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|--|---|-------------|--------------|-------------|-------------|-------------|---|--|-------------|
| OWNER:  شرکت ست و پوی توسعه ایرانیاں (سهانی نام) | BUSHEHR PETROCHEMICAL COMPANY MEG PLANT | | | | | | EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT | | |
| | UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS BOOSTER INCL. BOM | | | | | | |  Netherlands | |
| MC :  شرکت ست و پوی توسعه ایرانیاں (سهانی نام) | Project | Area | Phase | Unit | Dis. | Doc. | Seq. | Contract No : 52-98/445 | |
| Owner Document Number: 17811-07A | BU | 20 | VD | 303 | IN | DWG | 0039 | Rev.: | Page |
| | | | | | | | | 04 | 1 of 8 |

UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS BOOSTER INCL. BOM

| Rev. | Date | Purpose of Issue | Prepared | Checked | Approved | AC Code |
|------|------------|------------------|----------|---------|-----------------|-----------------|
| 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 | |
| | | | | | Class: 1 | Phase: P |

| | | | | | | | | | |
|---|---|-------------|--------------|-------------|-------------|-------------|---|--------------------------------|-------------|
| OWNER:  شرکت ست دوی توسه ایرانیاان (سامی ناس) | BUSHEHR PETROCHEMICAL COMPANY MEG PLANT | | | | | | EPC CONTRACTOR:  | | |
| | UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS BOOSTER INCL. BOM | | | | | | | | |
| MC :  | Project | Area | Phase | Unit | Dis. | Doc. | Seq. | Contract No : 52-98/445 | |
| Owner Document Number: 17811-07A | BU | 20 | VD | 303 | IN | DWG | 0039 | Rev.: | Page |
| | | | | | | | | 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 | | | | |
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| Page | D00 | D01 | D02 | D03 | D04 |
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| Nr | Description | Tagnumber | Make | Qty | Modelnumbers |
|-----|--|--|-----------------|-----|-----------------------------|
| 1. | Panel power on lamp (white) | 2H19 | Schneider | 1 | XB4BVB1 |
| 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) | 11S3 | Schneider | 1 | XB4BA31 |
| 9. | Stop pushbutton (red) | 11S5 | Schneider | 1 | XB4BA42 |
| 10. | Accept pushbutton (black) | 11S9 | Schneider | 1 | XB4BA21 |
| 11. | Reset pushbutton (black) | 11S11 | Schneider | 1 | XB4BA21 |
| 12. | Lampstest pushbutton (black) | 11S7 | 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 | 2M11 | 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, 28K4/6/8/10,12, 30K4/6/, 56K4/6/8/10/13/15/17, 57K8/10/12, 58K10 | Phoenix contact | 21 | 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 | 2I5.1, 2F17.1 | Schneider | 2 | A6N61512 |
| 31. | Loop splitter | 9U4/5/6/7/8/9/10/11/12/12.1/13/14/15/16/17/18/19 | 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 |




GENERAL NOTES
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.

| REFERENCE DRAWINGS | DWG.No. |
|--------------------|---------|
| xxxxxxx | xxxxxxx |

| Nr | Description | Tagnumber | Make | Qty | Modelnumbers |
|-----|----------------|-----------|------------|-----|--------------|
| 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 |

| | | | | | |
|-------------|--------------|----|----|----|---|
| 04/08/22 | 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 | - |

REV. DATE PURPOSE OF ISSUE (P.O.I) PREP. CHKD. APPR. AC.

OWNER:  MC:  CONTRACTOR: 

PROJECT: BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT

DRAWING TITLE: 17811-07A
UCP/LCP/AB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS

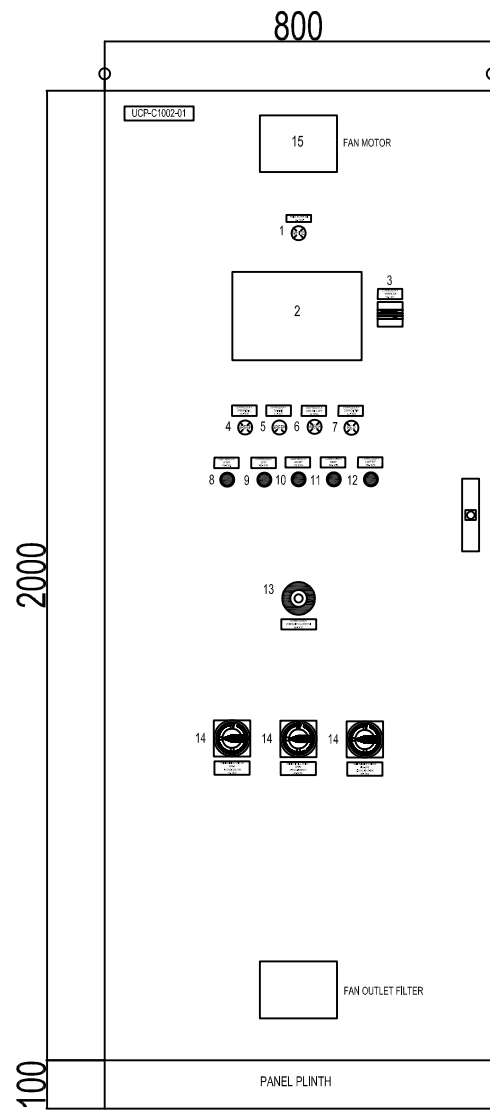
| | | | |
|--------------|-------|------|------|
| CONTRACT NO. | SCALE | SIZE | REV. |
| 52-98/445 | XX | A0 | 1 |

