











OWNER:  شرکت ست و پتو آوند ایرانیاان (سهانی نام)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	<b>UCP/LCP/JB GENERAL ARRANGEMENT DRAWING &amp; TERMINAL DETAILS FOR EMERGENCY INSTRUMENT AIR COMPRESSOR INCL. BOM</b>						 Netherlands		
MC :  شرکت ست و پتو آوند ایرانیاان (سهانی نام)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No: 52-98/445	
Owner Document Number: 17811-07B	BU	20	VD	303	IN	DWG	0089	Rev.:	Page
								04	1 of 8

## UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR EMERGENCY INSTRUMENT AIR COMPRESSOR INCL. BOM

 شرکت ست و پتو آوند ایرانیاان (سهانی نام)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>
<b>Document Review</b>		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	Sep/10/2022	
<b>Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.</b>		

04	08/08/2022	For approval	BK	RB	KP	
03	16/06/2022	For approval	BK	RB	KP	
02	14/12/2021	For approval	HT	RB	KP	
01	19/10/2021	For approval	HT	RB	KP	
00	24/11/2020	For approval	HT	RB	KP	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

<b>OWNER:</b>  شرکت ست و سدی توسه ایرانیاان (سامی ناس)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>						<b>EPC CONTRACTOR</b>  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	<b>UCP/LCP/JB GENERAL ARRANGEMENT DRAWING &amp; TERMINAL DETAILS FOR EMERGENCY INSTRUMENT AIR COMPRESSOR INCL. BOM</b>						 Netherlands		
<b>MC :</b>  شرکت ست و سدی توسه ایرانیاان (سامی ناس)	<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:</b> 17811-07B	BU	20	VD	303	IN	DWG	0089	<b>Rev.:</b>	<b>Page</b>
								04	2 of 8

**TABULATION OF REVISED PAGES**

Page	D00	D01	D02	D03	D04
1.	X	X	X	X	X
2.	X	X	X	X	X
3.	X	X	X	X	X
4.	X	X	X	X	X
5.	X	X	X	X	X
6.	X	X	X	X	X
7.	X	X	X	X	X
8.	X	X	X	X	X
9.	X				
10.	X				
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12.	X				
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Page	D00	D01	D02	D03	D04
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A		B		C		D		GENERAL NOTES	
Nr	Description	Tagnumber		Make	Qty	Modelnumbers			
1.	Panel power on lamp (white)	2H19		Schneider	1	XB4BVB1			1. Tag numbers correspond with electrical diagram 2. All the parts that are on the list in the panel layout will be included in the IOM.
2.	Display	8A9		Siemens	1	6AV2124-0GC01-0AX0			
3.	Hourmeter	25U12		Bauser	1	629.1			
4.	Operational lamp (green)	25H4		Schneider	1	XB4BVB3			
5.	Running lamp (green)	25H6		Schneider	1	XB4BVB3			
6.	Common alarm lamp (amber)	25H8		Schneider	1	XB4BVB5			
7.	Common trip lamp (red)	25H10		Schneider	1	XB4BVB4			
8.	Start pushbutton (green)	11S4		Schneider	1	XB4BA31			
9.	Stop pushbutton (red)	11S6		Schneider	1	XB4BA42			
10.	Accept pushbutton (black)	11S10		Schneider	1	XB4BA21			
11.	Reset pushbutton (black)	11S12		Schneider	1	XB4BA21			
12.	Lamp test pushbutton (black)	11S8		Schneider	1	XB4BA21			
13.	ESD button	3S6		Schneider	1	(XB4BS8444 + ZBZ1605)			
14.	Maintenance switch	2S2, 2S4, 2S6		Schneider	3	VBF01			
15.	Panel fan + outlet filter	2M14		Rittal	1	SK3239.124			
16.	PLC power supply	5M2, 5M11		Siemens	2	6ES7405-0KR02-0AA0			
17.	CPU	5M3, 5M12		Siemens	2	6ES7414-5HM06-0AB0			
18.	CP443-1 Communication module	5M5, 5M14		Siemens	2	6GK7443-1EX30-0XE0			
19.	Panel light	2H10		Rittal	1	SZ25000.209/400/470			
20.	Ethernet switch	5M18		Siemens	1	6GK7277-1AA10-0AA0			
21.	IM153-2 HF Profibus DP module	6M2, 6M4, 7M1, 7M3		Siemens	4	6ES7153-2BA10-0XBA			
22.	24 Digital input module	6M7, 6M9, 7M7, 7M9		Siemens	4	6ES7326-1BK02-0AB0			
23.	6 Analog input module	6M10, 6M12, 6M14, 7M10, 7M12, 7M14		Siemens	6	6ES7336-4GE00-0AB0			
24.	10 Digital output module	6M15, 6M16, 6M18, 6M19, 7M15, 7M16, 7M18, 7M19		Siemens	8	6ES7326-2BF10-0AB0			
25.	Interface relay	24K4/6, 27K8, 28K3/5/8/10, 30K4/6/10, 56K4/6/8/10/13/15/17, 57K8/10/12, 58K9/12/13/17		Phoenix contact	24	2966171			
26.	ESD relay	3ESDR8, 3ESDR8		Pilz	2	2967060			
27.	Miniature circuit breaker 1P+N 110VAC / 230VAC	2F9, 2F11, 2F15, 2F17		Schneider	4	A9P54 (606/ 602/ 610/ 610)			
28.	Thermostat	2TH11, 2TH14		Rittal	2	SK3110000			
29.	Panel power supply	2V15, 2V17		Phoenix contact	2	2866778			
30.	Miniature circuit breaker 1P	215.1, 2F17.1		Schneider	2	A6N61512			
31.	Loop splitter	9U4/5/6/6.1/7/8/9/10/11/12		Pepperl+Fuchs	17	KFD2-5TL5-EX1.20			
32.	Panel heater	2U13		Rittal	1	SZ2506.120			
33.	Miniature circuit breaker 1P+N 24VDC	5F2, 5F11		Schneider	2	A9N61526			
34.	Diode	9V4, 9V4.1, 24V4/6, 25V4/6/8/10/12, 26V4/6/8/10/12, 27V4/6/8, 28V4/6/8/10/12, 30V4/6/10 47V4/6, 48V4/6/8/10/12, 49V4/6/8/10/12, 50V4/6/8, 51V4/6/8/10/12, 53V4/6/10		Phoenix contact	48	3064137			
35.	PID controller	34U2		Pepperl+Fuchs	1	(E5CC-CX3D5M-0050I+492F-52)			
36.	Quint diode	2G15		Phoenix contact	1	2907719			

