# TENDRARA PROJECT
# GAS TREATMENT AND LNG PRODUCTION PLANT ON RENTAL BASIS

# SAFETY CRITICAL ELEMENT LIST

| Status | Rev. n. | Rev. n. | Rev. n. | Rev. n. | Rev. n. | Rev. n. |
|---|---|---|---|---|---|---|
| Rev. Index | | Date | Description | Prepared | Checked | Approved |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| IFI | 1 | 09/12/2025 | AS-BUILT | ADF | GDP | IC |
| IFI | 0 | 26/03/2024 | ISSUED FOR COMMENTs | ADF | GDP | IC |

Client

**MANAENERGY**
**Mahaj Riad Center, Batiment 6, 3eme etage**
**Avenue Al Arz, Hay Ryad, 10100 Rabat, Morocco**

Project Title

**TENDRARA PROJECT**

Contractor

**ITALFLUID GEOENERGY**
**Marocco Branch**
**Boulevard de Bourgogne Rue Jaafar Ibn**
**Habib Residence Al Mashrik II 1ere Etage N3**
**Casablanca**

Engineering

**ITALFLUID GEOENERGY**
**Via Antonio Vivaldi, 4 Montesilvano (PE)**
**Tel:085-4224374 / fax: 085-4220742**

**Provision of a m-LNG plant for production for ManaEnergy**

| Facilitiy Name | Location | Scale | Sheet of Sheets |
|---|---|---|---|
| **TENDRARA** | **MOROCCO** | **A4** | **1** of **21** |

Document Title

**P-PN-0S312.1**

**DEHYDRATATION CLEANING**

Doc. Code

**ELD01-ING-FR01**

Vendor Doc. code

**IE24090_SE11_P-PN-OS312.1**

esaelettromeccanica.com

INGEGNERIA ELETTRICA - QUADRI DI DISTRIBUZIONE E AUTOMAZIONE - CABINE DI TRASFORMAZIONE MT/BT – PLC – HMI – SCADA - ENERGIE RINNOVABILI
CONTRADA TESINO, 47 - 63065 RIPATRANSONE (AP) – ITALY - TEL. +39 0735 90523
WWW.ESAELETTROMECCANICA.COM - INFO@ESAELETTROMECCANICA.COM - ESA@PEC.IT - P.IVA e C.F. 00768110447

| | | | | | | |
|---|---|---|---|---|---|---|
| General Contractor : | Manufacture : esaelettromeccanica.com | Project : P-PN-0S312.1 DEHYDRATATION CLEANING | Customer : ManaEnergy | Object : | | By : |
| | | | Contract : IE24090 | Rev. | Data : | Date : 26/03/2024 |
| | | | S/N : IE24090_SE11 | Rev. 1 | Data : 09/12/2025 | Sheet : 1 of : 21 |

# CIRCUIT SYMBOLS ACCORDING TO CEI STANDARD

| | |
|---|---|
| | ISOLATOR |
| | FUSED ISOLATOR |
| | CIRCUIT BREAKER WITH THERMAL AED MAGNETIC OVERCURRENT RELEASES |
| | CIRCUIT BREAKER WITH MAGNETIC RELEASE |
| Id | CIRCUIT BREAKER WITH THERMAL, MAGNETIC AND DIFFERENTIAL RELEASES |
| Id | RESIDUAL CURRENT CIRCUIT BREAKER "AC" TYPE FOR ALTERNATING CURRENT "A" TYPE FOR ALTERNATING OR PULSATING CURRENTS |
| | THERMAL RELAY (OVERLOAD RELAY) |
| | COIL OF CONTACTOR RELAY |
| BA | COIL OF SHUT-OFF ALARM MAKE CONTACT ON ENERGIZATION |
| U< | COIL OF SHUT-OFF ALARM DENERGIZES IN CASE OF UNDERVOLTAGE |
| | COIL OF OPERATING DEVICE WITH DROP-OUT DELAY |
| | COIL OF OPERATING DEVICE WITH PICK-UP DELAY |
| | COIL OF OPERATING DEVICE WITH DROP-OUT AND PICK-UP DELAYS |
| | COIL OF LATCHING RELAY (STEP-BY-STEP FUNCTION) |
| | ELECTRONIC OR ELECTRO-MECHANICAL TIME SWITCH |

| | |
|---|---|
| | ELECTRONIC TIMER WITH PICK-UP DELAY |
| | ELECTRIC PULSE METER |
| | FUSE CARRIER |
| | MAKE CONTACT OF CONTACTOR |
| | MAKE CONTACT OF CONTACTOR |
| | MAKE AND BREAK CONTACT |
| | MAKE AND BREAK CONTACT WITH DROP-OUT DELAY |
| | MAKE AND BREAK CONTACT WITH PICK-UP DELAY |
| | MAKE AND BREAK CONTACT WITH DROP-OUT AND PICK-UP DELAY (FLIP-FLOP) |
| | MAKE AND BREAK CONTACT OF THERMAL RELAY |
| | MAKE AND BREAK CONTACT OF LIMIT SWITCH |
| n On-1 | MULTI POSITION SWITCH (GENERAL SYMBOL) |
| F | MAKE AND BREAK CONTACT OPERATED BY TURNING WITH SPRING RETURN |
| E | MAKE AND BREAK CONTACT OPERATED BY PUSHING WITH SPRING RETURN |
| J | MAKE AND BREAK CONTACT OPERATED BY PULLING WITH OR WITHUOT SPRING RETURN |

| | |
|---|---|
| | MUSHROOM PUSH-BUTTON PULSE CONTACT WITH STAY-PUT MAKE CONTACT OPERATED BY STRIKING |
| | KEY OPERATING DEVICE FOR SELECTORS, PUSH-BUTTON, ETC. |
| P | PRESSURE SWITCH |
| ϑ | TEMPERATURE SWITCH |
| | FLOW SWITCH |
| | FLOAT SWITCH |
| | BUCHHOLZ RELAY |
| | CAM OPERATED DEVICE |
| | PROXIMITY SWITCH |
| | TEMPERATURE SENSOR |
| | PHOTOELECTRIC SENSOR |
| | SOLENOID VALVE |
| | PHOTOCELL |

| | |
|---|---|
| | STEDY OR FLASHING LIGHT |
| | PLC UNIT |
| | CONTROL INSTRUMENT |
| * | ENERGY METER |
| * | MEASURING INSTRUMENT |
| | VOLTAGE TRANSFORMER |
| | CURRENT TRANSFORMER |
| | ACOUSTIC SIGNALLING DEVICE |
| | RESISTANCE |
| | CAPACITOR |
| M 1~ | SINGLE-PHASE ELECTRIC MOTOR |
| M 3~ | THREE-PHASE ELECTRIC MOTOR |
| | |

| | | | | | |
|---|---|---|---|---|---|
| General Contractor : | Manufacture : esa | Project : P-PN-0S312.1 DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group | Object : | By : |
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## CONDUCTOR COLOR CODING INSIDE CONTROL PANEL

| | |
|---|---|
| AC AND DC POWER CIRCUIT | BLACK |
| NEUTRAL CONDUCTOR OF POWER CIRCUIT | LIGHT–BLUE |
| PROTECTIVE CONDUCTOR (EARTH CONDUCTOR) | YELLOW–GREEN |
| 110/220V AC AUXILIARY CIRCUIT (*) | RED |
| 24V AC AUXILIARY CIRCUIT | WHITE |
| 24V AC AND DC PLC INPUT | GRAY |
| 24V AC PLC OUTPUT | WHITE |
| 24V AC AND DC INTERLOCKING CIRCUIT | ORANGE |
| 24V DC AUXILIARY CIRCUIT AND PLC OUTPUT | DARK–BLUE |

(*) : RED FOR 110V AND BROWN FOR 220V, IN CASE BOTH VOLTAGE ARE USED

## CODE COLOUR

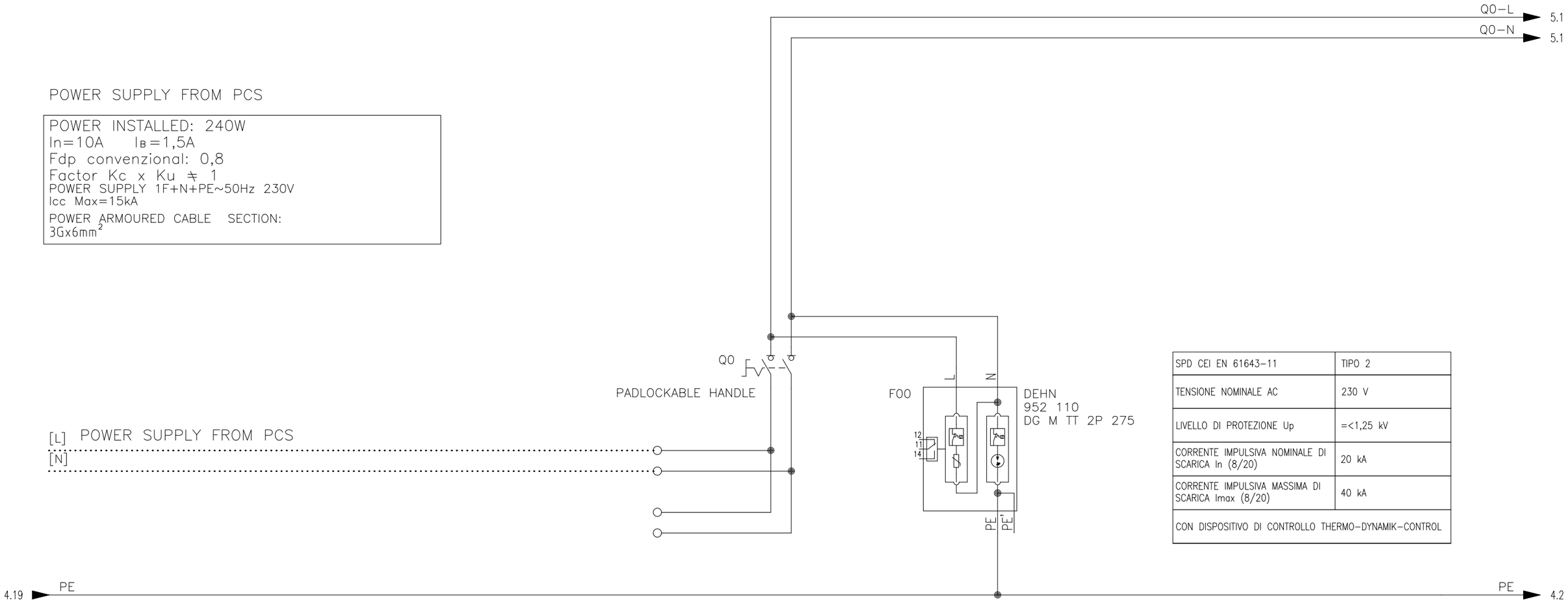
| COLOUR | CODE LETTERS |
|---|---|
| BLACK | BK |
| BROWN | BN |
| RED | RD |
| ORANGE | OG |
| YELLOW | YE |
| GREEN | GN |
| BLUE | BU |
| GREY | GY |
| WHITE | WH |
| SILVER | SR |
| CLEAR | CL |
| GREEN AND YELLOW | GNYE |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| POWER MAIN DISCONNECT SWITCH | FEEDER ID |
|---|---|
| 1F+N+PE~50Hz 230V | RATED POWER Pn–RATED VOLTAGE Vn |
| | RATED CURRENT |

