

Description : HVCP EX 37kW Insight
Part no. : 2183616 / 2183625
Drawing no. : 2183617

AB Ph. Nederman & Co

Sydhamnsgatan 2 SE-25228 Helsingborg , Sweden

Tel: +46 42 20 89 87 Fax: +46 42 20 89 58

Last page no. :1024
Number of pages : 73

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| 1005 | COMPONENT LIST | 2019-11-29 |
| 1006 | COMPONENT LIST | 2019-11-29 |
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| 1008 | COMPONENT LIST | 2019-11-29 |
| 1010 | PLC LIST | 2019-09-25 |

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Standards/Directives:

EN60 204-1

EN61000-6-4

The control panel is suitable to be connected to
TN-S, TN-C, TN-C-S grid**Electrical specifications:**Motor size: 30kW-220/230/240V 50/60Hz
30-37kW-380/400/440/460V 50/60HzSupply Voltage: 3x(220/230/240)VAC PE 50/60Hz
3x(380/400/440/460)VAC PE 50/60Hz

Short Circuit Current Ratings: 30kA

Frequency: 50/60 Hz

Type: Y/D

H x W x D(mm): 800 x 800 x 300

Control Voltage: 24V AC/ DC

Transformer: 340VA/160VA

Supply To External Equipment: 24V AC 2A, 24V DC 2A

Max installation ambient temperature
40 °C / 104 °F**Mechanical specifications:**

Degree of protection: IP65

Weight: 54Kg

Recyclable Materials: 100%

Labels, markings and other possible accessories according to product BOM

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Wire specification:**Power cables:**

Insulation Material: PVC or PEX,EPR equivalent

Temperature: 70°C

Approvals: CE

Signal cables:

Material and type: PVC or PEX,EPR equivalent

Temperature: 70°C

Approvals: CE

Cables colour and conductor sectional area:

Protective conductor: Yellow/Green Variable

Power circuits: Black Variable

External control voltage: Orange 0,5mm²24VAC Phase: Red 1,5mm²0VAC Neutral: Red 1,5mm²24VDC Phase (+): Dark blue 0,5mm²0VDC Neutral (-): Dark blue 0,5mm²Analog signal: Purple 0,5mm²

Undefined Signal: --

Labels, markings and other possible accessories according to product BOM

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Wire specification:**Colour code:**

| | |
|-----|--------|
| BK: | Black |
| BN: | Brown |
| BU: | Blue |
| GN: | Green |
| GY: | Grey |
| RD: | Red |
| WH: | White |
| PK: | Pink |
| PU: | Purple |

Cables number grouping

| | |
|----------------------------|--------------|
| Power Cables | W0 ----->W49 |
| Shielded Power Cables | W50---->W99 |
| Input Signal Cables 0-48V | W101--> W199 |
| Output Signal Cables 0-48V | W200--> W399 |
| Shielded Signal Cables | W500--> W599 |
| Multi I/O Cable | W110 |

Labels, markings and other possible accessories according to product BOM

Installation of external accessories:

Dimension and types shown are only recommendations. it is the responsibility of the electrician to ensure that local and/or national regulations are met.

Note:

Do not use aluminium cable connect to main switch or contactors. Including motor cables.

Note:

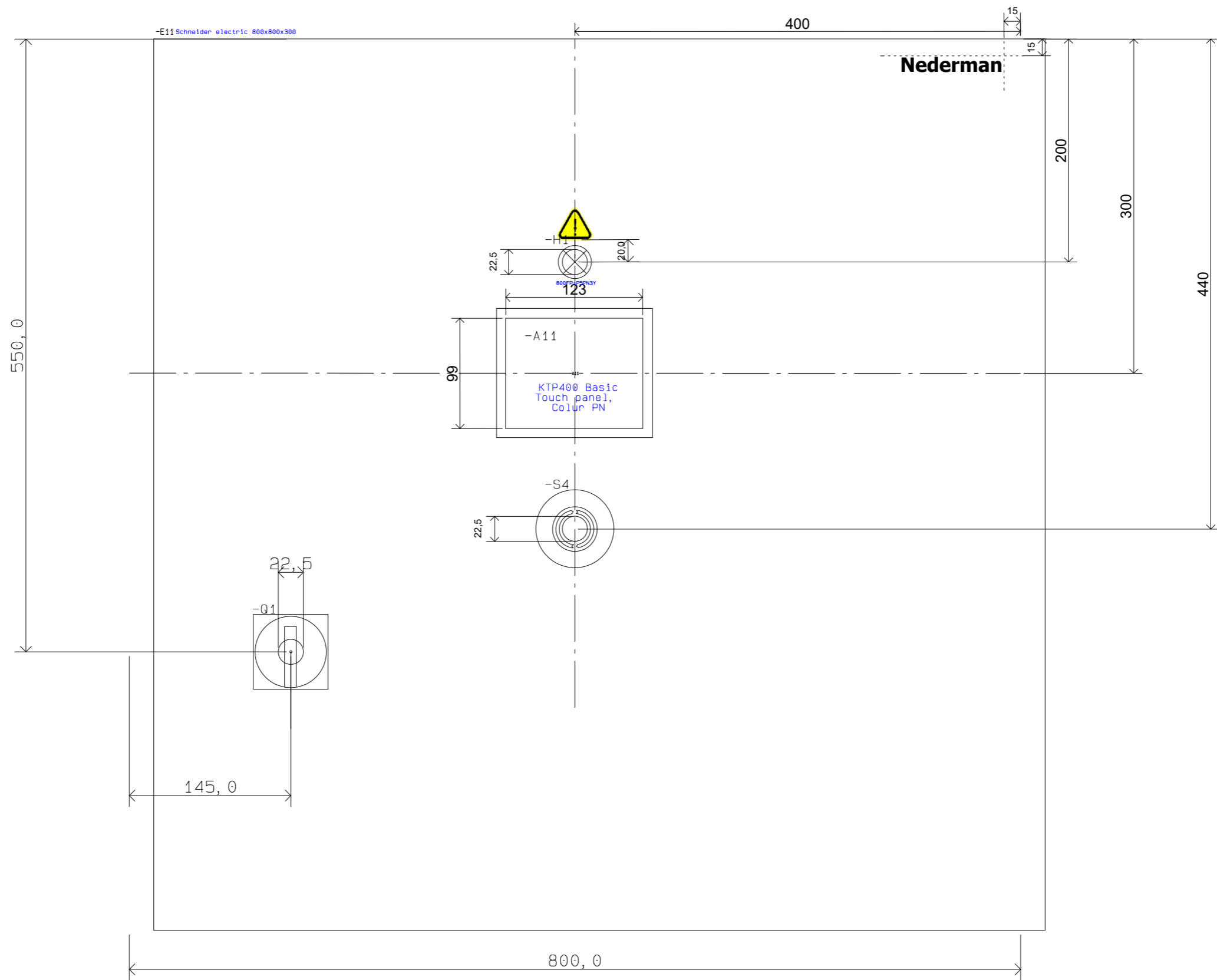
There are limitations of software that determine which ones possible components that can be connected to inputs and outputs. This means that some cabinets do not have all the I/O functionality shown in the electrical diagram.

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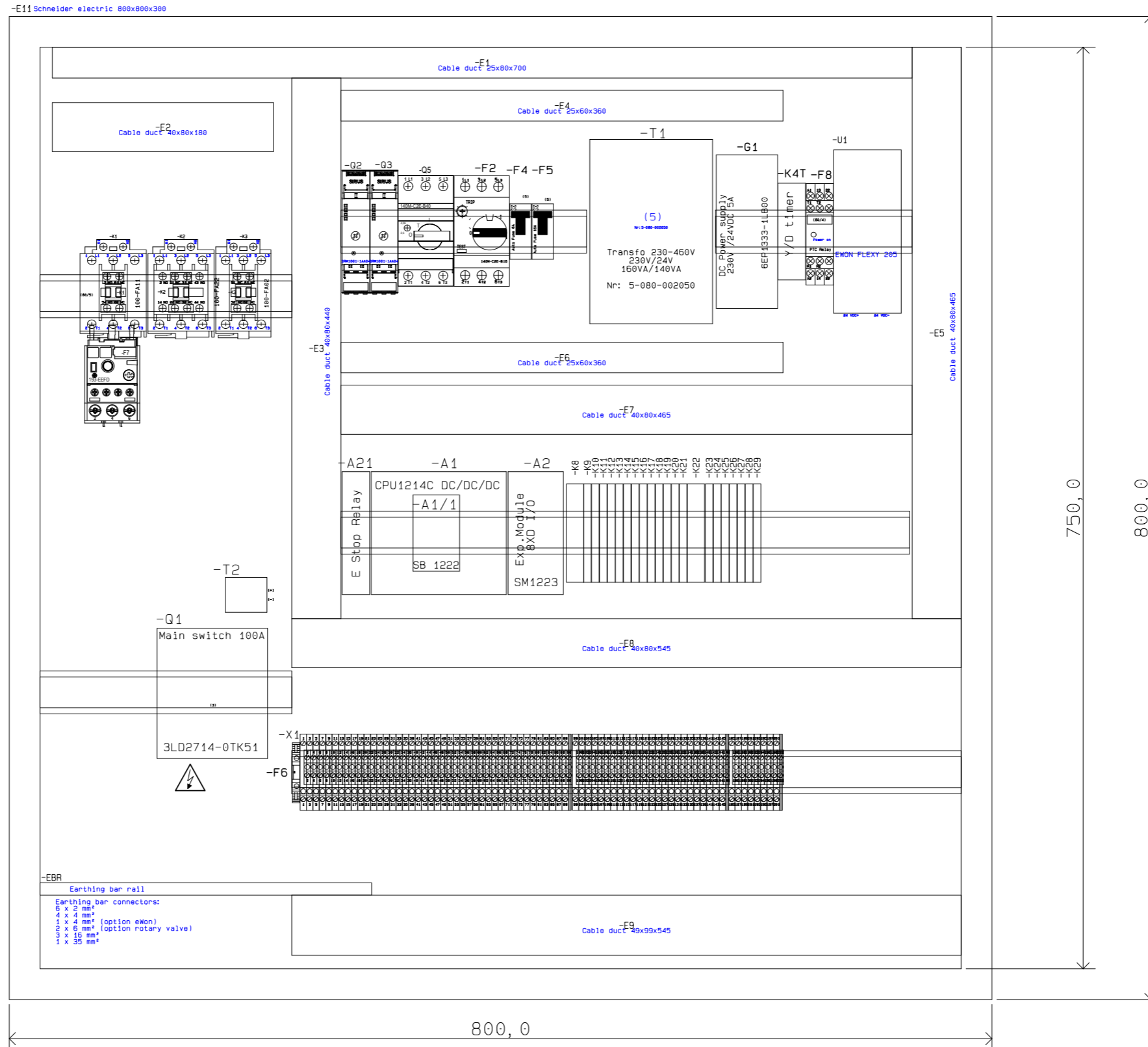
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PANEL LAYOUT

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Note: Q2, Q3, Q5 & U1 are optional components.
If not fitted, terminations for unused connections fitted instead.

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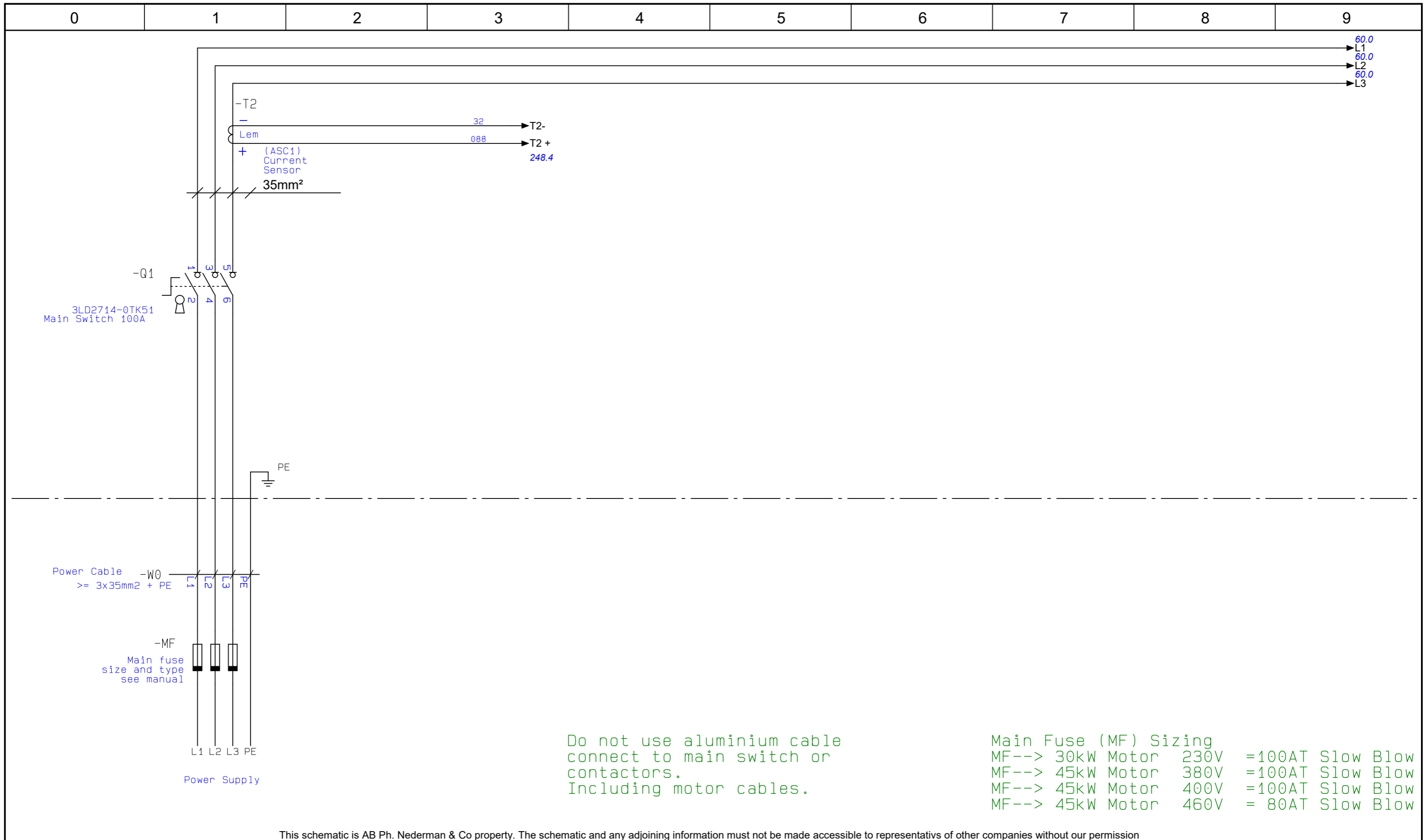
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PANEL LAYOUT

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Do not use aluminium cable connect to main switch or contactors. Including motor cables.

Main Fuse (MF) Sizing

| | | | | |
|-------|------------|------|--------|-----------|
| MF--> | 30kW Motor | 230V | =100AT | Slow Blow |
| MF--> | 45kW Motor | 380V | =100AT | Slow Blow |
| MF--> | 45kW Motor | 400V | =100AT | Slow Blow |
| MF--> | 45kW Motor | 460V | = 80AT | Slow Blow |

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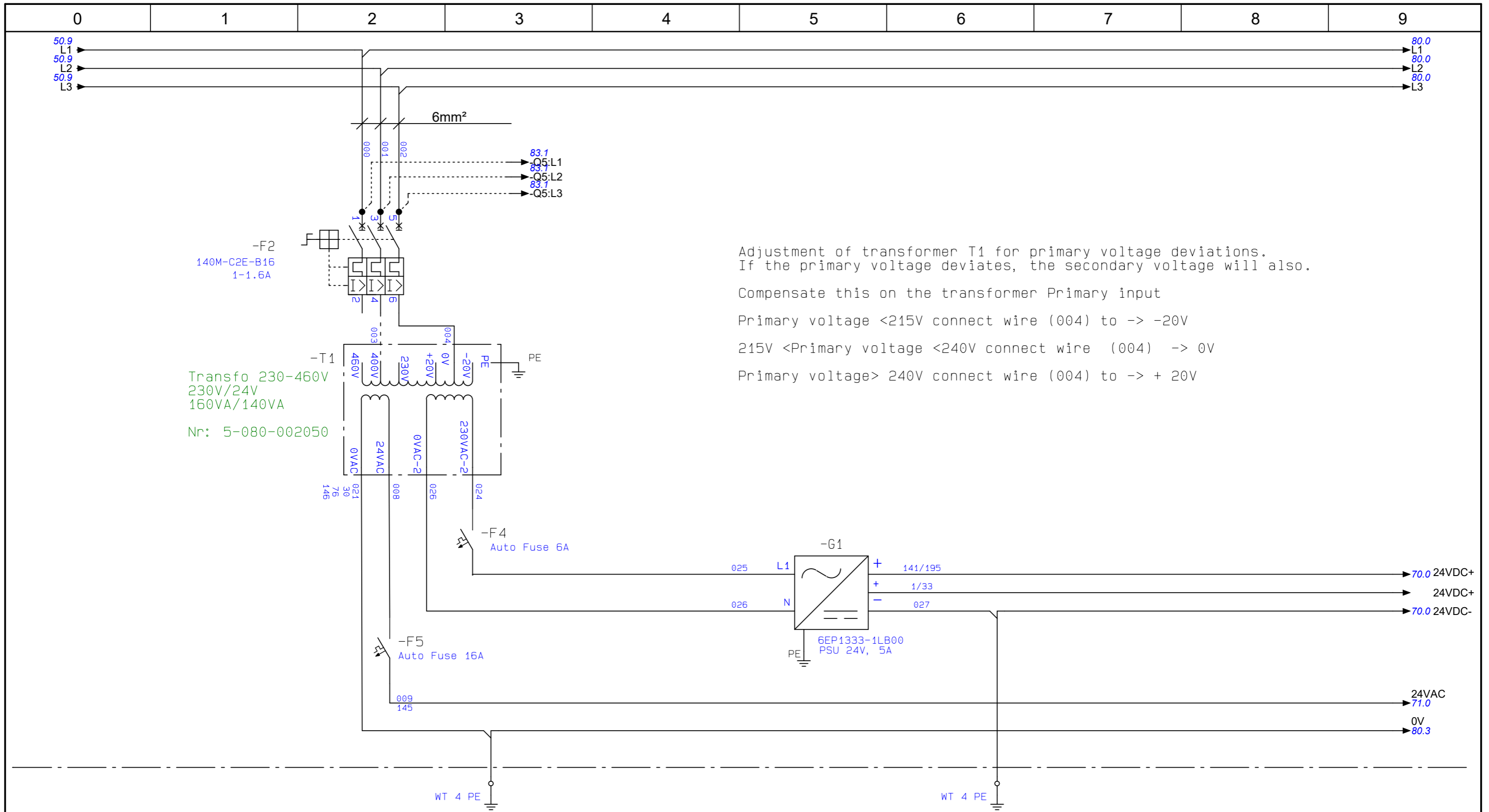
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POWER SUPPLY

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Adjustment of transformer T1 for primary voltage deviations.
 If the primary voltage deviates, the secondary voltage will also.

Compensate this on the transformer Primary input

Primary voltage <215V connect wire (004) to -> -20V
 215V <Primary voltage <240V connect wire (004) -> 0V
 Primary voltage > 240V connect wire (004) to -> + 20V

-F2
 140M-C2E-B16
 1-1.6A

-T1
 Transfo 230-460V
 230V/24V
 160VA/140VA
 Nr: 5-080-002050

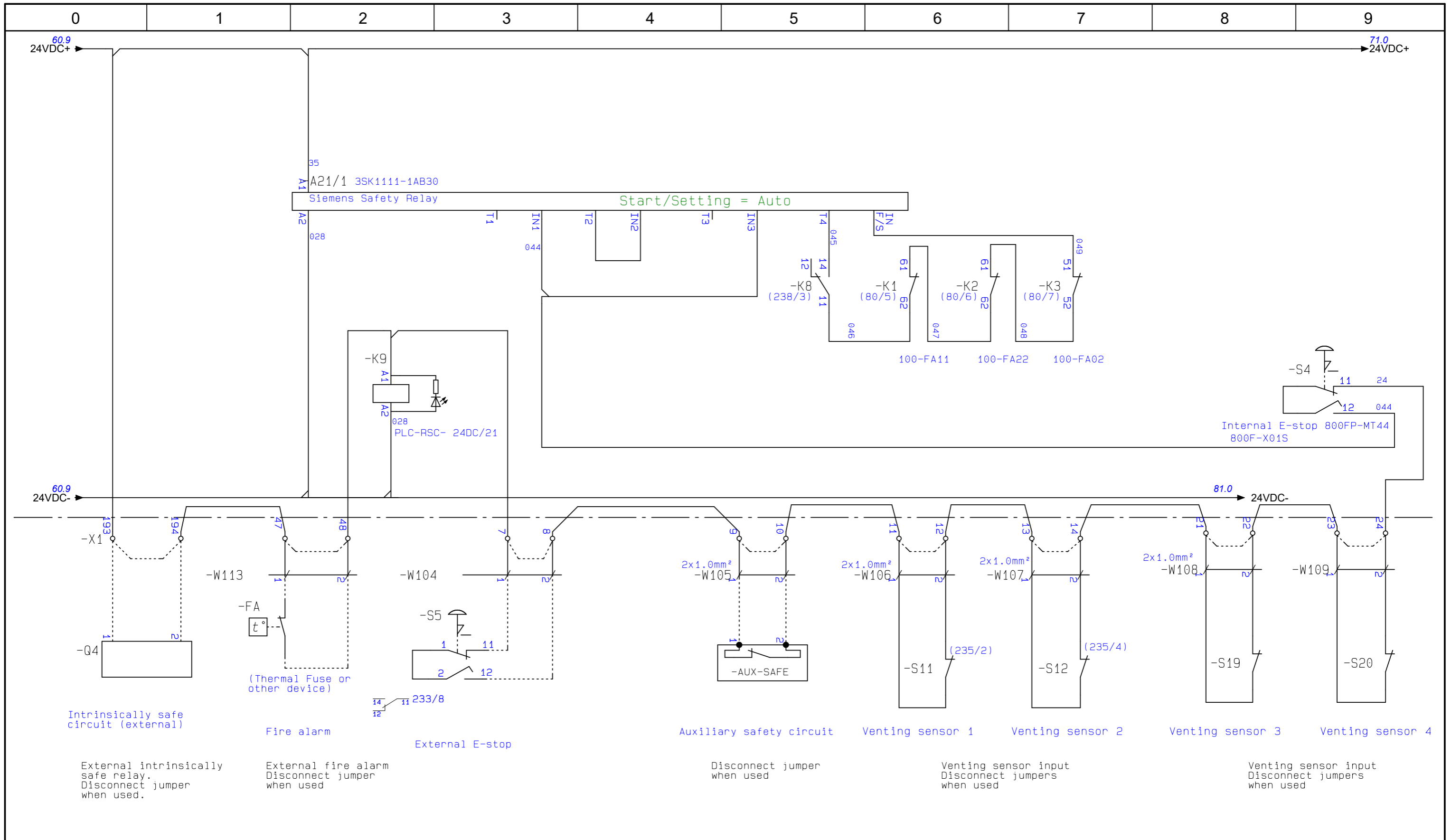
-G1
 6EP1333-1LB00
 PSU 24V, 5A

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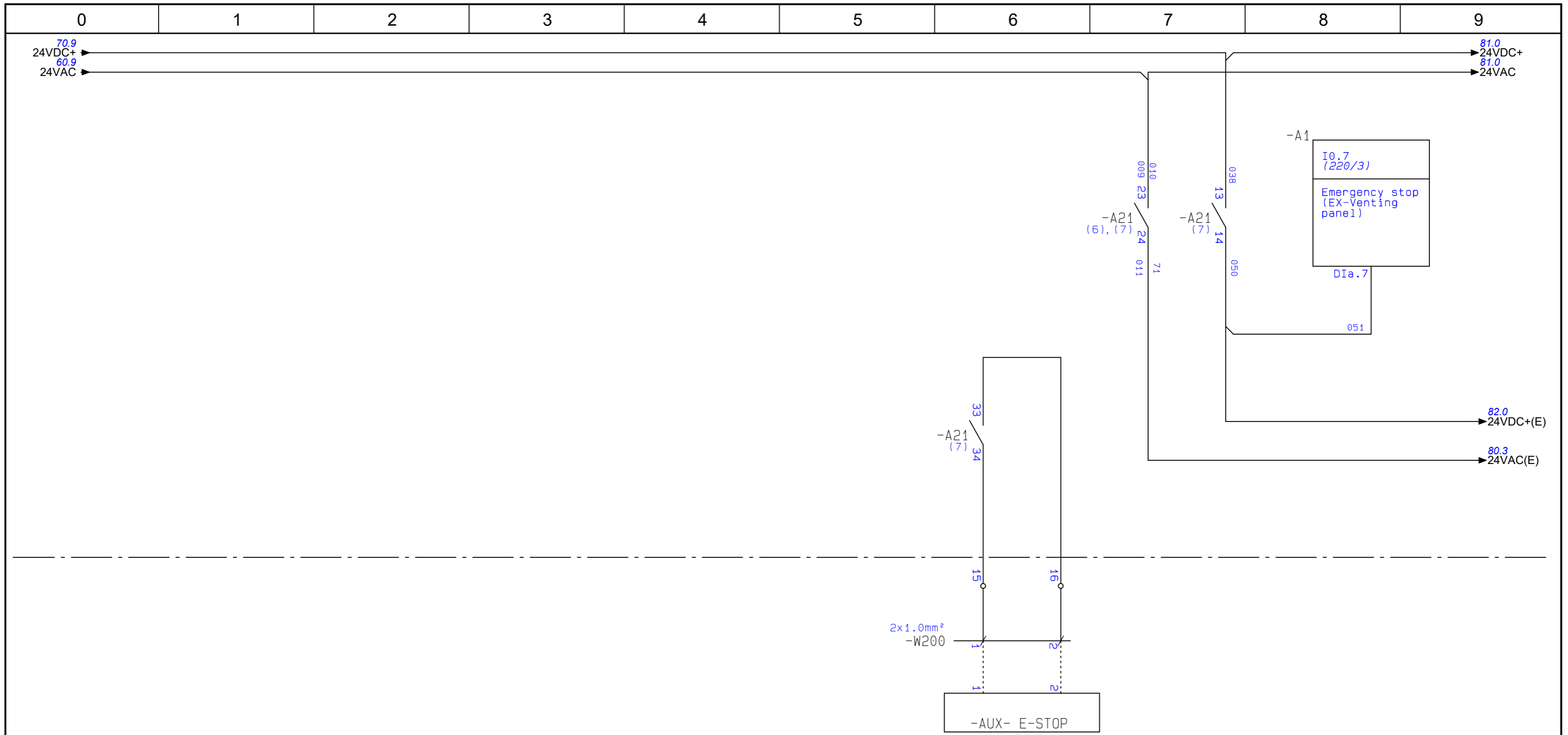
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**EMERGENCY STOP
CIRCUIT**