BOOSTER INCL. BOM

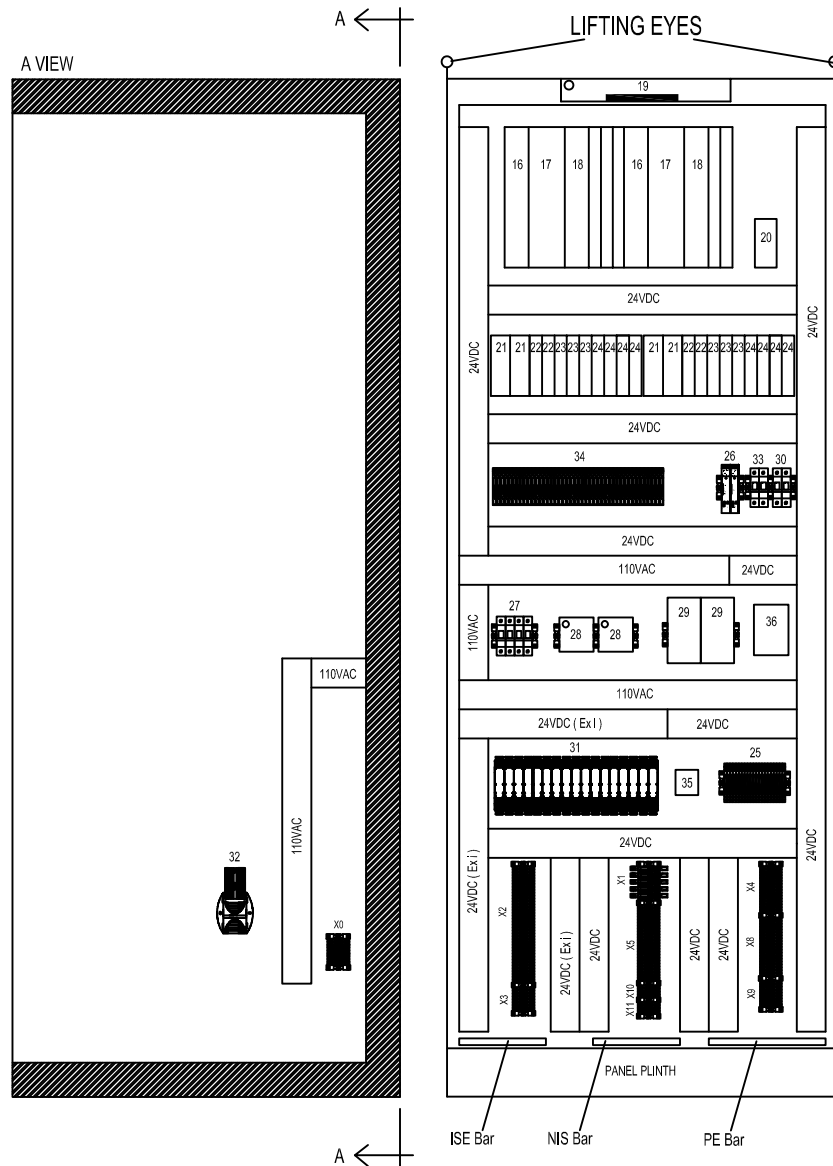
| | | | | | | | | | |
|-----------------------|---------|------|-------|---------|------|------|------|-------|----------|
| DOC. NO. | PROJECT | AREA | PHASE | MRG No. | DIS. | DOC. | SEQ. | SHEET | REV. NO. |
| BU-20-303-41-000-0330 | BU-20 | VD | 303 | IN | DWG | 0039 | 1 | OF 6 | 04 |