POWER SUPPLY FROM PCS

POWER INSTALLED: 240W
In=10A $I_B$=1,5A
Fdp convenzional: 0,8
Factor Kc x Ku ≠ 1
POWER SUPPLY 1F+N+PE~50Hz 230V
Icc Max=15kA
POWER ARMOURED CABLE SECTION:
3Gx6mm²




| SPD CEI EN 61643–11 | TIPO 2 |
|---|---|
| TENSIONE NOMINALE AC | 230 V |
| LIVELLO DI PROTEZIONE Up | =<1,25 kV |
| CORRENTE IMPULSIVA NOMINALE DI SCARICA In (8/20) | 20 kA |
| CORRENTE IMPULSIVA MASSIMA DI SCARICA Imax (8/20) | 40 kA |
| CON DISPOSITIVO DI CONTROLLO THERMO–DYNAMIK–CONTROL | |

| | | |
|---|---|---|
| PROTECTION | TECHNOR PSRC–220 | TYPE |
| | | RATED BREAKING CAPACITY Icu |
| | 20A | RATED or THERMAL CURRENT In or Ith |
| | | MAGNETIC RELEASE CARACTERISTICS Im |
| | | RATED R.C. SENSITIVITY Idn |
| CONDUCTOR | | WIRE SECTION |
| | | CABLE TYPE |
| | | CABLE CARRYING LOAD Iz |
| | | CABLE LENGHT |
| | | LINE ID |
| | | WIRE ID ON TERMINAL |

| | | | | | |
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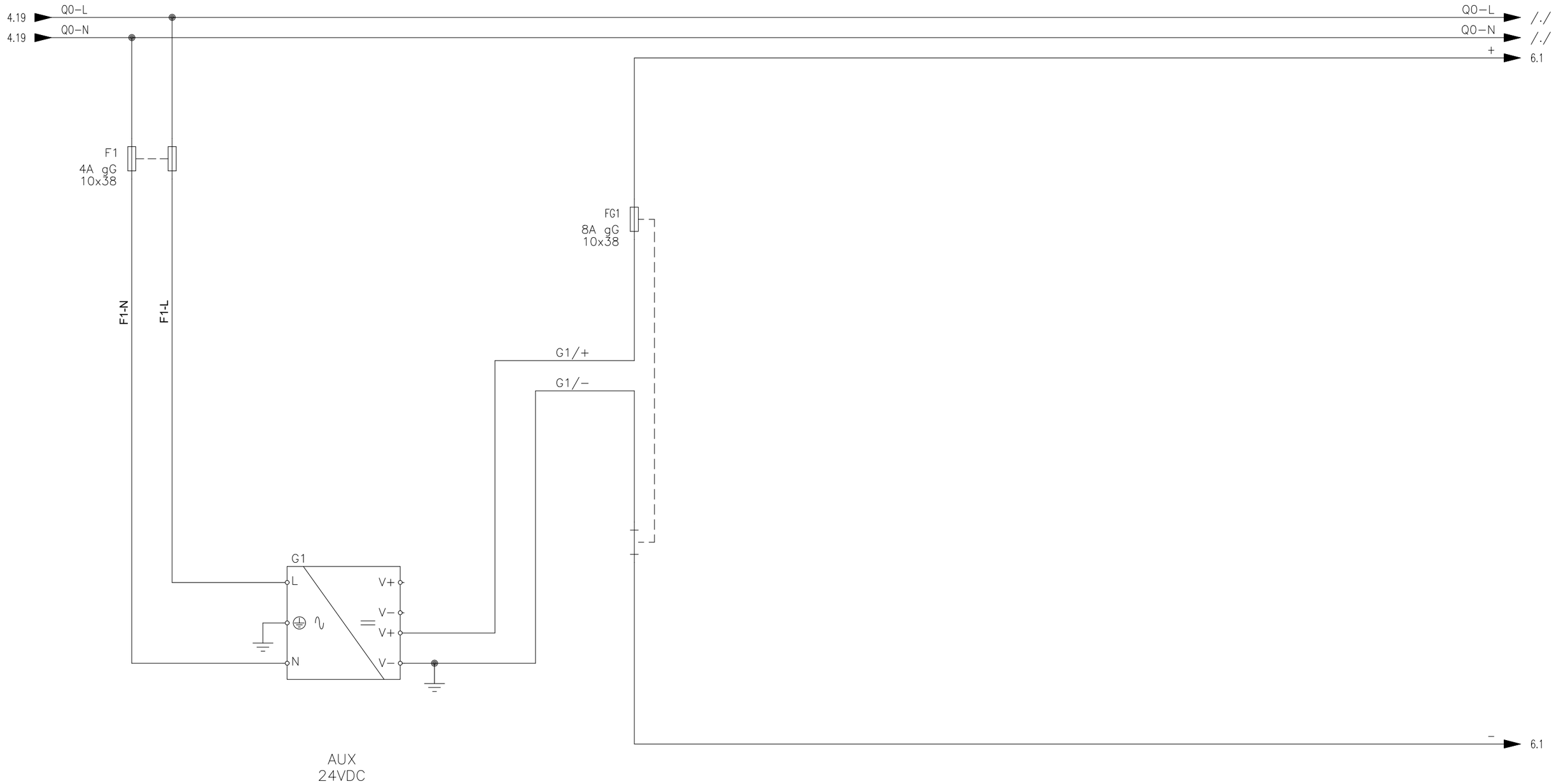


G1: TRIO-PS-2G/1AC/24DC/10 - Power supply unit PHORNIX CONTACT

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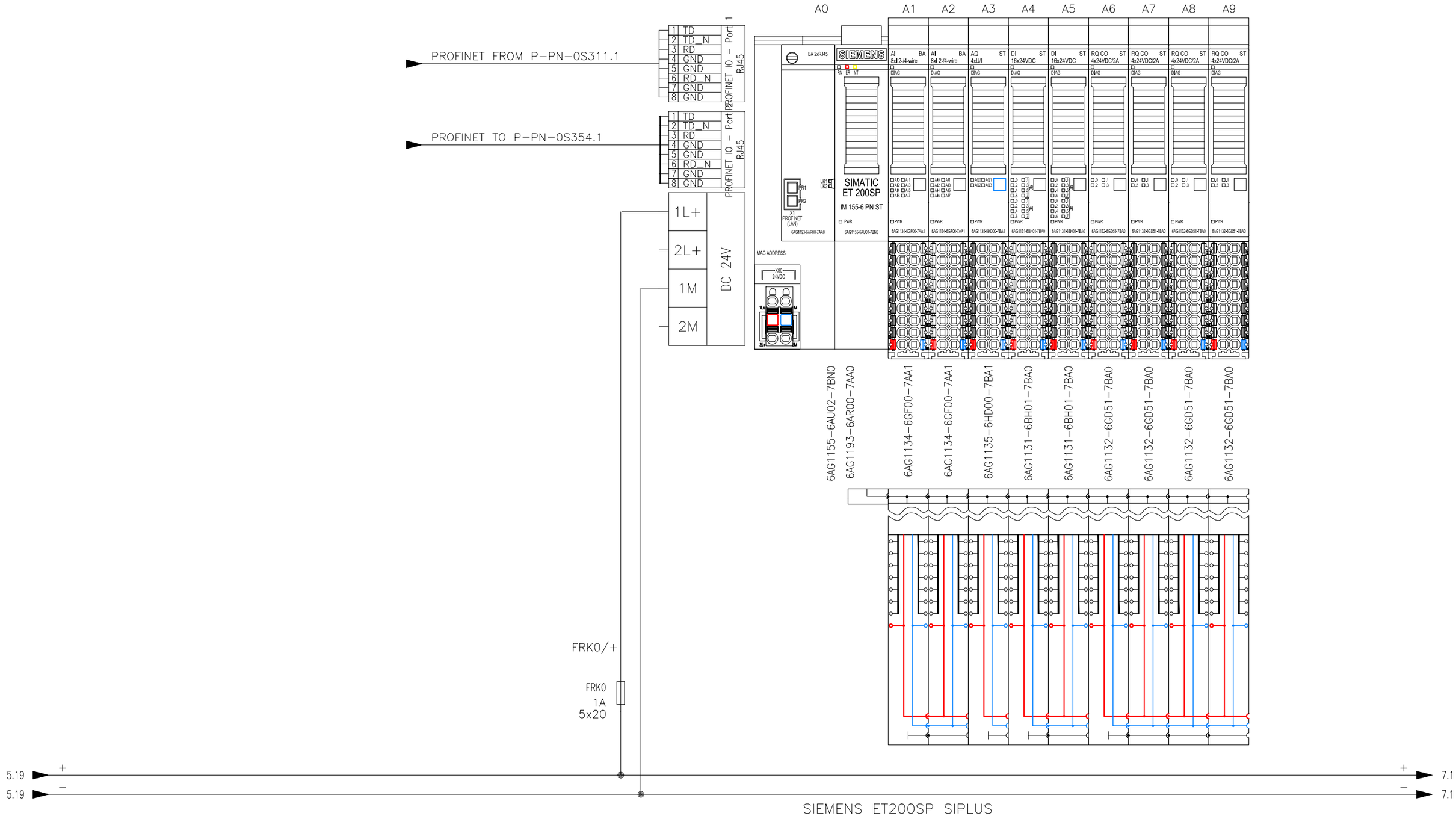