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E-Stop signal to external control panel

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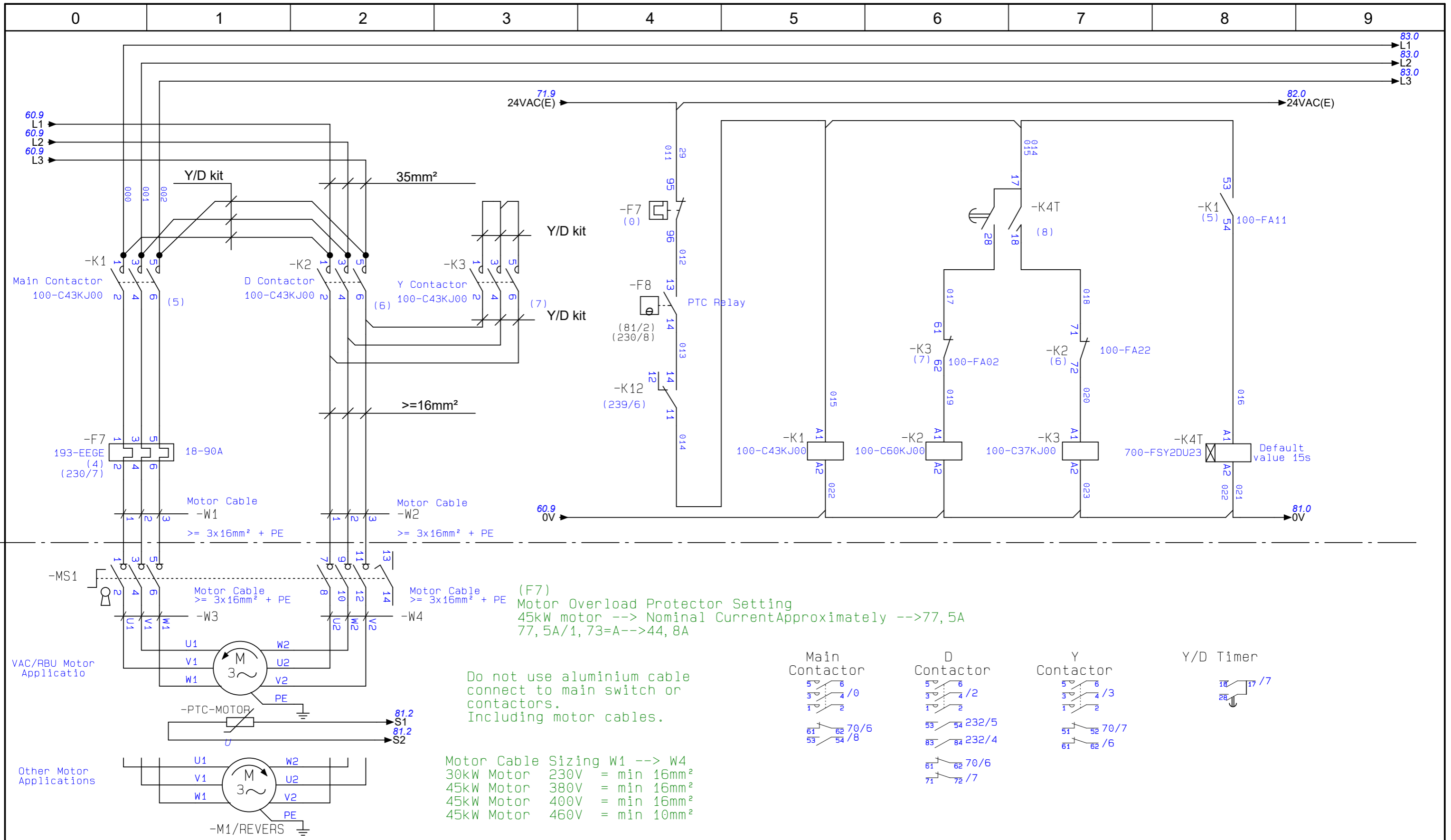
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**EMERGENCY STOP
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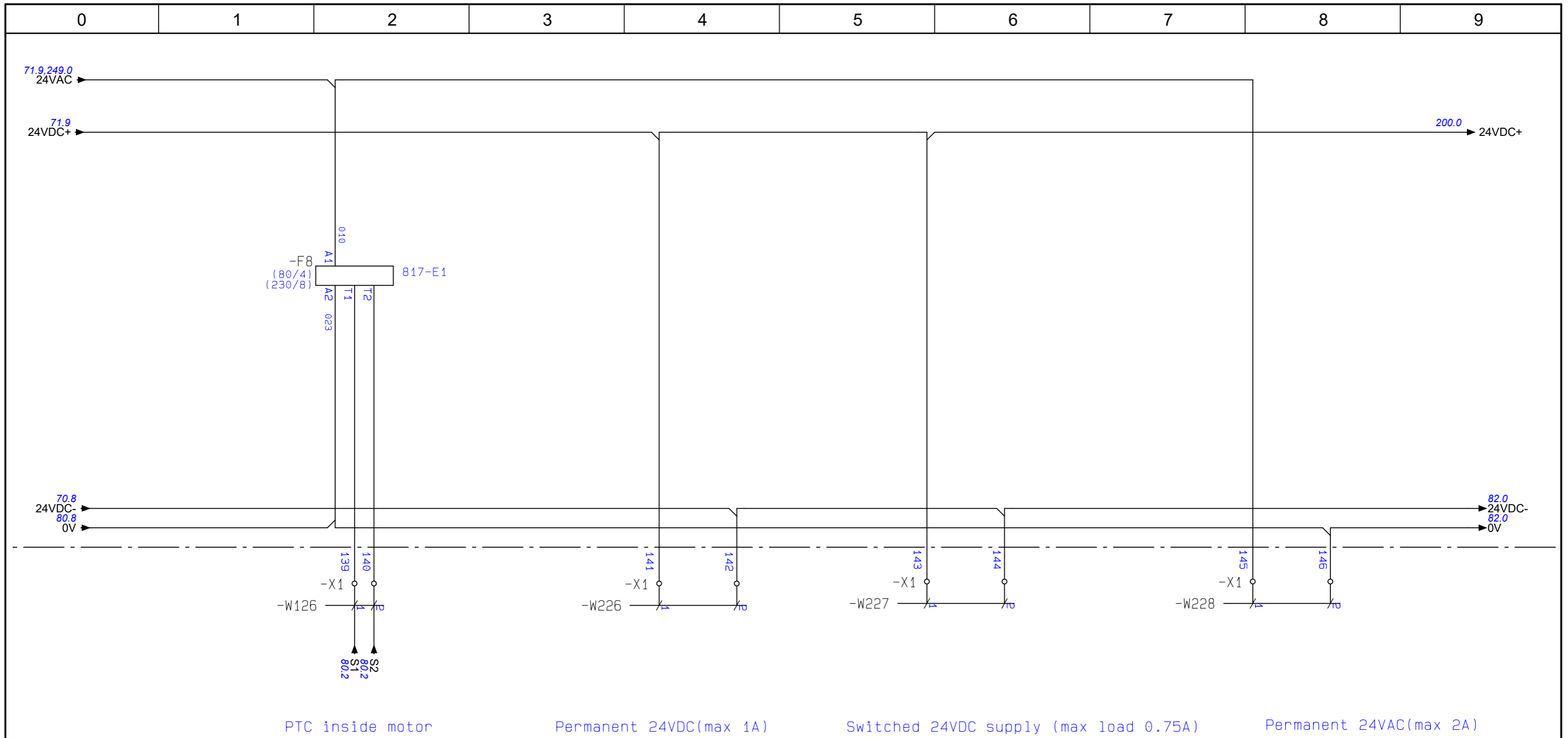
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MOTOR Y-D START

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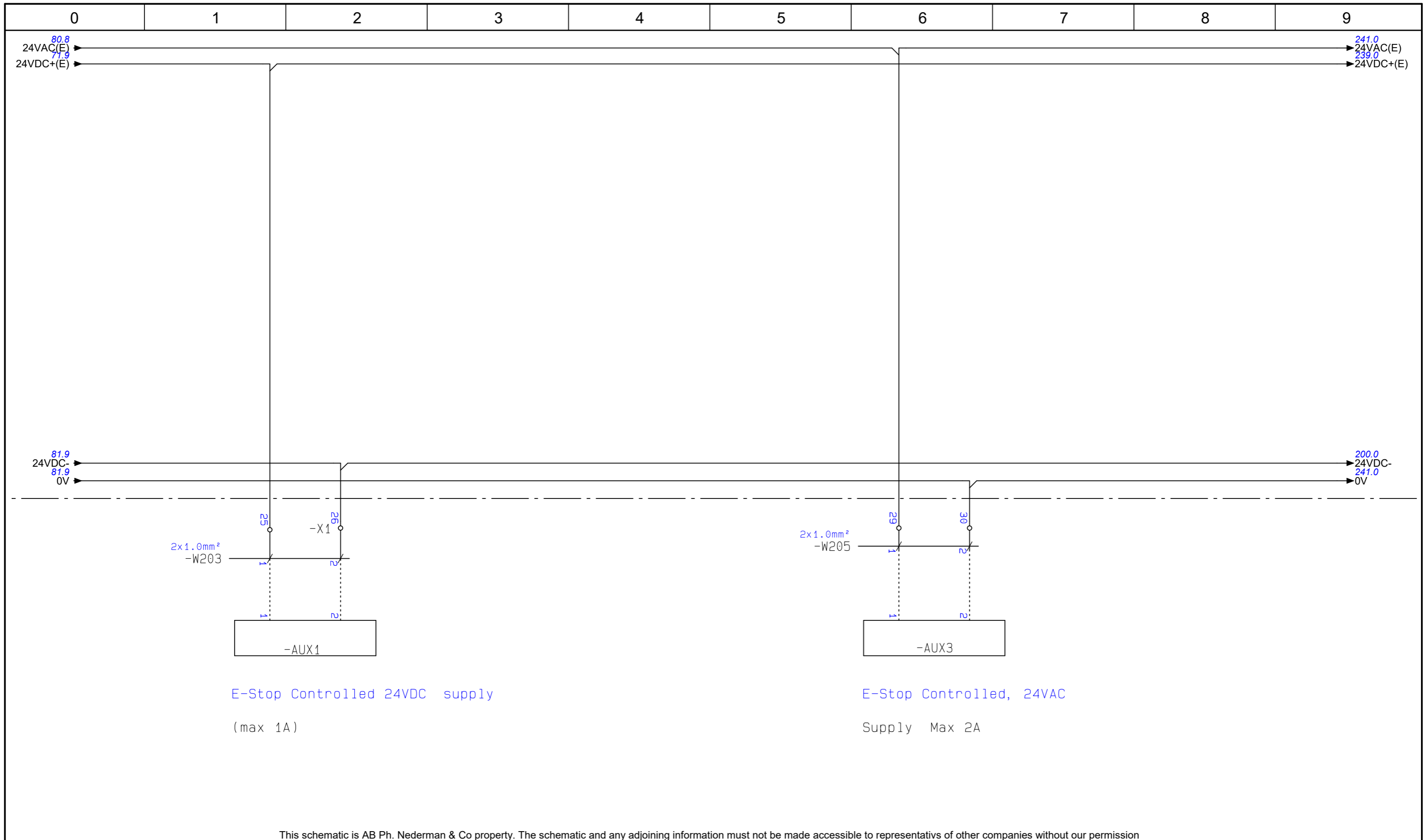
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MOTOR PTC
SENSOR

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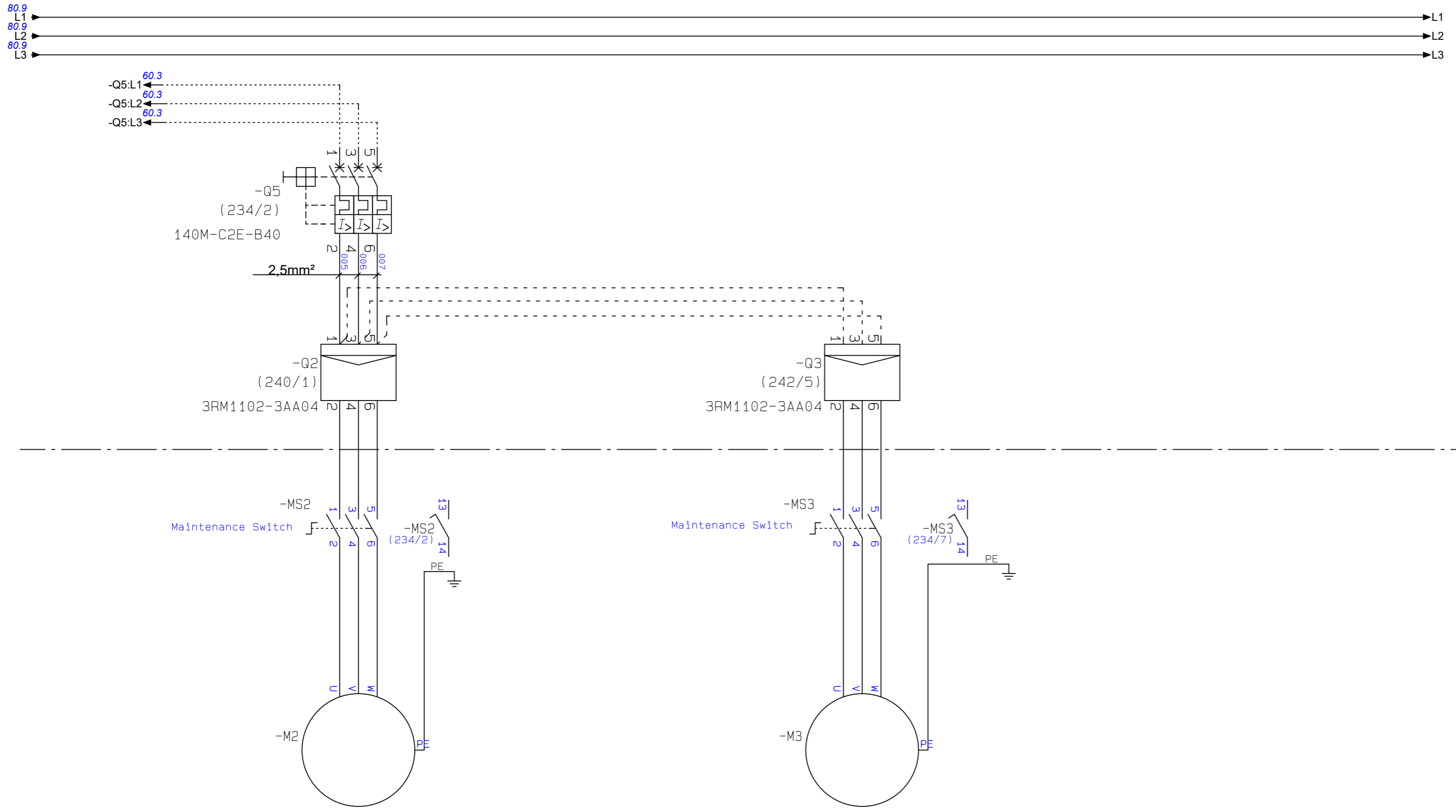
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POWER SUPPLY
24VAC/24VDC

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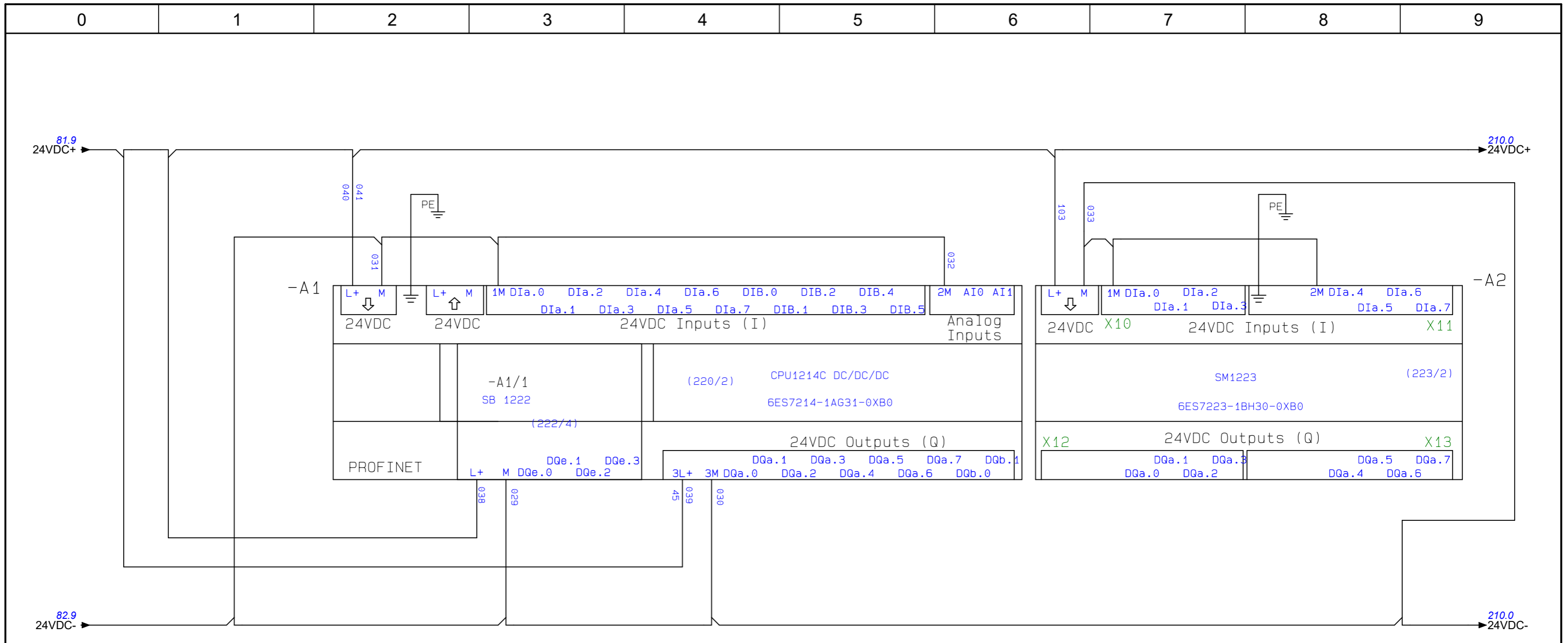
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**ROTARY VALVE
POWER**

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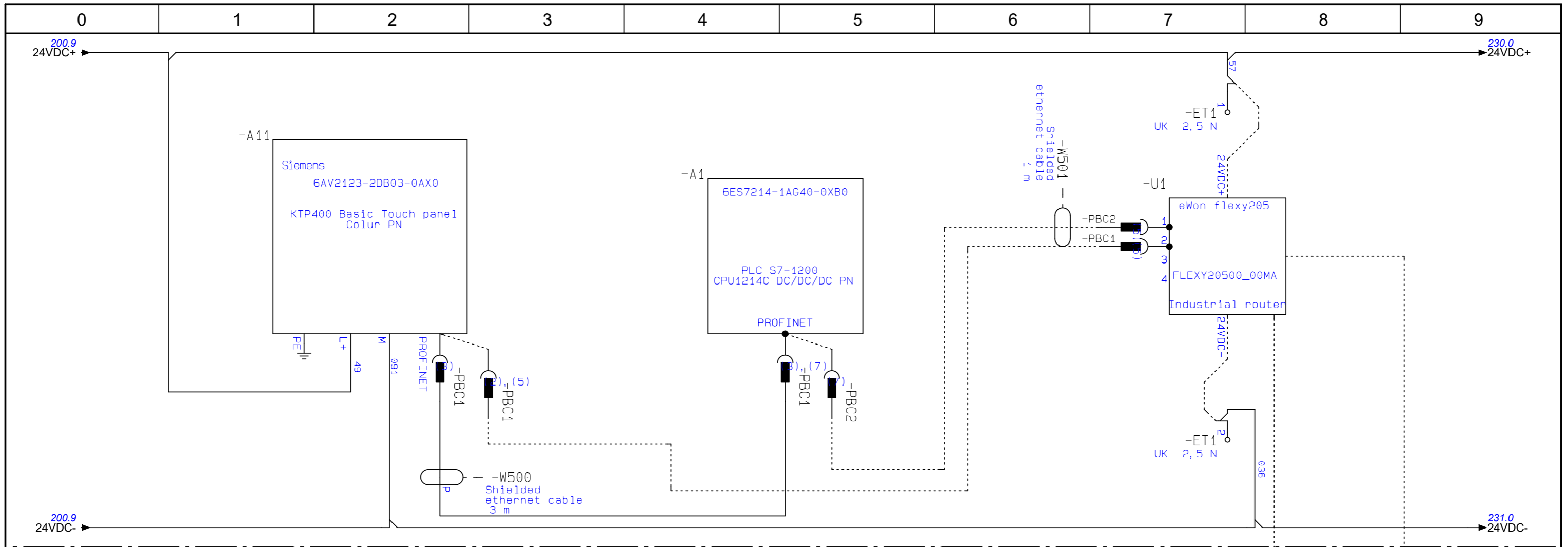
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PLC
POWER SUPPLY

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When U1 not installed:
PBC1 between A1 and A11 (3 m)

When U1 installed:
PBC1 between A11 and U1 (3 m)
PBC2 between A1 and U1 (1 m)

Note: When installing router,
disconnect wires from terminals
ET1 and ET2 and connect to router.
Remove ET1 and ET2.

Antenna mounted externally

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HMI PANEL

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| | | |
|--------------------|--|--------------|
| CPU1214C DC/DC/DC | | (200/4), (7) |
| I0.0 (230/2) | Pilot Signal (PS) | DIa.0 |
| I0.1 (230/5) | Compressed air switch (CAS) | DIa.1 |
| I0.2 (230/7) | Thermal switches (TS) | DIa.2 |
| I0.3 (230/8) | Motor protector +(PTC (EX)) | DIa.3 |
| I0.4 (231/1) | Level indicator on dust bin (BLI) | DIa.4 |
| I0.5 | Main filter DPS Configurable (DFC-OBM alarm (when no replica)) | DIB.5 |
| I0.6 (231/9) | Remote St.By/Off/OTTr | DIa.6 |
| I0.7 (71/8) | Emergency stop (EX-Venting panel) | DIa.7 |
| I1.0 (232/2) | Maintenance switch | DIB.0 |
| I1.1 (232/6) | Closing function in D-mode | DIB.1 |
| I1.2 (232/8) | Level Indicator (LI) (Emptying on demand) Configurable | DIB.2 |
| I1.3 (233/0) | Control filter DPS 1 Configurable | DIB.3 |
| I1.4 (233/6) | Manual emptying TVFD/AEB (NS) | DIB.4 |
| I1.5 (233/8) | Fire Alarm | DIB.5 |
| 6ES7214-1AG40-0XB0 | | |

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| | | |
|--------------------|---|--------------|
| CPU1214C DC/DC/DC | | (2), (221/3) |
| Q0.0 (238/3) | NoAlarm (Reset Safety circ.) | DQa.0 |
| Q0.1 (238/5) | Alarm message lamp lamp in front panel | DQa.1 |
| Q0.2 (238/8) | Warning DPS BLI and LI (relay is energized at warnig active) | DQa.2 |
| Q0.3 (239/2) | Filter Cleaning Valve V1 dust collector Configurable FlexF 13/18 v1 (replica) | DQa.3 |
| Q0.4 (239/4) | Filter Cleaning Valve V2 dust collector Configurable FlexF 13/18 v1 (replica) | DQa.4 |
| Q0.5 (239/6) | Run(Start motor) | DQa.5 |
| Q0.6 (239/8) | Solenoid V10 in vacuum unit (Start up valve / Idling (RBU)) | DQa.6 |
| Q0.7 (240/3) | Upper solenoid V11 TVFD 1 Configurable | DQa.7 |
| Q1.0 (240/5) | Lower solenoid V12 TVFD 1 Emptying AEB; Configurable | DQb.0 |
| Q1.1 (240/8) | On/standby lamp (external) | DQb.1 |
| 6ES7214-1AG40-0XB0 | | |

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| | | | | | | | |
|---|--|----------------------------|-----|----------------|--|-----|--|
| CPU1214C DC/DC/DC | (220/7), (248/3) | | | | | | |
| <table style="width:100%; border:none;"> <tr> <td style="width:30%;">AI0 (248/3)</td> <td style="width:40%;">(ASC) Current Sensor</td> <td style="width:30%; text-align:right;">AI0</td> </tr> <tr> <td>AI1 (248/6)</td> <td>Vacuum Sensor input dP FlexFilter 13/18</td> <td style="text-align:right;">AI1</td> </tr> </table> | AI0 (248/3) | (ASC) Current Sensor | AI0 | AI1 (248/6) | Vacuum Sensor input dP FlexFilter 13/18 | AI1 | |
| AI0 (248/3) | (ASC) Current Sensor | AI0 | | | | | |
| AI1 (248/6) | Vacuum Sensor input dP FlexFilter 13/18 | AI1 | | | | | |
| 6ES7214-1A631-0XB0 | | | | | | | |

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| | |
|--------------------|--|
| SB 1222 | (200/3) |
| 4.00 (241/2) | Config output K19 ASC move/Flush 1 DQe.0 |
| 4.01 (241/4) | Config output K20 ASC open/Flush 2 DQe.1 |
| 4.02 (241/6) | LCC start DQe.2 |
| 4.03 (241/9) | MUX AI0 Current AI1 Pressure DQe.3 |
| 6ES7222-1BD30-0XB0 | |