Nr	Description	Tagnumber	Make	Qty					
X0	Terminal strip	X0...	Weidmuller	9	WBU4				
X1	Terminal strip	X1...	Weidmuller	10	WBU4				
X2	Terminal strip	X2...	Weidmuller	40	WBU4				
X3	Terminal strip	X3...	Weidmuller	8	WBU4				
X4	Terminal strip	X4...	Weidmuller	16	WBU4				
X5	Terminal strip	X5...	Weidmuller	26	WBU4				
X8	Terminal strip	X8...	Weidmuller	20	WBU4				
X9	Terminal strip	X9...	Weidmuller	9	WBU4				
X10	Terminal strip	X10...	Weidmuller	4	WBU4				
X11	Terminal strip	X11...	Weidmuller	4	WBU4				

REFERENCE DRAWINGS	DWG.No.
xxxxxxx	xxxxxxx

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
0	04/06/22	For approval	BK	RB	RB	-
03	15/06/22	For approval	BK	RB	RB	-
02	14/12/21	For approval	HT	RB	RB	-
01	19/10/21	For approval	HT	RB	RB	-
00	24/11/20	For approval	HT	RB	RB	-

OWNER:  MC:  CONTRACTOR: 

PROJECT: BUSHEHR PETROCHEMICAL COMPANY  
MEG PLANT

DRAWING TITLE: 17811-07B  
VOP/LOP/GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

CONTRACT NO.	SCALE	SIZE	CLASS	PHASE
52-98/445	XX	A0	1	P

DOCUMENT NO.	PROJECT	AREA	PHASE	MRQ No.	DIS.	DOC.	SEQ.	SHEET	REV. NO.
BU-20-30-30-000-000	BU-20-VD	303-IN	DWG	0089	1	OF	6	04	

UCP-C7080-01

EL:  
 This document shall match "UCP/LCP/JB WIRING DIAGRAM FOR EMERGENCY INSTRUMENT AIR COMPRESSOR" document.  
 All changes in "wiring diagram" document shall be added here.  
 Such as Signal Lamp, Push Button and .....

Moreover, Tag number for equipment shall match "wiring diagram" document.

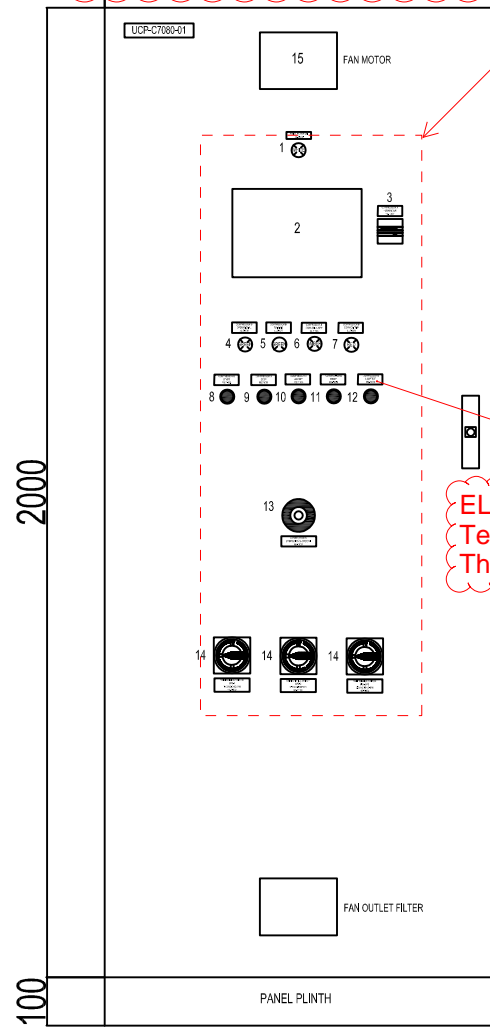
This note is not accepted and must be deleted. document must be revised based on final data.