UCP-C1002-01

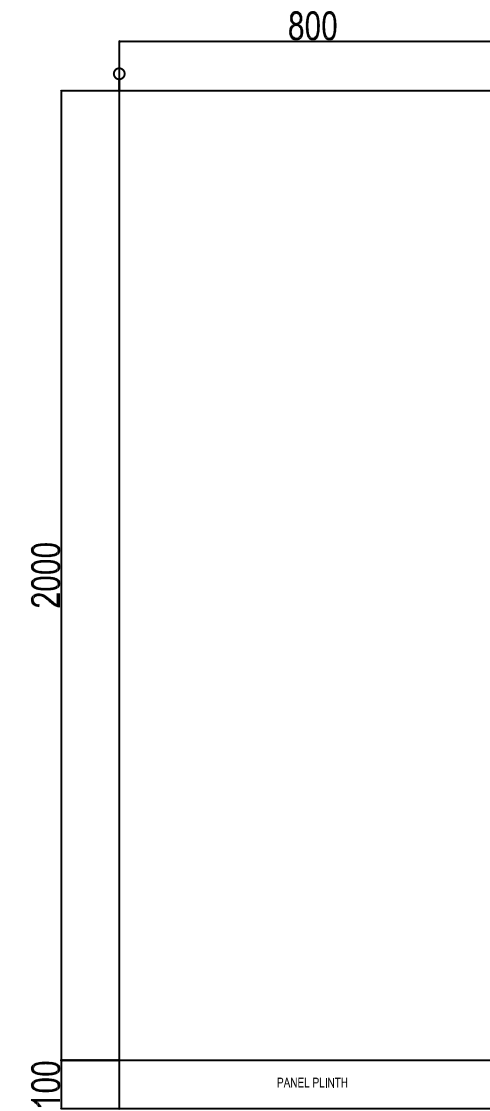
FRONT SIDE (OUTSIDE) VIEW



FRONT SIDE (INSIDE) VIEW



SIDE (OUTSIDE) VIEW

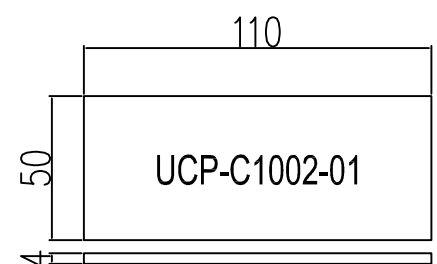


GENERAL NOTES

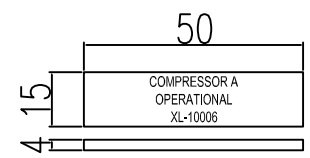
1. Panel material: Painted sheet steel (RAL7035)
2. Ingress protection: IP-42
3. Panel dimensions: 2100x800x800 mm
4. Area classification: Safe area
5. Drawing pocket will be included: (A3 format)
6. The model numbers are not official yet, it depends on what the market does. It is possible that it will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

| REFERENCE DRAWNGS | DWG.No. |
|-------------------|----------|
| XXXXXXXX | XXXXXXXX |

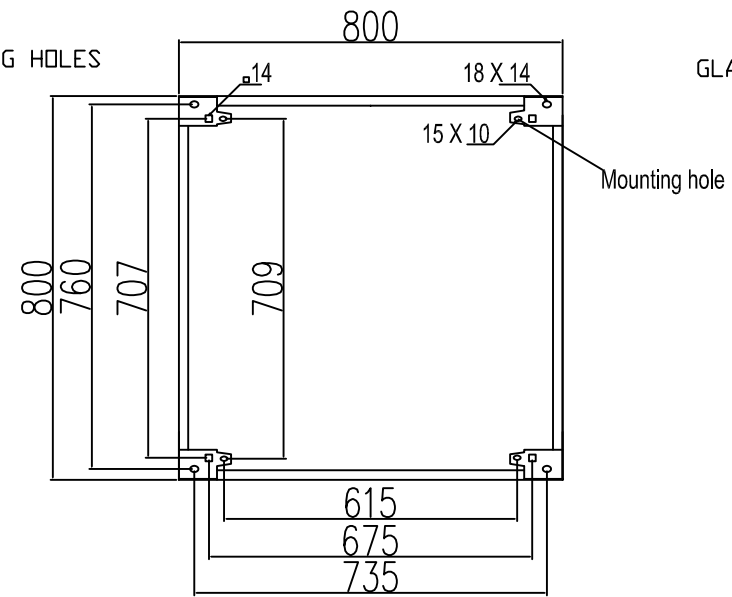
Nameplate for UCP panel



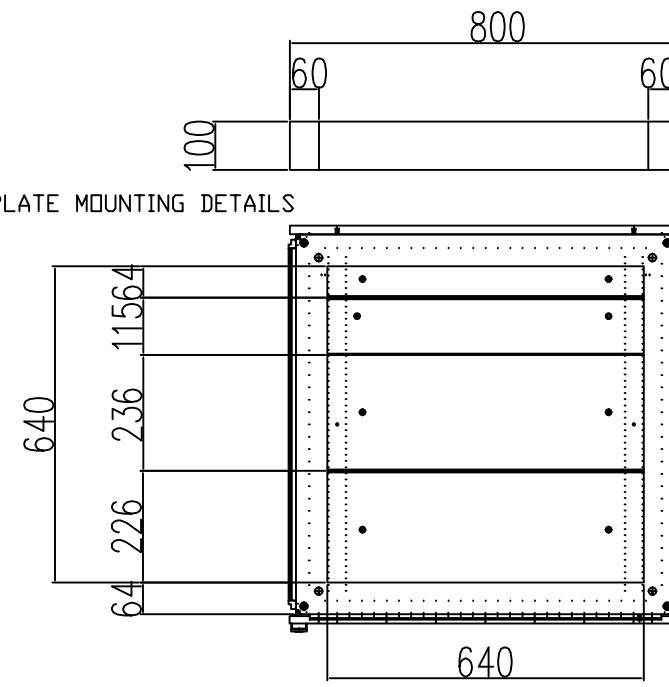
Nameplate for components on panel door (Typical)