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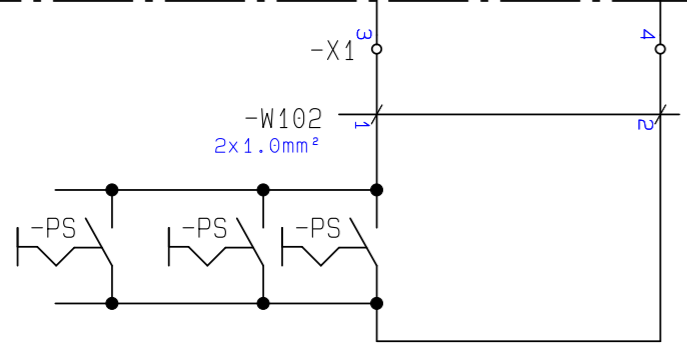
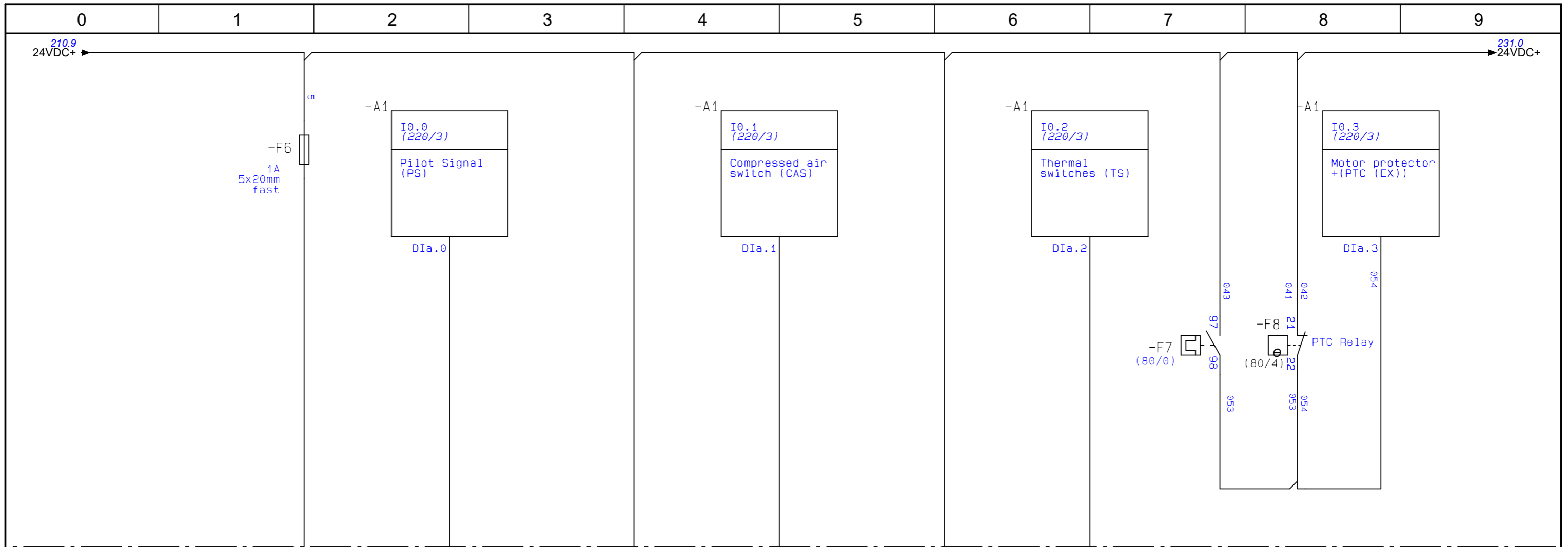
-A2

| | | |
|--------------------|--------------------------------------|--------------|
| SM1223 | | (200/8), (7) |
| I8.0 (234/1) | TVFD1 limit switch upper closed | DIa.0 |
| I8.1 (234/3) | TVFD1 limit switch lower closed | DIa.1 |
| I8.2 (234/5) | TVFD 2 Limit Switch Upper closed | DIa.2 |
| I8.3 (234/8) | EX Locked Isolation valve 1 | DIa.3 |
| I8.4 (235/1) | Venting panel sensor 1 | DIa.4 |
| I8.5 (235/3) | Venting panel sensor2 | DIa.5 |
| I8.6 (235/5) | CF-DPS2(Control Filter DP switch 2) | DIa.6 |
| I8.7 (235/7) | TVFD2 Limit Switch Lower closed | DIa.7 |
| 6ES7223-1BH30-0XB0 | | |

-A2

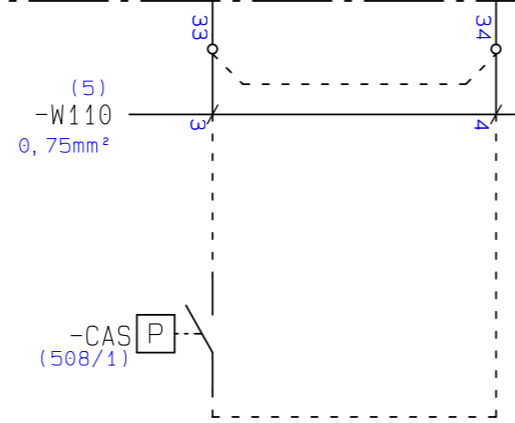
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| SM 1223 | | (2) |
| Q8.0 (242/2) | EX panel tripped | DQa.0 |
| Q8.1 (242/6) | TVFD 2 upper valve | DQa.1 |
| Q8.2 (242/8) | TVFD 2 Lower valve | DQa.2 |
| Q8.3 (243/2) | N-S Button lamp | DQa.3 |
| Q8.4 (243/5) | Flush valve1 | DQa.4 |
| Q8.5 (243/8) | Flush valve2 | DQa.5 |
| Q8.6 (244/2) | Flush valve3 | DQa.6 |
| Q8.7 (244/5) | Flush valve4 | DQa.7 |
| 6ES7223-1BH30-0XB0 | | |

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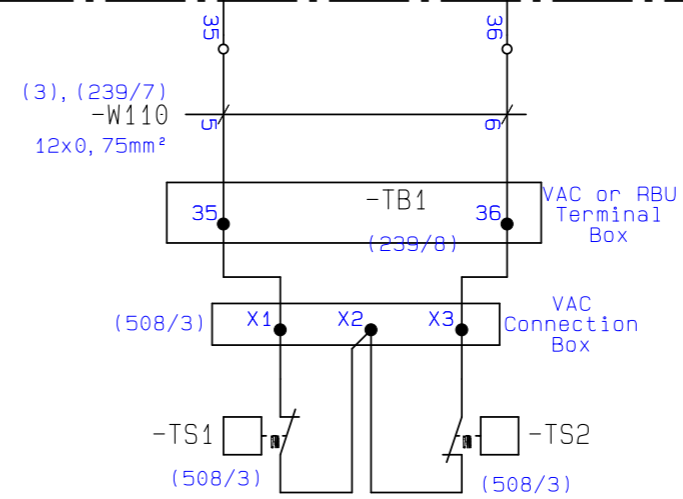
Pilot Signal

All connected in parallel
 Maximum length Signal Cable
 Unshielded =300m
 Shielded =500m



(CAS) Open = P<3Bar

Compressed air switch (CAS)
 Open = P<3Bar



Motor overload relay

Thermal Switch on VAC Bearing = Resettable
 Thermal Fuse =Max 140C on RBU:pump outlet Not Resettable

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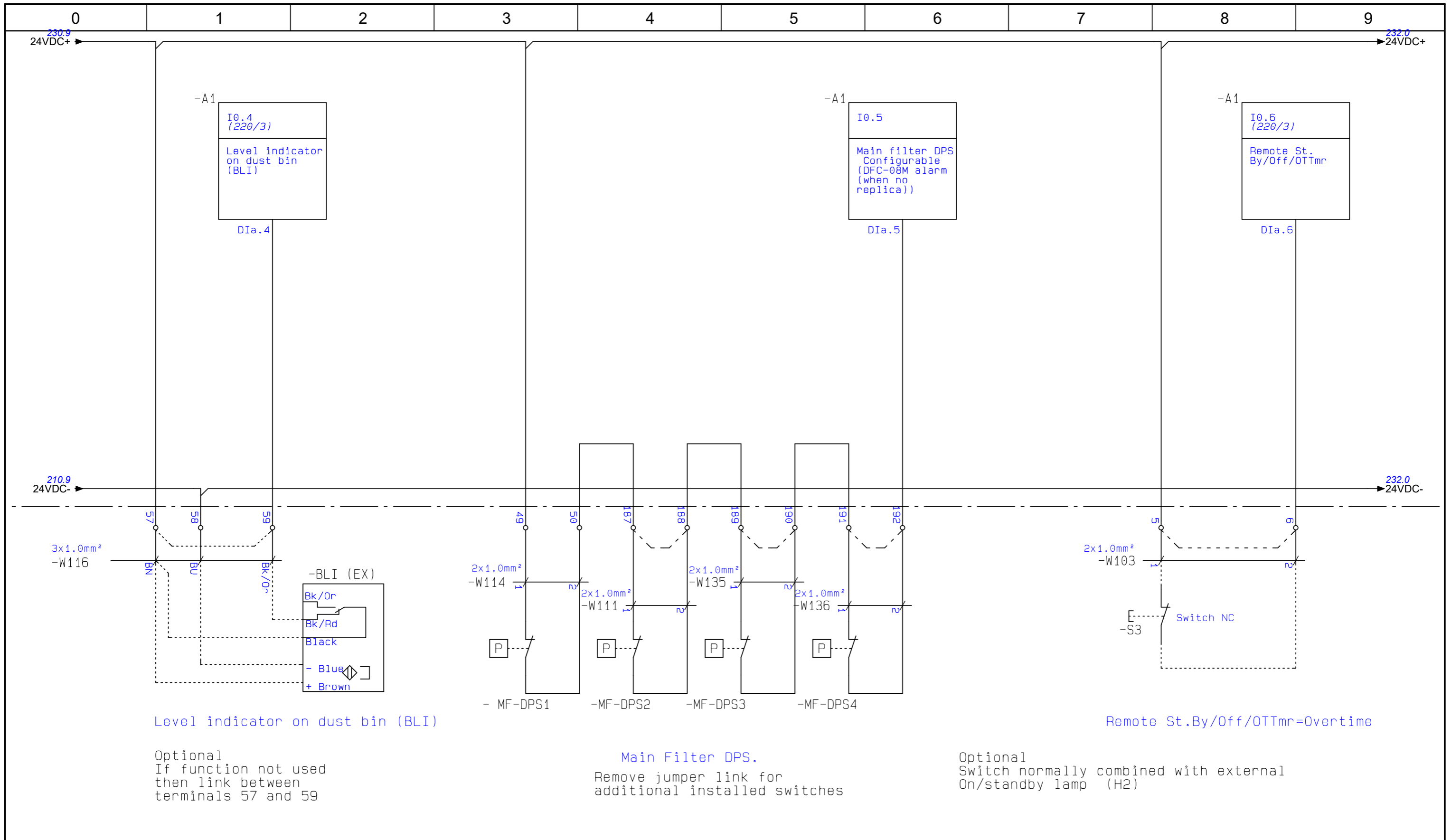
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| Date of approval | - | Product | Product |
| Approval by | - | Date of created | 2019/08/20 |
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 TERMINALS

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Level indicator on dust bin (BLI)

Optional
If function not used
then link between
terminals 57 and 59

Main Filter DPS.

Remove jumper link for
additional installed switches

Remote St.By/Off/OTTmr=Overtime

Optional
Switch normally combined with external
On/standby lamp (H2)

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| Approval by | - | Date of created | 2019/08/20 | |
| 230 | previous page | Author | FRALE | |

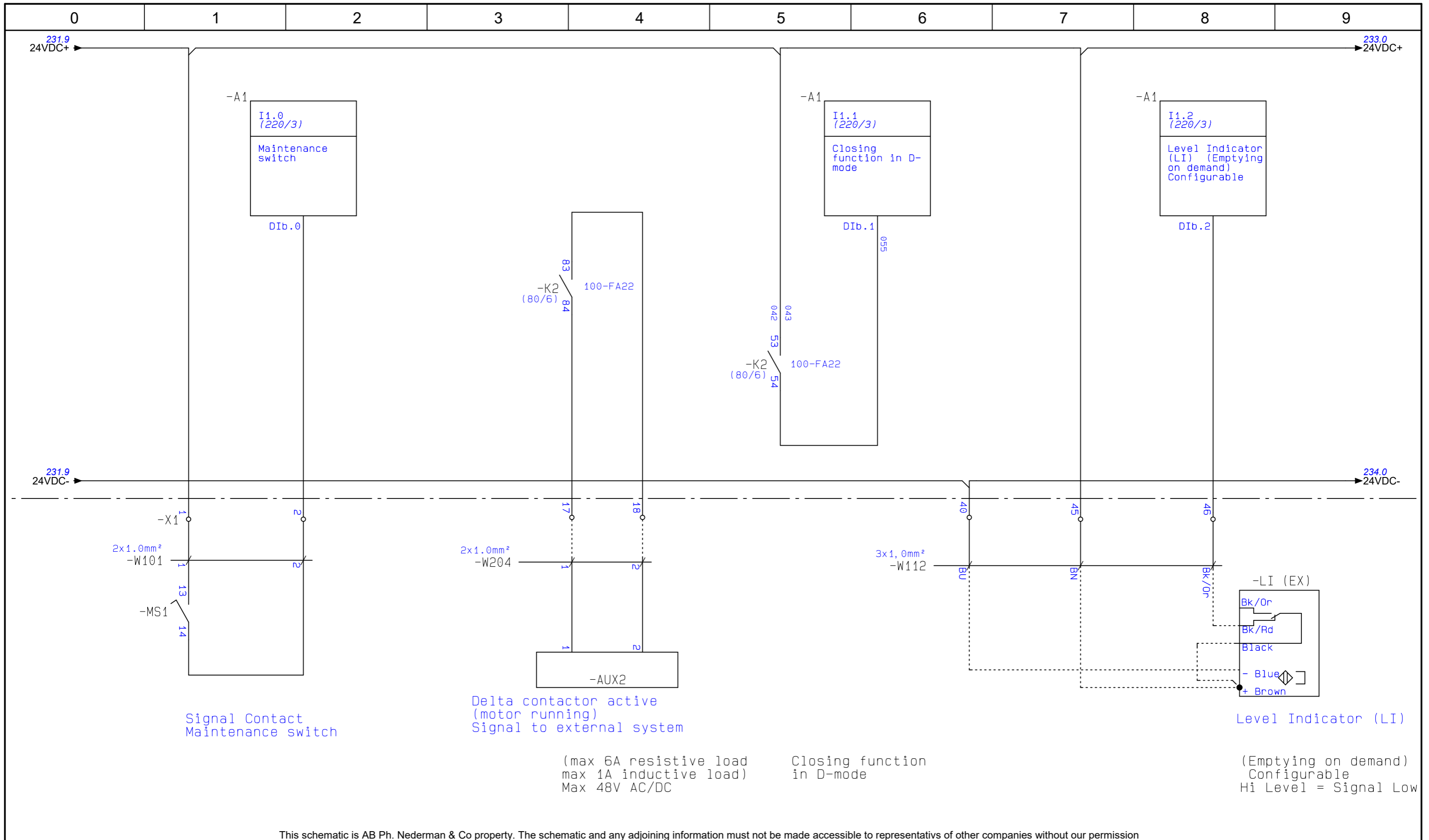


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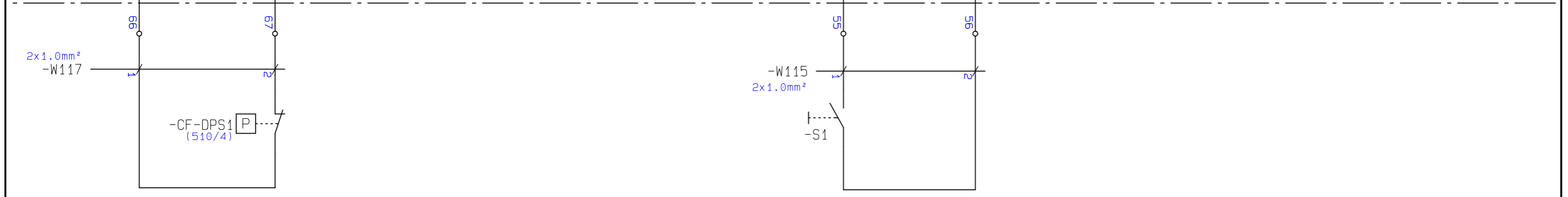
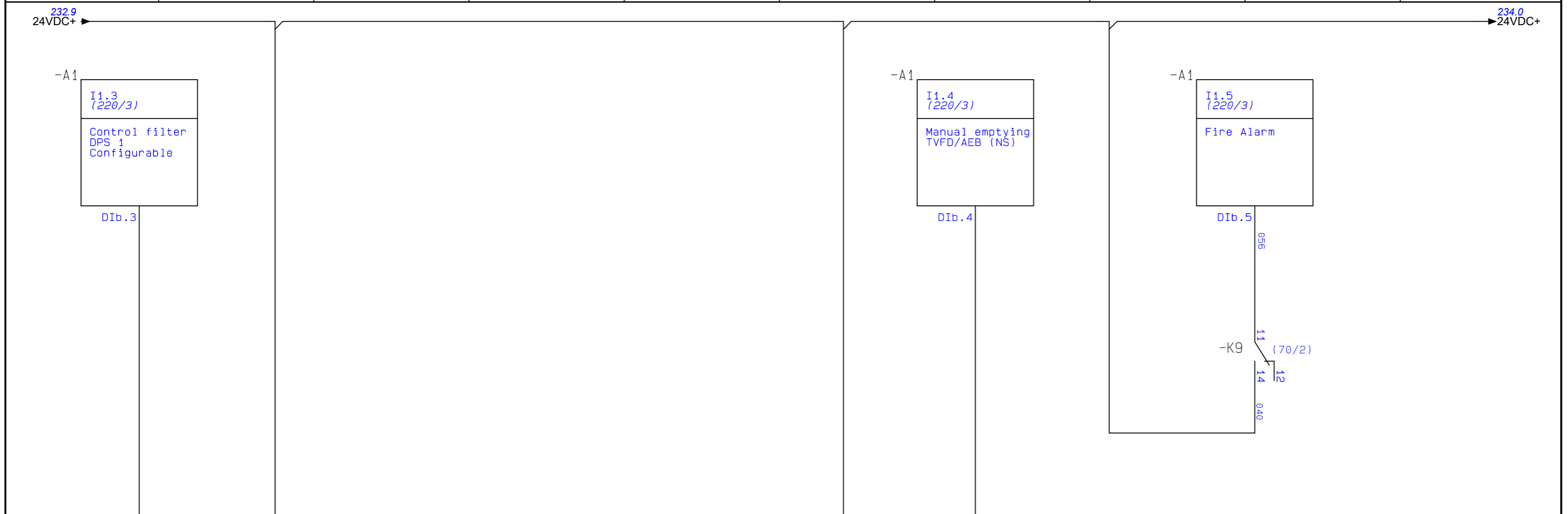
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Control filter DPS (1) - (1-2)

Manual emptying TVFD/AEB (NS)

Fire Alarm

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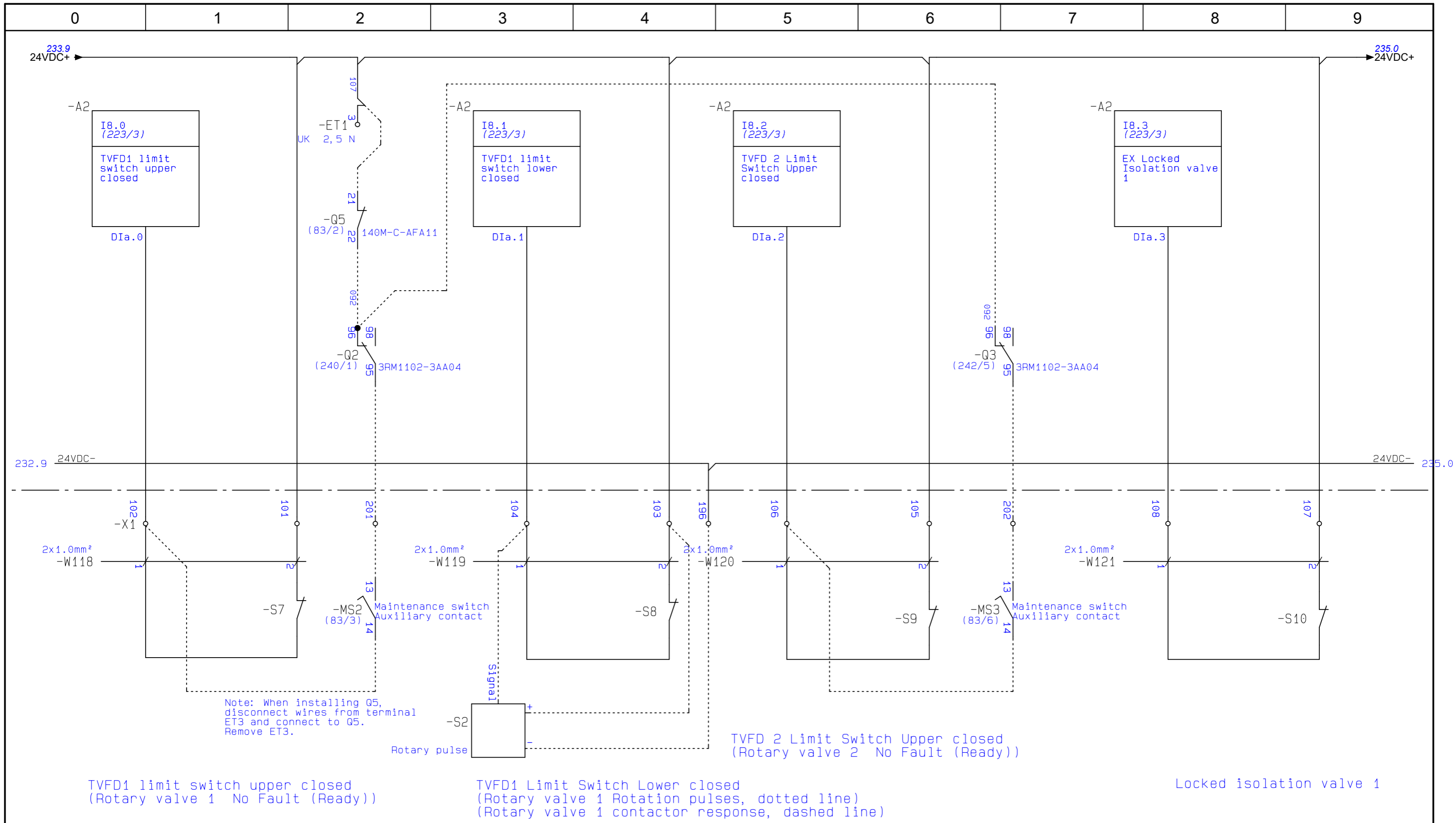
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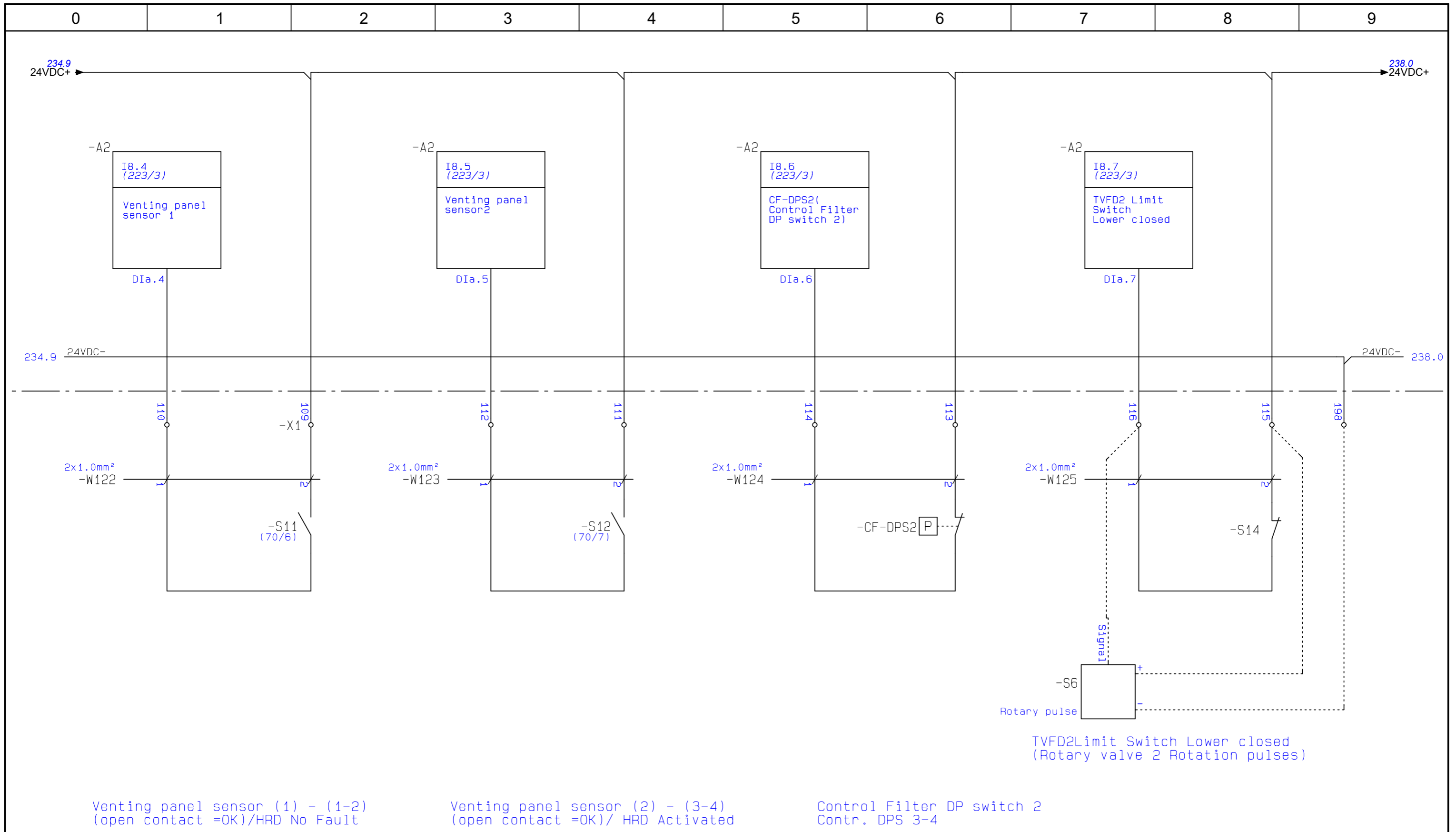
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| Approval by | - | Date of created | 2019/08/20 | |
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SM1223 (A2)
INPUT
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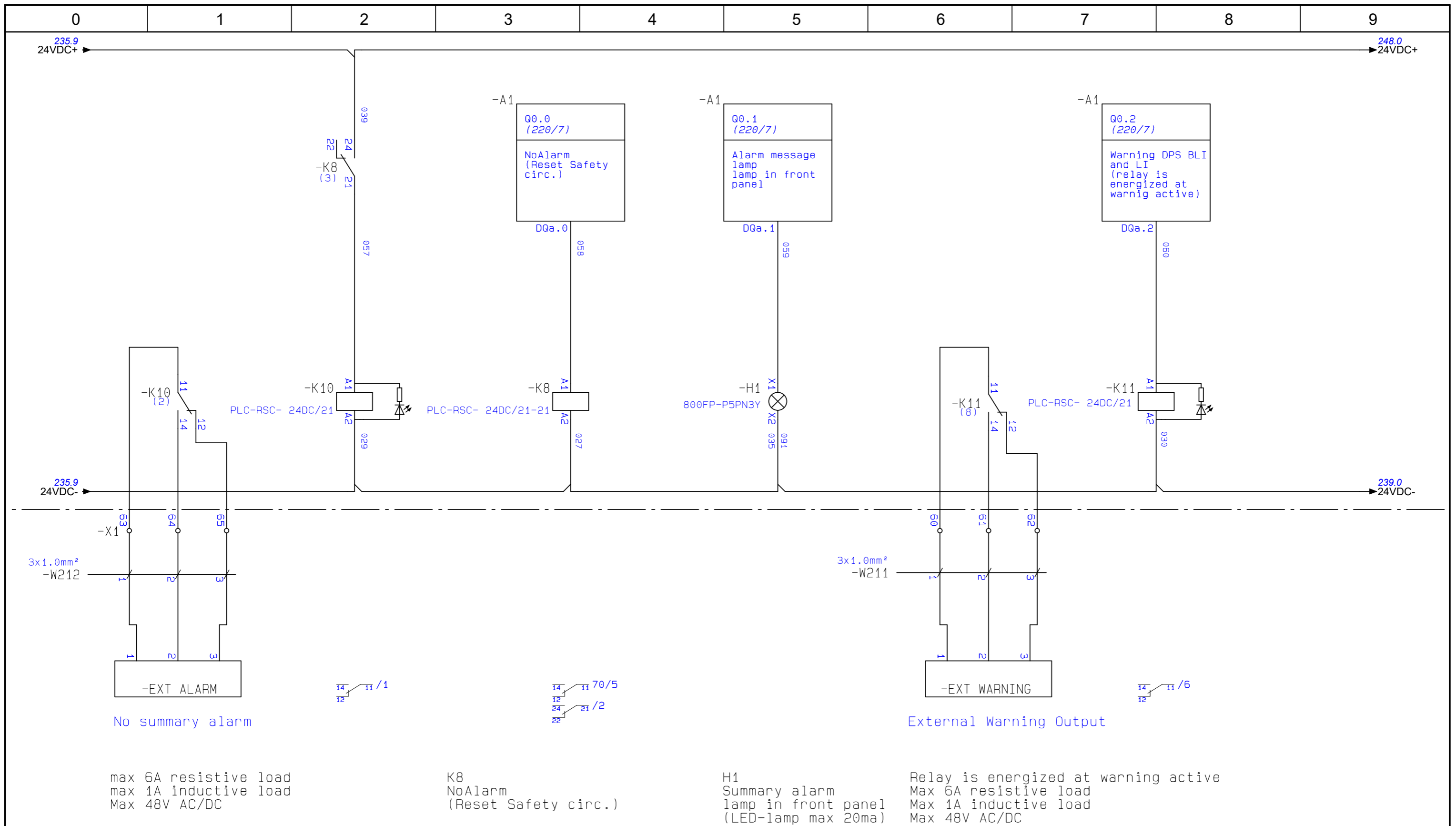
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| Approval by | - | Author | FRALE | |
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SM1223 (A2)
INPUT
TERMINALS

