



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box

Document No. 17735-05

Page

| Project No. | Vendor Doc. | P.O. No. | Department | Document Type | Serial No | Revision |
|-------------|-------------|----------|------------|---------------|-----------|----------|
| N278 | VD | 6019 | IN | DIA | 0005 | 08 |

Page 1 of 21

**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box (K020)**

| 08 | 23-05-2024 | Issued for Approval | R.T. | S.K. | J.J. |
|------|------------|---------------------|-------|---------|----------|
| 07 | 08-05-2024 | Issued for Approval | R.T. | S.K. | J.J. |
| 06 | 02-05-2024 | Issued for Approval | R.T. | S.K. | J.J. |
| 05 | 20-03-2024 | Issued for Approval | R.T. | S.K. | J.J. |
| 04 | 14-02-2024 | Issued for Approval | R.T. | S.K. | J.J. |
| 03 | 21-12-2023 | Issued for Approval | R.T. | S.K. | J.J. |
| 02 | 07-12-2023 | Issued for Approval | R.T. | S.K. | J.J. |
| 01 | 03-11-2023 | Issued for Approval | R.T. | S.K. | J.J. |
| REV. | DATE | DESCRIPTION | DRAWN | CHECKED | APPROVED |

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Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box

Document No. 17735-05

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|-------------|-------------|----------|------------|---------------|-----------|----------|--------------|
| N278 | VD | 6019 | IN | DIA | 0005 | 08 | Page 2 of 21 |

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| Rev. Page | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | Rev. Page | 01 | 02 | 03 | 04 | 05 | Rev. Page | 01 | 02 | 03 | 04 | 05 |
|-----------|----|----|----|----|----|----|----|----|----|----|-----------|----|----|----|----|----|-----------|------------|----|----|----|----|
| 1 | X | X | X | X | X | X | X | X | | | 51 | | | | | | 76 | | | | | |
| 2 | X | X | X | X | X | X | X | X | | | 52 | | | | | | 77 | | | | | |
| 3 | X | X | X | X | X | X | X | X | | | 53 | | | | | | 78 | | | | | |
| 4 | X | X | X | X | X | X | X | X | | | 54 | | | | | | 79 | | | | | |
| 5 | X | X | X | X | X | X | X | X | | | 55 | | | | | | 80 | | | | | |
| 6 | X | X | X | X | X | X | X | X | | | 56 | | | | | | 81 | | | | | |
| 7 | X | X | X | X | X | X | X | X | | | 57 | | | | | | 82 | | | | | |
| 8 | X | X | X | X | X | X | X | X | | | 58 | | | | | | 83 | | | | | |
| 9 | X | X | X | X | X | X | X | X | | | 59 | | | | | | 84 | | | | | |
| 10 | X | X | X | X | X | X | X | X | | | 60 | | | | | | 85 | | | | | |
| 11 | X | X | X | X | X | X | X | X | | | 61 | | | | | | 86 | | | | | |
| 12 | X | X | X | X | X | X | X | X | | | 62 | | | | | | 87 | | | | | |
| 13 | X | X | X | X | X | X | X | X | | | 63 | | | | | | 88 | | | | | |
| 14 | X | X | X | X | X | X | X | X | | | 64 | | | | | | 89 | | | | | |
| 15 | X | X | X | X | X | X | X | X | | | 65 | | | | | | 90 | | | | | |
| 16 | X | X | X | X | X | X | X | X | | | 66 | | | | | | 91 | | | | | |
| 17 | X | X | | X | X | X | X | X | | | 67 | | | | | | 92 | | | | | |
| 18 | X | X | | X | X | X | X | X | | | 68 | | | | | | | ATTACHMENT | | | | |
| 19 | X | X | | X | X | X | X | X | | | 69 | | | | | | 1 | | | | | |
| 20 | X | X | | | X | X | X | X | | | 70 | | | | | | 2 | | | | | |
| 21 | | X | | | X | X | X | X | | | 71 | | | | | | 3 | | | | | |
| 22 | | | | | | | | | | | 72 | | | | | | 4 | | | | | |
| 23 | | | | | | | | | | | 73 | | | | | | 5 | | | | | |
| 24 | | | | | | | | | | | 74 | | | | | | 6 | | | | | |
| 25 | | | | | | | | | | | 75 | | | | | | 7 | | | | | |



Airpack B.V.

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| | | | | |
|-----------------------|---|--|--------------|------|
| Client | : | LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO) | | |
| Equipment location | : | IRAN, ONSHORE | | |
| Client reference | : | INTEGRATED METHANOL AND AMMONIA PLANT | | |
| Client dwg. no. | : | N-278-VD-6019-IN-DIA-0005 | | |
| Airpack reference | : | 17735-05 Wiring Diagram | | |
| Airpack dwg. no. | : | 17735-05 | | |
| Generation date | : | 2023-11-02 | | |
| E & I manager | : | RBE | Revision no. | : 08 |
| Last modifications | : | 2024-05-22 | | |
| Last modifications by | : | RTR | | |



| | |
|--|---------------------------|
| CLIENT DWG NO. | N-278-VD-6019-IN-DIA-0005 |
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| Title page / cover sheet | |
| ADAPTED TO P&ID REVISION | 08 |
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| CLIENT REF. | INTEGRATED METHANOL AND AMMONIA PLANT |
| AIRPACK REF. | 17735-05 Wiring Diagram |

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| DRAWN BY | RTR | = |
| CHECKED BY | RBE | + |
| LAST MODIFICATION DATE | 2023-12-18 | CURRENT PAGE |
| AIRPACK DWG NO. | 17735-05 | |
| REVISION | 08 | |
| TOTAL PAGE AMOUNT | 1 | |