PLINTH FIXING HOLES



GLAND PLATE MOUNTING DETAILS



| 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

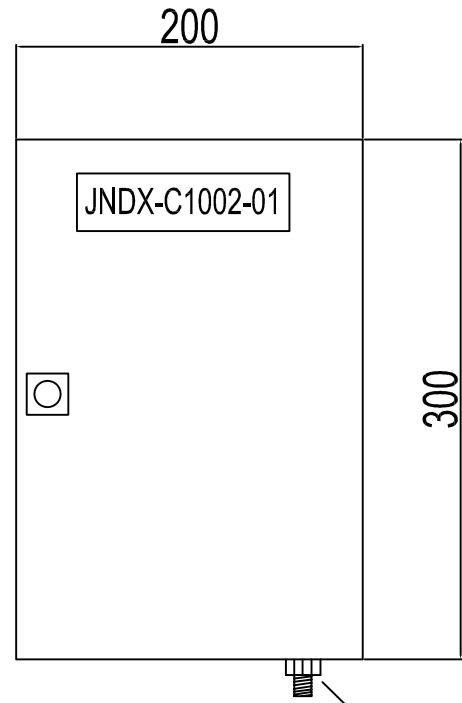
DRAWING TITLE: 17811-07A
UCP/ACP/AB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS

| CONTRACT NO. | SCALE | SIZE | 1 | P | | | | | |
|--------------------------|-----------------|------|-------|-----|-----|------|------|-------|----------|
| 52-98/445 | XX | A0 | 1 | P | | | | | |
| DOCUMENT NO. | PROJECT | AREA | PHASE | M/R | No. | DIS. | SEQ. | SHEET | REV. NO. |
| BU-20-VD-303-IN-DWG-0039 | BU-20-VD-303-IN | VD | 303 | IN | DWG | 0039 | 2 | OF | 6 |

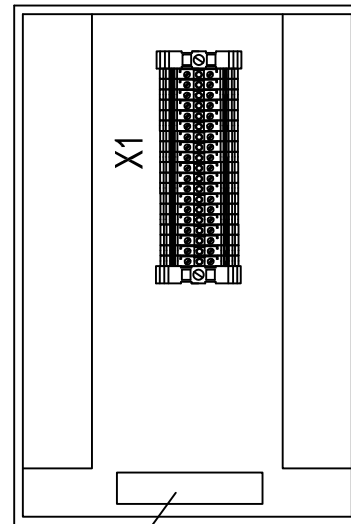
BOOSTER INCL. BOM

JNDX-C1002-01

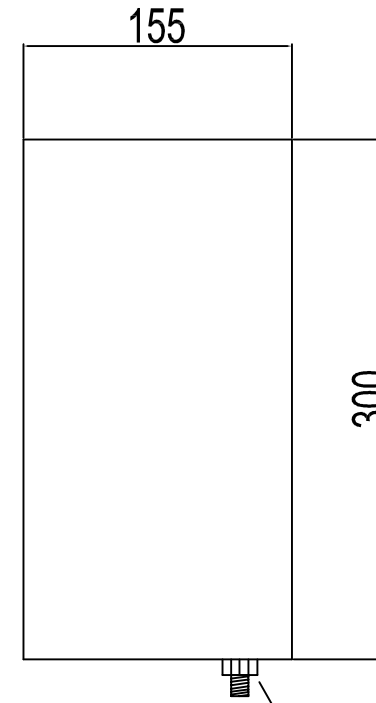
FRONT SIDE (OUTSIDE) VIEW



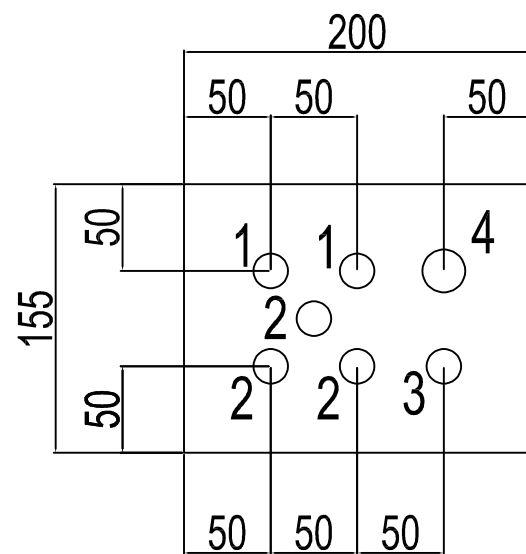
FRONT SIDE (INSIDE) VIEW



SIDE (OUTSIDE) VIEW



BOTTOM VIEW



EARTHING BOSS M10

PE Bar

EARTHING BOSS M10

EARTHING BOSS M10

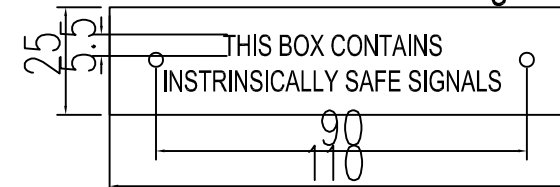
GLAND ENTRY DETAILS

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

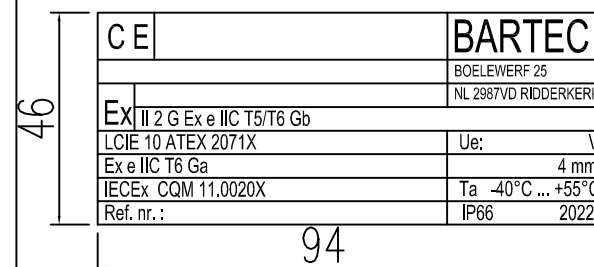
- M20: 1x (Breather)
- M20: 5x
- M25: 1x