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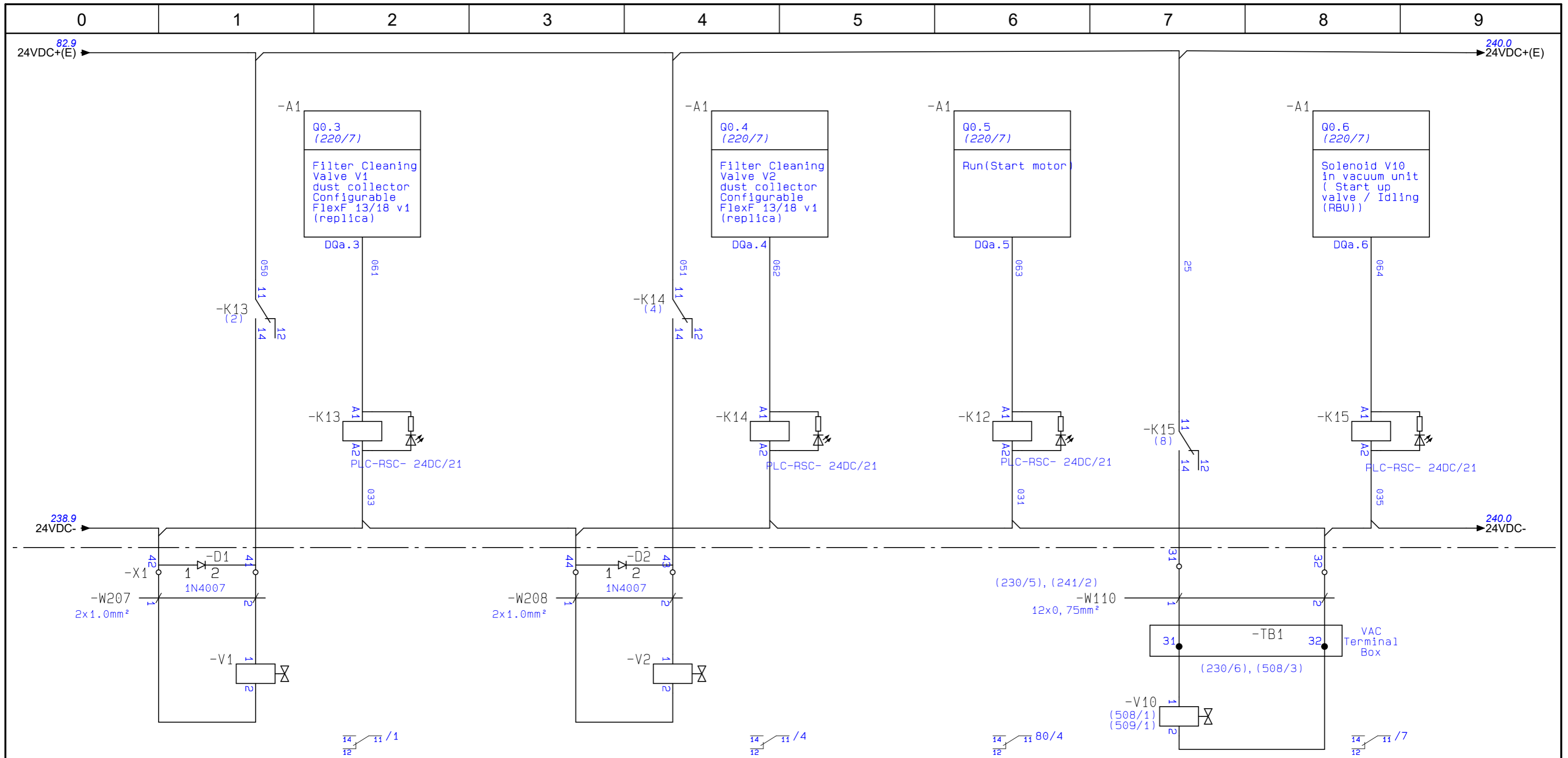
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Filter Cleaning Valve V1

Clean V1
 AEB 1 - Flush 11--Pre-Sep 1
 FlexF 13/18 v1 (replica)

Filter Cleaning Valve V2

Clean V2
 AEB 2 - Flush12 - Pre-Sep 2
 FlexF 13/18 v1 (replica)

Run(Start motor)

Solenoid valve V10 in vacuum unit

Start up valve / Idling (RBU)

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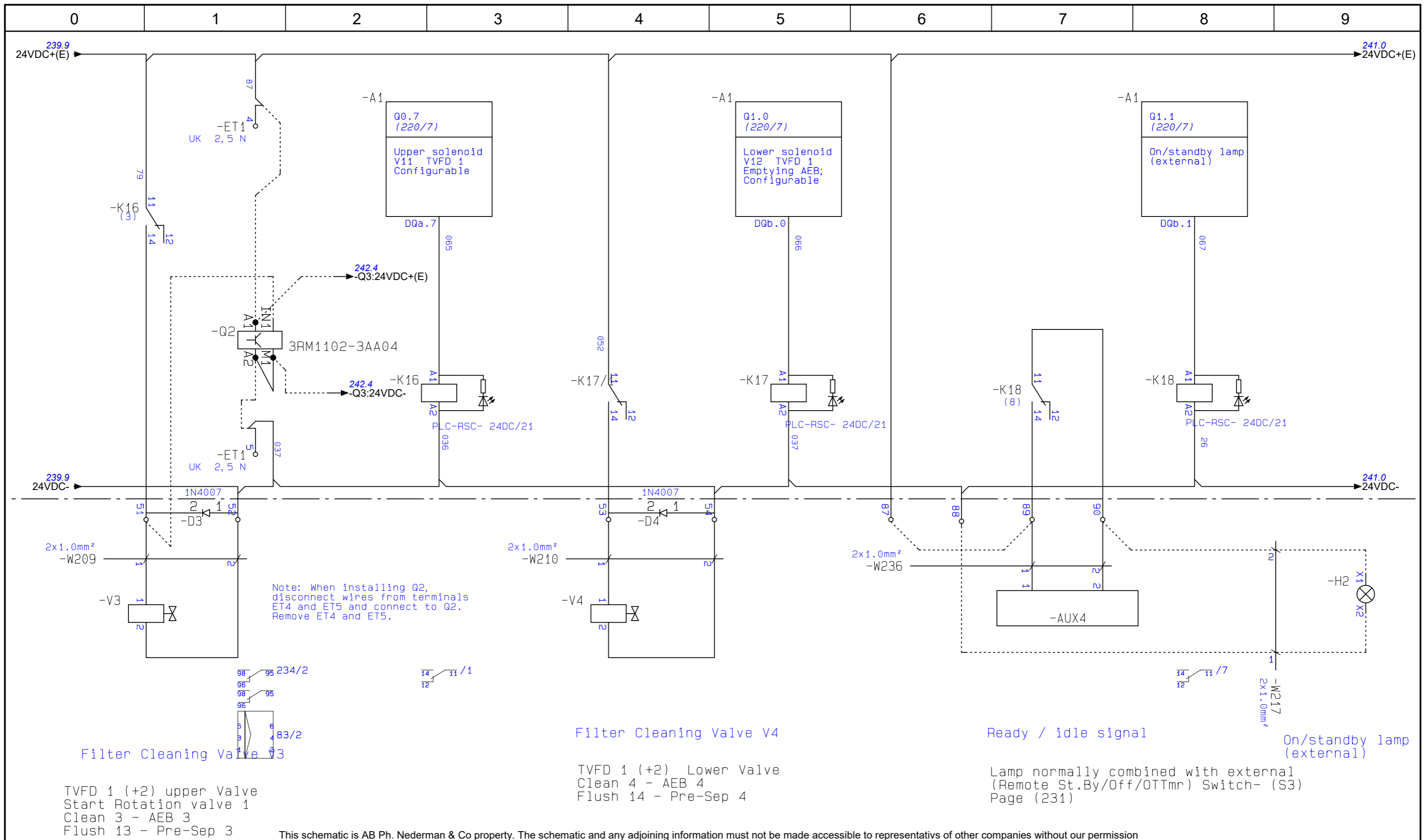
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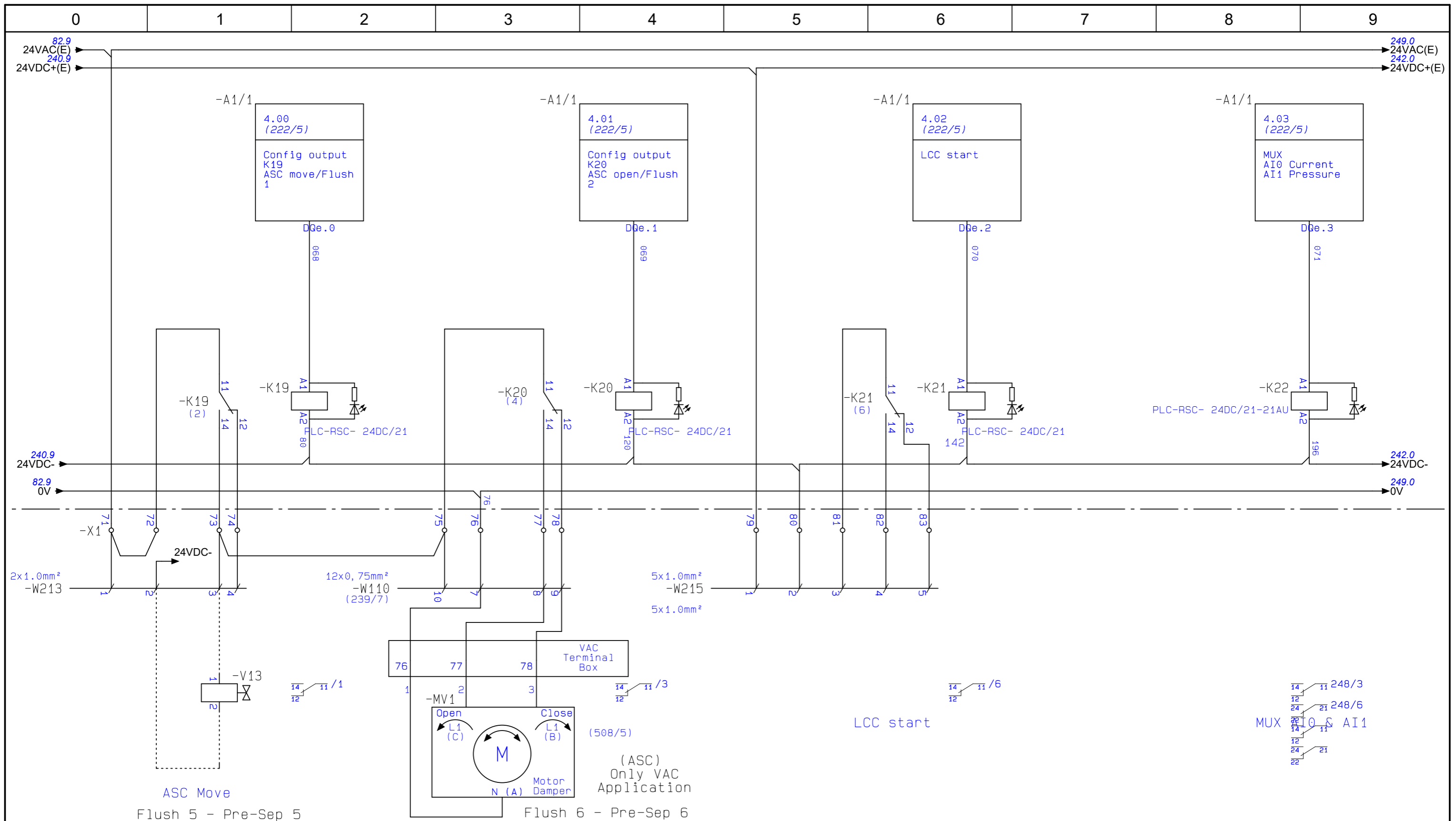
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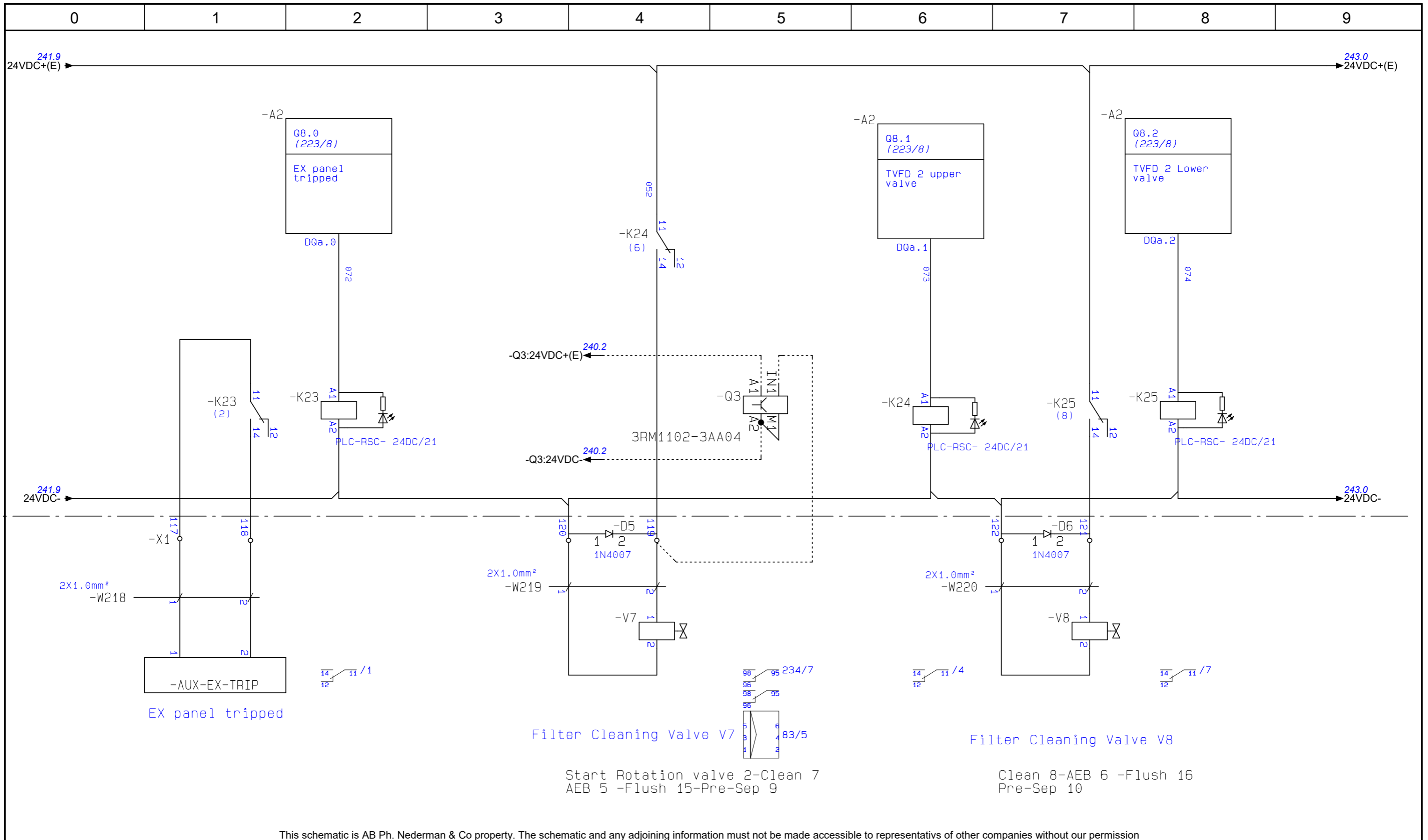
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Start Rotation valve 2-Clean 7
AEB 5 -Flush 15-Pre-Sep 9

Clean 8-AEB 6 -Flush 16
Pre-Sep 10

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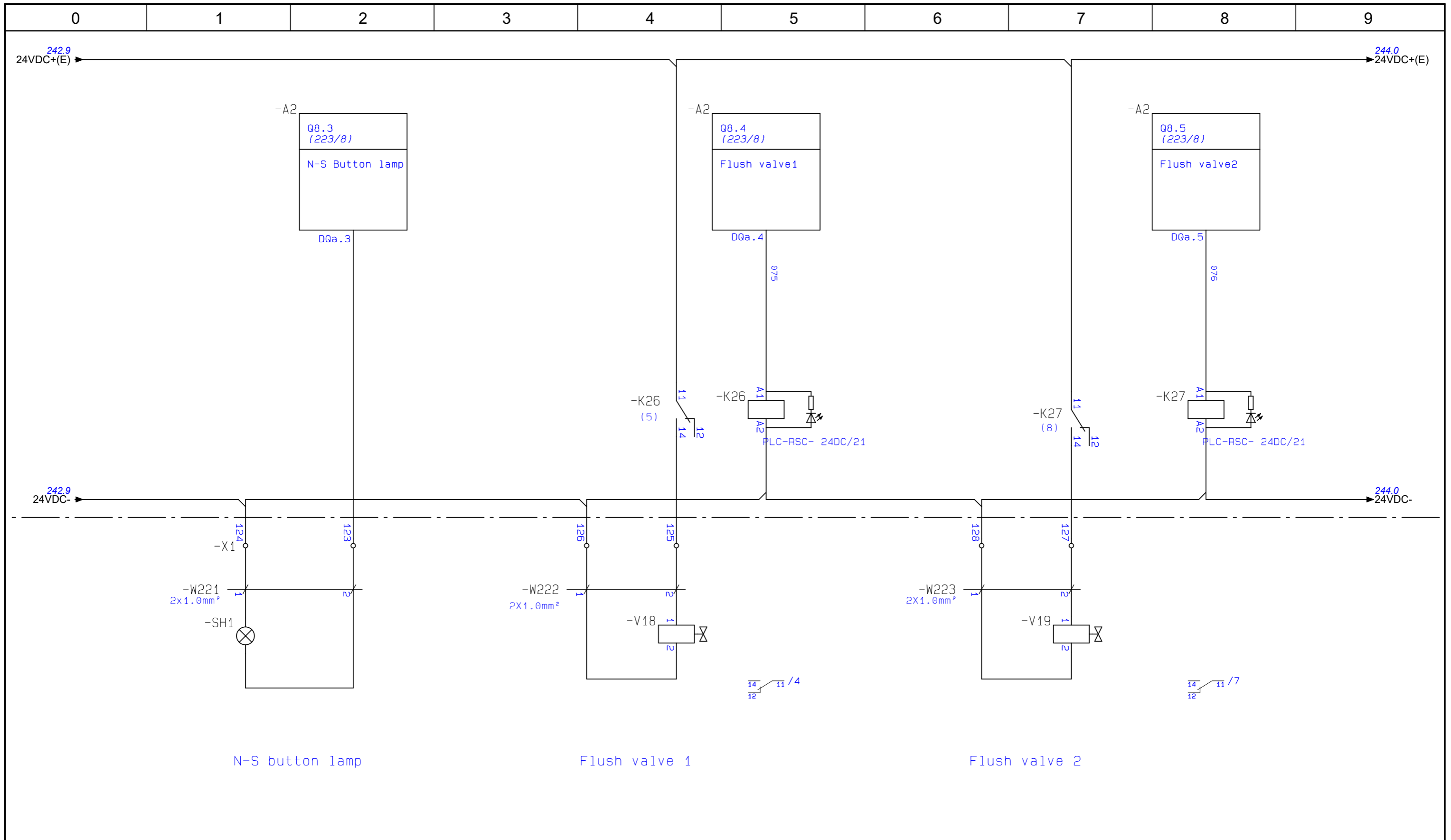
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SM1223 (A2)
OUTPUT
TERMINALS

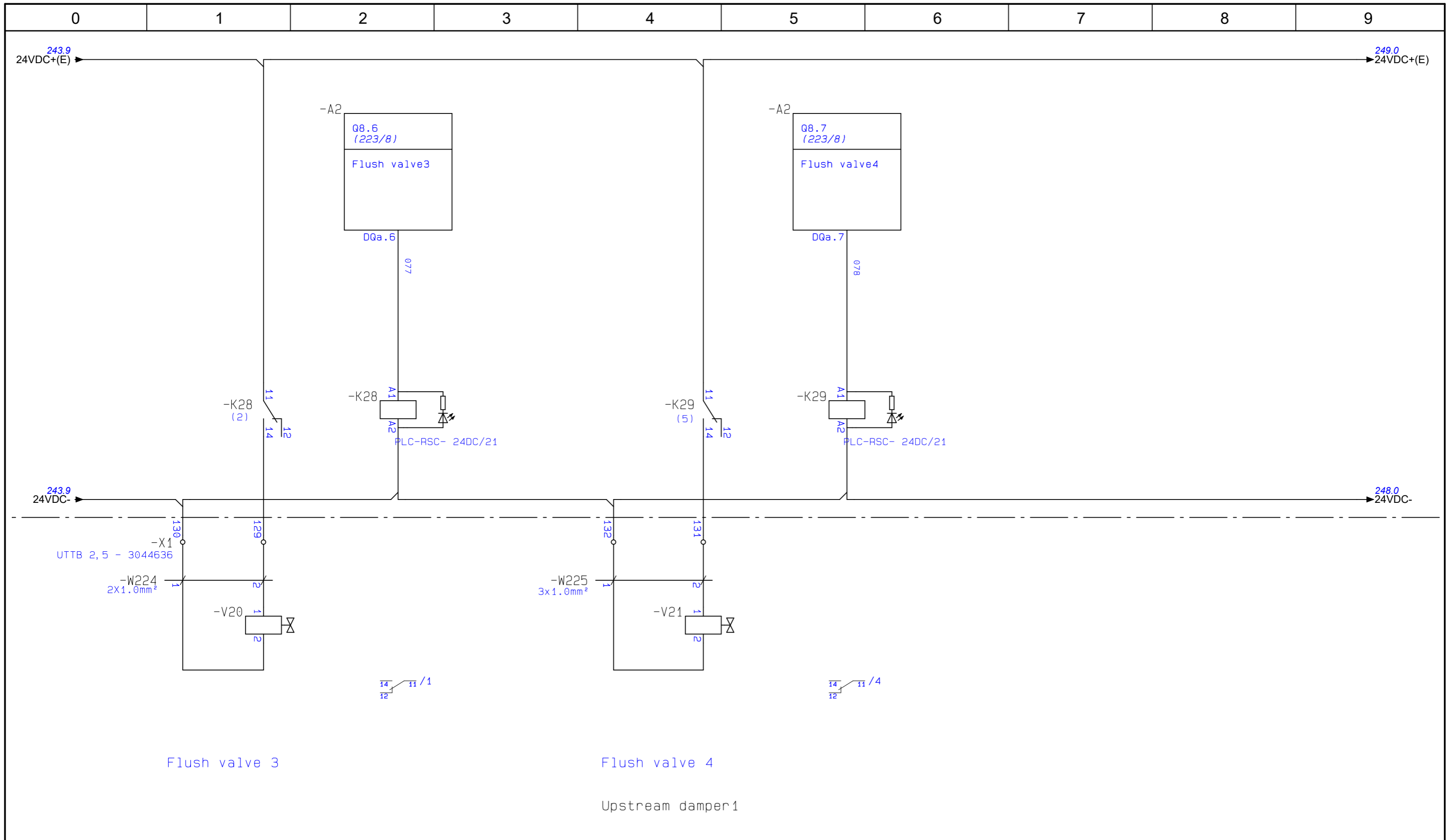
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| Status | Available | | | | | | | |
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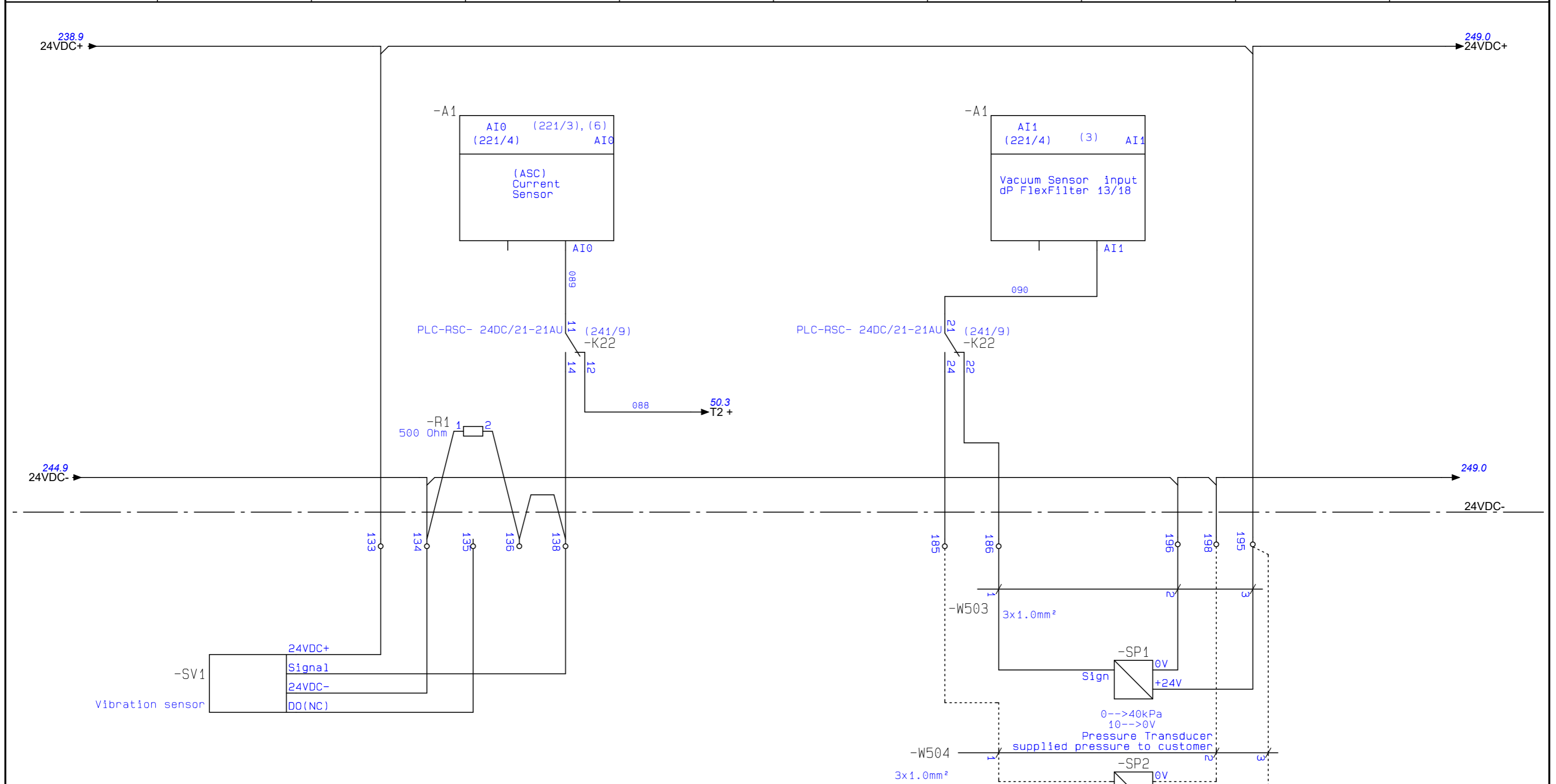
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SM1223 (A2)
OUTPUT
TERMINALS