COMMENTS ON ELECTRICAL DRAWINGS

LPS AND JB MOUNTED ON SKID
 MATERIAL: SHEET STEEL
 INGRESS. PROTECTION: IP-65
 AREA CLASSIFICATION: SAFE

GLANDS: SS316 GLANDS WITH SHROUDS, IP-66
 CABLE TRAYS: HOT-DIP GALVANIZED

AMBIENT TEMPERATURE: 0 / 49 °C

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

REFERENCE DOCUMENTS:


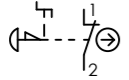


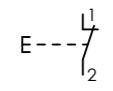
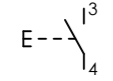


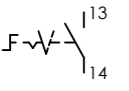
- 17735-03 - N-278-VD-6019-PR-PID-0002 - P&ID
- 17735-06 - N-278-VD-6019-IN-LIS-0006 - I/O List
- 17735-07 - N-278-VD-6019-IN-DWG-0007 - Outline Dimensional Drawings for LCP Panel and Junction Box
- 17735-21 - N-278-VD-6019-GN-PRO-0022 - Control Philosophy

| SIGNAL PAIRS | |
|----------------------|------------------------------------|
| CURRENT LOOPS | POSITIVE: BLACK NEGATIVE: WHITE |
| VOLT [FREE] CONTACTS | POSITIVE: BLACK NEGATIVE: BLACK |



| | | | | | | | |
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| | EQUIPMENT LOCATION | IRAN, ONSHORE | ADAPTED TO P&ID REVISION | 08 | LAST MODIFICATION DATE | 2023-12-18 | CURRENT PAGE |
| | | | CLIENT | LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO) | AIRPACK DWG NO. | 17735-05 | |
| | | | CLIENT REF. | INTEGRATED METHANOL AND AMMONIA PLANT | REVISION | 08 | |
| | | AIRPACK REF. | 17735-05 Wiring Diagram | TOTAL PAGE AMOUNT | 2 | | |

SYMBOL LEGEND


| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|-----------------------------------|--------|-------------|
|  | CABLE SHIELD | | |
|  | EMERGENCY STOP | | |
|  | INDICATION LAMP | | |
|  | INSTRUMENT EARTH CONNECTION POINT | | |
|  | N/C PUSHBUTTON | | |
|  | N/O PUSHBUTTON | | |
|  | TERMINAL CONNECTION POINT | | |
|  | TRANSMITTER CONNECTION POINT | | |
|  | TWO-POSITION SELECTOR SWITCH | | |
| | | | |
| | | | |