Terminal strip: X1
Make: Weidmuller
Qty: 16

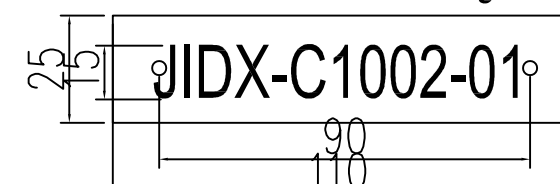
Nameplate for junction box, ABS
Black letters on white background



NAMEPLATE, 3:1, SS316 (typical)



TAG.NO, 3:1, ABS
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' (RAL6021) Gray
5. All spare holes are plugged with certified plugs

| REFERENCE DRAWINGS | DWG.No. |
|--------------------|---------|
| xxxxxxx | xxxxxxx |

| REV. | DATE | PURPOSE OF ISSUE (P.O.I.) | PREP. | CHKD. | APPR. | AC. |
|------|----------|---------------------------|-------|-------|-------|-----|
| 04 | 04/08/22 | 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: 17811-07A
BOOSTER INCL. BOM

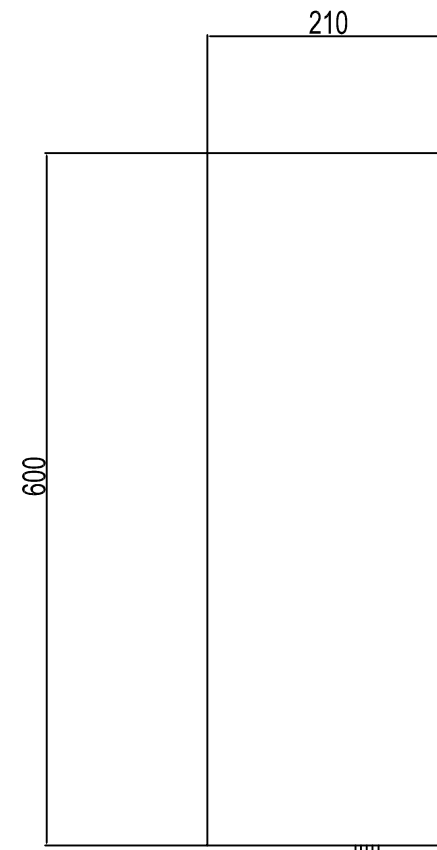
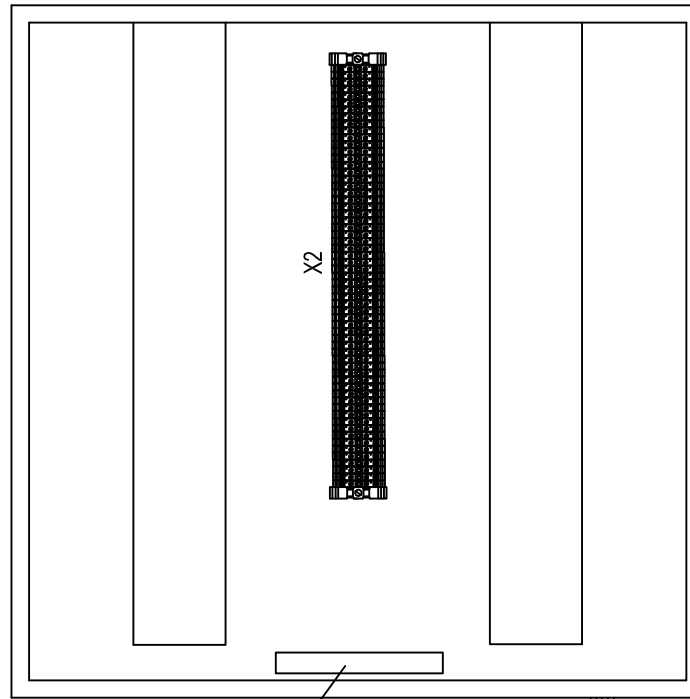
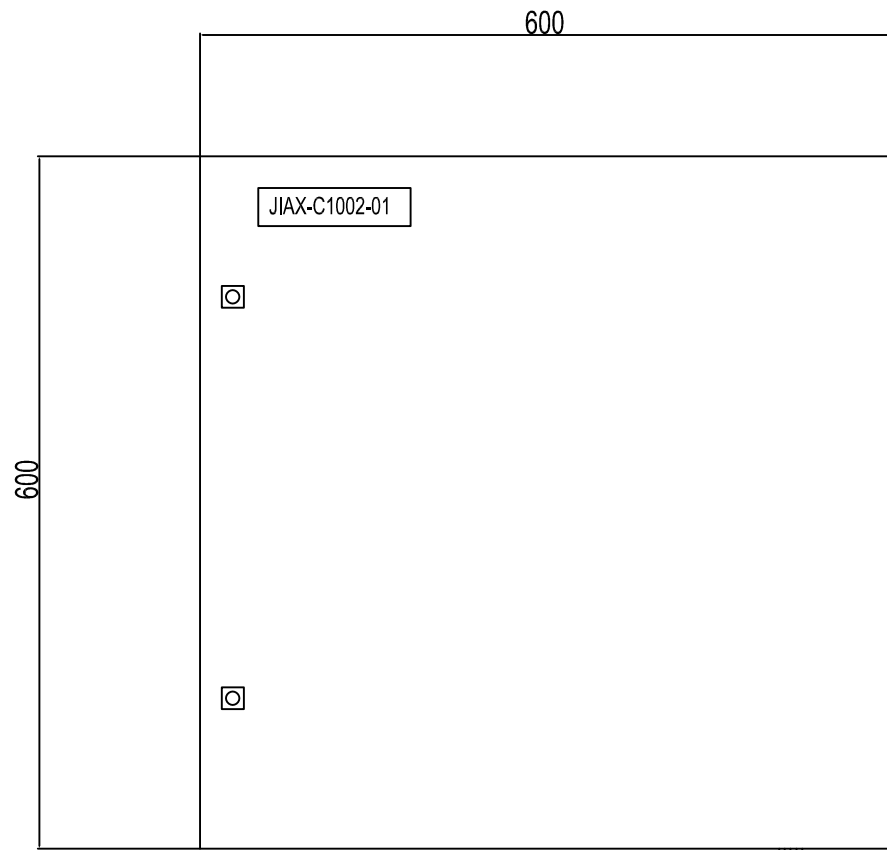
| CONTRACT NO. | SCALE | SIZE | 1 | P | | | | | |
|--------------|---------|------|-------|---------|------|------|------|--------|----------|
| 52-98/445 | XX | A0 | 1 | P | | | | | |
| DOCUMENT NO. | PROJECT | AREA | PHASE | MRQ No. | DIS. | DOC. | SEQ. | SHEET | REV. NO. |
| | BU-20 | VD | 303 | IN | DWG | 0039 | | 3 OF 6 | 04 |