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AI: 0
 MUX
 Motor Current Measurement
 Vibration sensor

Note: Remove jumper between
 X1:136 and X1:138 if supplied
 sensor signal is voltage 0-10 VDC

Jumper needed for signal 4..20 mA

AI: 1
 Optional:
 Pressure Transducer
 Vacuum/dP or dP/dP
 dP FlexFilter 13/18

LCC, LCC- PU This schematic is AB Ph. Nederman & Co property. The schematic and any adjoining information must not be made accessible to representatives of other companies without our permission

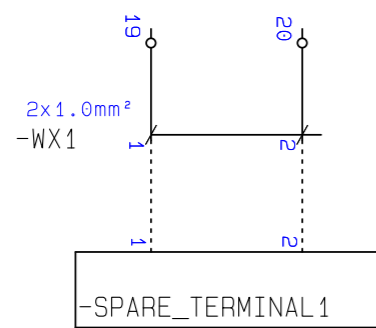
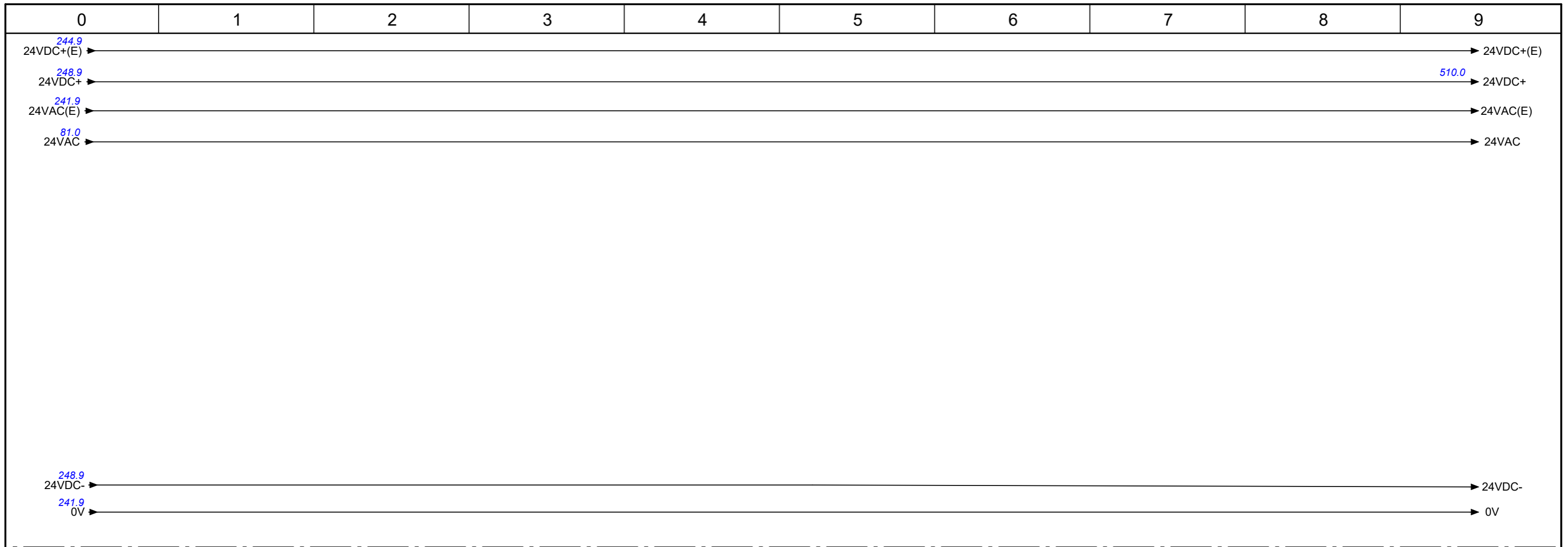
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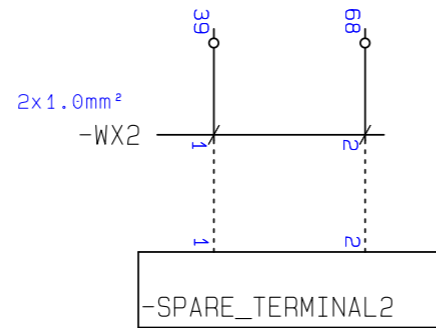
PLC 0-10V DC
 ANALOGUE
 INPUT

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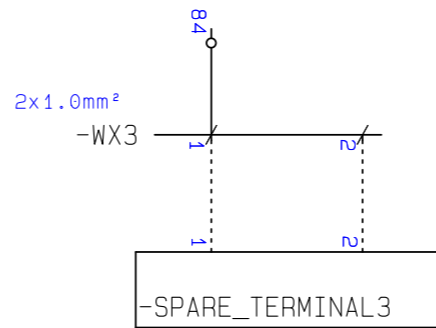
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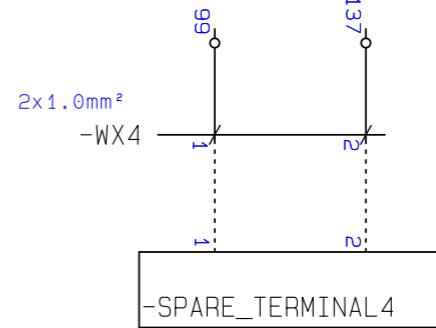
-SPARE_TERMINAL



-SPARE_TERMINAL



-SPARE_TERMINAL



-SPARE_TERMINAL

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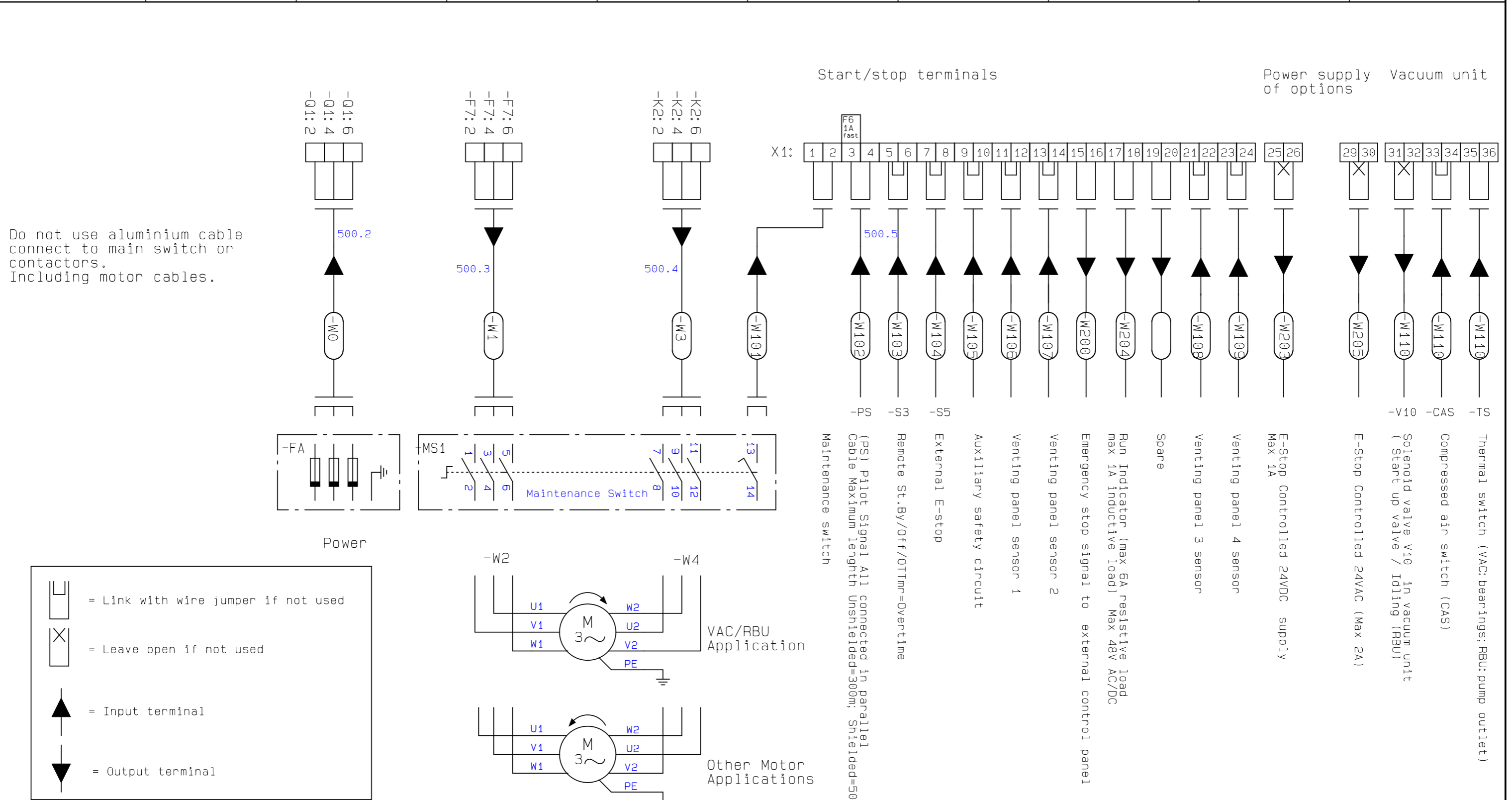


EX Spare Terminal

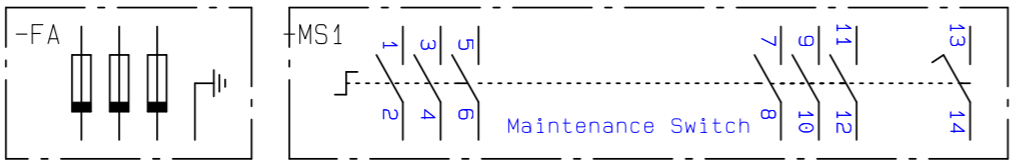
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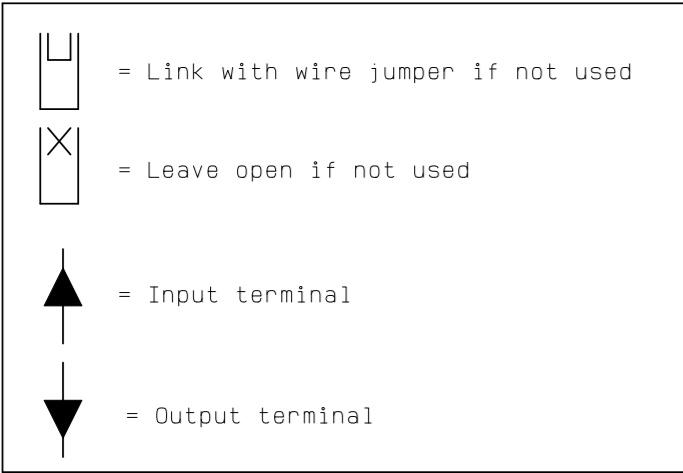
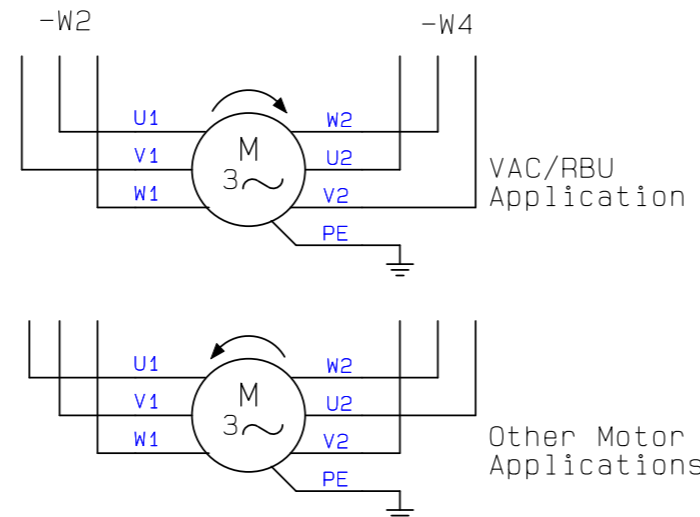
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Do not use aluminium cable connect to main switch or contactors. Including motor cables.



Power



Note1: For terminals: use minimum 1.5mm² if cable is up to 10m long, and use minimum 2.5mm² if cable is up to 20m long, large area if cable is longer. small area in a 24V system can cause a poor short-cut protection

(PS) Pilot Signal All connected in parallel Cable Maximum length Unshielded=300m; Shielded=500m
 Maintenance switch
 Remote St.By/Off/OTIm=Overtime
 External E-stop
 Auxiliary safety circuit
 Venting panel sensor 1
 Venting panel sensor 2
 Emergency stop signal to external control panel
 Spare
 Run Indicator (max 6A resistive load max 1A inductive load) Max 48V AC/DC
 Venting panel 3 sensor
 Venting panel 4 sensor
 E-Stop Controlled 24VDC supply Max 1A
 E-Stop Controlled 24VAC (Max 2A)
 Solenoid valve V10 in vacuum unit (Start up valve / Idling (RBU))
 Compressed air switch (CAS)
 Thermal switch (VAC: bearings; RBU: pump outlet)

Note2: Check tightening of all power cable connections inside enclosure before putting into service.

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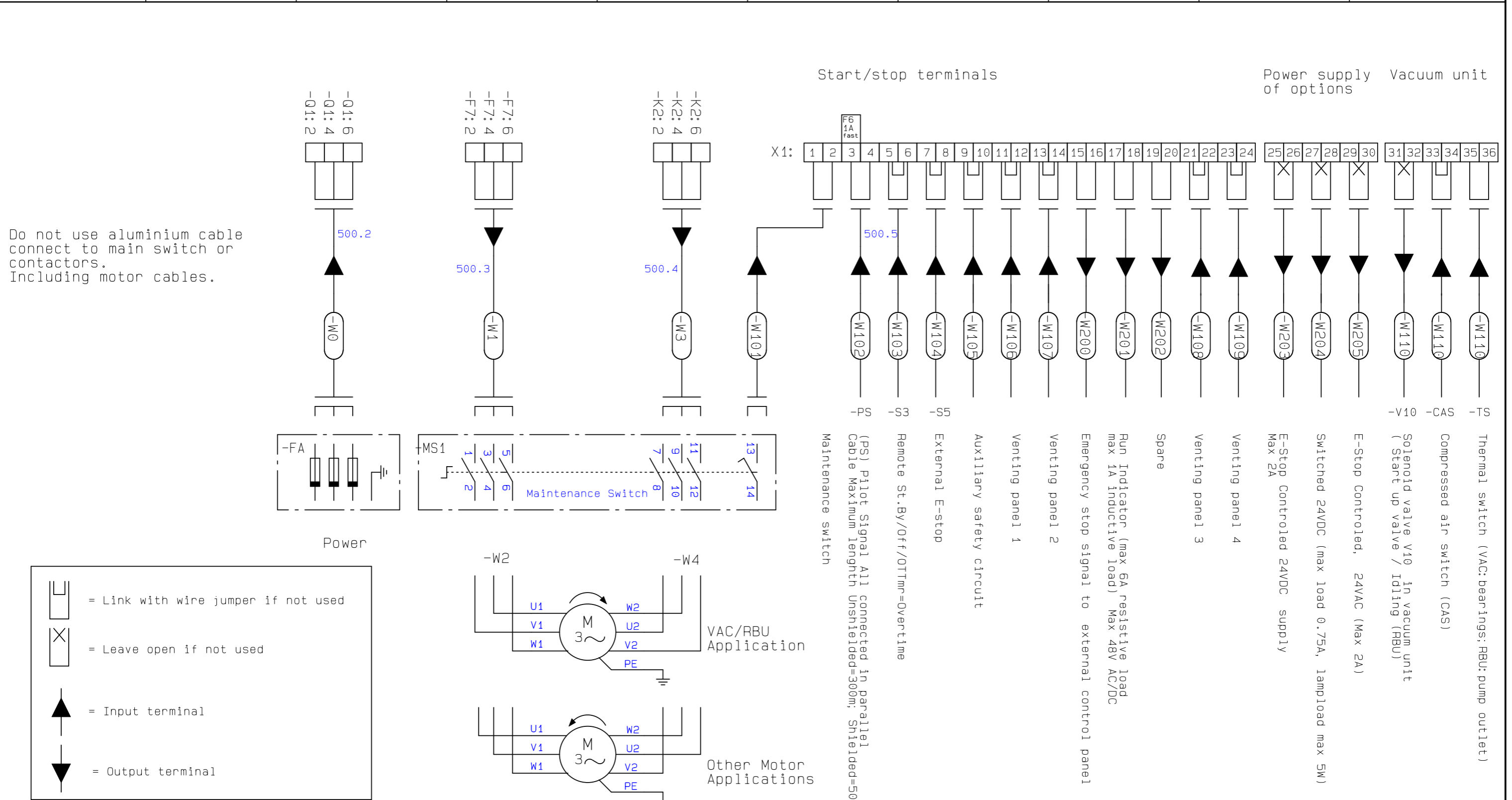


STARTER EXTERNAL CONNECTIONS

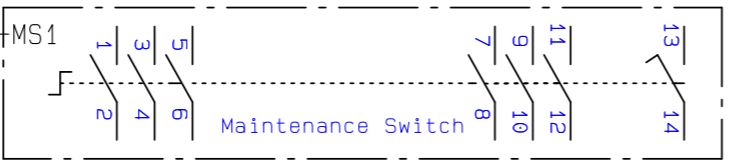
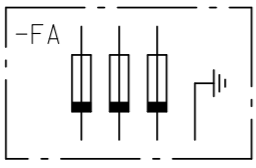
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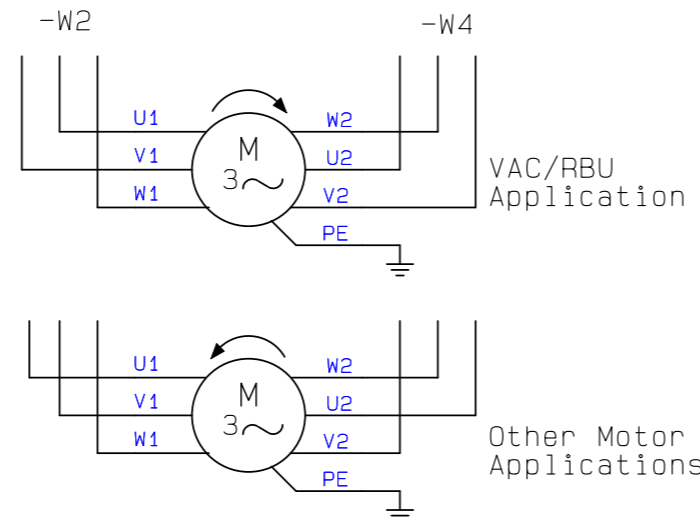
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| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
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Do not use aluminium cable connect to main switch or contactors. Including motor cables.



Power



= Link with wire jumper if not used
 = Leave open if not used
 = Input terminal
 = Output terminal

Note1: For terminals: use minimum 1.5mm² if cable is up to 10m long, and use minimum 2.5mm² if cable is up to 20m long, large area if cable is longer. small area in a 24V system can cause a poor short-cut protection

(PS) Pilot Signal All connected in parallel
 Cable Maximum length Unshielded=300m; Shielded=500m
 Maintenance switch

-PS Remote St.By/Off/OTtm=Overtime
 -S3 External E-stop
 -S5 Auxiliary safety circuit
 Venting panel 1
 Venting panel 2
 Emergency stop signal to external control panel
 Venting panel 3
 Venting panel 4
 Spare
 Run Indicator (max 6A resistive load max 1A inductive load) Max 48V AC/DC
 E-Stop Controlled 24VDC supply
 Switched 24VDC (max load 0.75A, lamp load max 5W)
 E-Stop Controlled, 24VAC (Max 2A)
 Solenoid valve V10 in vacuum unit (Start up valve / Idling (RBU))
 Compressed air switch (CAS)
 Thermal switch (VAC: bearings; RBU: pump outlet)

Note2: Check tightening of all power cable connections inside enclosure before putting into service.

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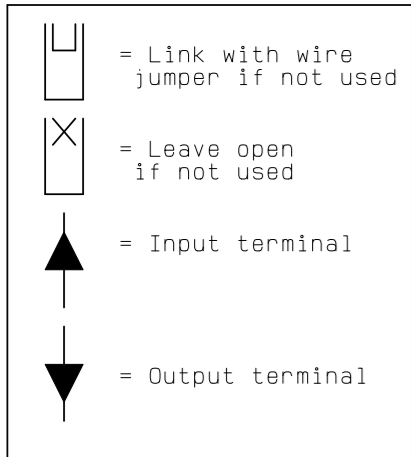
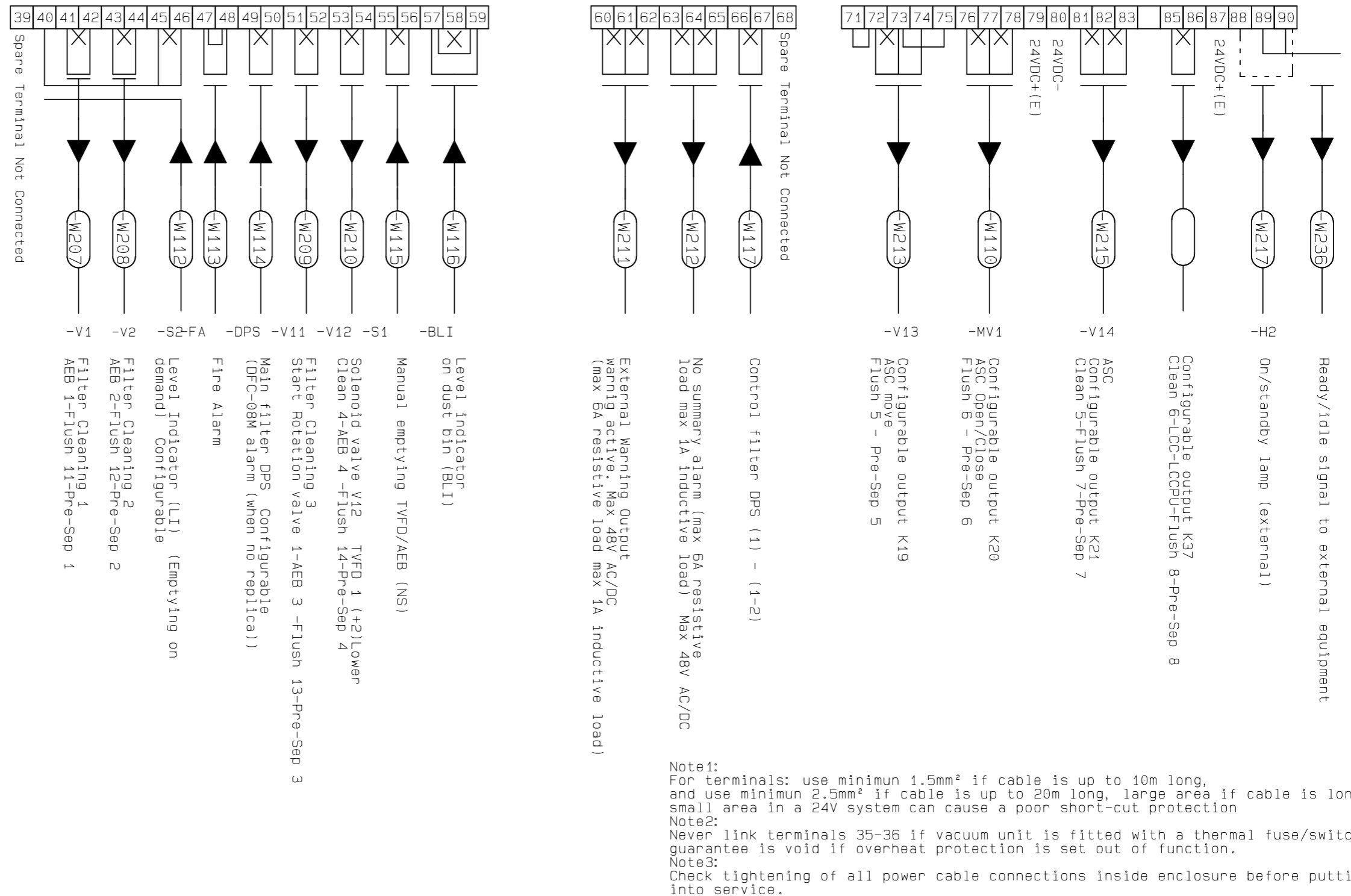
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STARTER EXTERNAL CONNECTIONS

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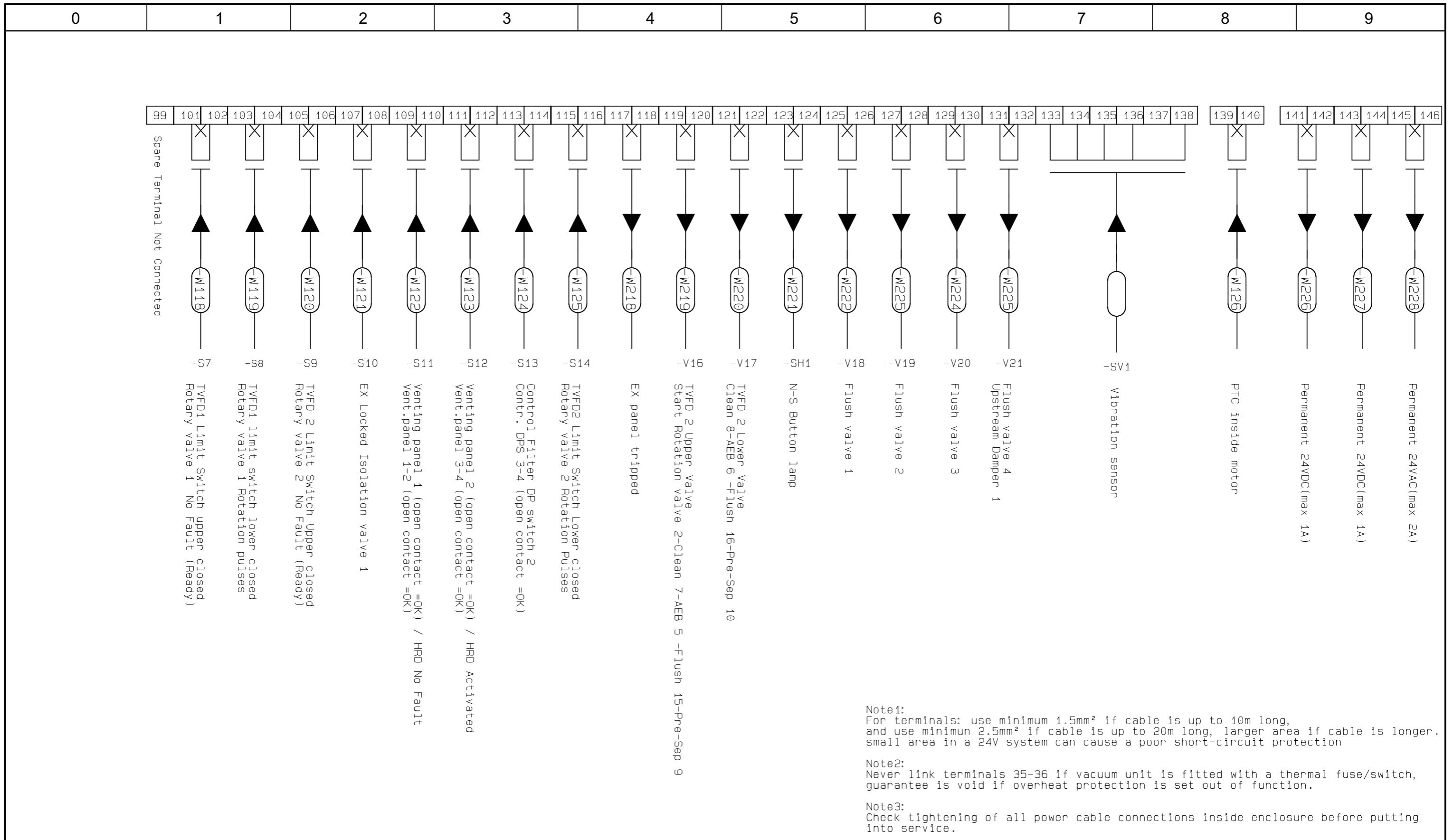


Note1:
For terminals: use minimum 1.5mm² if cable is up to 10m long, and use minimum 2.5mm² if cable is up to 20m long, large area if cable is longer. small area in a 24V system can cause a poor short-cut protection

Note2:
Never link terminals 35-36 if vacuum unit is fitted with a thermal fuse/switch, guarantee is void if overheat protection is set out of function.