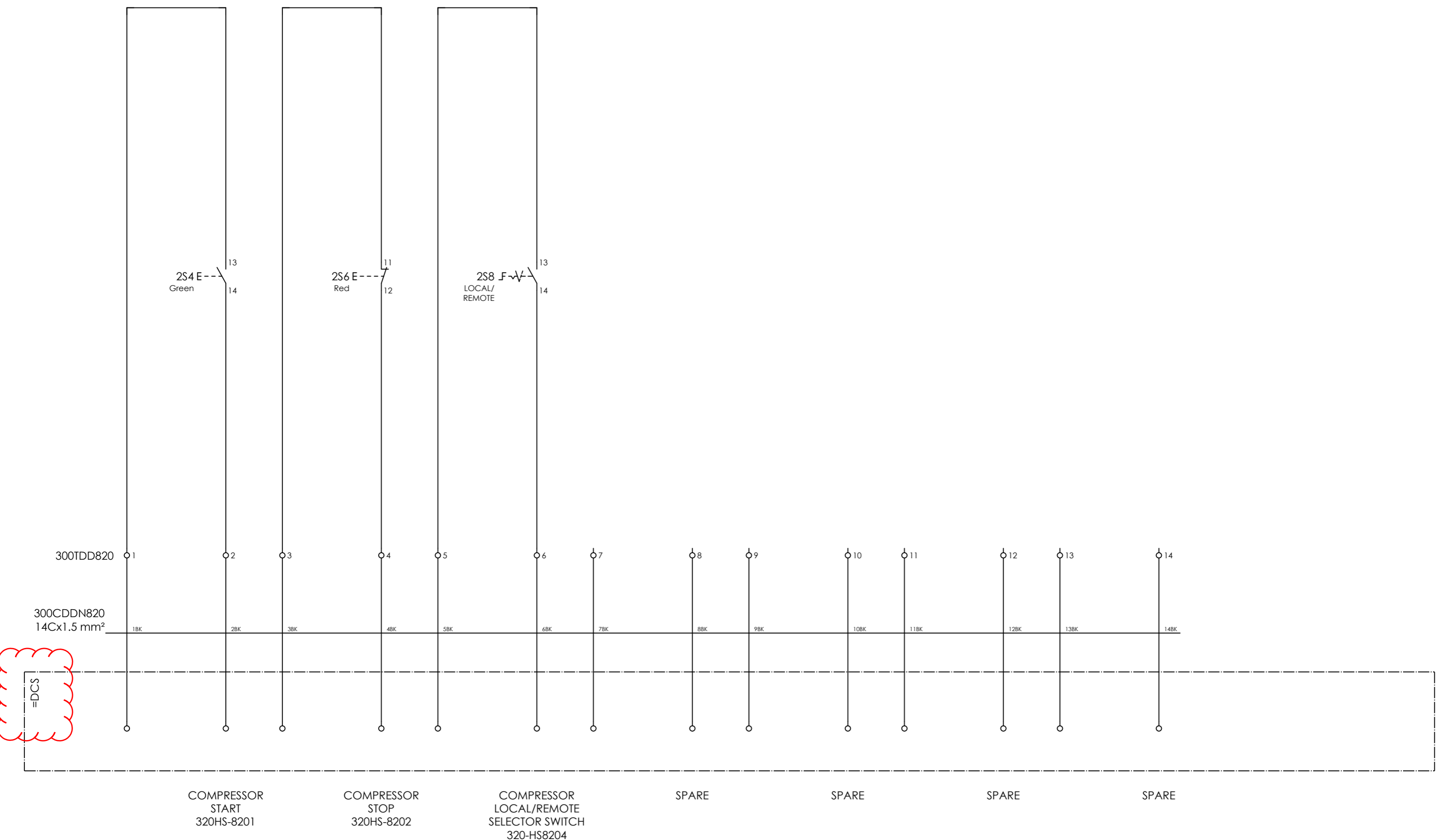
300LP-820 LOCAL PUSHBUTTON STATION

TERMINAL STRIP DEFINITION

300TDD820 = CONNECTION PUSHBUTTONS AND LAMPS

300TED820 = CONNECTION ESD PUSHBUTTON

| | | | | | | | |
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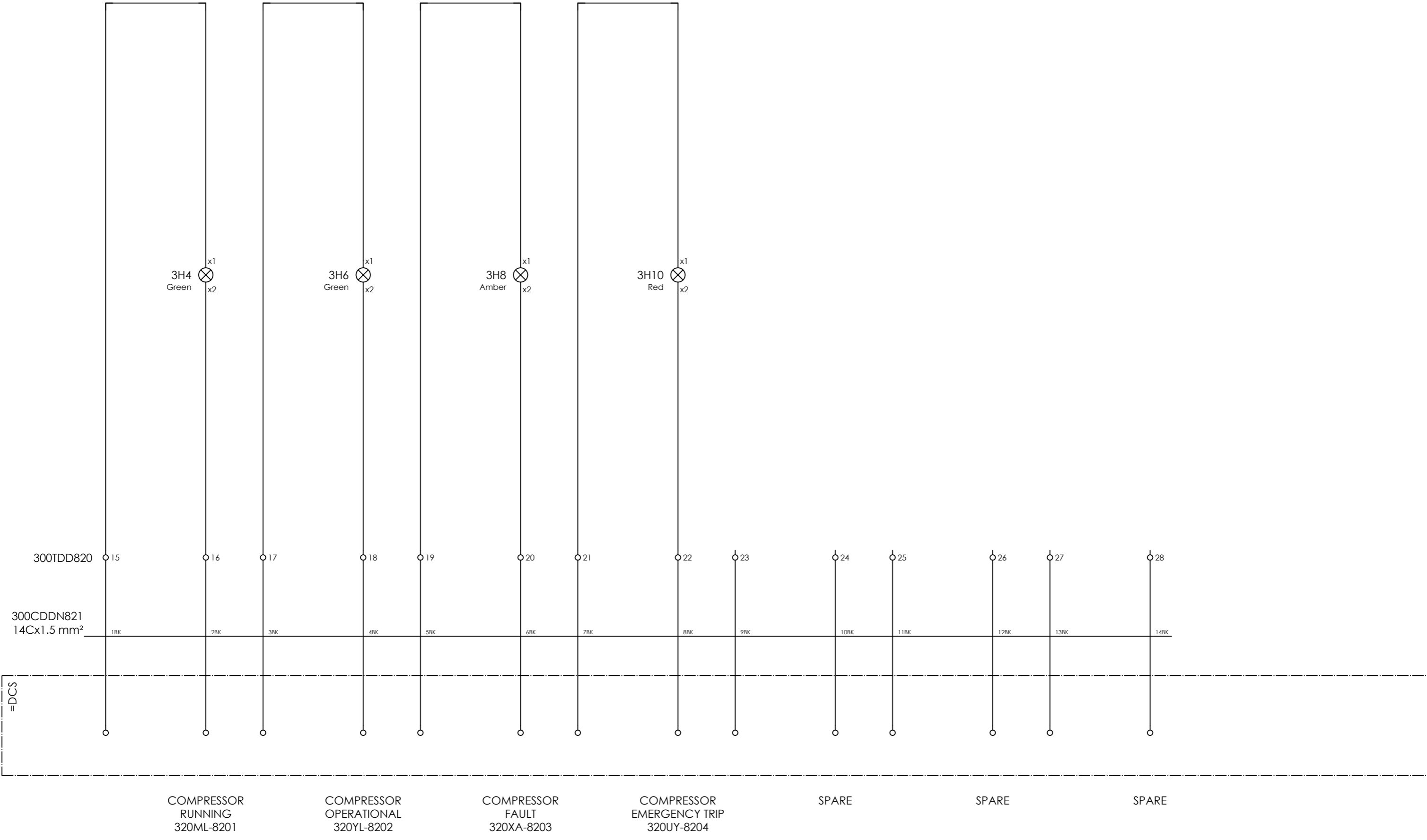