JIAX-C1002-01

FRONT SIDE (OUTSIDE) VIEW

FRONT SIDE (INSIDE) VIEW

SIDE (OUTSIDE) VIEW



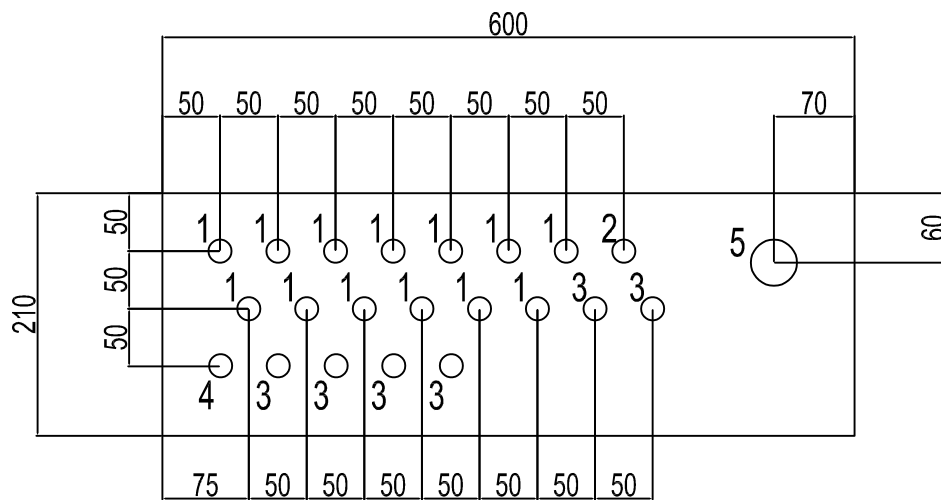
EARTHING BOSS M10

ISE Bar

EARTHING BOSS M10

EARTHING BOSS M10

BOTTOM VIEW



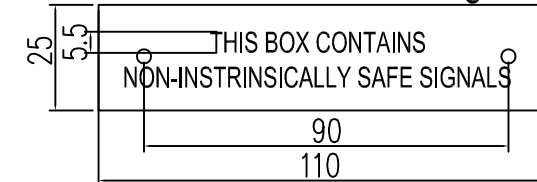
GLAND ENTRY DETAILS

- 1 = Transmitter cable - M20
- 2 = PCV cable - M20
- 3 = Spare plug - M20
- 4 = Breather / Drain - M20
- 5 = Transmitter/PCV multipair cable - M40

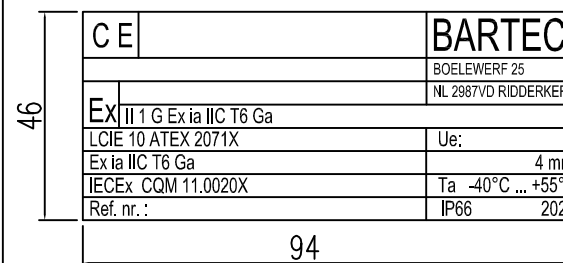
- M20: 1x (Breather)
- M20: 20x
- M40: 1x