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| | | | Contract : IE24090 | Rev. / Data : | Date : 26/03/2024 |
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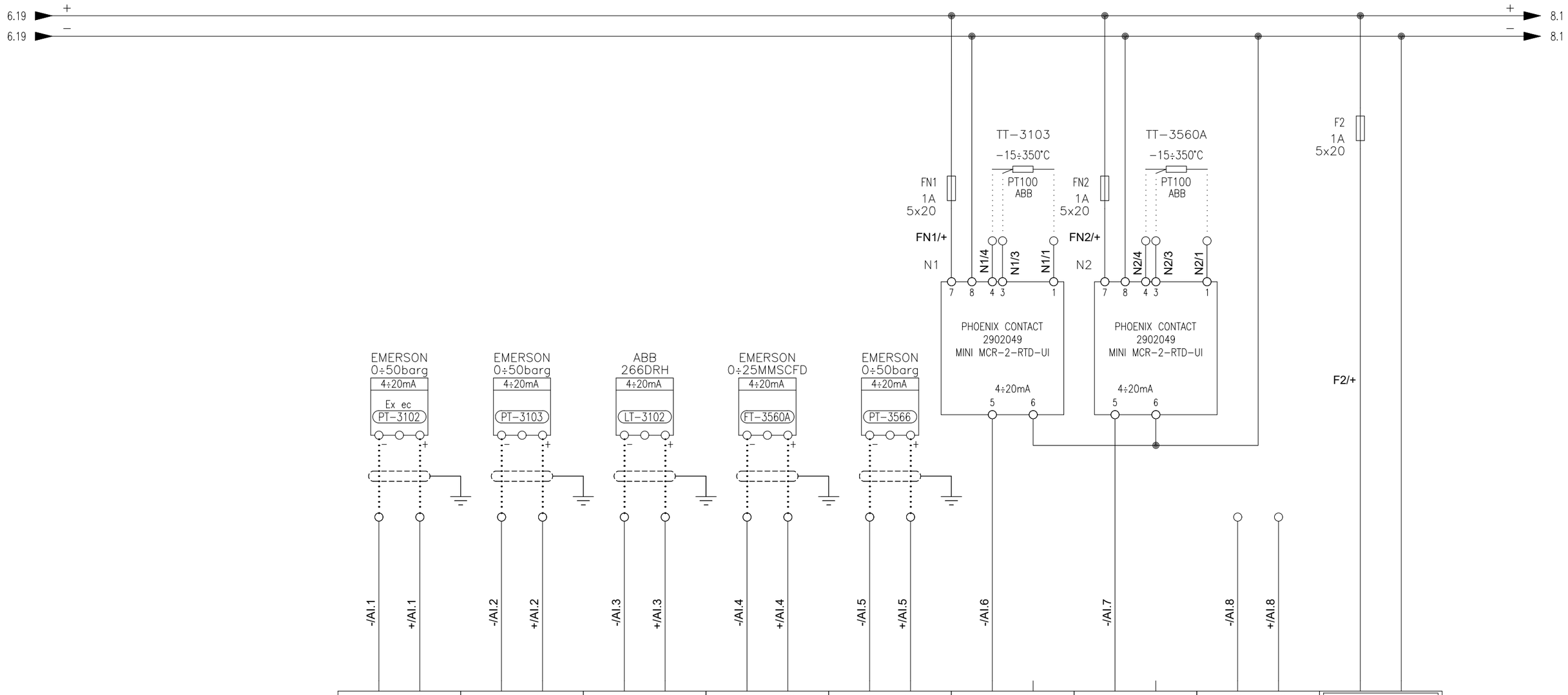
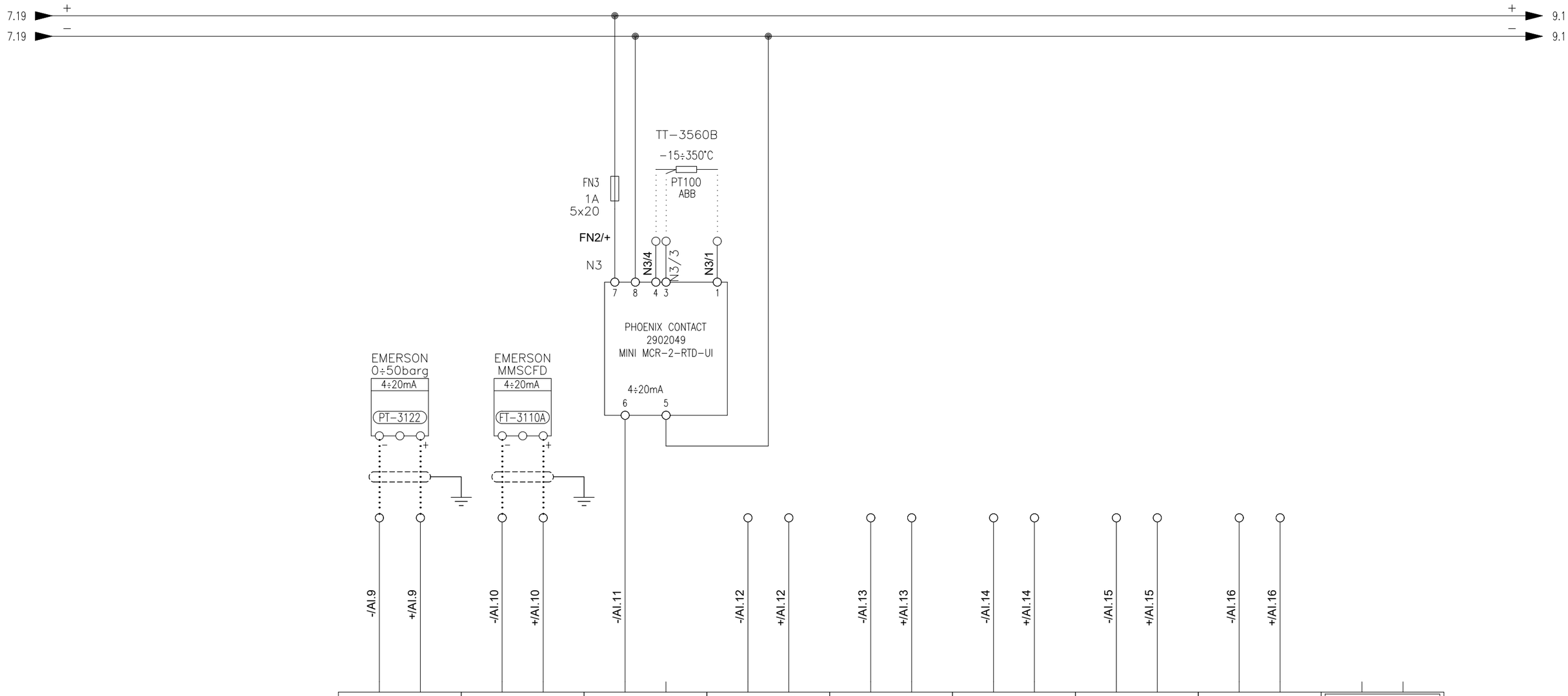