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| SUBJECT PUSHBUTTONS | |
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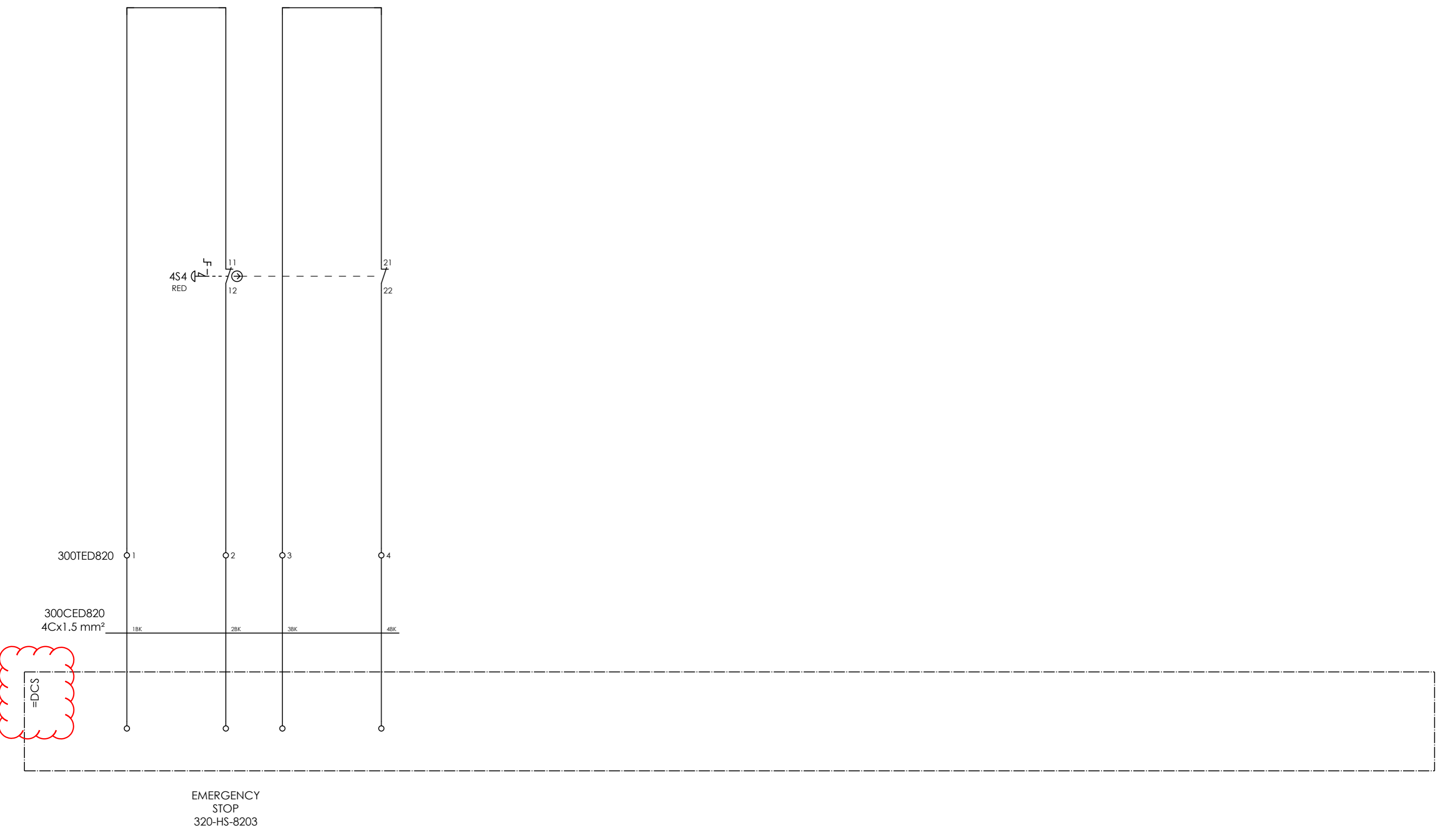


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| SUBJECT LAMPS | |
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| SUBJECT ESD PUSHBUTTON | |
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Terminal diagram

| Cable name | | Strip =320-K-020+300LP-820-300TDD820 CONNECTION PUSHBUTTONS AND LAMPS | | | | | | | | | | Cable name | | | | | | | |
|--------------------|------------------|---|--------|--------------------|------------------|----------|--------|--------------------|------------------|----------|--------|--------------------|------------------|----------|--------|--------------------|------------------|--|--|
| Target designation | Connection point | Terminal | Jumper | Target designation | Connection point | Terminal | Jumper | Target designation | Connection point | Terminal | Jumper | Target designation | Connection point | Terminal | Jumper | Target designation | Connection point | | |
| -300CDDN821 | 14Cx1.5 mm² | | | | | | | | | | | | | | | | | | |
| -300CDDN820 | 14Cx1.5 mm² | 1BK | 2BK | 3BK | 4BK | 5BK | 6BK | 7BK | 8BK | 9BK | 10BK | 11BK | 12BK | 13BK | 14BK | | | | |
| | | 1 | . | -2S4 | | 13 | | | | | | | | | | | | | |
| | | 2 | . | -2S4 | | 14 | | | | | | | | | | | | | |
| | | 3 | . | -2S6 | | 11 | | | | | | | | | | | | | |
| | | 4 | . | -2S6 | | 12 | | | | | | | | | | | | | |
| | | 5 | . | -2S8 | | 13 | | | | | | | | | | | | | |
| | | 6 | . | -2S8 | | 14 | | | | | | | | | | | | | |
| | | 7 | . | | | | | | | | | | | | | | | | |
| | | 8 | . | | | | | | | | | | | | | | | | |
| | | 9 | . | | | | | | | | | | | | | | | | |
| | | 10 | . | | | | | | | | | | | | | | | | |
| | | 11 | . | | | | | | | | | | | | | | | | |
| | | 12 | . | | | | | | | | | | | | | | | | |
| | | 13 | . | | | | | | | | | | | | | | | | |
| | | 14 | . | | | | | | | | | | | | | | | | |
| | | 15 | . | -3H4 | | | | | | | | | | | | | | | |
| | | 16 | . | -3H4 | | | | | | | | | | | | | | | |
| | | 17 | . | -3H6 | | | | | | | | | | | | | | | |
| | | 18 | . | -3H6 | | | | | | | | | | | | | | | |
| | | 19 | . | -3H8 | | | | | | | | | | | | | | | |
| | | 20 | . | -3H8 | | | | | | | | | | | | | | | |
| | | 21 | . | -3H10 | | | | | | | | | | | | | | | |
| | | 22 | . | -3H10 | | | | | | | | | | | | | | | |
| | | 23 | . | | | | | | | | | | | | | | | | |
| | | 24 | . | | | | | | | | | | | | | | | | |
| | | 25 | . | | | | | | | | | | | | | | | | |
| | | 26 | . | | | | | | | | | | | | | | | | |
| | | 27 | . | | | | | | | | | | | | | | | | |
| | | 28 | . | | | | | | | | | | | | | | | | |