Note3:
Check tightening of all power cable connections inside enclosure before putting into service.

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Note1:
For terminals: use minimum 1.5mm² if cable is up to 10m long, and use minimum 2.5mm² if cable is up to 20m long, larger area if cable is longer. Small area in a 24V system can cause a poor short-circuit protection

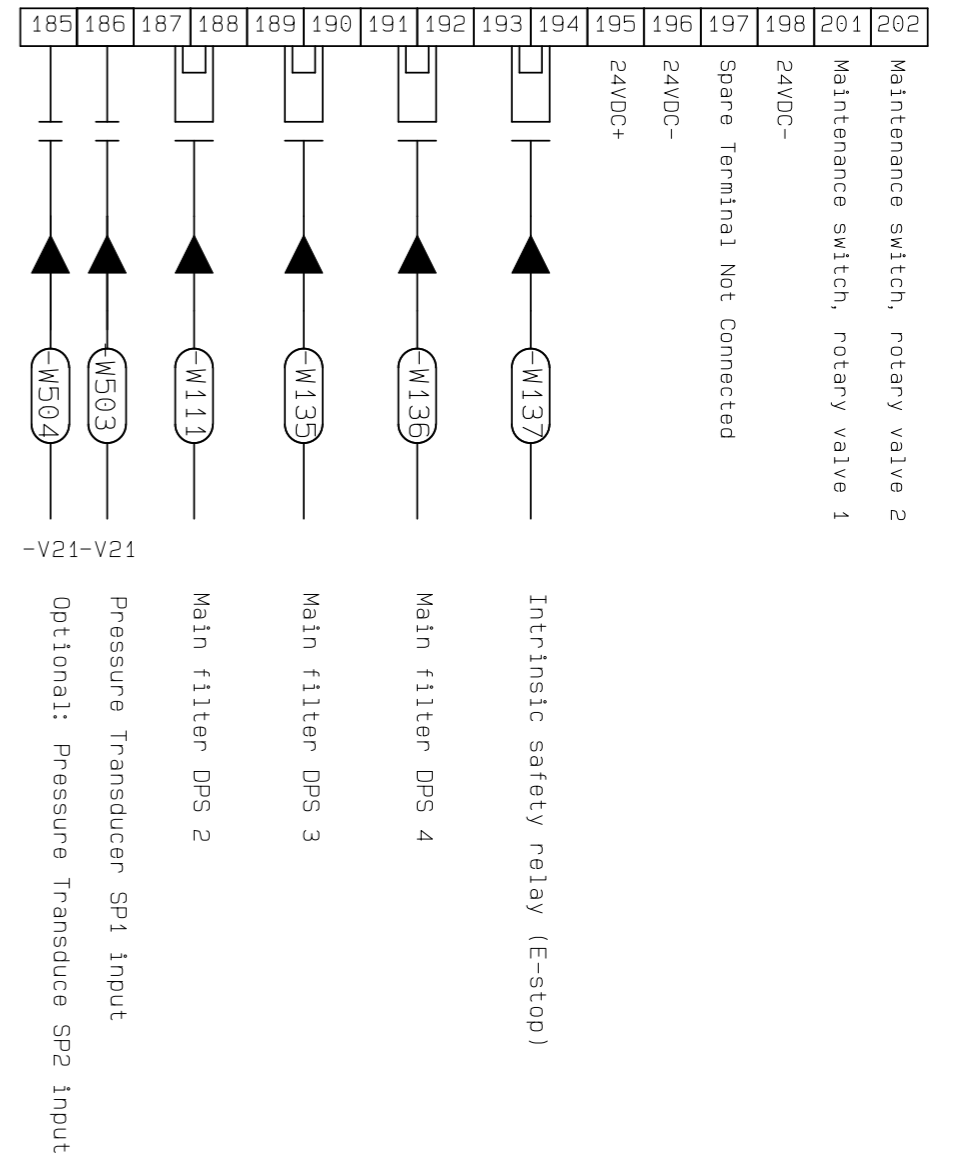
Note2:
Never link terminals 35-36 if vacuum unit is fitted with a thermal fuse/switch, guarantee is void if overheat protection is set out of function.

Note3:
Check tightening of all power cable connections inside enclosure before putting into service.

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| Date of approval | - | Date of created | 2019/08/20 | | | | | |
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|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
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Note1:
 For terminals: use minimum 1.5mm² if cable is up to 10m long, and use minimum 2.5mm² if cable is up to 20m long, large area if cable is longer. Small area in a 24V system can cause a poor short-cut protection

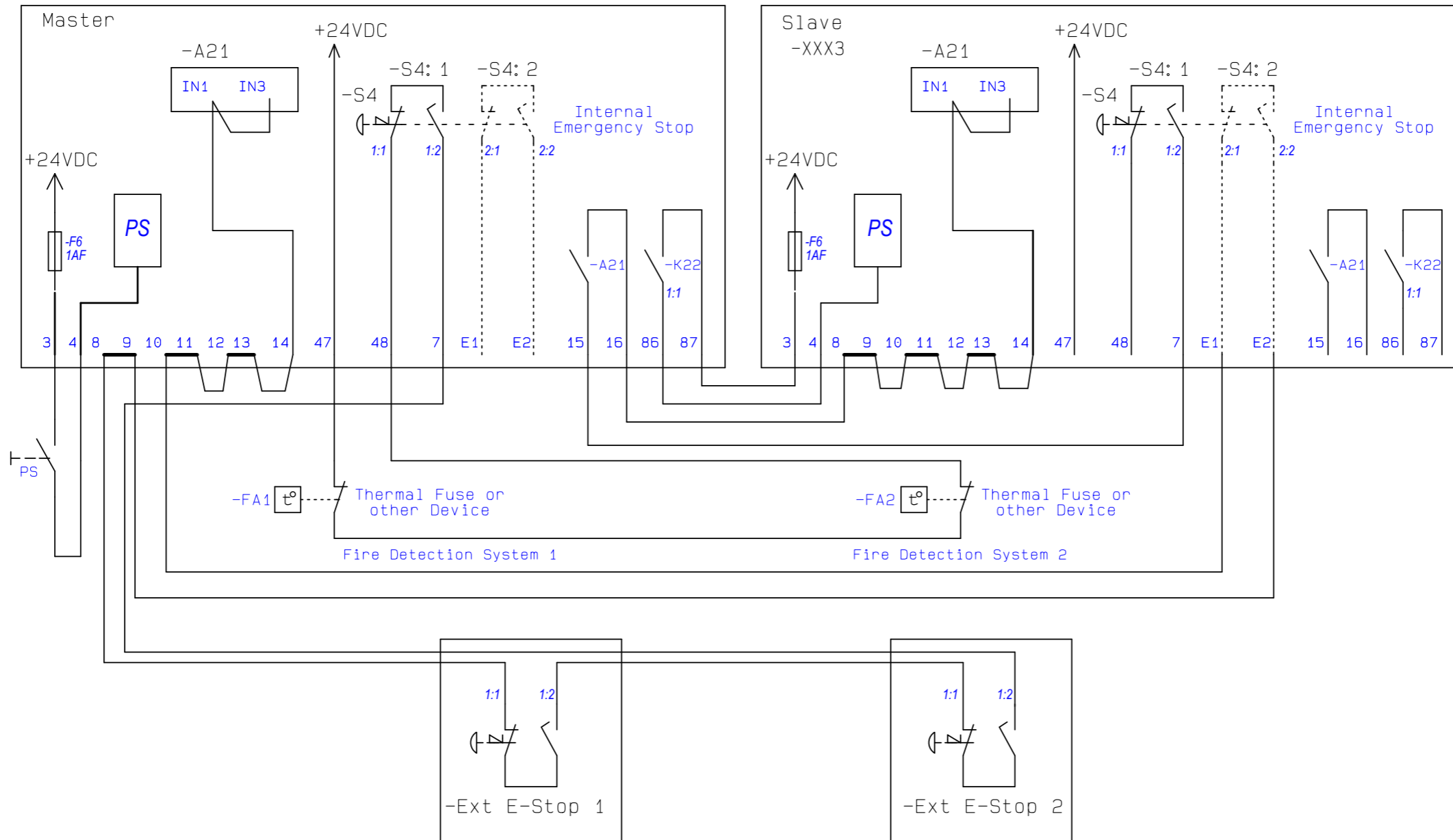
Note2:
 Never link terminals 34-35 if vacuum unit is fitted with a thermal fuse/switch, guarantee is void if overheat protection is set out of function.

Note3:
 Check tightening of all power cable connections inside enclosure before putting into service.

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| Revision | 1 | Product | HVCP EX 37kW Insight | | | STARTER EXTERNAL CONNECTIONS | Drawing no. 2183617 | Page no. 503 |
| Status | Available | Date of created | 2019/08/20 | | | | | |
| Date of approval | - | Author | FRALE | | | | | |
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Load Current Control (LCC) be cotrolled by PLC and E-stop interlock wiring



N.B
 If masterunit is powered of or out of
 comission the Slave will not start

Double E-Stop switch S4
 Block S4:2 and The terminal E1 and E2
 Are not included in the Cabinet

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| Status | Available | | | |
| Date of approval | - | | | |
| Approval by | - | Date of created | 2019/08/20 | |
| 503 | previous page | Author | FRALE | |

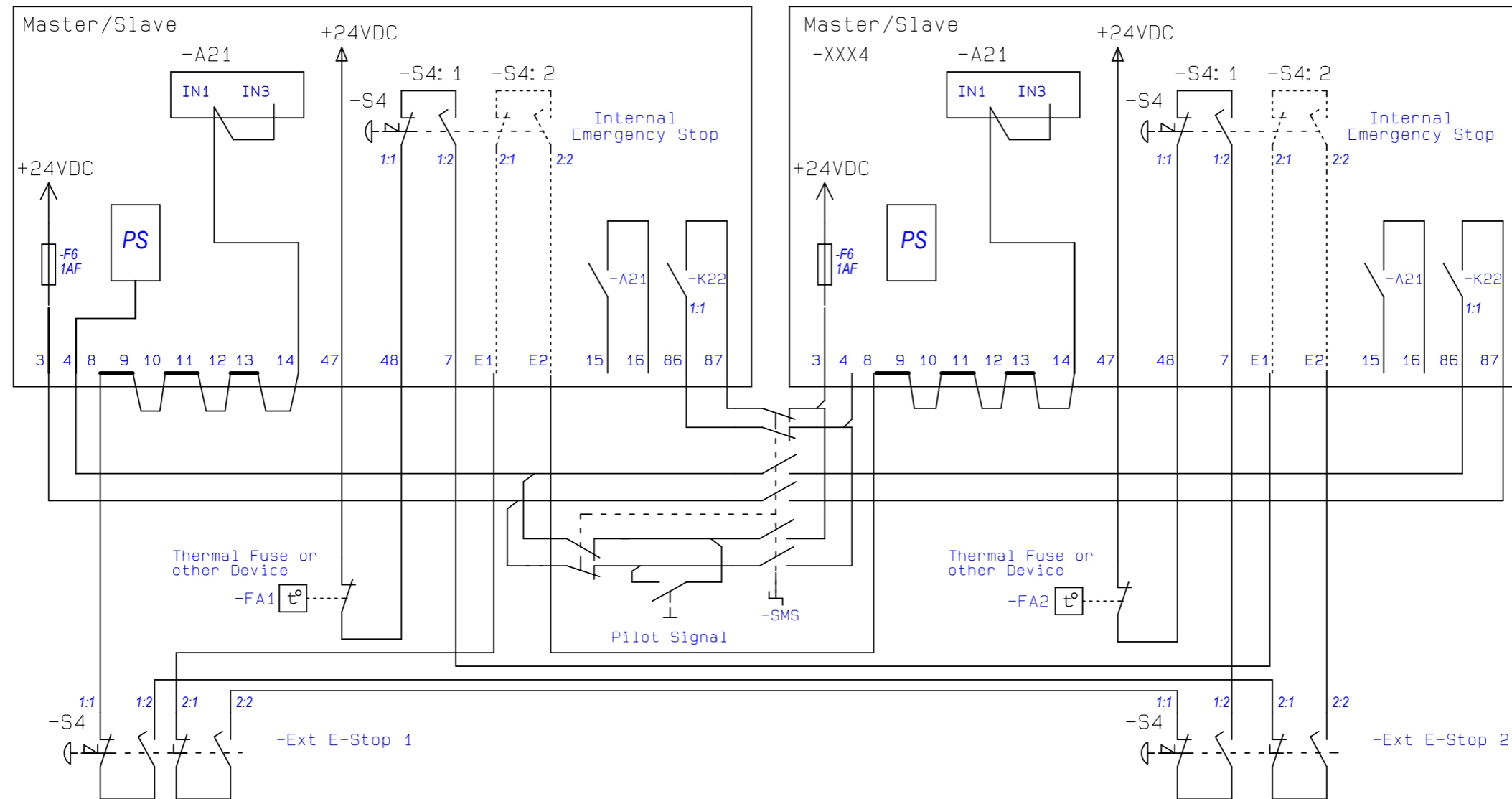


OPTIONAL
 CONNECTIONS
 MASTER-SLAVE

Drawing no.
 2183617

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Load Current Control (LCC) be cotrolled by PLC and E-stop interlock wiring



N.B
SMS Switches to select wich unit is Master or Slave
Both system can run individually even if the other is off or out of commissioning

N.B
Double E-Stop switch S4
Block S4:2 and The terminal E1 and E2
Are not included in the Cabinet

N.B
SMS Switch is not avavible as a Nederman part

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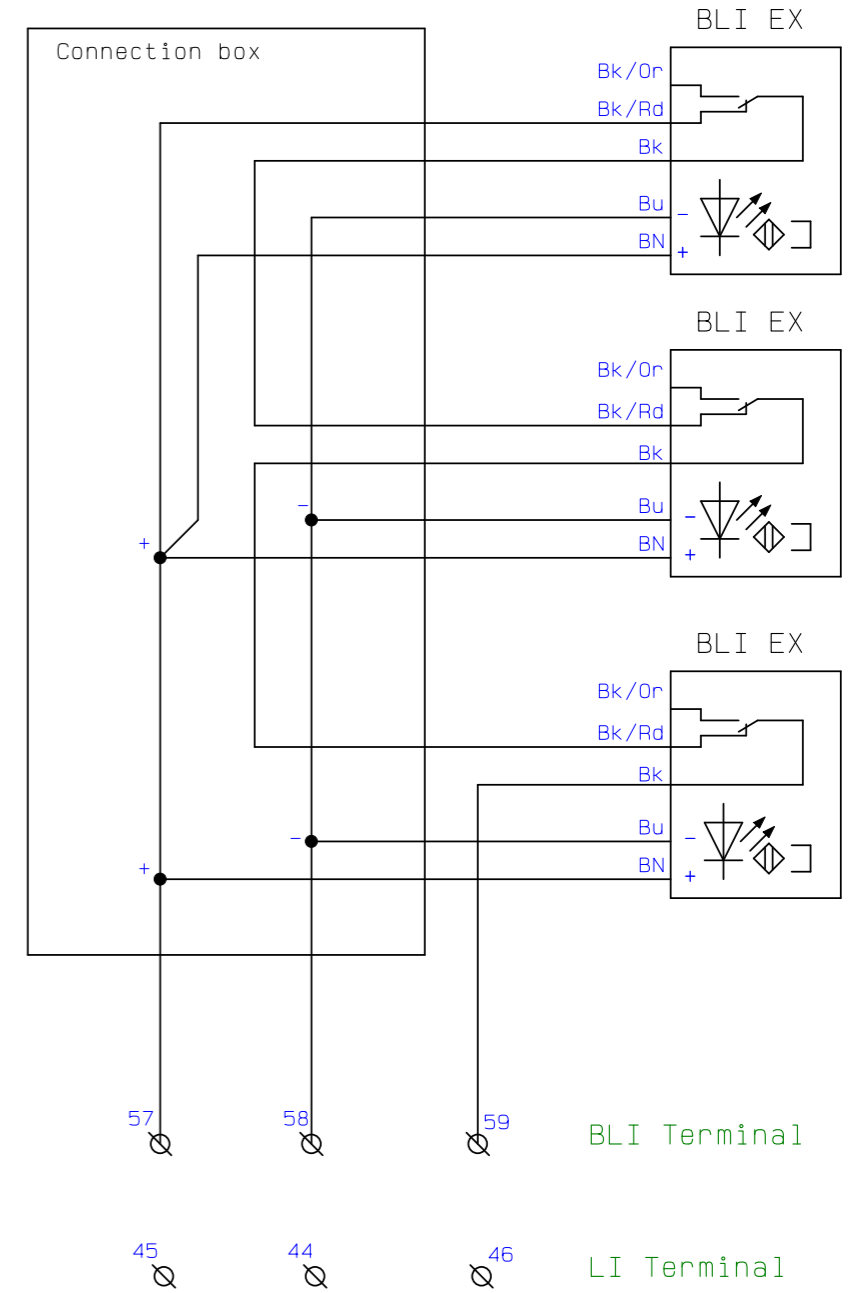
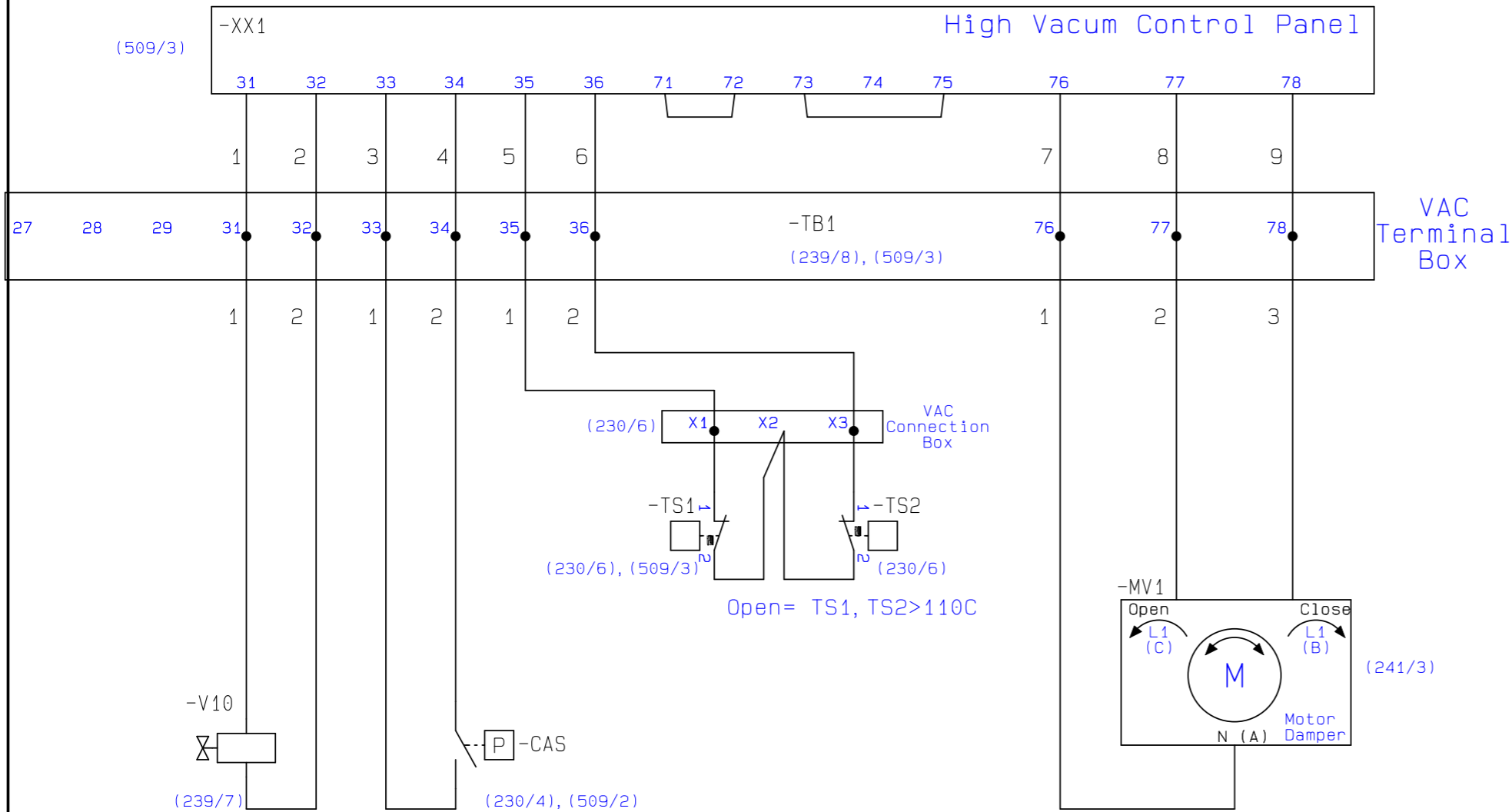
OPTIONAL
CONNECTIONS
MASTER-SLAVE

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2183617

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Connection of anti surge control (ASC) to starter
 ASC be controlled by PLC, Current sensor connect to PLC AI0

Principal schematic Multiple BLI or LI
 Used sensor (EX sensors with relay output)



START UPP VALVE (239/7)
 (CAS) Open = P<3Bar (230/4), (509/2)
 Thermal Supervision VAC- Fan Shaft Bearings (230/6), (509/3)
 Open= TS1, TS2>110C (230/6)
 (ASC) Only VAC Application (241/3)