SIDE (OUTSIDE) VIEW

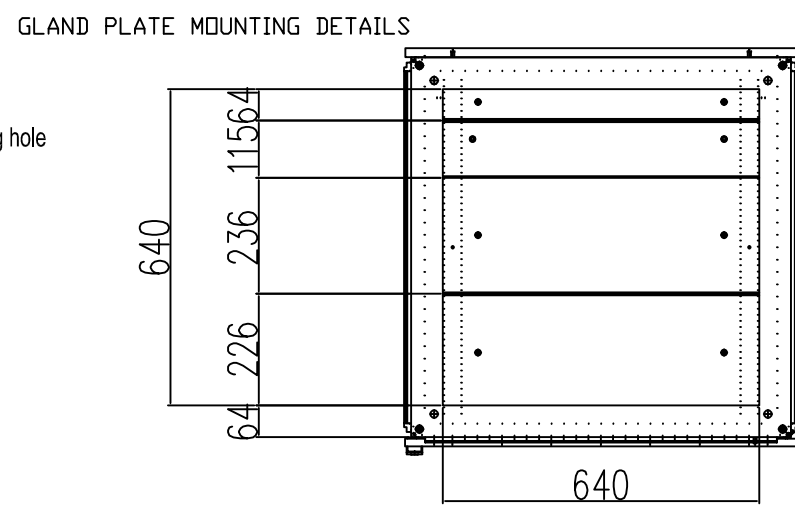
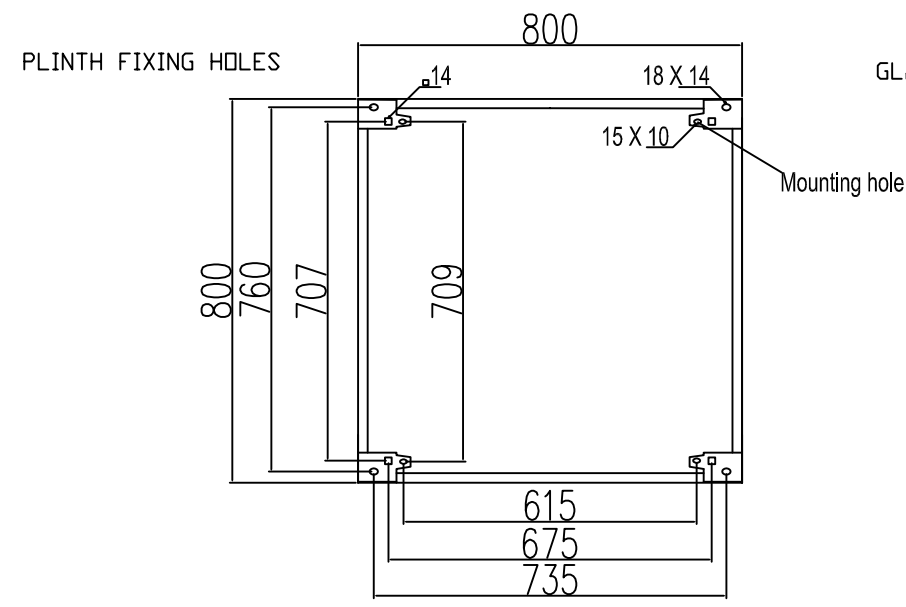
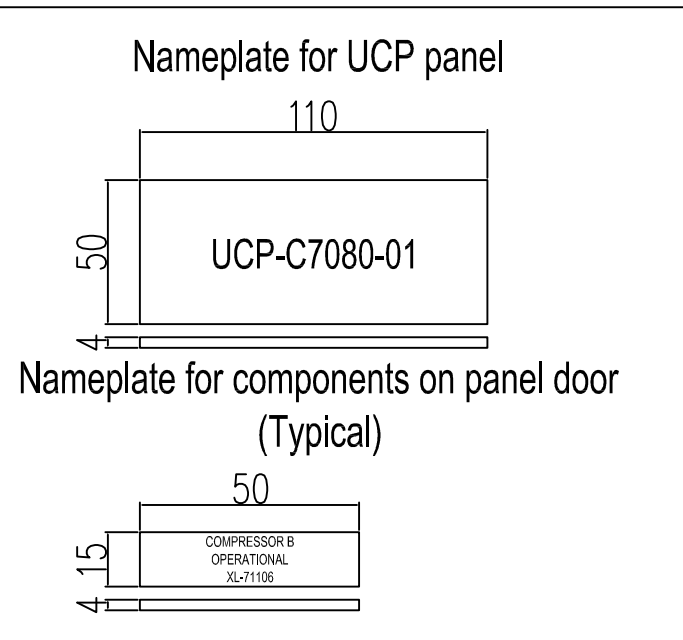
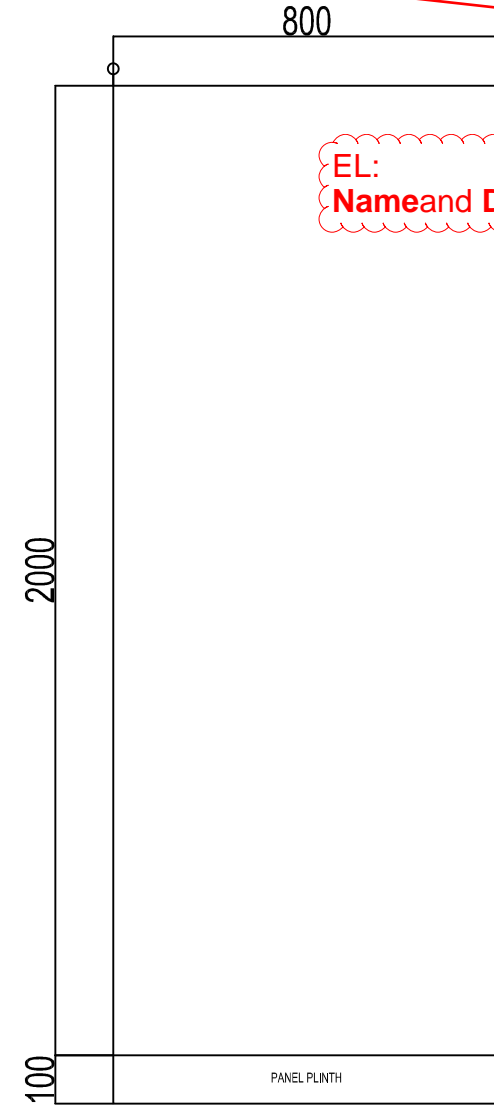
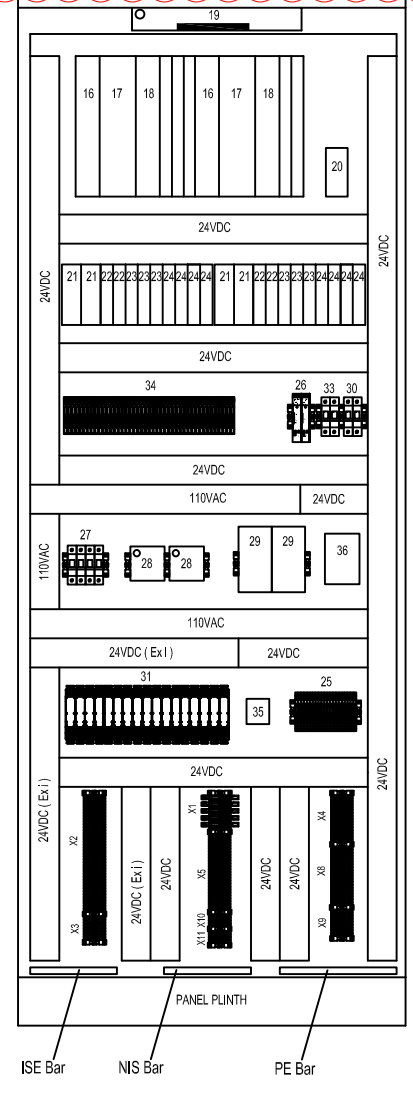
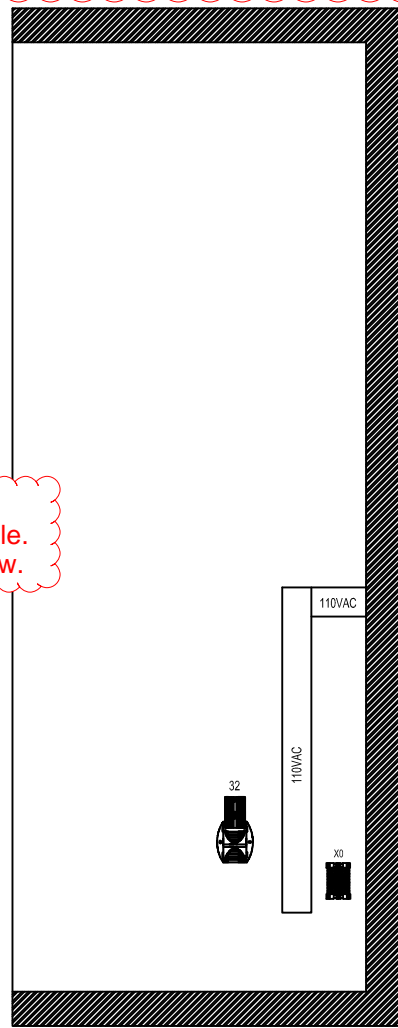
- GENERAL NOTES
1. Panel material: Painted sheet steel (RAL7035)
  2. Ingress protection: IP-42
  3. Panel dimensions: 2100x800x800 mm
  4. Area classification: Safe area
  5. Drawing pocket will be included: (A3 format)
  6. The model numbers are not official yet, it depends on what the market does. It is possible that it will still change over time.