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SUBJECT Terminal diagram =320-K-020+300LP-820-300TDD820
 ADAPTED TO P&ID REVISION 08
 CLIENT LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
 CLIENT REF. INTEGRATED METHANOL AND AMMONIA PLANT
 AIRPACK REF. 17735-05 Wiring Diagram


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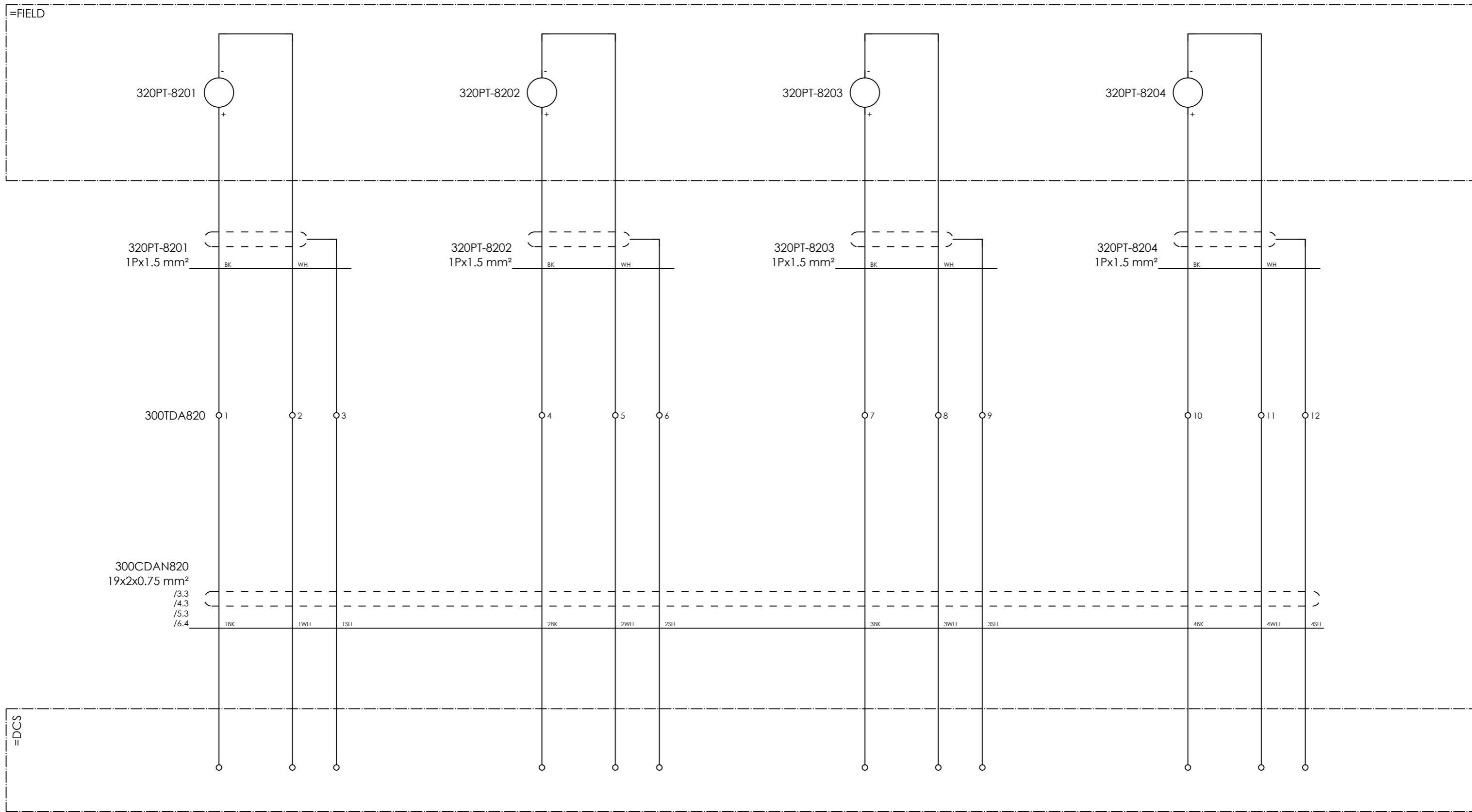
= 320-K-020
 + 300LP-820
 CURRENT PAGE

300JDAN-820 ANALOG JUNCTION BOX

TERMINAL STRIP DEFINITION

300TDA820 = CONNECTION ANALOG TRANSMITTERS TO CLIENT
 300TDA821 = CONNECTION PRESSURE CONTROL VALVE TO CLIENT

| | | | | | | | |
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PRESSURE TRANSMITTER
320PT-8201