Terminal strip: X2
Make: Weidmuller
Qty: 61

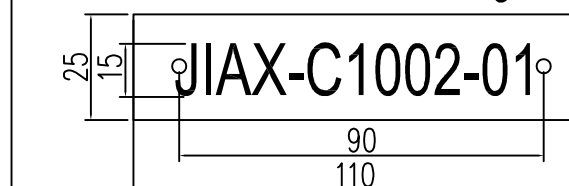
Nameplate for junction box, ABS
Black letter on white background



NAMEPLATE, 3:1, SS316 (typical)



TAG.NO, 3:1, ABS
Black letter 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 DRAWNGS | DWG.No. |
|-------------------|---------|
| xxxxxxx | xxxxxxx |

| REV. | DATE | PURPOSE OF ISSUE (P.O.I.) | PREP. | CHKD. | APPR. | AC. |
|------|----------|---------------------------|-------|-------|-------|-----|
| 04 | 04/06/22 | For approval | HT | RB | RB | - |
| 03 | 15/06/22 | For approval | HT | 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: 17811-07A
UCP/LCP/JB GENERAL ARRANGMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS

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

DOCUMENT NO. PROJECT AREA PHASE MRO No. DIS. DOC. SEQ. SHEET REV. NO.

OWNER DOC. NO.: BU-20-VD-303-IN-DWG-0039 4 OF 6 04

BOOSTER INCL. BOM

| Nr | Description | Tagnumber | Make | Qty | Modelnumbers |
|----|------------------------------------|-----------|-----------|-----|--------------|
| 1. | Operational lamp (green) | 3H4 | Schneider | 1 | XB4BVB3 |
| 2. | Running lamp (green) | 3H6 | Schneider | 1 | XB4BVB3 |
| 3. | Common alarm lamp (amber) | 3H8 | Schneider | 1 | XB4BVB5 |
| 4. | Common trip lamp (red) | 3H10 | Schneider | 1 | XB4BVB4 |
| 5. | Start pushbutton (green) | 2S4 | Schneider | 1 | XB4BA31 |
| 6. | Stop pushbutton (red) | 2S6 | Schneider | 1 | XB4BA42 |
| 7. | Lamptest pushbutton (black) | 2S8 | Schneider | 1 | XB4BA21 |
| 8. | Selector switch (local/off/remote) | 2S10 | Schneider | 1 | - |
| 9. | ESD button | 4S3 | Schneider | 1 | - |


GENERAL NOTES


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.



| REFERENCE DRAWNGS | DWG.No. |
|-------------------|---------|
| xxxxxxx | xxxxxxx |

| Nr | Description | Tagnumber | Make | Qty | Modelnumbers |
|----|----------------|-----------|------------|-----|--------------|
| X5 | Terminal strip | X5..., | Weidmuller | 26 | WBU4 |
| X9 | Terminal strip | X9..., | Weidmuller | 4 | WBU4 |

| 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: 17811-07A

UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS

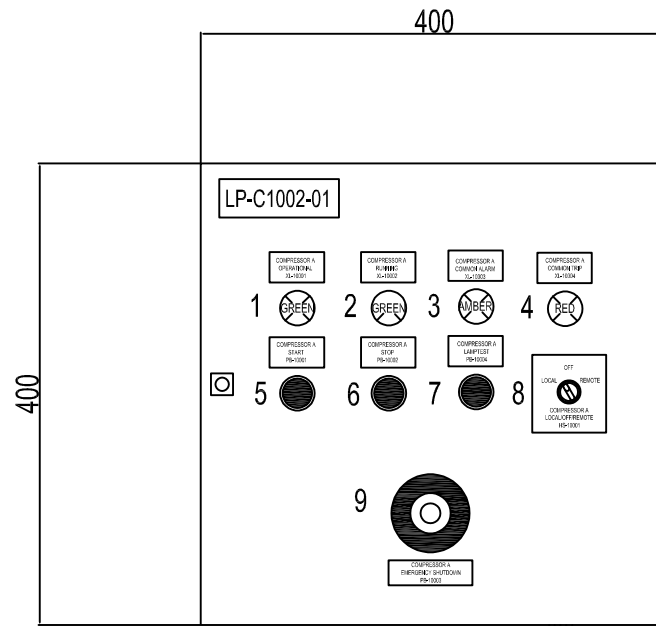
| CONTRACT NO. | SCALE | SIZE | 1 | P |
|--------------|-------|------|---|---|
| 52-98/445 | XX | A0 | 1 | P |