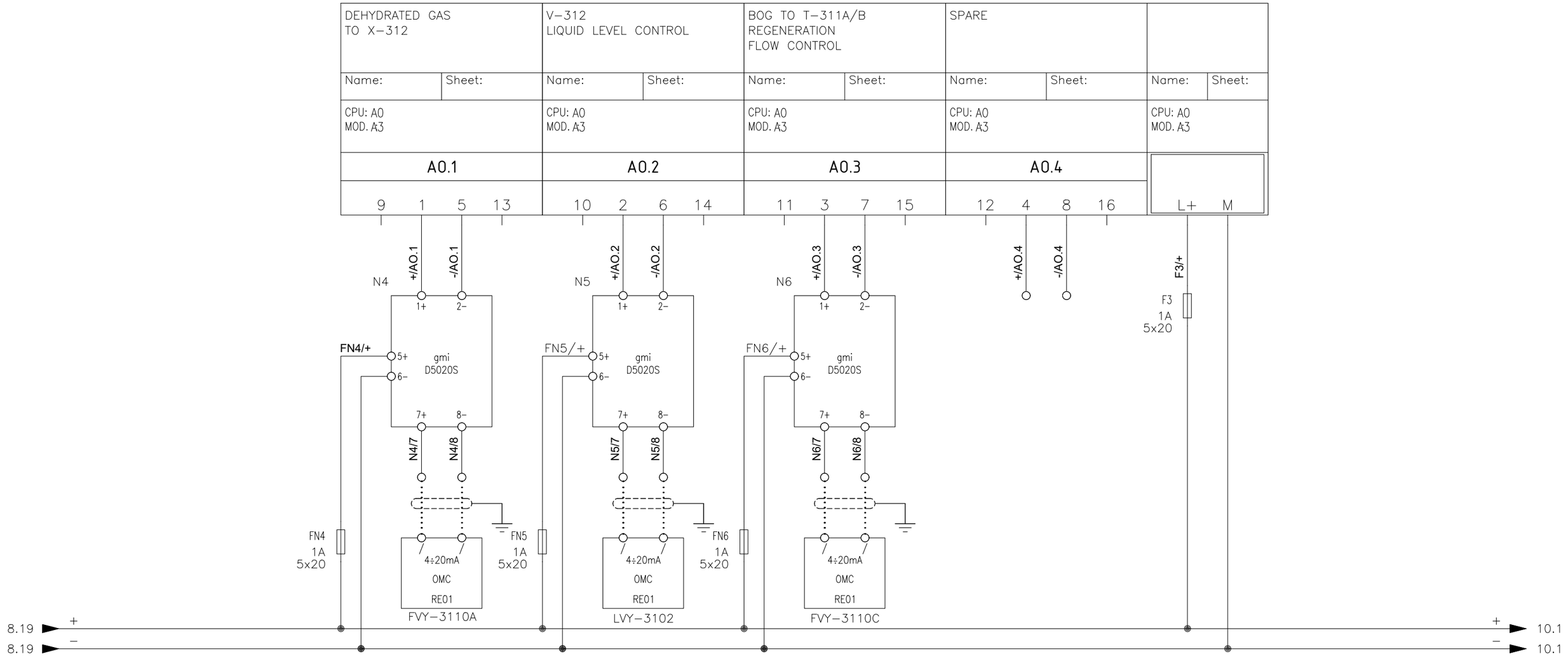

| 1 9 | 2 10 | 3 11 | 4 12 | 5 13 | 6 14 | 7 15 | 8 16 | L+ M |
|---|---|---|---|---|---|---|---|---|
| AI.1 | AI.2 | AI.3 | AI.4 | AI.5 | AI.6 | AI.7 | AI.8 | |
| CPU: A0<br>MOD. A1 | CPU: A0<br>MOD. A1 | CPU: A0<br>MOD. A1 | CPU: A0<br>MOD. A1 | CPU: A0<br>MOD. A1 | CPU: A0<br>MOD. A1 | CPU: A0<br>MOD. A1 | CPU: A0<br>MOD. A1 | CPU: A0<br>MOD. A1 |
| Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: |
| T−311A<br>REGENERATION<br>GAS OUTLET<br>PRESSURE | T−311B<br>REGENERATION<br>GAS OUTLET<br>PRESSURE | V−312<br>LIQUID LEVEL | CLEAN GAS<br>TO LIQUEFIER<br>FLOW | CLEAN GAS<br>TO LIQUEFIER<br>PRESSURE | E−313<br>OUTLET<br>TEMPERATURE | CLEAN GAS TO<br>LIQUEFIER<br>TEMPERATURE | SPARE | |

| | | | | | |
|---|---|---|---|---|---|
| General Contractor : | Manufacture : esa elettromeccanica.com | Project : P−PN−0S312.1<br>DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group<br>Contract : IE24090<br>S/N : IE24090_SE11 | Object :<br>Rev. Data :<br>Rev. 1 Data : 09/12/2025 | By :<br>Date : 26/03/2024<br>Sheet : 7 of : 21 |




| 1 9 | 2 10 | 3 11 | 4 12 | 5 13 | 6 14 | 7 15 | 8 16 | L+ M |
|---|---|---|---|---|---|---|---|---|
| AI.9 | AI.10 | AI.11 | AI.12 | AI.13 | AI.14 | AI.15 | AI.16 | |
| CPU: A0<br>MOD. A2 | CPU: A0<br>MOD. A2 | CPU: A0<br>MOD. A2 | CPU: A0<br>MOD. A2 | CPU: A0<br>MOD. A2 | CPU: A0<br>MOD. A2 | CPU: A0<br>MOD. A2 | CPU: A0<br>MOD. A2 | CPU: A0<br>MOD. A2 |
| Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: |
| FUEL GAS OUTLET FROM E−372 TEMPERATURE | REGENERATION GAS FLOW | REGENERATION GAS TEMPERATURE | SPARE | SPARE | SPARE | SPARE | SPARE | |

| | | | | | |
|---|---|---|---|---|---|
| General Contractor : | Manufacture : esa elettromeccanica.com | Project : P−PN−0S312.1<br>DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group<br>Contract : IE24090<br>S/N : IE24090_SE11 | Object :<br>Rev. Data :<br>Rev. 1 Data : 09/12/2025 | By :<br>Date : 26/03/2024<br>Sheet : 8 of : 21 |

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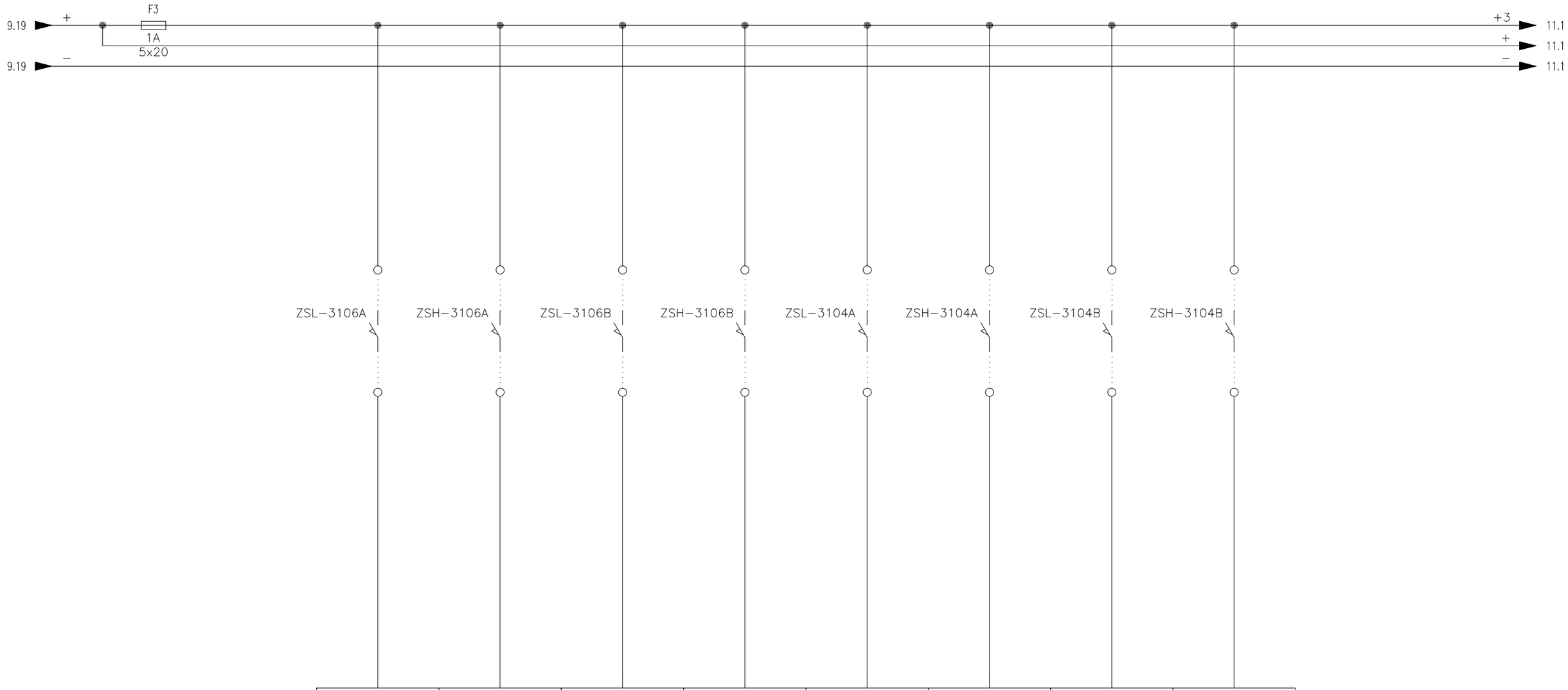
|---|---|---|---|---|
| General Contractor : | Manufacture : esa | Project : P-PN-OS312.1 DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group<br>Contract : IE24090<br>S/N : IE24090_SE11 | Object :<br>Rev. Data :<br>Rev. 1 Data : 09/12/2025 |
| | | | | By :<br>Date : 26/03/2024<br>Sheet : 9 of : 21 |




| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| DI.1 | DI.2 | DI.3 | DI.4 | DI.5 | DI.6 | DI.7 | DI.8 |
| CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 |
| Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: |
| XV−3106A<br>CLOSED POSITION<br>INDICATION | XV−3106A<br>OPEN POSITION<br>INDICATION | XV−3106B<br>CLOSED POSITION<br>INDICATION | XV−3106B<br>OPEN POSITION<br>INDICATION | XV−3104A<br>CLOSED POSITION<br>INDICATION | XV−3104A<br>OPEN POSITION<br>INDICATION | XV−3104B<br>CLOSED POSITION<br>INDICATION | XV−3104B<br>OPEN POSITION<br>INDICATION |