PRESSURE TRANSMITTER
320PT-8202

PRESSURE TRANSMITTER
320PT-8203

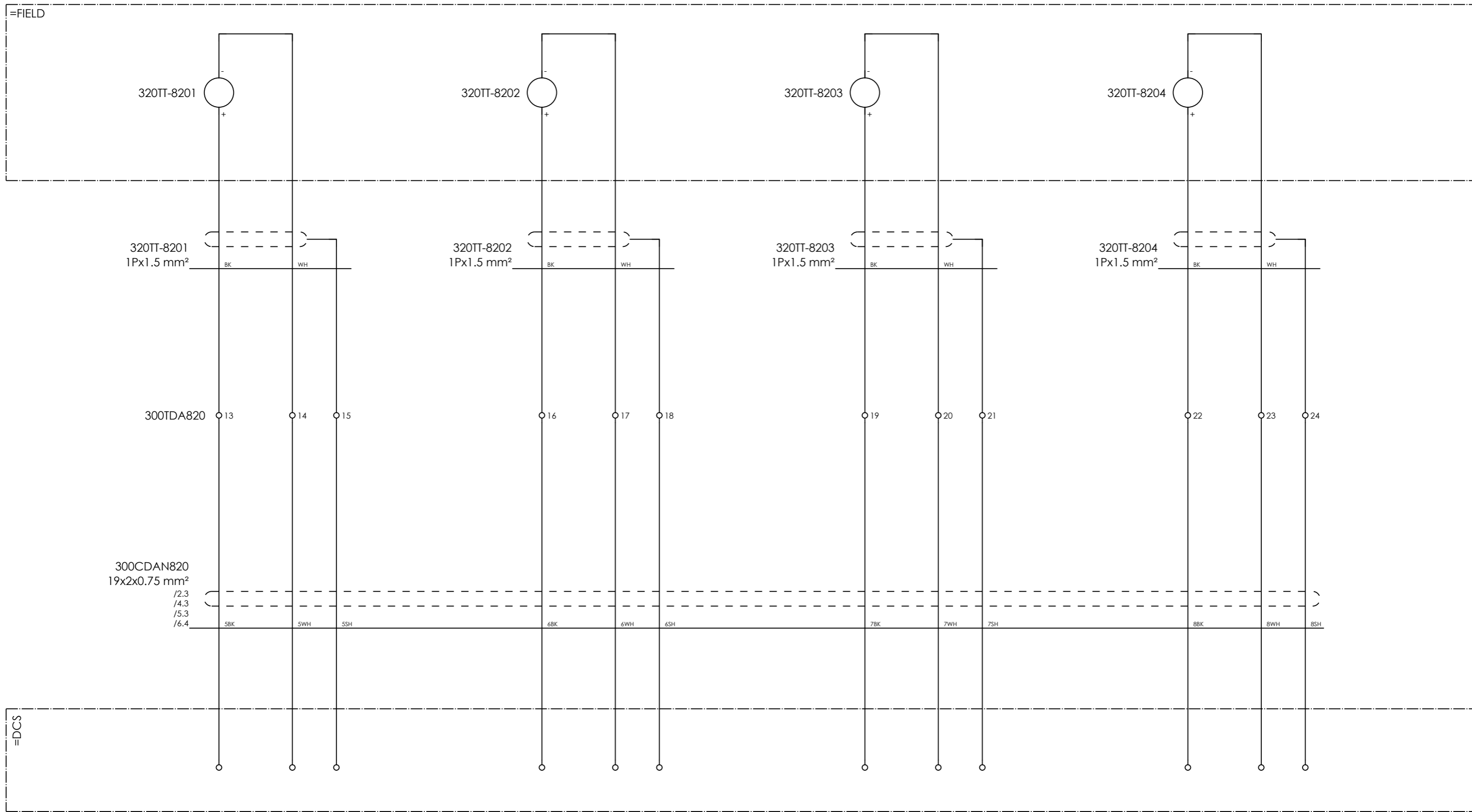
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| CLIENT REF. | INTEGRATED METHANOL AND AMMONIA PLANT |
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TEMPERATURE TRANSMITTER
320TT-8201

TEMPERATURE TRANSMITTER
320TT-8202

TEMPERATURE TRANSMITTER
320TT-8203

TEMPERATURE TRANSMITTER
320TT-8204



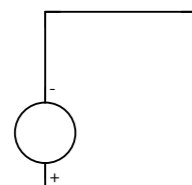
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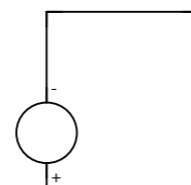
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| CHECKED BY | RBE | + 300JDAN-820 |
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| REVISION | 08 | |
| TOTAL PAGE AMOUNT | 13 | |