EL:  
 Name and Document Numbers shall be added.

REFERENCE DRAWINGS	DWG.No.
XXXXXXXX	XXXXXXXX



EL:  
 Texts are not readable.  
 The quality is very low.



REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
04	04/06/22	For approval	BK	RB	RB	-
03	15/06/22	For approval	BK	RB	RB	-
02	14/12/21	For approval	HT	RB	RB	-
01	18/10/21	For approval	HT	RB	RB	-
00	24/11/20	For approval	HT	RB	RB	-

OWNER:

MC:

CONTRACTOR:

PROJECT: BUSHEHR PETROCHEMICAL COMPANY MEG PLANT

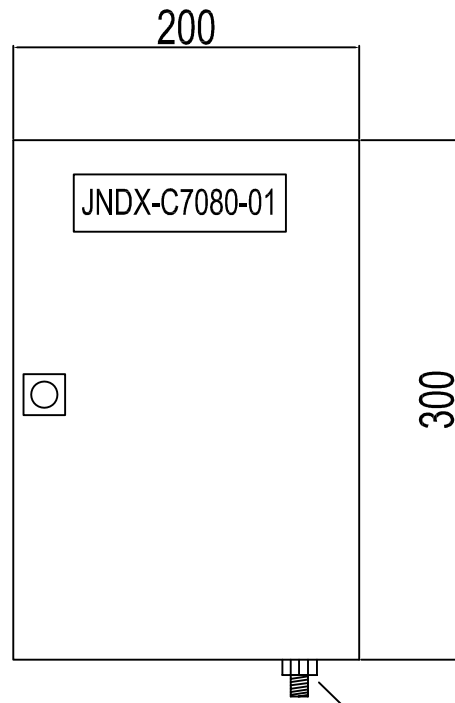
DRAWING TITLE: 17811-07B  
 UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