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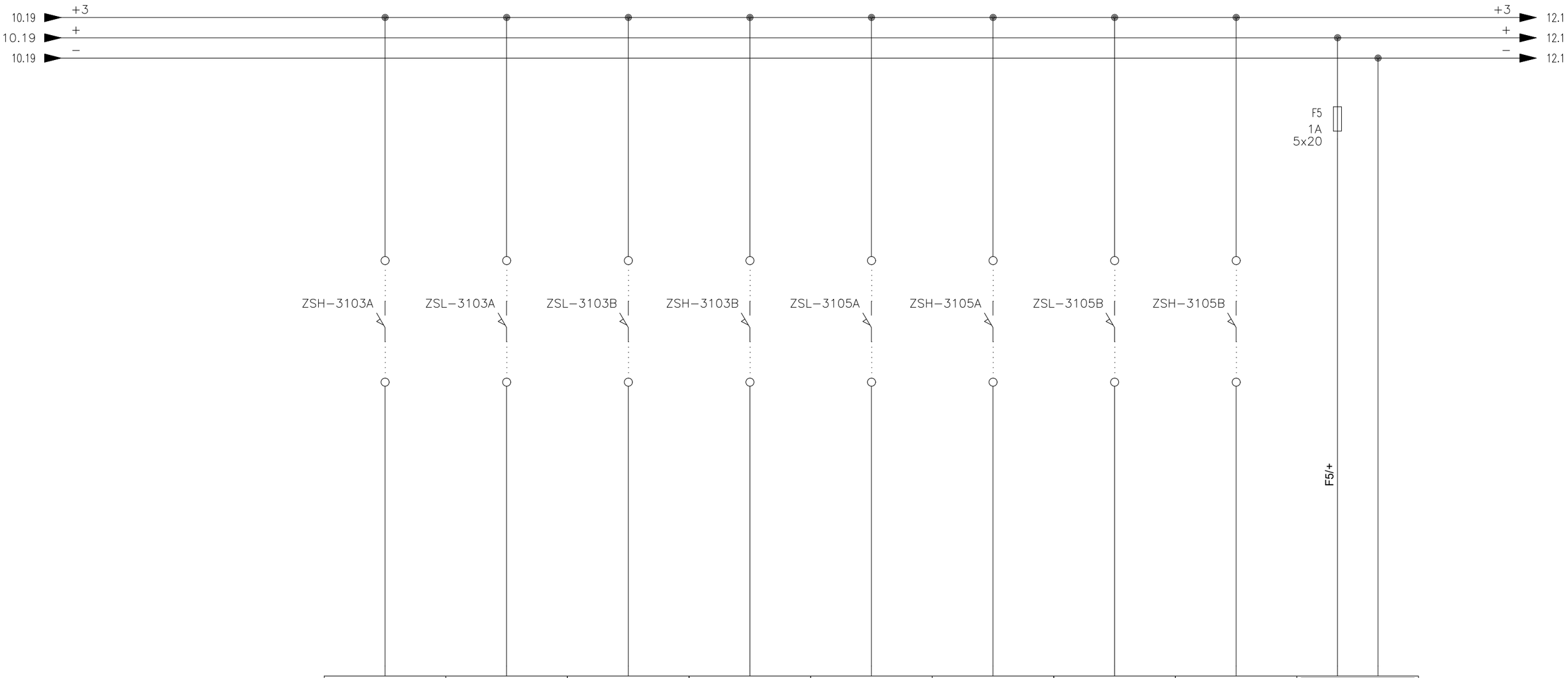
|---|---|---|---|---|---|
| General Contractor : | Manufacture : esa automacao | Project : P−PN−0S312.1<br>DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group<br>Contract : IE24090<br>S/N : IE24090_SE11 | Object :<br>Rev. Data :<br>Rev. 1 Data : 09/12/2025 | By :<br>Date : 26/03/2024<br>Sheet : 10 of : 21 |




| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | L+ M |
|---|---|---|---|---|---|---|---|---|
| DI.9 | DI.10 | DI.11 | DI.12 | DI.13 | DI.14 | DI.15 | DI.16 | |
| CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 | CPU: A0<br>MOD. A4 |
| Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: |
| XV−3103A<br>CLOSED POSITION<br>INDICATION | XV−3103A<br>OPEN POSITION<br>INDICATION | XV−3103B<br>CLOSED POSITION<br>INDICATION | XV−3103B<br>OPEN POSITION<br>INDICATION | XV−3105A<br>CLOSED POSITION<br>INDICATION | XV−3105A<br>OPEN POSITION<br>INDICATION | XV−3105B<br>CLOSED POSITION<br>INDICATION | XV−3105B<br>OPEN POSITION<br>INDICATION | |

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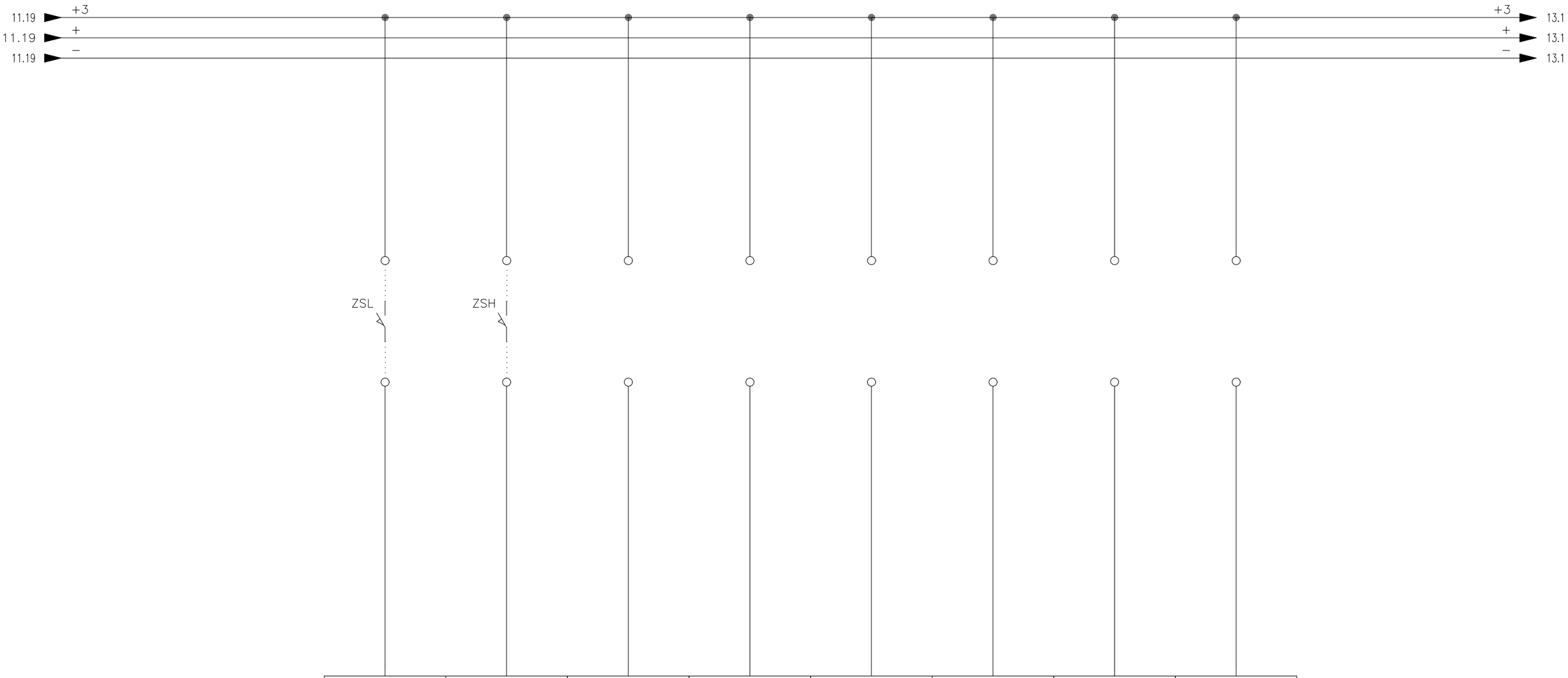
|---|---|---|---|---|---|
| General Contractor : | Manufacture : esa automation | Project : P−PN−0S312.1<br>DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group<br>Contract : IE24090<br>S/N : IE24090_SE11 | Object :<br>Rev.<br>Rev. 1 | By :<br>Date : 26/03/2024<br>Data : 09/12/2025<br>Sheet : 11 of : 21 |




| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| DI.17 | DI.18 | DI.19 | DI.20 | DI.21 | DI.22 | DI.23 | DI.24 |
| CPU: A0<br>MOD. A5 | CPU: A0<br>MOD. A5 | CPU: A0<br>MOD. A5 | CPU: A0<br>MOD. A5 | CPU: A0<br>MOD. A5 | CPU: A0<br>MOD. A5 | CPU: A0<br>MOD. A5 | CPU: A0<br>MOD. A5 |
| Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: | Name: Sheet: |
| / | / | SPARE | SPARE | SPARE | SPARE | SPARE | SPARE |

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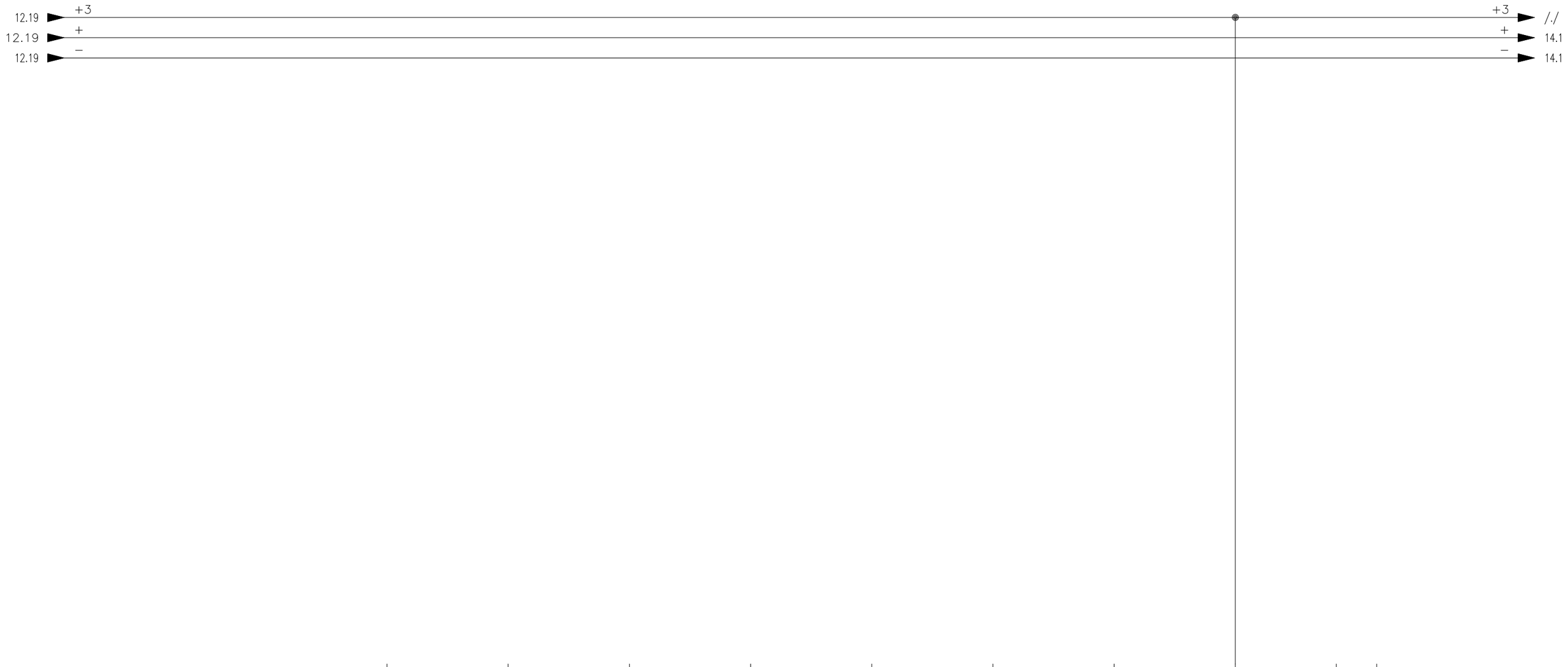