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320TT-8205



320PZLC-8201



320TT-8205
1Px1.5 mm²



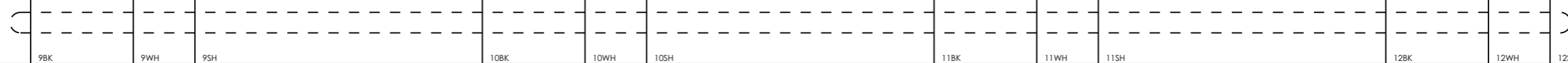
320PZLC-8201
1Px1.5 mm²



300TDA820



300CDAN820
19x2x0.75 mm²
/2.3
/3.3
/5.3
/6.4



=DCS

TEMPERATURE
TRANSMITTER
320TT-8205

PRESSURE
CONTROL VALVE
320PCV-8201
POSITION FEEDBACK

SPARE

SPARE



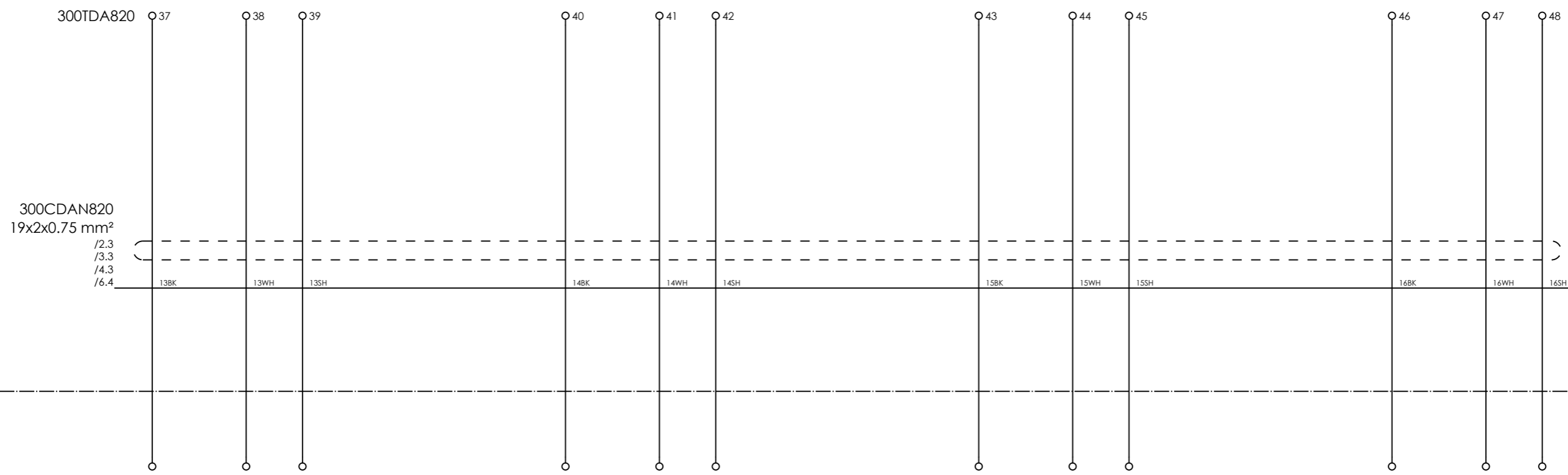
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| CLIENT DWG NO. | N-278-VD-6019-IN-DIA-0005 |
| EQUIPMENT NO. | 320-K-020 |
| EQUIPMENT LOCATION | IRAN, ONSHORE |

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| SUBJECT | | ANALOG TRANSMITTERS | |
| ADAPTED TO P&ID REVISION | 08 | | |
| CLIENT | LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO) | | |
| CLIENT REF. | INTEGRATED METHANOL AND AMMONIA PLANT | | |
| AIRPACK REF. | 17735-05 Wiring Diagram | | |

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| SUBJECT ANALOG TRANSMITTERS | |
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| CLIENT REF. | INTEGRATED METHANOL AND AMMONIA PLANT |
| AIRPACK REF. | 17735-05 Wiring Diagram |

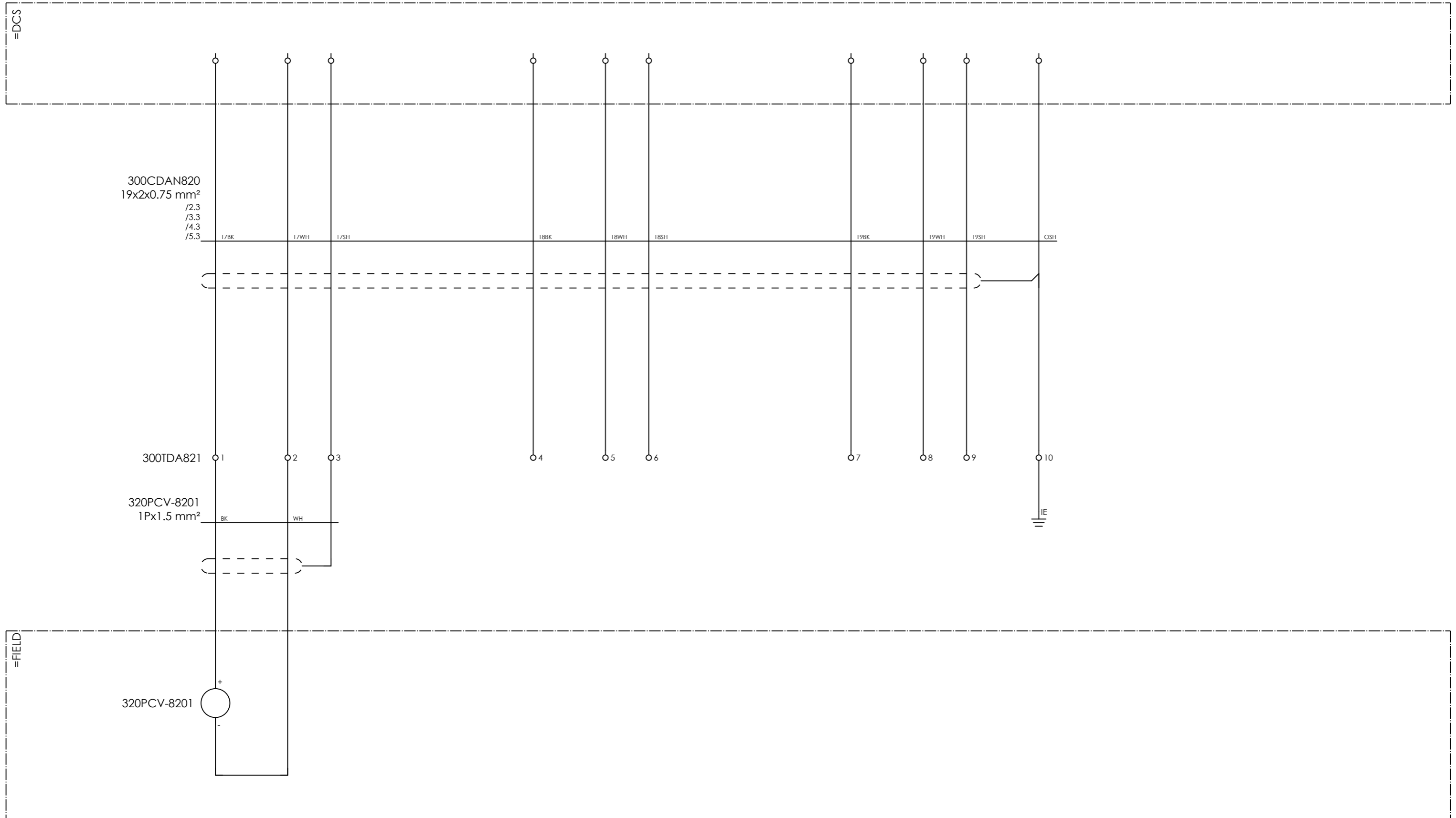
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| DRAWN BY | RTR |
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| LAST MODIFICATION DATE | 2023-12-18 |
| AIRPACK DWG NO. | 17735-05 |
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| TOTAL PAGE AMOUNT | 15 |