OWNER DOC. NO.: BU-20-VD-303-IN-DWG-0039 5 OF 6 04

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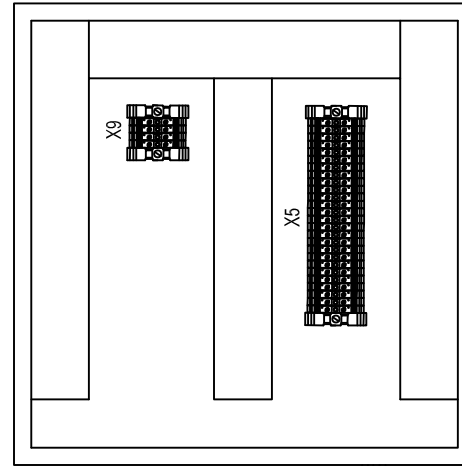
LP-C1002-01

FRONT SIDE (OUTSIDE) VIEW



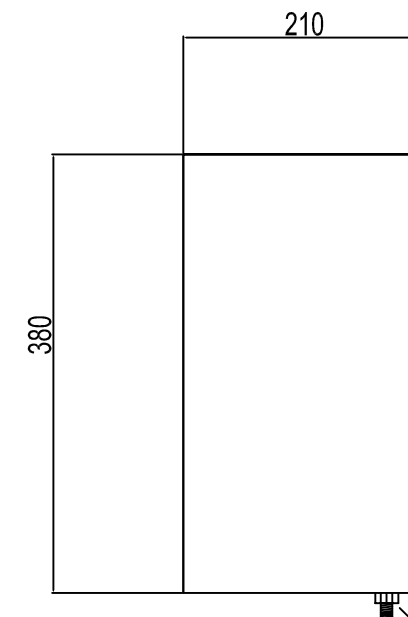
EARTHING BOSS M10

FRONT SIDE (INSIDE) VIEW



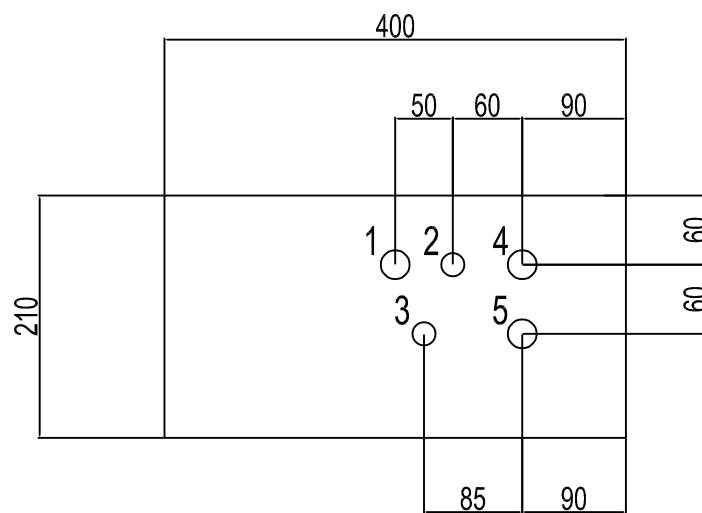
EARTHING BOSS M10

SIDE (OUTSIDE) VIEW



EARTHING BOSS M10

BOTTOM VIEW

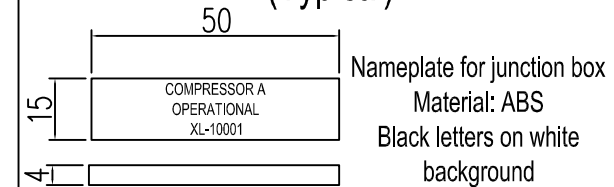


- 1 = ESD multicore cable - M25
- 2 = Spare plug - M20
- 3 = Breather / Drain - M20
- 4 = Pushbutton / Lamps multicore cable - M25
- 5 = Spare plug - M25

GLAND ENTRY DETAILS

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

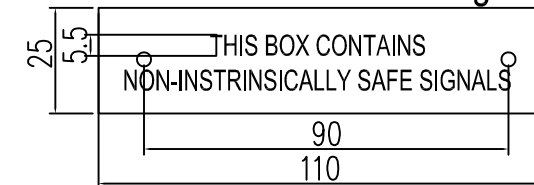
Nameplate for components on JB door (Typical)



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

Terminal strip: X2
Make: Weidmuller
Qty: 61

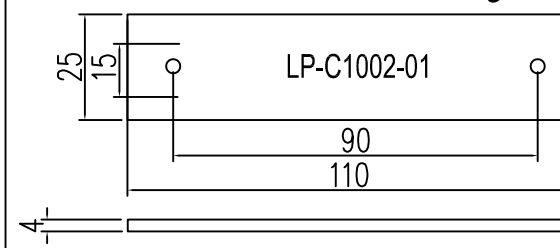
Nameplate for junction box, ABS
Black letters on white background



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.: | |
| 94 | |

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



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
 - Permissible withstanding short circuit current
 - Total weight panel
 - Insulation voltage panel
 - Manufacturer date
 - Panel tag

| 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 | - |
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| | | |
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| | | |

PROJECT: BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT

DRAWING TITLE: 17811-07A

UCP/LCP/JB GENERAL ARRANGMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS

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

DOCUMENT NO. PROJECT AREA PHASE MRO No. DIS. DOC. SEQ. SHEET REV. NO.

OWNER DOC. NO. BU-20-VD-303-IN-DWG-0039 6 OF 6 03

BOOSTER INCL. BOM