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|---|---|---|---|---|---|
| General Contractor : | Manufacture : esa automazioni industriali | Project : P-PN-0S312.1 DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group | Object : | By : |
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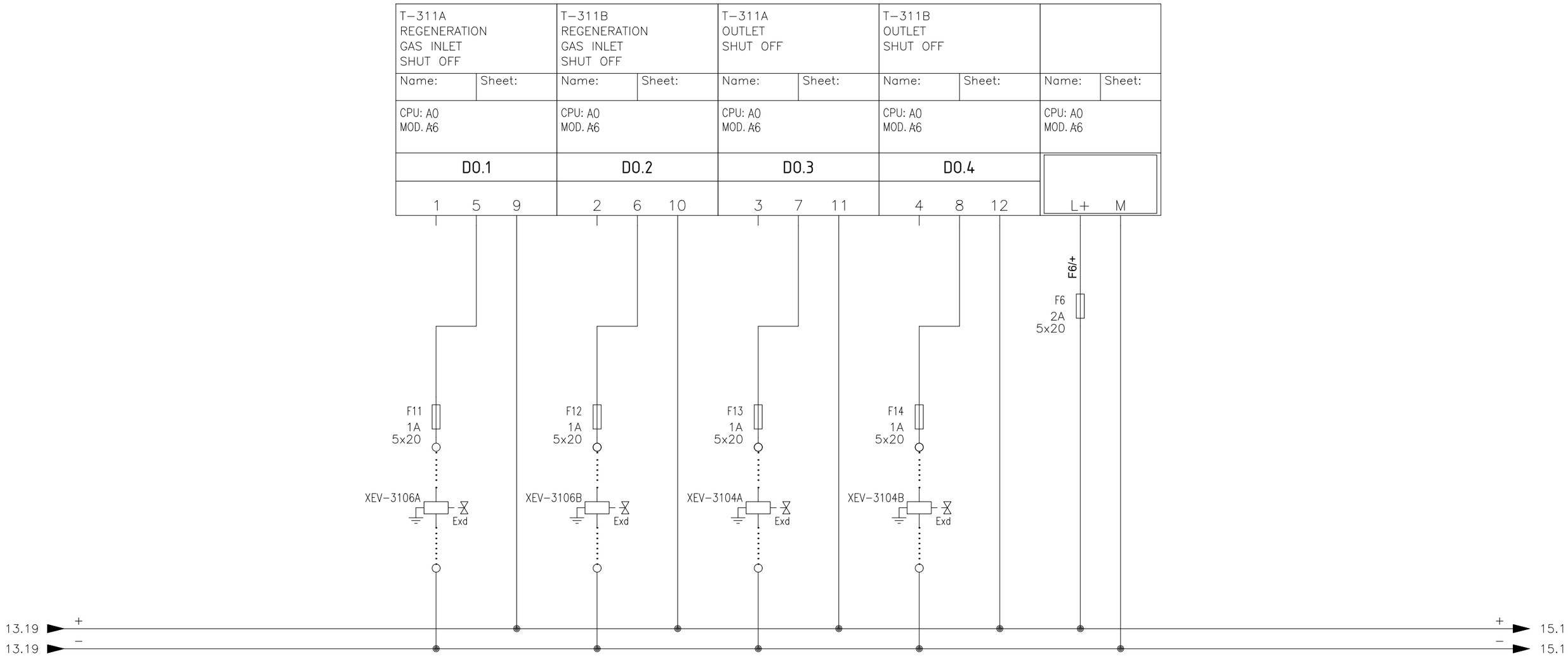


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| | | | Contract : IE24090 | Rev. | Data : | Date : 26/03/2024 | |
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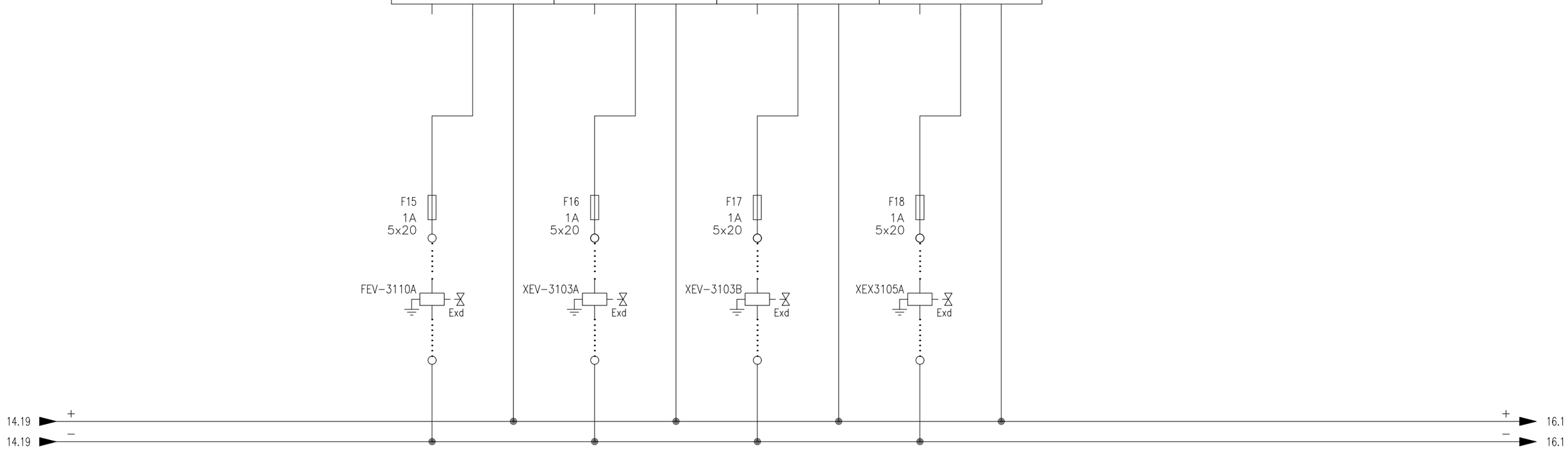
| DEHYDRATED GAS TO X-312 | | / | | / | | / | |
|---|---|---|---|---|---|---|---|
| Name: | Sheet: | Name: | Sheet: | Name: | Sheet: | Name: | Sheet: |
| CPU: A0 MOD. A7 | | CPU: A0 MOD. A7 | | CPU: A0 MOD. A7 | | CPU: A0 MOD. A7 | |
| D0.5 | | D0.6 | | D0.7 | | D0.8 | |
| 1 5 9 | | 2 6 10 | | 3 7 11 | | 4 8 12 | |

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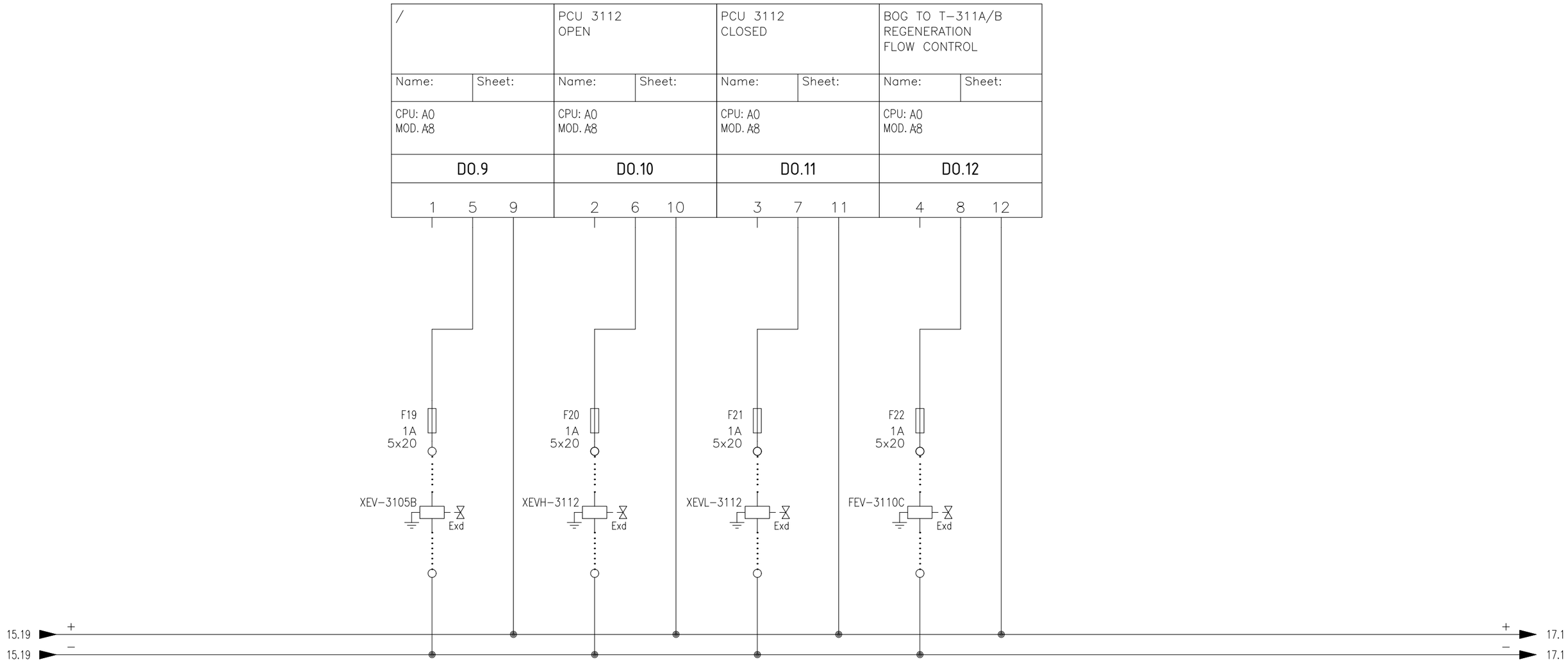