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| = 320-K-020 |
| + 300JDAN-820 |
| CURRENT PAGE |

PRESSURE CONTROL VALVE
320PCV-8201

SPARE

SPARE



| | |
|--|---------------------------|
| CLIENT DWG NO. | N-278-VD-6019-IN-DIA-0005 |
| EQUIPMENT NO. | 320-K-020 |
| EQUIPMENT LOCATION | IRAN, ONSHORE |
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| SUBJECT PRESSURE CONTROL VALVE | |
| ADAPTED TO P&ID REVISION | 08 |
| CLIENT | LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO) |
| CLIENT REF. | INTEGRATED METHANOL AND AMMONIA PLANT |
| AIRPACK REF. | 17735-05 Wiring Diagram |

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|---------------|
| = 320-K-020 |
| + 300JDAN-820 |
| CURRENT PAGE |

Terminal diagram

| Cable name | | Cable name | | Terminal | | Connection point | | Jumper | | Target designation | | Connection point | | Target designation | |
|---------------------|--|----------------------------------|--|--|--|------------------|--|--------|--|--------------------|--|------------------|--|--------------------|--|
| -300CDAN820 | | 19x2x0.75 mm ² | | | | | | | | | | | | | |
| Strip | | =320-K-020+300JDAN-820-300TDA820 | | CONNECTION ANALOG TRANSMITTERS TO CLIENT | | | | | | | | | | | |
| -320PZLC-8201 | | 1Px1.5 mm ² | | | | | | | | | | | | | |
| -320TT-8205 | | 1Px1.5 mm ² | | | | | | | | | | | | | |
| -320TT-8204 | | 1Px1.5 mm ² | | | | | | | | | | | | | |
| -320TT-8203 | | 1Px1.5 mm ² | | | | | | | | | | | | | |
| -320TT-8202 | | 1Px1.5 mm ² | | BK | | WH | | SHLD | | | | | | | |
| =FIELD-320TT-8202 | | | | + | | 16 | | . | | | | | | | |
| =FIELD-320TT-8202 | | | | - | | 17 | | . | | | | | | | |
| -3&FIT9 | | | | | | 18 | | . | | | | | | | |
| =FIELD-320TT-8203 | | | | + | | 19 | | . | | | | | | | |
| =FIELD-320TT-8203 | | | | - | | 20 | | . | | | | | | | |
| -3&FIT13 | | | | | | 21 | | . | | | | | | | |
| =FIELD-320TT-8204 | | | | + | | 22 | | . | | | | | | | |
| =FIELD-320TT-8204 | | | | - | | 23 | | . | | | | | | | |
| -3&FIT17 | | | | | | 24 | | . | | | | | | | |
| =FIELD-320TT-8205 | | | | + | | 25 | | . | | | | | | | |
| =FIELD-320TT-8205 | | | | - | | 26 | | . | | | | | | | |
| -4&PDIT5 | | | | | | 27 | | . | | | | | | | |
| =FIELD-320PZLC-8201 | | BK | | + | | 28 | | . | | | | | | | |
| =FIELD-320PZLC-8201 | | WH | | - | | 29 | | . | | | | | | | |
| -4&PDIT9 | | SHLD | | | | 30 | | . | | | | | | | |
| | | | | | | 31 | | . | | | | | | | |
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| | | | | | | 47 | | . | | | | | | | |
| | | | | | | 48 | | . | | | | | | | |



CLIENT DWG NO. N-278-VD-6019-IN-DIA-0005
 EQUIPMENT NO. 320-K-020
 EQUIPMENT LOCATION IRAN, ONSHORE
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SUBJECT Terminal diagram =320-K-020+300JDAN-820-300TDA820
 ADAPTED TO P&ID REVISION 08
 CLIENT LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
 CLIENT REF. INTEGRATED METHANOL AND AMMONIA PLANT
 AIRPACK REF. 17735-05 Wiring Diagram

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