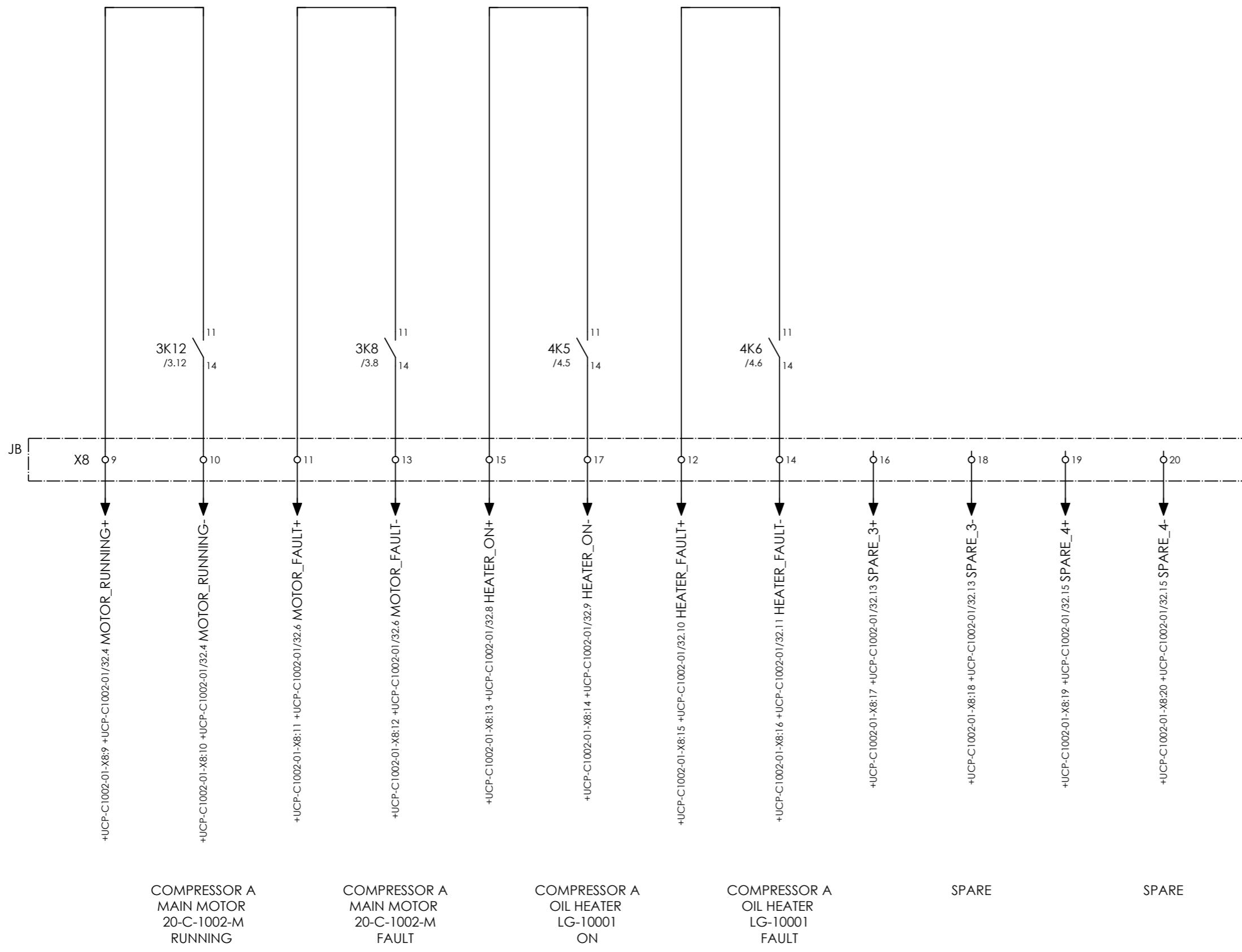
SPARE

SPARE



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

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			



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

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)				
CLIENT REF.	Bushehr MEG Plant Project				
AIRPACK REF.	17811-05A				

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+ PD-C-1002-01	
CURRENT PAGE	
AIRPACK DWG NO.	17811-05
REVISION	01
TOTAL PAGE AMOUNT	71

# 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	



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# Terminal diagram

Cable name		Strip =20-C-1002+PD-C-1002-01-X8 SIGNALS TO / FROM UCP						Cable name	
Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	Connection point	Terminal	Target designation	
1	1	+UCP-C1002-01-X8	1	.	-4U4	13			
2	2	+UCP-C1002-01-X8	2	.	-5K4	A1			
3	3	+UCP-C1002-01-X8	3	.					
4	4	+UCP-C1002-01-X8	4	.	-5K6	A1			
5	5	+UCP-C1002-01-X8	5	.					
6	6	+UCP-C1002-01-X8	6	.					
7	7	+UCP-C1002-01-X8	7	.					
8	8	+UCP-C1002-01-X8	8	.					
9	9	+UCP-C1002-01-X8	9	.	-3K12	11			
10	10	+UCP-C1002-01-X8	10	.	-3K12	14			
11	11	+UCP-C1002-01-X8	11	.	-3K8	11			
15	15	+UCP-C1002-01-X8	15	.	-4K6	11			
12	12	+UCP-C1002-01-X8	12	.	-3K8	14			
16	16	+UCP-C1002-01-X8	16	.	-4K6	14			
13	13	+UCP-C1002-01-X8	13	.	-4K5	11			
17	17	+UCP-C1002-01-X8	17	.					
14	14	+UCP-C1002-01-X8	14	.	-4K5	14			
18	18	+UCP-C1002-01-X8	18	.					
19	19	+UCP-C1002-01-X8	19	.					
20	20	+UCP-C1002-01-X8	20	.					



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# 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			



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