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| General Contractor : | Manufacture : esa | Project : P-PN-0S312.1 DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group | Object : | By : |
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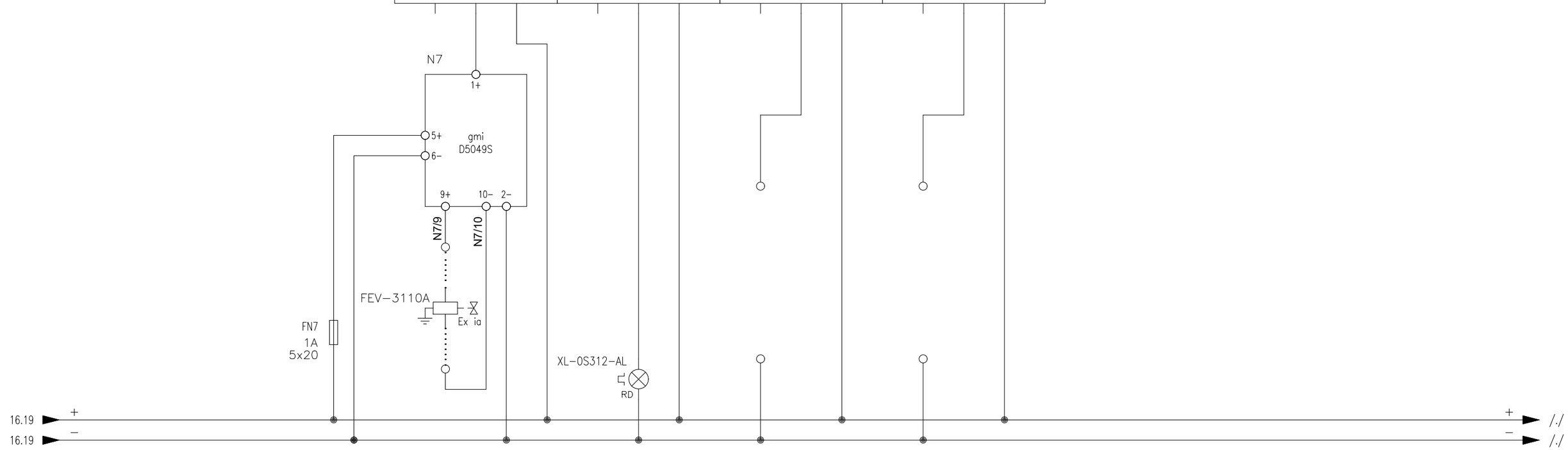
| | | | S/N : IE24090_SE11 | Rev. 1 / Data : 09/12/2025 | Sheet : 16 of : 21 |

| DEHYDRATED GAS TO X-312 | | PACKAGE ALARM OR TRIP | | SPARE | | SPARE | |
|---|---|---|---|---|---|---|---|
| Name: | Sheet: | Name: | Sheet: | Name: | Sheet: | Name: | Sheet: |
| CPU: A0 MOD. A9 | | CPU: A0 MOD. A9 | | CPU: A0 MOD. A9 | | CPU: A0 MOD. A9 | |
| **D0.13** | | **D0.14** | | **D0.15** | | **D0.16** | |
| 1 5 9 | | 2 6 10 | | 3 7 11 | | 4 8 12 | |

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|---|---|---|---|---|---|---|
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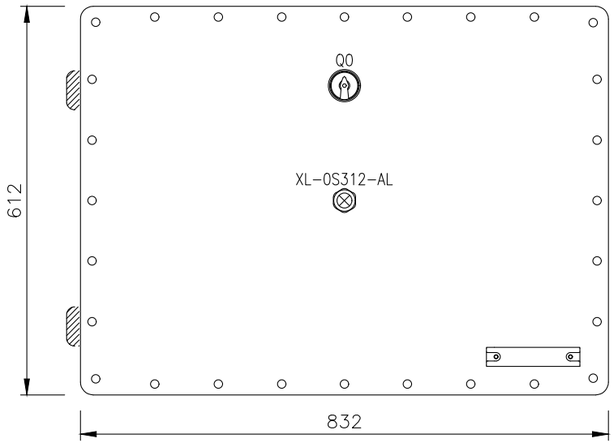
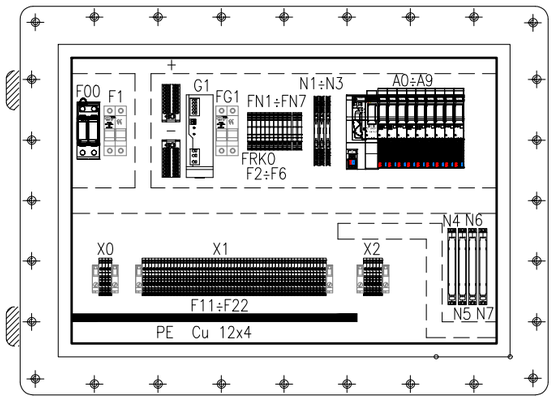
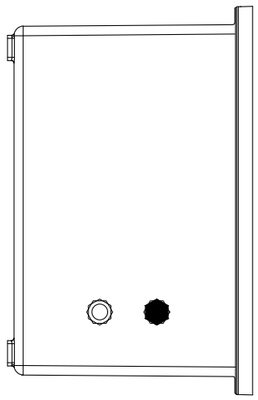
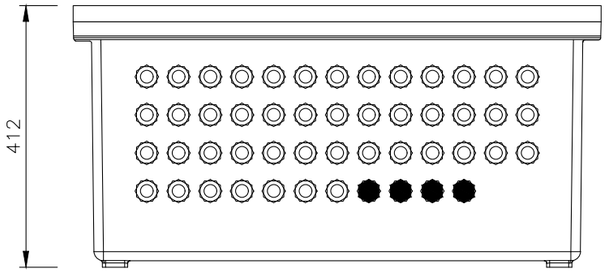
| | | | Contract : IE24090 | Rev. | Data : | Date : 26/03/2024 |
| | | | S/N : IE24090_SE11 | Rev. 1 | Data : 09/12/2025 | Sheet : 17 of : 21 |






C.M.C. Antideflagranti s.r.l.

**MILANO-ITALY Tel 024455358 Fax 0248401741**

**Type: EJB-H**
**230Vac 50Hz 16Å**
**Max Dis. P: 56 W**

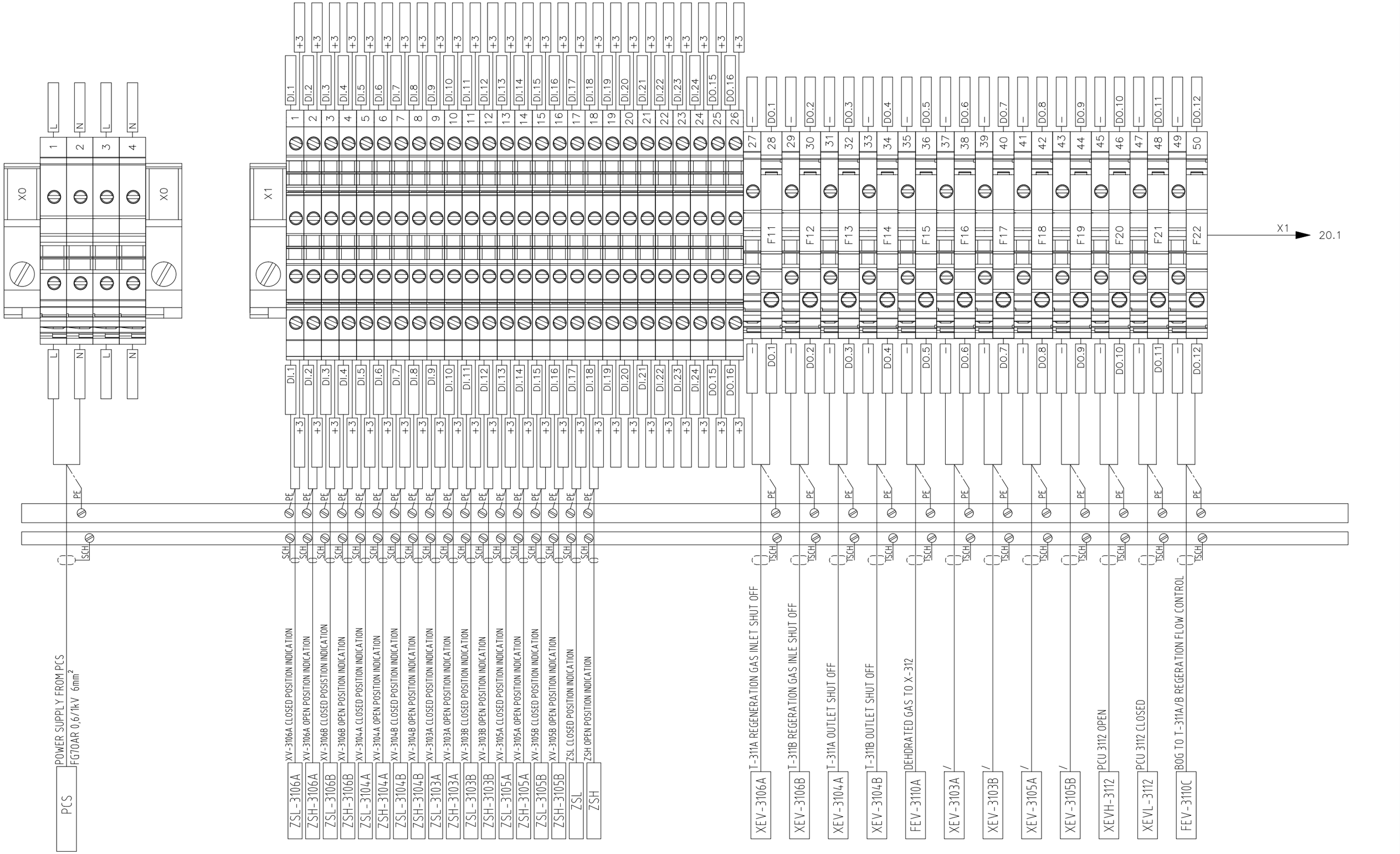
**Year s.n 25/CMC/0067**

**CE 0722 Ex II 2GD**
**INERIS18ATEX0026X/00**
**Ex db [ia Ga] IIB T6**
**Ex tb [ia Da] IIIC T85 °C IP66**
**-20°C < Tamb < +50°C**