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| | | Author | FRALE | |



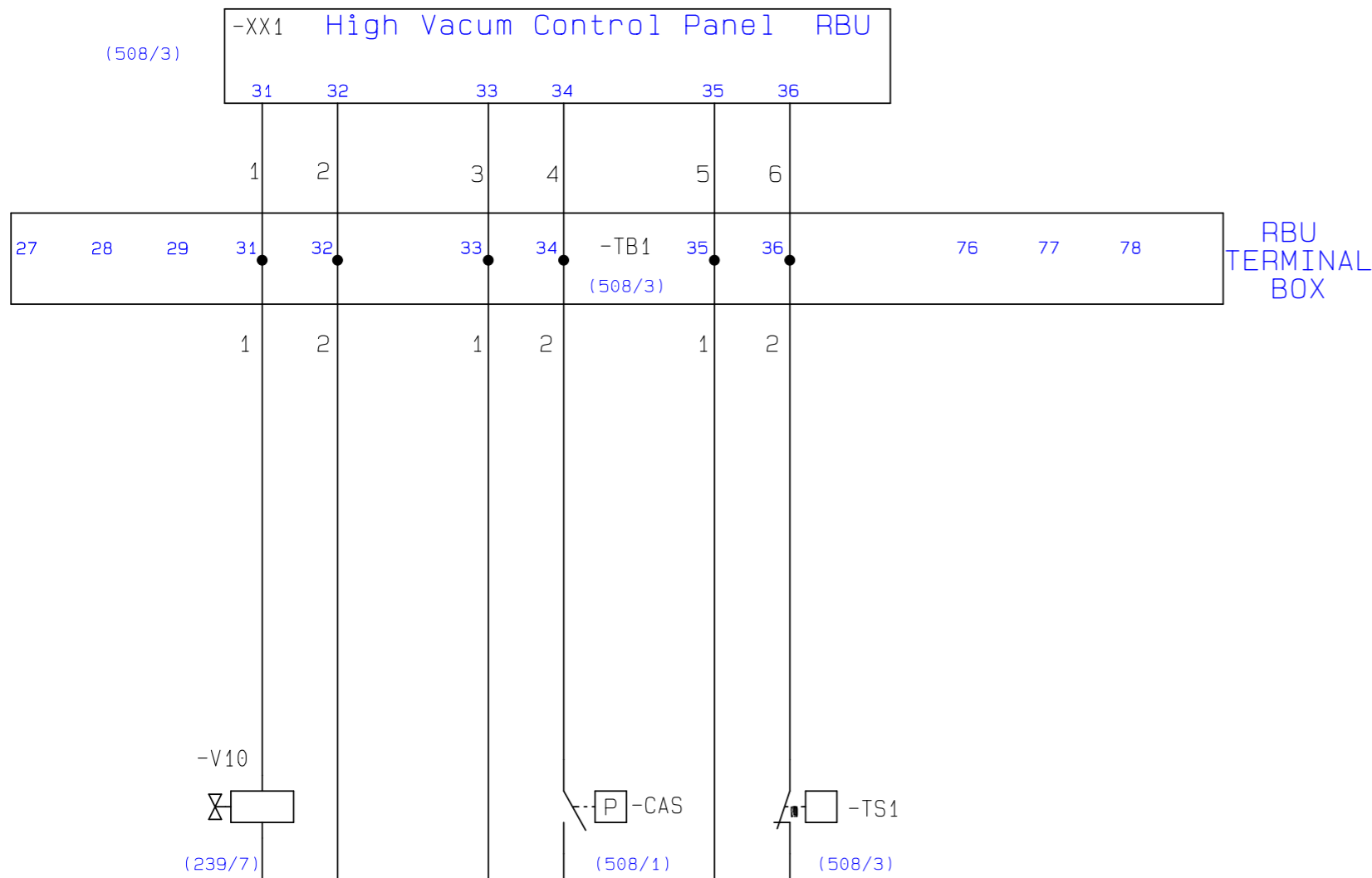
**VAC ASC
 CONNECTIONS
 and OPTIONAL BLI**

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Connection of HVAC to RBU Unit

Principal schematic Multiple BLI or LI
Used sensor (EX sensors with relay output)

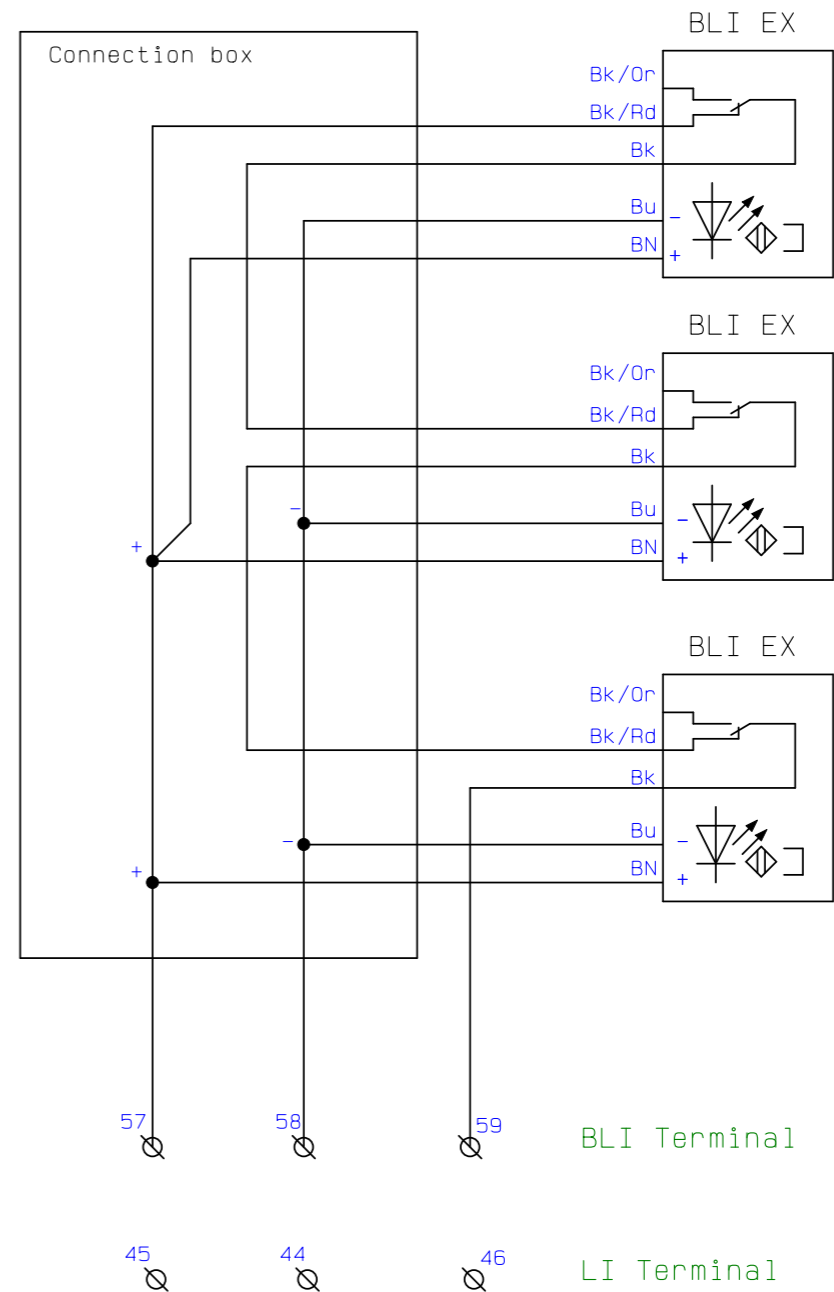


Open = TS1>140C
Not Resettable

START
UPP VALVE

(CAS)
Open = P<3Bar

Thermal Supervision
RBU- Air Outlet



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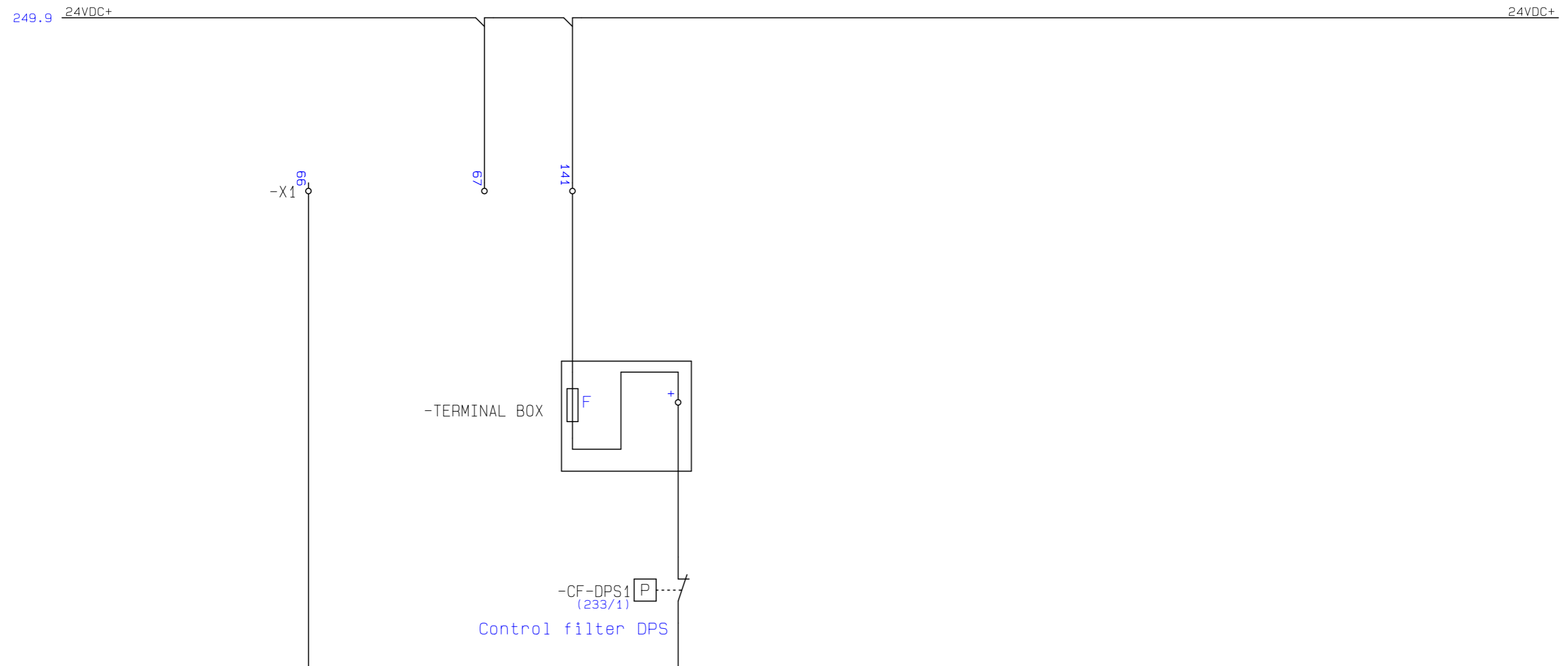
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| Status | Available | Product | Product |
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Nederman

RBU
CONNECTIONS
and OPTIONAL BLI

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Principal schematic, connection of sensors using auxiliary connection box.

With sensors connected via auxiliary connection devices the schematic supplied with the auxiliary equipment is governing.

In the displayed example the DPS is connected via the terminal box instead of X1:67.

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| Revision | 1 | Product | <h1 style="color:blue; margin:0;">Nederman</h1> | | SENSORS VIA AUXILIARY CONNECTION BOX | Drawing no. 2183617 | Page no. 510 |
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Lists

Nederman

| No. | Name | EAN-no. | Type | Description | Manufacture | Ref. position | Remarks |
|-----|--------------|---------|----------------------|-------------|-------------|---------------|----------|
| 1 | | | 800F-X01S | | | 70/3 | |
| 2 | -A1 | | 6ES7214-1AG31-0XB0 | | | 248/3 | Optional |
| 3 | -A1/1 | | 6ES7222-1BD30-0XB0 | | | 10/4 | |
| 4 | -A2 | | 6ES7223-1BH30-0XB0 | | | 200/8 | * |
| 5 | -A11 | | | | | 9/5 | * |
| 6 | -A11 | | 6AV6647-0AA11-3AX0 | | | 9/5 | * |
| 7 | -A21 | | 3SK1111-1AB30 | | | 10/4 | * |
| 8 | -A21/1 | | 3SK1111-1AB30 | | | 70/2 | * |
| 9 | -AUX1 | | | | | 82/2 | * |
| 10 | -AUX2 | | | | | 232/4 | * |
| 11 | -AUX3 | | | | | 82/6 | * |
| 12 | -AUX4 | | | | | 240/7 | * |
| 13 | -AUX- E-STOP | | | | | 71/6 | * |
| 14 | -AUX-EX-TRIP | | | | | 242/1 | * |
| 15 | -AUX-SAFE | | | | | 70/5 | * |
| 16 | -BLI (EX) | | | | | 231/2 | * |
| 17 | -D1 | | 1N4007 | | | 239/1 | * |
| 18 | -D2 | | 1N4007 | | | 239/3 | * |
| 19 | -D3 | | 1N4007 | | | 240/1 | * |
| 20 | -D4 | | 1N4007 | | | 240/4 | * |
| 21 | -D5 | | 1N4007 | | | 242/4 | * |
| 22 | -D6 | | 1N4007 | | | 242/7 | * |
| 23 | -E | | | | | 10/3 | * |
| 24 | -E1 | | Cable duct 25x80x700 | | | 10/4 | * |
| 25 | -E2 | | Cable duct 40x80x180 | | | 10/3 | * |
| 26 | -E3 | | Cable duct 40x80x440 | | | 10/3 | * |
| 27 | -E4 | | Cable duct 25x60x360 | | | 10/5 | * |
| 28 | -E5 | | Cable duct 40x80x465 | | | 10/7 | * |

* Use of components with equivalent electric, mechanical and approval specifications is acceptable

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| Date of approval | - | Author | FRALE | | | | | |
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| No. | Name | EAN-no. | Type | Description | Manufacture | Ref. position | Remarks |
|-----|--------------|---------|--------------------------------|-------------|-------------|---------------|---------|
| 29 | -E6 | | Cable duct 25x60x360 | | | 10/5 | * |
| 30 | -E7 | | Cable duct 40x80x465 | | | 10/5 | * |
| 31 | -E8 | | Cable duct 40x80x545 | | | 10/5 | * |
| 32 | -E9 | | Cable duct 49x99x545 | | | 10/5 | * |
| 33 | -E10 | | | | | 10/4 | * |
| 34 | -E11 | | Schneider electric 800x800x300 | | | 10/4 | * |
| 35 | -EBR | | Earthing bar rail | | | 10/3 | * |
| 36 | -ET1 | | UK 2,5 N | | | 240/1 | * |
| 37 | -EXT ALARM | | | | | 238/1 | * |
| 38 | -EXT WARNING | | | | | 238/6 | * |
| 39 | -F2 | | 140M-C2E-B16 | | | 10/4 | * |
| 40 | -F4 | | Auto Fuse 6A | | | 10/5 | * |
| 41 | -F5 | | Auto Fuse 16A | | | 10/5 | * |
| 42 | -F6 | | 1A 5x20mm fast | | | 230/1 | * |
| 43 | -F6 | | WK 4 TKG/U/V0 | | | 10/3 | * |
| 44 | -F7 | | 193-EEFD | | | 10/2 | * |
| 45 | -F7 | | 193-EEGE | | | 230/7 | * |
| 46 | -F8 | | 817-E1 | | | 10/6 | * |
| 47 | -FA | | (Thermal Fuse or other device) | | | 70/1 | * |
| 48 | -G1 | | 6EP1333-1LB00 | | | 10/6 | * |
| 49 | -H1 | | 800FP-P5PN3Y | | | 238/5 | * |
| 50 | -H2 | | | | | 240/9 | * |
| 51 | -K1 | | 100-C43KJ00 | | | 10/2 | * |
| 52 | -K1 | | 100-FA11 | | | 10/2 | * |
| 53 | -K1 | | 100-FA11 | | | 70/6 | * |
| 54 | -K2 | | 100-C43KJ00 | | | 10/3 | * |
| 55 | -K2 | | 100-C60KJ00 | | | 80/6 | * |
| 56 | -K2 | | 100-FA22 | | | 10/3 | * |

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| No. | Name | EAN-no. | Type | Description | Manufacture | Ref. position | Remarks |
|-----|--------|---------|---------------------|-------------|-------------|---------------|---------|
| 57 | -K3 | | 100-C30KJ00 | | | 10/3 | * |
| 58 | -K3 | | 100-C37KJ00 | | | 80/7 | * |
| 59 | -K3 | | 100-C43KJ00 | | | 80/3 | * |
| 60 | -K3 | | 100-FA02 | | | 10/3 | * |
| 61 | -K4T | | 700-FSY2DU23 | | | 80/8 | * |
| 62 | -K8 | | PLC-RSC- 24DC/21-21 | | | 238/3 | * |
| 63 | -K8 | | PLC-RSC- 24DC/21-21 | | | 10/5 | * |
| 64 | -K9 | | PLC-RSC- 24DC/21 | | | 70/2 | * |
| 65 | -K9 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 66 | -K10 | | PLC-RSC- 24DC/21 | | | 238/2 | * |
| 67 | -K10 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 68 | -K11 | | PLC-RSC- 24DC/21 | | | 238/8 | * |
| 69 | -K11 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 70 | -K12 | | PLC-RSC- 24DC/21 | | | 239/6 | * |
| 71 | -K12 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 72 | -K13 | | PLC-RSC- 24DC/21 | | | 239/2 | * |
| 73 | -K13 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 74 | -K14 | | PLC-RSC- 24DC/21 | | | 239/4 | * |
| 75 | -K14 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 76 | -K15 | | PLC-RSC- 24DC/21 | | | 239/8 | * |
| 77 | -K15 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 78 | -K16 | | PLC-RSC- 24DC/21 | | | 240/3 | * |
| 79 | -K16 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 80 | -K17 | | PLC-RSC- 24DC/21 | | | 240/5 | * |
| 81 | -K17 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 82 | -K17/1 | | PLC-RSC- 24DC/21 | | | 240/4 | * |
| 83 | -K18 | | PLC-RSC- 24DC/21 | | | 240/8 | * |
| 84 | -K18 | | PLC-RSC- 24DC/21 | | | 10/5 | * |

* Use of components with equivalent electric, mechanical and approval specifications is acceptable

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| No. | Name | EAN-no. | Type | Description | Manufacture | Ref. position | Remarks |
|-----|------------|---------|----------------------------------|-------------|-------------|---------------|---------|
| 85 | -K19 | | PLC-RSC- 24DC/21 | | | 241/2 | * |
| 86 | -K19 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 87 | -K20 | | PLC-RSC- 24DC/21 | | | 241/4 | * |
| 88 | -K20 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 89 | -K21 | | PLC-RSC- 24DC/21 | | | 241/6 | * |
| 90 | -K21 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 91 | -K22 | | PLC-RSC- 24DC/21-21AU | | | 10/5 | * |
| 92 | -K23 | | PLC-RSC- 24DC/21 | | | 242/2 | * |
| 93 | -K23 | | PLC-RSC- 24DC/21 | | | 10/5 | * |
| 94 | -K24 | | PLC-RSC- 24DC/21 | | | 242/6 | * |
| 95 | -K24 | | PLC-RSC- 24DC/21 | | | 10/6 | * |
| 96 | -K25 | | PLC-RSC- 24DC/21 | | | 242/8 | * |
| 97 | -K25 | | PLC-RSC- 24DC/21 | | | 10/6 | * |
| 98 | -K26 | | PLC-RSC- 24DC/21 | | | 243/5 | * |
| 99 | -K26 | | PLC-RSC- 24DC/21 | | | 10/6 | * |
| 100 | -K27 | | PLC-RSC- 24DC/21 | | | 243/8 | * |
| 101 | -K27 | | PLC-RSC- 24DC/21 | | | 10/6 | * |
| 102 | -K28 | | PLC-RSC- 24DC/21 | | | 244/2 | * |
| 103 | -K28 | | PLC-RSC- 24DC/21 | | | 10/6 | * |
| 104 | -K29 | | PLC-RSC- 24DC/21 | | | 244/5 | * |
| 105 | -K29 | | PLC-RSC- 24DC/21 | | | 10/6 | * |
| 106 | -LI (EX) | | | | | 232/9 | * |
| 107 | -M2 | | | | | 83/2 | * |
| 108 | -M3 | | | | | 83/5 | * |
| 109 | -MV1 | | | | | 241/3 | * |
| 110 | -P1 | | | | | 210/9 | * |
| 111 | -PE | | WT 4 PE | | | 60/6 | * |
| 112 | -PTC-MOTOR | | PTC Built in Monitoring overheat | | | 80/1 | * |

* Use of components with equivalent electric, mechanical and approval specifications is acceptable

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| No. | Name | EAN-no. | Type | Description | Manufacture | Ref. position | Remarks |
|-----|------------------|---------|--|-------------|-------------|---------------|---------|
| 113 | -Q1 | | Main switch 100A | | | 10/3 | * |
| 114 | -Q1 | | 3LD2714-0TK51 | | | 50/1 | * |
| 115 | -Q2 | | 3RM1001-1AA04 | | | 10/4 | * |
| 116 | -Q2 | | 3RM1102-3AA04 | | | 240/1 | * |
| 117 | -Q3 | | 3RM1001-1AA04 | | | 10/4 | * |
| 118 | -Q3 | | 3RM1102-3AA04 | | | 242/5 | * |
| 119 | -Q4 | | | | | 70/1 | * |
| 120 | -Q5 | | 140M-C2E-B40 | | | 10/4 | * |
| 121 | -Q5 | | 140M-C-AFA11 | | | 234/2 | * |
| 122 | -R1 | | 500 Ohm | | | 248/3 | * |
| 123 | -S2 | | | | | 234/3 | * |
| 124 | -S3 | | Switch NC | | | 231/8 | * |
| 125 | -S4 | | 800FP-MT44 | | | 9/5 | * |
| 126 | -S5 | | External E-stop 800FP-MT44 | | | 70/3 | * |
| 127 | -S6 | | | | | 235/7 | * |
| 128 | -S19 | | Venting panel sensor 3 Flexfilter | EX | | 70/8 | * |
| 129 | -S20 | | Venting panel sensor 4 Flexfilter | EX | | 70/9 | * |
| 130 | -SP1 | | 0-->40kPa 10-->0V | | | 248/7 | * |
| 131 | -SP2 | | 0-->40kPa 10-->0V | | | 248/7 | * |
| 132 | -SPARE_TERMINAL1 | | | | | 249/2 | * |
| 133 | -SPARE_TERMINAL2 | | | | | 249/4 | * |
| 134 | -SPARE_TERMINAL3 | | | | | 249/5 | * |
| 135 | -SPARE_TERMINAL4 | | | | | 249/7 | * |
| 136 | -SV1 | | | | | 248/1 | * |
| 137 | -T1 | | Transfo 230-460V 24V/230V | | | 60/2 | * |
| 138 | -T1 | | Transfo 230-460V 230V/24V 160VA/140VA Nr: 5-080-002050 | | | 10/5 | * |
| 139 | -T2 | | Current Sensor LEM AT 100 B10 | | | 50/1 | * |
| 140 | -TB1 | | | | | 230/6 | * |

* Use of components with equivalent electric, mechanical and approval specifications is acceptable

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| No. | Name | EAN-no. | Type | Description | Manufacture | Ref. position | Remarks |
|-----|---------------|---------|---|-------------|-------------|---------------|---------|
| 141 | -TERMINAL BOX | | | | | 510/3 | * |
| 142 | -U1 | | eWon flexy205 | | | 210/7 | * |
| 143 | -V1 | | | | | 239/1 | * |
| 144 | -V2 | | | | | 239/4 | * |
| 145 | -V3 | | | | | 240/1 | * |
| 146 | -V4 | | | | | 240/4 | * |
| 147 | -V10 | | START UPP VALVE | | | 508/1 | * |
| 148 | -W0 | | Power Cable | | | 50/1 | * |
| 149 | -W1 | | Motor Cable >= 3x10mm ² + PE | | | 80/1 | * |
| 150 | -W2 | | Motor Cable >= 3x10mm ² + PE | | | 80/2 | * |
| 151 | -W3 | | Motor Cable >= 3x10mm ² + PE | | | 80/1 | * |
| 152 | -W4 | | Motor Cable >= 3x10mm ² + PE | | | 80/2 | * |
| 153 | -W101 | | 2x1.0mm ² | | | 232/1 | * |
| 154 | -W102 | | 2x1.0mm ² | | | 230/1 | * |
| 155 | -W103 | | 2x1.0mm ² | | | 231/7 | * |
| 156 | -W104 | | 2x1.0mm ² | | | 70/3 | * |
| 157 | -W105 | | 2x1.0mm ² | | | 70/5 | * |
| 158 | -W106 | | 2x1.0mm ² | | | 70/6 | * |
| 159 | -W107 | | 2x1.0mm ² | | | 70/7 | * |
| 160 | -W108 | | 2x1.0mm ² | | | 70/8 | * |
| 161 | -W109 | | 2x1.0mm ² | | | 70/9 | * |
| 162 | -W110 | | 0,75mm ² | | | 230/3 | * |
| 163 | -W111 | | 2x1.0mm ² | | | 231/4 | * |
| 164 | -W112 | | 3x1,0mm ² | | | 232/6 | * |
| 165 | -W113 | | 2x1.0mm ² | | | 70/1 | * |
| 166 | -W114 | | 2x1.0mm ² | | | 231/3 | * |
| 167 | -W115 | | 2x1.0mm ² | | | 233/5 | * |
| 168 | -W116 | | 3x1.0mm ² | | | 231/0 | * |

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| No. | Name | EAN-no. | Type | Description | Manufacture | Ref. position | Remarks |
|-----|-------|---------|---------------------------------------|-------------|-------------|---------------|---------|
| 169 | -W117 | | 2x1.0mm ² | | | 233/0 | * |
| 170 | -W118 | | 2x1.0mm ² | | | 234/0 | * |
| 171 | -W119 | | 2x1.0mm ² | | | 234/3 | * |
| 172 | -W120 | | 2x1.0mm ² | | | 234/5 | * |
| 173 | -W121 | | 2x1.0mm ² | | | 234/7 | * |
| 174 | -W122 | | 2x1.0mm ² | | | 235/0 | * |
| 175 | -W123 | | 2x1.0mm ² | | | 235/3 | * |
| 176 | -W124 | | 2x1.0mm ² | | | 235/5 | * |
| 177 | -W125 | | 2x1.0mm ² | | | 235/7 | * |
| 178 | -W126 | | PTC inside motor 2x1.0mm ² | | | 81/2 | * |
| 179 | -W135 | | 2x1.0mm ² | | | 231/5 | * |
| 180 | -W136 | | 2x1.0mm ² | | | 231/5 | * |
| 181 | -W200 | | 2x1.0mm ² | | | 71/6 | * |
| 182 | -W201 | | | | | | * |
| 183 | -W202 | | | | | | * |
| 184 | -W203 | | 2x1.0mm ² | | | 82/1 | * |
| 185 | -W204 | | 2x1.0mm ² | | | 232/3 | * |
| 186 | -W205 | | 2x1.0mm ² | | | 82/6 | * |
| 187 | -W207 | | 2x1.0mm ² | | | 239/0 | * |
| 188 | -W208 | | 2x1.0mm ² | | | 239/3 | * |
| 189 | -W209 | | 2x1.0mm ² | | | 240/0 | * |
| 190 | -W210 | | 2x1.0mm ² | | | 240/3 | * |
| 191 | -W211 | | 3x1.0mm ² | | | 238/6 | * |
| 192 | -W212 | | 3x1.0mm ² | | | 238/0 | * |
| 193 | -W213 | | 2x1.0mm ² | | | 241/0 | * |
| 194 | -W215 | | 5x1.0mm ² | | | 241/4 | * |
| 195 | -W217 | | 2x1.0mm ² | | | 240/9 | * |
| 196 | -W218 | | 2X1.0mm ² | | | 242/0 | * |

* Use of components with equivalent electric, mechanical and approval specifications is acceptable