CONTRACT NO.	SCALE	SIZE	CLASS	PHASE
52-98/445	XX	A0	1	P

DOCUMENT NO.	PROJECT	AREA	PHASE	MIRQ No.	DIS.	DOC.	SEQ.	SHEET	REV. NO.
BU-20-VD-303-IN-DWG-0089	BU-20-VD-303-IN	VD	303	IN	DWG	0089	2	OF 6	04

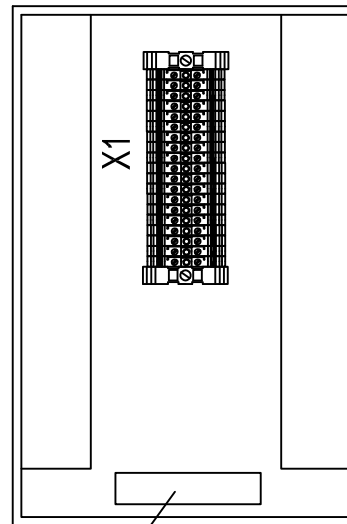
# JNDX-C7080-01

FRONT SIDE (OUTSIDE) VIEW



EARTHING BOSS M10

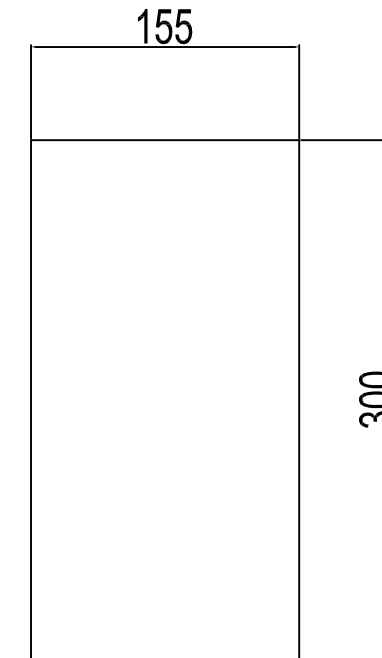
FRONT SIDE (INSIDE) VIEW



PE Bar

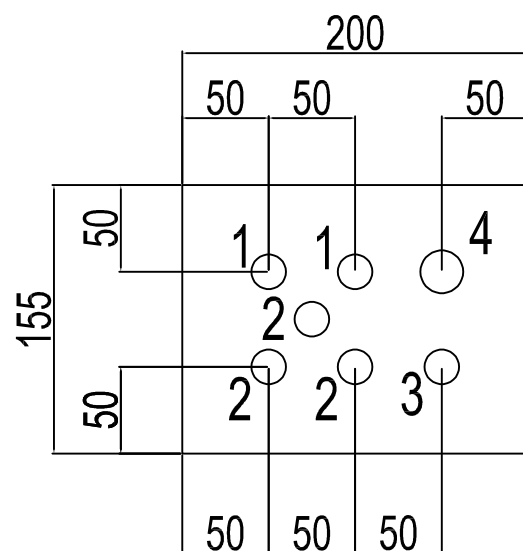
EARTHING BOSS M10

SIDE (OUTSIDE) VIEW



EARTHING BOSS M10

BOTTOM VIEW



- 1 = Solenoid cable - M20
- 2 = Spare plug - M20
- 3 = Breather / Drain - M20
- 4 = Solenoid multipair cable - M25

Gland entry details must be specified

Another label same as this label with following content must be added :  
"Explosion Hazard, Disconnect Signals before Maintenance"

White letter on Red background

THIS BOX CONTAINS NON-INTRINSICALLY SAFE SIGNALS

Terminal strip: X1  
Make: Weidmuller  
Qty: 16

NAMEPLATE, 3:1, SS316 (typical)

CE	BARTEC
BOELEWERF 25	
NL 2987VD RIDDERKERK	
Ex II 2 G Ex e IIC T5/T6 Gb	Ue: V
LCIE 10 ATEX 2071X	4 mm
Ex e IIC T6 Ga	Ta -40°C ... +55°C
IECEX CQM 11.0020X	IP66 2022
Ref. nr. :	

94

Nameplate for junction box, A

Black letters on white background

TAG.NO, 3:1, ABS JNDX-C7080-01

black letter on white background

- GENERAL NOTES
1. Panel material: SS316
  2. Ingress protection: IP-65
  3. Panel dimensions: 200x300x155 mm
  4. Area classification: Eex 'e' (RAL 6021) Gray
  5. All spare holes are plugged with certified plugs

Green

REFERENCE DRAWNGS	DWG.No.
xxxxxxx	xxxxxxx

REV	DATE	PURPOSE OF ISSUE (P.O.I)	PREP.	CHKD.	APPR.	AC.
04	04/06/22	For approval	BK	RB	RB	-
03	15/06/22	For approval	BK	RB	RB	-
02	14/12/21	For approval	HT	RB	RB	-
01	18/10/21	For approval	HT	RB	RB	-
00	24/11/20	For approval	HT	RB	RB	-