**Cable entries: see instructions**
**WARNINGS: DO NOT OPEN WHILE ENERGIZED**
**DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT**
**READ INSTRUCTIONS NOTE BEFORE INSTALLATION AND USE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| General Contractor : | Manufacture : esa elettromeccanica | Project : P-PN-OS312.1 DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group | Object : | | By : | |
| | | | Contract : IE24090 | Rev. | Data : | Date : 26/03/2024 | |
| | | | S/N : IE24090_SE11 | Rev. 1 | Data : 09/12/2025 | Sheet : 18 | of : 21 |

| INITIALS | SUPPLIER PN | DESCRIPTION | SUPPLIER |
|---|---|---|---|
| – | 3273110 | PTFIX 6/18X2,5–NS35 GY – Distribution block | PHOENIX CONTACT |
| + | 3273110 | PTFIX 6/18X2,5–NS35 GY – Distribution block | PHOENIX CONTACT |
| A0 | 6AG1155–6AU02–7BN0 | ET 200SP, PROFINET interface module IM 155–6PN Standard | SIEMENS |
| A0 | 6AG1193–6AR00–7AA0 | ET 200SP BA 2xRJ45 | SIEMENS |
| A1 | 6AG1134–6GF00–7AA1 | AI 8xI 2–/4–wire BA | SIEMENS |
| A1 | 6AG1193–6BP00–7DA0 | ET 200SP BU15–P16+A0+2D push–in terminals | SIEMENS |
| A2 | 6AG1134–6GF00–7AA1 | AI 8xI 2–/4–wire BA | SIEMENS |
| A2 | 6AG1193–6BP00–7BA0 | ET 200SP BU15–P16+A0+2B push–in terminals | SIEMENS |
| A3 | 6AG1135–6HD00–7BA1 | SIPLUS ET 200SP AQ 4xU/I Standard | SIEMENS |
| A3 | 6AG1193–6BP00–7DA0 | ET 200SP BU15–P16+A0+2D push–in terminals | SIEMENS |
| A4 | 6AG1131–6BH01–7BA0 | ET 200SP DI 16x24 V DC | SIEMENS |
| A4 | 6AG1193–6BP00–7DA0 | ET 200SP BU15–P16+A0+2D push–in terminals | SIEMENS |
| A5 | 6AG1131–6BH01–7BA0 | ET 200SP DI 16x24 V DC | SIEMENS |
| A5 | 6AG1193–6BP00–7BA0 | ET 200SP BU15–P16+A0+2B push–in terminals | SIEMENS |
| A6 | 6AG1132–6GD51–7BA0 | ET 200SP RQ 4x24VDC/2A CO ST | SIEMENS |
| A6 | 6AG1193–6BP00–7DA0 | ET 200SP BU15–P16+A0+2D push–in terminals | SIEMENS |
| A7 | 6AG1132–6GD51–7BA0 | ET 200SP RQ 4x24VDC/2A CO ST | SIEMENS |
| A7 | 6AG1193–6BP00–7BA0 | ET 200SP BU15–P16+A0+2B push–in terminals | SIEMENS |
| A8 | 6AG1132–6GD51–7BA0 | ET 200SP RQ 4x24VDC/2A CO ST | SIEMENS |
| A8 | 6AG1193–6BP00–7BA0 | ET 200SP BU15–P16+A0+2B push–in terminals | SIEMENS |
| A9 | 6AG1132–6GD51–7BA0 | ET 200SP RQ 4x24VDC/2A CO ST | SIEMENS |
| A9 | 6AG1193–6BP00–7BA0 | ET 200SP BU15–P16+A0+2B push–in terminals | SIEMENS |
| F00 | 952110 | DG M TT 2P 275 – SPD | DEHN |
| F1 | 2302038 | Fuseholder for cylindrical fuses – 2P for fuses 10,3x38mm – BCH 2x38 32A 690V | ITALWEBER |
| F2 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| F3 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| F4 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| F5 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| F6 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| FG1 | 2301138 | Fuseholder for cylindrical fuses – 1P+N for fuses 10,3x38mm – BCH 1x38N 32A 690V | ITALWEBER |
| FN1 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| FN2 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| FN3 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| FN4 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| FN5 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| FN6 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| FN7 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| FRK0 | TBS4F | MODULAR TERMINAL WITH FUSE | CEMBRE |
| G1 | 2903149 | TRIO–PS–2G/1AC/24DC/10 – Power supply unit | PHOENIX CONTACT |
| N1 | 2902049 | MINI MCR–2–RTD–UI – Resistance thermometer measuring transducer | PHOENIX CONTACT |
| N3 | 2902049 | MINI MCR–2–RTD–UI – Resistance thermometer measuring transducer | PHOENIX CONTACT |
| N4 | D5020S | I.S. SIL2 HART? Isolating Driver | GMI |
| N5 | D5020S | I.S. SIL2 HART? Isolating Driver | GMI |
| N6 | D5020S | I.S. SIL2 HART? Isolating Driver | GMI |
| N7 | D5049S | I.S. SIL3 Bus–Powered Digital Output Driver | GMI |
| P-PN-0S312.1 | EJB–G | ENCLOSURE 832x612x412 mm L x H x D | CMC |
| Q0 | PSRC–320 | SELECTOR SWITCH | CMC |
| XL-0S312-AL | PLD20 | PILOT LAMP RED | CMC |
| XL-0S312-AL | 020PD9 | LAMPHOLDER BA9S, DIRECT SUPPLY | ELFI |

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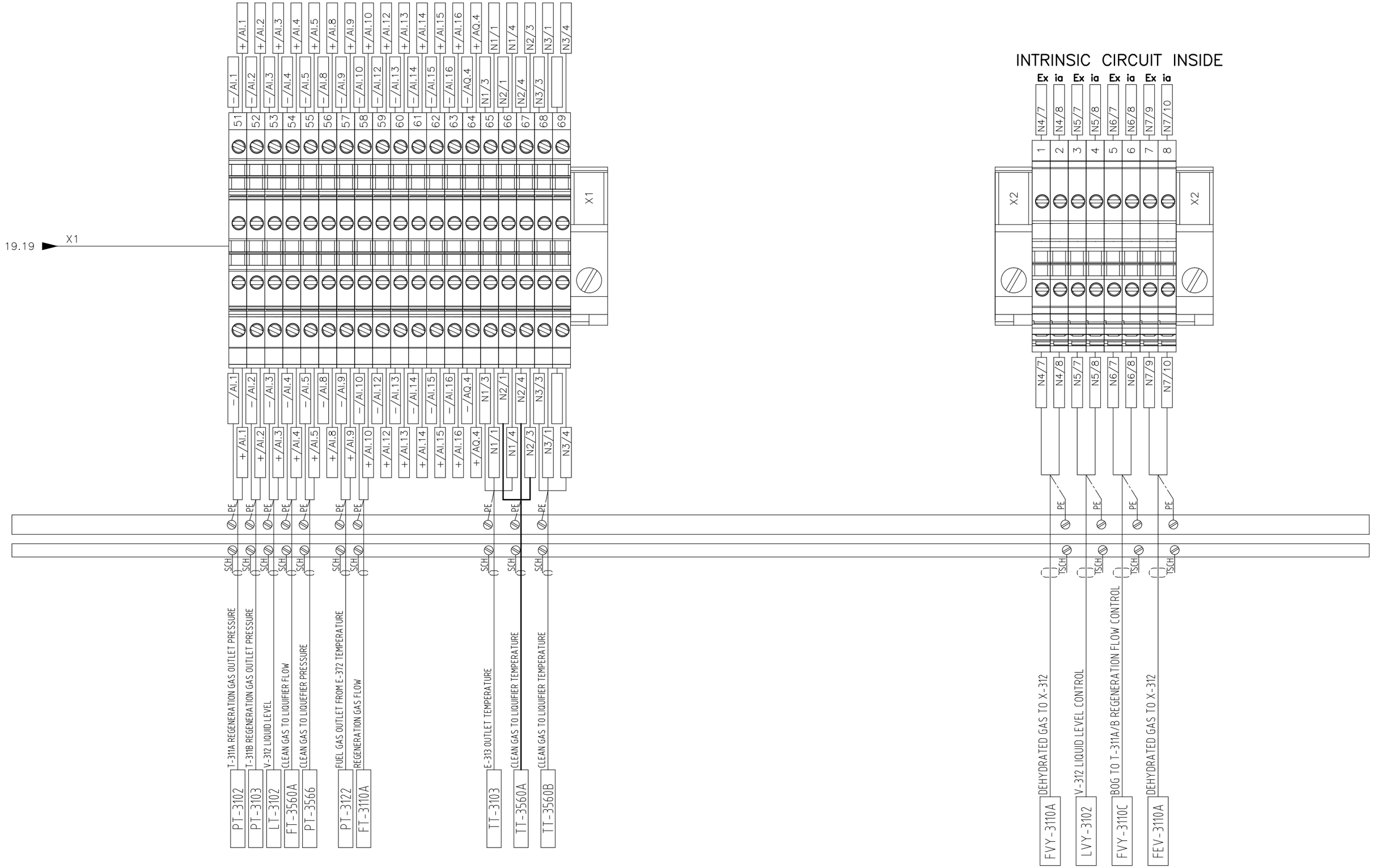
| | | | S/N : IE24090_SE11 | Rev. 1 / Data : 09/12/2025 | Sheet : 20 of : 21 |

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| General Contractor : | Manufacture : esa elettromeccanica.com | Project : P-PN-OS312.1 DEHYDRATATION CLEANING | Customer : ManaEnergy Managem Group | Object : | By : |
| | | | Contract : IE24090 | Rev. / Data : | Date : 26/03/2024 |
| | | | S/N : IE24090_SE11 | Rev. 1 / Data : 09/12/2025 | Sheet : 21 of : 21 |