CONTRACTOR:

PROJECT: BUSHEHR PETROCHEMICAL COMPANY MEG PLANT

DRAWING TITLE: 17811-07B

CONTRACT NO. 52-98/445

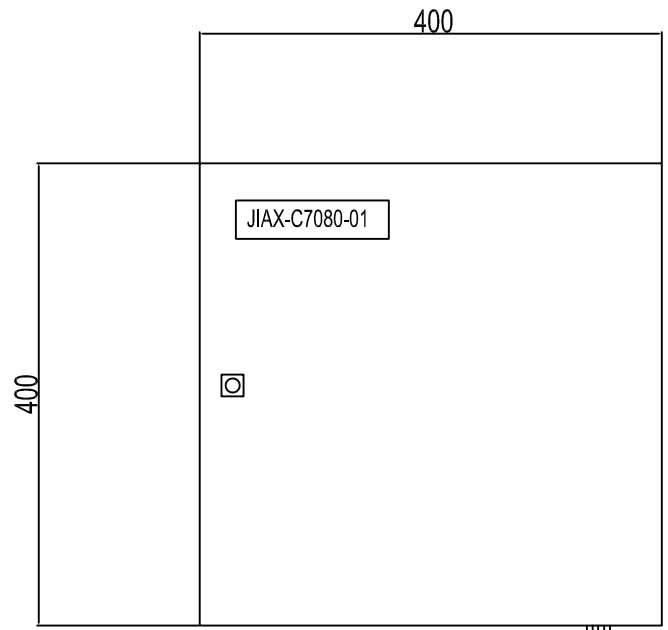
SCALE	SIZE	CLASS	PHASE
XX	A0	1	P

OWNER DOC. NO.: BU-20-VD-303-IN-DWG-0089

3 OF 6

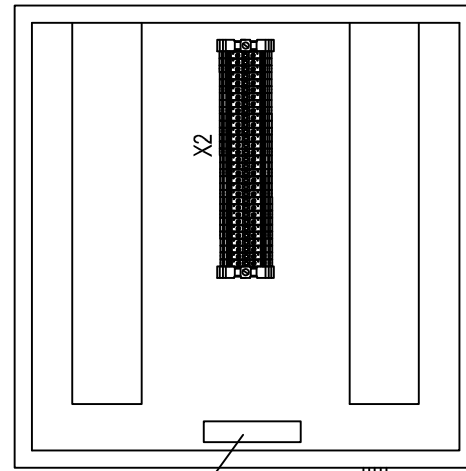
JIAX-C7080-01

FRONT SIDE (OUTSIDE) VIEW



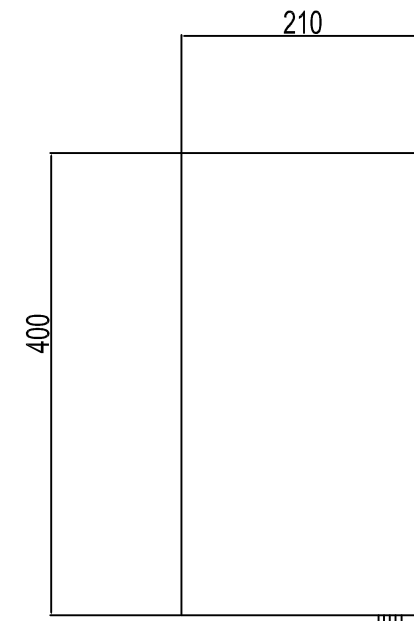
EARTHING BOSS M10

FRONT SIDE (INSIDE) VIEW



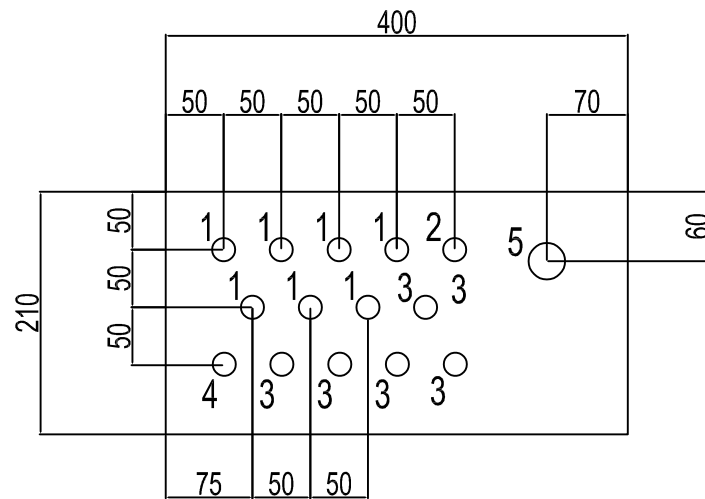
ISE Bar EARTHING BOSS M10

SIDE (OUTSIDE) VIEW



EARTHING BOSS M10

BOTTOM VIEW



GLAND ENTRY DETAILS

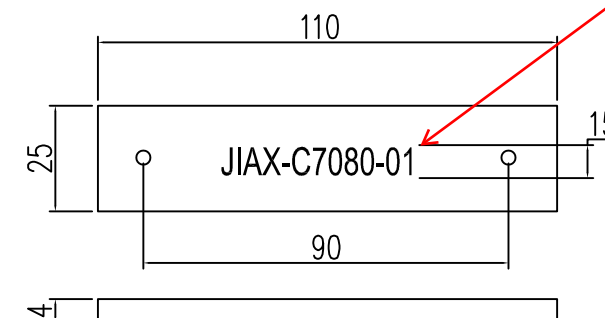
M20: 1x (Breather)  
 M20: 13x  
 M32: 1x

10X

- 1 = Transmitter cable - M20
- 2 = PCV cable - M20
- 3 = Spare plug - M20
- 4 = Breather / Drain - M20
- 5 = Transmitter/PCV multipair cable - M32

Terminal strip: X2  
 Make: Weidmuller  
 Qty: 31

Nameplate for junction box  
 Material: ABS  
 Black letters on white background



GENERAL NOTES

1. Panel material: SS316
2. Ingress protection: IP-65
3. Panel dimensions: 400x400x210 mm
4. Area classification: Eex 'i' (RAL 5015) Blue
5. All spare holes are plugged with certified plugs

REFERENCE DRAWINGS	DWG.No.
XXXXXXXX	XXXXXXXX

**Repeated Comment**  
 This is tag plate that you specified, in addition tag plate, name plate and special label (same as attached file in previous rev.) shall be specified in this document.

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
04	04/08/22	For approval	HT	BK	RB	-
03	15/08/22	For approval	HT	BK	RB	-
02	14/12/21	For approval	HT	RB	RB	-
01	19/10/21	For approval	HT	RB	RB	-
00	24/11/20	For approval	HT	RB	RB	-

OWNER:		MC:		CONTRACTOR:	
PROJECT:		BUSHEHR PETROCHEMICAL COMPANY		MEG PLANT	
DRAWING TITLE:		17811-07B		USP/ISP/IS GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR EMERGENCY INSTRUMENT AIR COMPRESSOR	
CONTRACT NO.	SCALE	SIZE	CLASS	PHASE	
52-88/445	XX	A0	1	P	
DOCUMENT NO.	PROJECT	AREA	PHASE	MRQ No.	DIS.
OWNER DOC. NO.:	BU-20-VD-303-IN-DWG-0089	4 OF 6	04		



LP-C7080-01

FRONT SIDE (C

E (OUTSIDE) VIEW

**EL:**  
 This document shall match "UCP/LCP/JB WIRING DIAGRAM FOR EMERGENCY INSTRUMENT AIR COMPRESSOR" document.  
 All changes in "wiring diagram" document shall be added here.  
 Such as Signal Lamp, Push Button and .....  
 Moreover, Tag number for equipment shall match "wiring diagram" document.

GENERAL NOTES

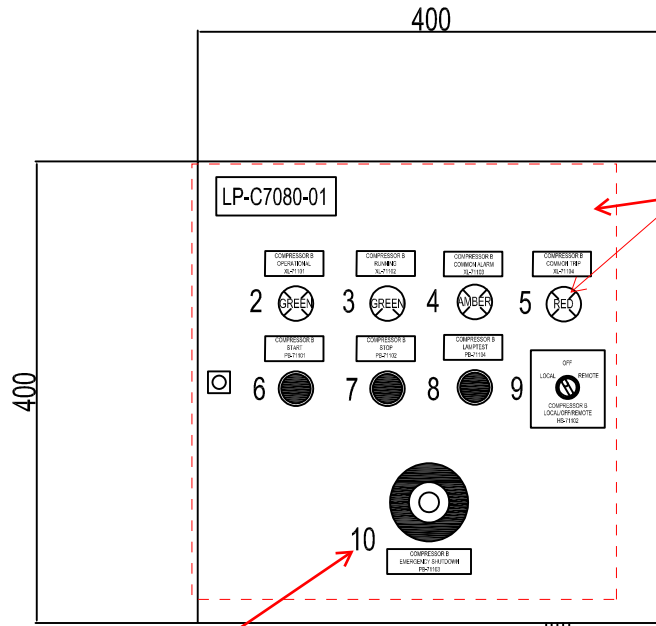
1. Panel material: SS316
2. Ingress protection: IP-65
3. Panel dimensions: 400x400x210 mm
4. Area classification: Eex 'e' (RAL 6021) Gray
5. All spare holes are plugged with certified plugs
6. Additional information processed in the nameplate:

Protection degree panel  
**Green** part circuit

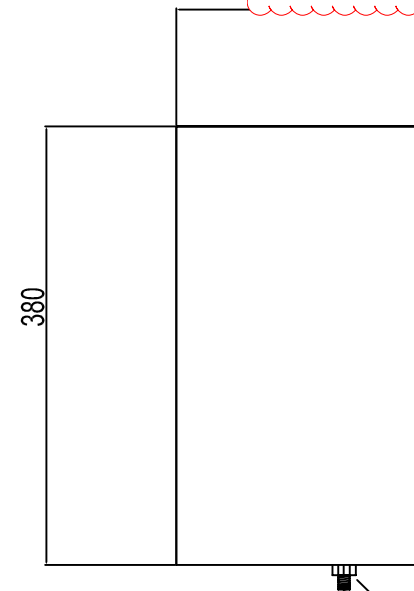
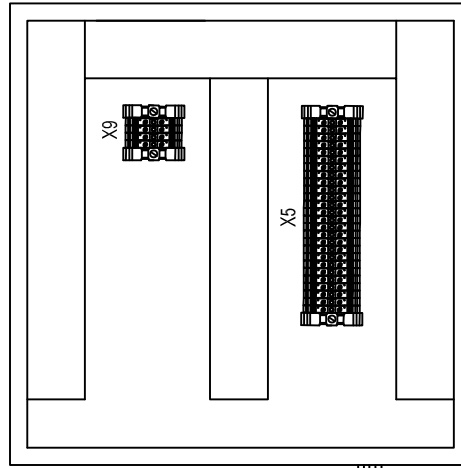
**EL:**  
 Name and Document Numbers shall be added.

- Manufacturer date
- Panel tag

REFERENCE DRAWINGS	DWG.No.
XXXXXXXX	XXXXXXXX



Location of name plate and label on the JB door must be specified.



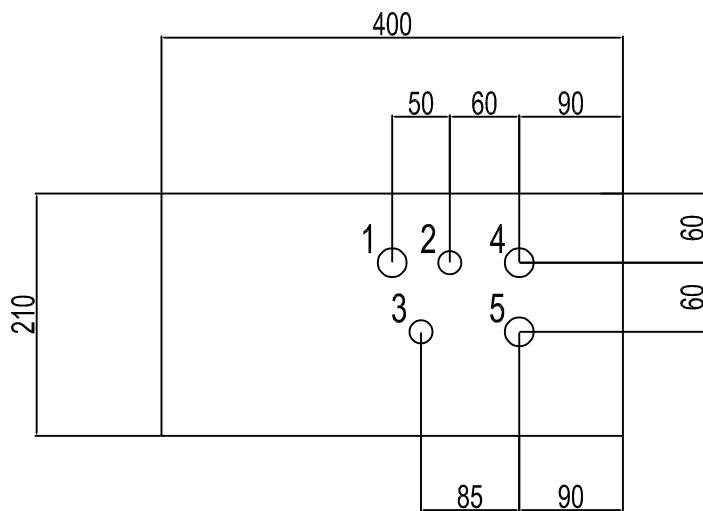
EARTHING BOSS M10

EARTHING BOSS M10

EARTHING BOSS M10

Items code number must be modified according to previous page table.

BOTTOM VIEW



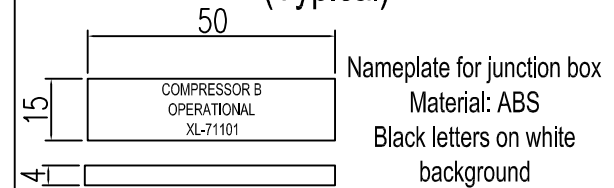
- 1 = ESD multicore cable - M25
- 2 = Spare plug - M20
- 3 = Breather / Drain - M20
- 4 = Pushbutton / Lamps multicore cable - M25
- 5 = Spare plug - M25

GLAND ENTRY DETAILS

- M20: 1x (Breather)
- M20: 1x
- M25: 3x

Another label same as this label with following content must be added :  
 "Explosion Hazard, Disconnect Signals before Maintenance"

Nameplate for components on JB door (Typical)

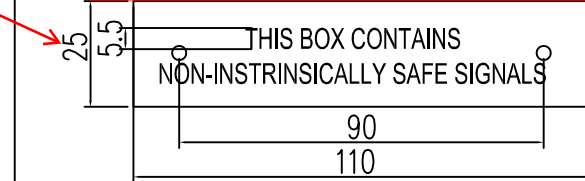


White letter on Red background

Terminal strip: X2  
 Make: Weidmuller  
 Qty: 61

Nameplate for junction box, ABS

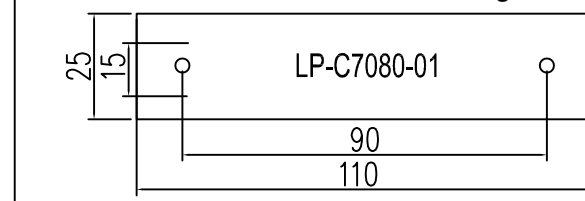
Black letters on white background



NAMEPLATE, 3:1, SS316 (typical)

CE	BARTEC
	BOELEWERF 25
	NL 2987VD RIDDERKERK
Ex II 2 G Ex e IIC T5/T6 Gb	Ue: V
LCIE 10 ATEX 2071X	4 mm
Ex ia IIC T6 Ga	Ta -40°C ... +55°C
IECEX CQM 11.0020X	IP66 2022
Ref. nr. :	

Label, 3:1, ABS  
 black letter on white background



REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.	AC.
04	04/06/22	For approval	BK	RB	RB	-
03	15/06/22	For approval	BK	RB	RB	-
02	14/12/21	For approval	HT	RB	RB	-
01	18/10/21	For approval	HT	RB	RB	-
00	24/11/20	For approval	HT	RB	RB	-

OWNER:

CONTRACTOR:

PROJECT: BUSHEHR PETROCHEMICAL COMPANY MEG PLANT

DRAWING TITLE: 17811-07B

UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

CONTRACT NO.	SCALE	SIZE	CLASS	PHASE				
52-98/445	XX	A0	1	P				
DOCUMENT NO.	PROJECT	AREA	PHASE	MIRQ No.	DIS.	SEQ.	SHEET	REV. NO.
BU-20-VD-303-IN-008	BU-20-VD-303-IN						6 OF 6	04