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| | | | | | | | | |
|------------------|---------------|-----------------|----------------------|----------------|---|-----------------------|-------------|-----------|
| Revision | 1 | Product | HVCP EX 37kW Insight | |  | COMPONENT LIST | Drawing no. | Page no. |
| Status | Available | | | 2183617 | | | 1007 | |
| Date of approval | - | Date of created | 2019/08/20 | | | | | |
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| No. | Name | EAN-no. | Type | Description | Manufacture | Ref. position | Remarks |
|-----|-------|---------|---------------------------------------|-------------|-------------|---------------|---------|
| 197 | -W219 | | 2X1.0mm ² | | | 242/3 | * |
| 198 | -W220 | | 2X1.0mm ² | | | 242/6 | * |
| 199 | -W221 | | 2x1.0mm ² | | | 243/1 | * |
| 200 | -W222 | | 2X1.0mm ² | | | 243/3 | * |
| 201 | -W223 | | 2X1.0mm ² | | | 243/6 | * |
| 202 | -W224 | | 2X1.0mm ² | | | 244/1 | * |
| 203 | -W225 | | 3x1.0mm ² | | | 244/4 | * |
| 204 | -W226 | | Permanent 24VDC(max 1A) | | | 81/4 | * |
| 205 | -W227 | | PTC inside motor 2x1.0mm ² | | | 81/5 | * |
| 206 | -W228 | | PTC inside motor 2x1.0mm ² | | | 81/7 | * |
| 207 | -W236 | | 2x1.0mm ² | | | 240/6 | * |
| 208 | -W500 | | Shielded ethernet cable | | | 210/3 | * |
| 209 | -W501 | | Shielded ethernet cable | | | 210/6 | * |
| 210 | -W503 | | 3x1.0mm ² | | | 248/6 | * |
| 211 | -W504 | | 3x1.0mm ² | | | 248/6 | * |
| 212 | -WX1 | | 2x1.0mm ² | | | 249/1 | * |
| 213 | -WX2 | | 2x1.0mm ² | | | 249/3 | * |
| 214 | -WX3 | | 2x1.0mm ² | | | 249/5 | * |
| 215 | -WX4 | | 2x1.0mm ² | | | 249/6 | * |
| 216 | -X1 | | | | | 510/2 | * |
| 217 | -X1 | | UTT B 2,5 | | | 234/4 | * |
| 218 | -X1 | | UTT B 2,5-DIO/O-U | | | 242/7 | * |
| 219 | -X1 | | Terminal, Grey, | | | 11/4 | * |
| 220 | -XX1 | | | | | 508/3 | * |
| 221 | -XX2 | | | | | 230/6 | * |
| 222 | -XXX3 | | | | | 504/5 | * |
| 223 | -XXX4 | | | | | 505/5 | * |
| | | | | | | | * |

* Use of components with equivalent electric, mechanical and approval specifications is acceptable

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|------------------|---------------|-----------------|----------------------|----------------|---|-----------------------|-------------|-----------|
| Revision | 1 | Product | HVCP EX 37kW Insight | |  | COMPONENT LIST | Drawing no. | Page no. |
| Status | Available | | | 2183617 | | | 1008 | |
| Date of approval | - | Date of created | 2019/08/20 | | | | | |
| Approval by | - | Author | FRALE | | | | | Next page |
| 1007 | Previous page | | | | | | | |

| Pos. | Name | I/O | Description | Signalway | Connected to | Card type |
|------|-------------|------|---|------------------------------------|--------------|--------------------|
| 1 | -A1:AI0 | AI0 | (ASC) Current Sensor | | | 6ES7214-1AG31-0XB0 |
| 2 | -A1:AI1 | AI1 | Vacuum Sensor input dP FlexFilter 13/18 | | | 6ES7214-1AG31-0XB0 |
| 3 | -A1:DIB.5 | I0.5 | Main filter DPS Configurable (DFC-08M alarm (when no replica)) | | | 6ES7214-1AG40-0XB0 |
| 4 | -A1:Dla.0 | I0.0 | Pilot Signal (PS) | -X1:4,-W102:2,-PS,-PS | -PS | 6ES7214-1AG31-0XB0 |
| 5 | -A1:Dla.1 | I0.1 | Compressed air switch (CAS) | -X1:34,-W110:3 | -CAS | 6ES7214-1AG31-0XB0 |
| 6 | -A1:Dla.2 | I0.2 | Thermal switches (TS) | -X1:36,-W110:6,-TB1:36,-TB1:35-XX2 | | 6ES7214-1AG31-0XB0 |
| 7 | -A1:Dla.3 | I0.3 | Motor protector +(PTC (EX)) | | -F8 | 6ES7214-1AG31-0XB0 |
| 8 | -A1:Dla.4 | I0.4 | Level indicator on dust bin (BLI) | -X1:59,-W116:BN | -BLI (EX) | 6ES7214-1AG31-0XB0 |
| 9 | -A1:Dla.5 | I0.5 | Main filter DPS Configurable (DFC-08M alarm (when no replica)) | -X1:192,-W136:1 | -MF-DPS4 | 6ES7214-1AG31-0XB0 |
| 10 | -A1:Dla.6 | I0.6 | Remote St.By/Off/OTTmr | -X1:6,-W103:1 | -S3 | 6ES7214-1AG31-0XB0 |
| 11 | -A1:Dla.7 | I0.7 | Emergency stop (EX-Venting panel) | | -A21 | 6ES7214-1AG31-0XB0 |
| 12 | -A1:Dlb.0 | I1.0 | Maintenance switch | -X1:2,-W101:2 | -MS1 | 6ES7214-1AG31-0XB0 |
| 13 | -A1:Dlb.1 | I1.1 | Closing function in D-mode | | -K2 | 6ES7214-1AG31-0XB0 |
| 14 | -A1:Dlb.2 | I1.2 | Level Indicator (LI) (Emptying on demand) Configurable | -X1:46,-W112:Bk/Or | -LI (EX) | 6ES7214-1AG31-0XB0 |
| 15 | -A1:Dlb.3 | I1.3 | Control filter DPS 1 Configurable | -X1:66,-W117:1 | -CF-DPS1 | 6ES7214-1AG31-0XB0 |
| 16 | -A1:Dlb.4 | I1.4 | Manual emptying TVFD/AEB (NS) | -X1:56,-W115:2 | -S1 | 6ES7214-1AG31-0XB0 |
| 17 | -A1:Dlb.5 | I1.5 | Fire Alarm | | -K9 | 6ES7214-1AG31-0XB0 |
| 18 | -A1:DQa.0 | Q0.0 | NoAlarm (Reset Safety circ.) | | -K8 | 6ES7214-1AG31-0XB0 |
| 19 | -A1:DQa.1 | Q0.1 | Alarm message lamp lamp in front panel | | -H1 | 6ES7214-1AG31-0XB0 |
| 20 | -A1:DQa.2 | Q0.2 | Warning DPS BLI and LI (relay is energized at warnig active) | | -K11 | 6ES7214-1AG31-0XB0 |
| 21 | -A1:DQa.3 | Q0.3 | Filter Cleaning Valve V1 dust collector Configurable FlexF 13/18 v1 (replica) | | -K13 | 6ES7214-1AG31-0XB0 |
| 22 | -A1:DQa.4 | Q0.4 | Filter Cleaning Valve V2 dust collector Configurable FlexF 13/18 v1 (replica) | | -K14 | 6ES7214-1AG31-0XB0 |
| 23 | -A1:DQa.5 | Q0.5 | Run(Start motor) | | -K12 | 6ES7214-1AG31-0XB0 |
| 24 | -A1:DQa.6 | Q0.6 | Solenoid V10 in vacuum unit (Start up valve / Idling (RBU)) | | -K15 | 6ES7214-1AG31-0XB0 |
| 25 | -A1:DQa.7 | Q0.7 | Upper solenoid V11 TVFD 1 Configurable | | -K16 | 6ES7214-1AG31-0XB0 |
| 26 | -A1:DQb.0 | Q1.0 | Lower solenoid V12 TVFD 1 Emptying AEB; Configurable | | -K17 | 6ES7214-1AG31-0XB0 |
| 27 | -A1:DQb.1 | Q1.1 | On/standby lamp (external) | | -K18 | 6ES7214-1AG31-0XB0 |
| 28 | -A1/1:DQe.0 | 4.00 | Config output K19 ASC move/Flush 1 | | -K19 | 6ES7222-1BD30-0XB0 |
| 29 | -A1/1:DQe.1 | 4.01 | Config output K20 ASC open/Flush 2 | | -K20 | 6ES7222-1BD30-0XB0 |

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|------------------|---------------|-----------------|---|--|----------|-------------------------------|-------------------------|------------|
| Revision | | Product |  | | PLC LIST | Drawing no. 2183617 | Page no. 1010 | |
| Status | Available | Product | | | | | | 1011 |
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| Pos. | Name | I/O | Description | Signalway | Connected to | Card type |
|------|-------------|------|--------------------------------------|-------------------------|--------------|--------------------|
| 30 | -A1/1:DQe.2 | 4.02 | LCC start | | -K21 | 6ES7222-1BD30-0XB0 |
| 31 | -A1/1:DQe.3 | 4.03 | MUX AI0 Current AI1 Pressure | -K22:A1,-K21:A2,-K21:A1 | -A1/1 | 6ES7222-1BD30-0XB0 |
| 32 | -A2:Dla.0 | I8.0 | TVFD1 limit switch upper closed | -X1:102 | -MS2 | 6ES7223-1BH30-0XB0 |
| 33 | -A2:Dla.1 | I8.1 | TVFD1 limit switch lower closed | -X1:104 | -S2 | 6ES7223-1BH30-0XB0 |
| 34 | -A2:Dla.2 | I8.2 | TVFD 2 Limit Switch Upper closed | -X1:106 | -MS3 | 6ES7223-1BH30-0XB0 |
| 35 | -A2:Dla.3 | I8.3 | EX Locked Isolation valve 1 | -X1:108,-W121:1 | -S10 | 6ES7223-1BH30-0XB0 |
| 36 | -A2:Dla.4 | I8.4 | Venting panel sensor 1 | -X1:110,-W122:1 | -S11 | 6ES7223-1BH30-0XB0 |
| 37 | -A2:Dla.5 | I8.5 | Venting panel sensor2 | -X1:112,-W123:1 | -S12 | 6ES7223-1BH30-0XB0 |
| 38 | -A2:Dla.6 | I8.6 | CF-DPS2(Control Filter DP switch 2) | -X1:114,-W124:1 | -CF-DPS2 | 6ES7223-1BH30-0XB0 |
| 39 | -A2:Dla.7 | I8.7 | TVFD2 Limit Switch Lower closed | -X1:116 | -S6 | 6ES7223-1BH30-0XB0 |
| 40 | -A2:DQa.0 | Q8.0 | EX panel tripped | | -K23 | 6ES7223-1BH30-0XB0 |
| 41 | -A2:DQa.1 | Q8.1 | TVFD 2 upper valve | | -K24 | 6ES7223-1BH30-0XB0 |
| 42 | -A2:DQa.2 | Q8.2 | TVFD 2 Lower valve | | -K25 | 6ES7223-1BH30-0XB0 |
| 43 | -A2:DQa.3 | Q8.3 | N-S Button lamp | -X1:123,-W221:2 | -SH1 | 6ES7223-1BH30-0XB0 |
| 44 | -A2:DQa.4 | Q8.4 | Flush valve1 | | -K26 | 6ES7223-1BH30-0XB0 |
| 45 | -A2:DQa.5 | Q8.5 | Flush valve2 | | -K27 | 6ES7223-1BH30-0XB0 |
| 46 | -A2:DQa.6 | Q8.6 | Flush valve3 | | -K28 | 6ES7223-1BH30-0XB0 |
| 47 | -A2:DQa.7 | Q8.7 | Flush valve4 | | -K29 | 6ES7223-1BH30-0XB0 |
| 48 | | | | | | |
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|------------------|---------------|---------------------------------|---|----------|-------------------------------|-------------------------|
| Revision | Available | Product |  | PLC LIST | Drawing no. 2183617 | Page no. 1011 |
| Status | - | Product | | | | |
| Date of approval | - | Date of created | | | | |
| Approval by | - | Author | | | | |
| 1010 | previous page | Product HVCP EX 37kW Insight | | | | Next page 1013 |

| From | | | Cable | | To | | | Type | Length |
|-------------|---------------|--------------------|-------------|--------------|-------------|---------------|---|---|--------|
| Description | Ref. position | Function | Description | Page/lineway | Description | Ref. position | Function | | |
| -Q1 | 50/1 | Main Switch 100A | -W0 | 50/1 | -MF | 50/1 | Main fuse | Power Cable | |
| -F7 | 80/0 | 18-90A | -W1 | 80/0 | -MS1 | 80/0 | Maintenance Switch | Motor Cable >= 3x10mm ² + PE | |
| -K2 | 80/2 | D Contactor | -W2 | 80/2 | -MS1 | 80/2 | Maintenance Switch | Motor Cable >= 3x10mm ² + PE | |
| -MS1 | 80/0 | Maintenance Switch | -W3 | 80/0 | -M1 | 80/1 | VAC/RBU Motor | Motor Cable >= 3x10mm ² + PE | |
| -MS1 | 80/2 | Maintenance Switch | -W4 | 80/2 | -M1 | 80/2 | VAC/RBU Motor | Motor Cable >= 3x10mm ² + PE | |
| -X1 | 232/1 | | -W101 | 232/1 | -MS1 | 232/1 | Signal Contact Maintenance switch | 2x1.0mm ² | |
| -X1 | 230/1 | | -W102 | 230/1 | -PS | 230/1 | Pilot Signal | 2x1.0mm ² | |
| -X1 | 231/8 | | -W103 | 231/8 | -S3 | 231/8 | Remote St.By/Off/OTTmr=Overtime | 2x1.0mm ² | |
| -X1 | 70/3 | | -W104 | 70/3 | -S5 | 70/3 | External E-stop | 2x1.0mm ² | |
| -X1 | 70/5 | | -W105 | 70/5 | -AUX-SAFE | 70/5 | Auxiliary safety circuit | 2x1.0mm ² | |
| -X1 | 70/6 | | -W106 | 70/6 | -S11 | 70/6 | Venting sensor 1 | 2x1.0mm ² | |
| -X1 | 70/7 | | -W107 | 70/7 | -S12 | 70/7 | Venting sensor 2 | 2x1.0mm ² | |
| -X1 | 70/8 | | -W108 | 70/8 | -S19 | 70/8 | Venting sensor 3 | 2x1.0mm ² | |
| -X1 | 70/9 | | -W109 | 70/9 | -S20 | 70/9 | Venting sensor 4 | 2x1.0mm ² | |
| -X1 | 239/7 | | -W110 | 239/7 | -TB1 | 239/7 | | 12x0,75mm ² | |
| -X1 | 231/4 | | -W111 | 231/4 | -MF-DPS2 | 231/4 | Main Filter DPS | 2x1.0mm ² | |
| -X1 | 232/7 | | -W112 | 232/7 | -LI (EX) | 232/8 | Level Indicator (LI) | 3x1,0mm ² | |
| -X1 | 70/1 | | -W113 | 70/1 | -FA | 70/1 | Fire alarm | 2x1.0mm ² | |
| -X1 | 231/3 | | -W114 | 231/3 | - MF-DPS1 | 231/3 | Main Filter DPS. | 2x1.0mm ² | |
| -X1 | 233/5 | | -W115 | 233/5 | -S1 | 233/5 | Manual emptying TVFD/AEB (NS) | 2x1.0mm ² | |
| -X1 | 231/1 | | -W116 | 231/1 | -BLI (EX) | 231/2 | Level indicator on dust bin (BLI) | 3x1.0mm ² | |
| -X1 | 233/0 | | -W117 | 233/0 | -CF-DPS1 | 233/1 | Control filter DPS (1) - (1-2) | 2x1.0mm ² | |
| -X1 | 234/1 | | -W118 | 234/1 | -S7 | 234/2 | TVFD1 limit switch upper closed (Rotary valve 1 - No Fault (Ready)) | 2x1.0mm ² | |
| -X1 | 234/3 | | -W119 | 234/3 | -S8 | 234/4 | TVFD1 Limit Switch Lower closed (Rotary valve 1 Rotation pulses, dotted line) | 2x1.0mm ² | |
| -X1 | 234/5 | | -W120 | 234/5 | -S9 | 234/6 | TVFD1 Valve 3 rotation pulses, dashed line (Rotary valve 2 - No Fault (Ready)) | 2x1.0mm ² | |
| -X1 | 234/8 | | -W121 | 234/8 | -S10 | 234/9 | Locked isolation valve 1 | 2x1.0mm ² | |
| -X1 | 235/1 | | -W122 | 235/1 | -S11 | 235/2 | Venting panel sensor (1) - (1-2) (open contact =OK)/HRD No Fault | 2x1.0mm ² | |
| -X1 | 235/3 | | -W123 | 235/3 | -S12 | 235/4 | Venting panel sensor (2) - (3-4) (open contact =OK)/ HRD Activated | 2x1.0mm ² | |

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|------------------|-----------|-----------------|----------------------|-----------|---|-----------------------|-------------|----------|
| Revision | 1 | Product | HVCP EX 37kW Insight | |  | CABEL OVERVIEW | Drawing no. | Page no. |
| Status | Available | | | 2183617 | | | 1013 | |
| Date of approval | - | Date of created | 2019/08/20 | | | | | |
| Approval by | - | Author | FRALE | Next page | | | 1014 | |

| From | | | Cable | | To | | | Type | Length |
|-------------|---------------|----------|-------------|--------------|--------------|---------------|--|---------------------------------------|--------|
| Description | Ref. position | Function | Description | Page/lineway | Description | Ref. position | Function | | |
| -X1 | 235/5 | | -W124 | 235/5 | -CF-DPS2 | 235/6 | Control Filter DP switch 2 Contr. DPS 3-4 | 2x1.0mm ² | |
| -X1 | 235/7 | | -W125 | 235/7 | -S14 | 235/8 | TVFD2Limit Switch Lower closed (Rotary valve 2 Rotation pulses) | 2x1.0mm ² | |
| -X1 | 81/2 | | -W126 | 81/2 | -PTC-MOTOR | 80/1 | Built in sensor overheat Protection | PTC inside motor 2x1.0mm ² | |
| -X1 | 231/5 | | -W135 | 231/5 | -MF-DPS3 | 231/5 | Main Filter DPS | 2x1.0mm ² | |
| -X1 | 231/5 | | -W136 | 231/5 | -MF-DPS4 | 231/5 | Main Filter DPS | 2x1.0mm ² | |
| -X1 | 71/6 | | -W200 | 71/6 | -AUX- E-STOP | 71/6 | E-Stop signal to external control panel | 2x1.0mm ² | |
| -X1 | 82/1 | | -W203 | 82/1 | -AUX1 | 82/1 | E-Stop Controlled 24VDC supply | 2x1.0mm ² | |
| -X1 | 232/4 | | -W204 | 232/4 | -AUX2 | 232/4 | Delta contactor active (motor running) | 2x1.0mm ² | |
| -X1 | 82/6 | | -W205 | 82/6 | -AUX3 | 82/6 | Signal to external system | 2x1.0mm ² | |
| -X1 | 239/1 | | -W207 | 239/1 | -V1 | 239/1 | Filter Cleaning Valve V1 | 2x1.0mm ² | |
| -X1 | 239/3 | | -W208 | 239/3 | -V2 | 239/4 | Filter Cleaning Valve V2 | 2x1.0mm ² | |
| -X1 | 240/1 | | -W209 | 240/1 | -V3 | 240/1 | Filter Cleaning Valve V3 | 2x1.0mm ² | |
| -X1 | 240/4 | | -W210 | 240/4 | -V4 | 240/4 | Filter Cleaning Valve V4 | 2x1.0mm ² | |
| -X1 | 238/6 | | -W211 | 238/6 | -EXT WARNING | 238/6 | External Warning Output | 3x1.0mm ² | |
| -X1 | 238/0 | | -W212 | 238/0 | -EXT ALARM | 238/0 | No summary alarm | 3x1.0mm ² | |
| -PE | 60/6 | PE | -W213 | 241/1 | -V13 | 241/1 | ASC Move | 2x1.0mm ² | |
| -X1 | 241/5 | | -W215 | 241/5 | | | | 5x1.0mm ² | |
| -X1 | 240/6 | | -W217 | 240/9 | -H2 | 240/9 | On/standby lamp (external) | 2x1.0mm ² | |
| -X1 | 242/1 | | -W218 | 242/1 | -AUX-EX-TRIP | 242/1 | EX panel tripped | 2X1.0mm ² | |
| -X1 | 242/4 | | -W219 | 242/4 | -V7 | 242/4 | Filter Cleaning Valve V7 | 2X1.0mm ² | |
| -X1 | 242/7 | | -W220 | 242/7 | -V8 | 242/7 | Filter Cleaning Valve V8 | 2X1.0mm ² | |
| -X1 | 243/1 | | -W221 | 243/1 | -SH1 | 243/1 | N-S button lamp | 2x1.0mm ² | |
| -X1 | 243/4 | | -W222 | 243/4 | -V18 | 243/4 | Flush valve 1 | 2X1.0mm ² | |
| -X1 | 243/6 | | -W223 | 243/6 | -V19 | 243/7 | Flush valve 2 | 2X1.0mm ² | |
| -X1 | 244/1 | | -W224 | 244/1 | -V20 | 244/1 | Flush valve 3 | 2X1.0mm ² | |
| -X1 | 244/4 | | -W225 | 244/4 | -V21 | 244/4 | Flush valve 4 | 3x1.0mm ² | |
| -X1 | 81/4 | | -W226 | 81/4 | | | | Permanent 24VDC(max 1A) | |
| -X1 | 81/5 | | -W227 | 81/5 | | | | PTC inside motor 2x1.0mm ² | |

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|------------------|---------------|-----------------|----------------------|---|---|-----------------------|-----------------------|----------------|-------------|
| Revision | 1 | Product | HVCP EX 37kW Insight | |  | CABEL OVERVIEW | Drawing no. | Page no. | |
| Status | Available | | |  | | | CABEL OVERVIEW | 2183617 | 1014 |
| Date of approval | - | Date of created | 2019/08/20 | | | | | | |
| Approval by | - | Author | FRALE | | | | | | |
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| From | | | Cable | | To | | | Type | Length |
|-------------|---------------|-----------------------------------|-------------|--------------|-----------------|---------------|------------------------------------|---------------------------------------|--------|
| Description | Ref. position | Function | Description | Page/lineway | Description | Ref. position | Function | | |
| -X1 | 81/8 | | -W228 | 81/8 | | | | PTC inside motor 2x1.0mm ² | |
| -X1 | 240/7 | | -W236 | 240/7 | -AUX4 | 240/7 | Ready / idle signal | 2x1.0mm ² | |
| -PBC1 | 210/2 | KTP401 Touch panel | -W500 | 210/2 | -PBC1 | 210/5 | PLC S7-1200 input | Shielded ethernet cable | |
| -X1 | 248/6 | Spare Terminal (20) Not Specified | -W503 | 248/6 | -SP1 | 248/7 | AI:1 Optional: Pressure Transducer | 3x1.0mm ² | |
| -X1 | 248/6 | Spare Terminal (20) Not Specified | -W504 | 248/6 | -SP2 | 248/7 | AI:1 Optional: Pressure Transducer | 3x1.0mm ² | |
| -X1 | 249/1 | Spare Term | -WX1 | 249/1 | -SPARE_TERMINAL | 249/1 | -SPARE_TERMINAL | 2x1.0mm ² | |
| -X1 | 249/3 | Spare Term | -WX2 | 249/3 | -SPARE_TERMINAL | 249/3 | -SPARE_TERMINAL | 2x1.0mm ² | |
| -X1 | 249/5 | Spare Term | -WX3 | 249/5 | -SPARE_TERMINAL | 249/5 | -SPARE_TERMINAL | 2x1.0mm ² | |
| -X1 | 249/6 | Spare Term | -WX4 | 249/6 | -SPARE_TERMINAL | 249/6 | -SPARE_TERMINAL | 2x1.0mm ² | |
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| Revision | 1 | Product | HVCP EX 37kW Insight | |  | CABEL OVERVIEW | Drawing no. | Page no. |
| Status | Available | Date of created | 2019/08/20 | 2183617 | | | 1015 | |
| Date of approval | - | Author | FRALE | | | | | |
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| No. | Connected to (external) | | Terminal | | | Connected to (internal) | | Type | Ref. position | Remarks |
|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|-----------------------|---------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | | |
| 1 | | | -ET1 | 5 | | -Q2 | A2 | UK 2,5 N | 240/1 | |
| 2 | | | -ET1 | 4 | | -Q2 | A1 | UK 2,5 N | 240/1 | |
| 3 | | | -ET1 | 3 | | 24VDC+ | | UK 2,5 N | 234/2 | |
| 4 | | | -ET1 | 1 | | 24VDC+ | | UK 2,5 N | 210/7 | |
| 5 | | | -ET1 | 2 | | -U1 | 24VDC- | UK 2,5 N | 210/7 | |
| 6 | | | -K22 | | | -A1/1 | DQe.3 | PLC-RSC- 24DC/21-21AU | 241/9 | |
| 7 | | | -K22 | | | -K23 | A2 | PLC-RSC- 24DC/21-21AU | 241/9 | |
| 8 | | | -K22 | | | -K21 | A2 | PLC-RSC- 24DC/21-21AU | 241/9 | |
| 9 | -PE | | -PE | | | 0V | | WT 4 PE | 60/3 | |
| 10 | | | -PE | | | -K9 | A2 | WT 4 PE | 60/6 | |
| 11 | -PE | | -PE | | | -G1 | - | WT 4 PE | 60/6 | |
| 12 | -CF-DPS1 | | -X1 | 66 | | | | | 510/2 | |
| 13 | | | -X1 | 67 | | 24VDC+ | | | 510/3 | |
| 14 | -TERMINAL BOX | 1 | -X1 | 141 | | 24VDC+ | | | 510/3 | |
| 15 | | | -X1 | 40 | | -X1 | 196 | UTT 2,5 - 3044636 | 232/6 | |
| 16 | -LI (EX) | - Blue | -X1 | 40 | | -X1 | 58 | UTT 2,5 - 3044636 | 232/6 | |
| 17 | -PTC-MOTOR | 2 | -X1 | 139 | | -F8 | T1 | UTT 2,5 - 3044636 | 81/2 | |
| 18 | -W226 | 1 | -X1 | 141 | | 24VDC+ | | UTT 2,5 - 3044636 | 81/4 | |
| 19 | -W227 | 1 | -X1 | 143 | | 24VDC+ | | UTT 2,5 - 3044636 | 81/5 | |
| 20 | -W228 | 1 | -X1 | 145 | | 24VAC | | UTT 2,5 - 3044636 | 81/8 | |
| 21 | -X1 | 194 | -X1 | 193 | | | | UTT 2,5 | 70/0 | |
| 22 | -Q4 | 1 | -X1 | 193 | | 24VDC+ | | UTT 2,5 | 70/0 | |
| 23 | -Q4 | 2 | -X1 | 194 | • | | | UTT 2,5 | 70/1 | |
| 24 | -X1 | 193 | -X1 | 194 | • | | | UTT 2,5 | 70/1 | |
| 25 | -MS1 | 13 | -X1 | 1 | a | 24VDC+ | | UTT 2,5 - 3044636 | 232/1 | |
| 26 | -PTC-MOTOR | 1 | -X1 | 140 | | -F8 | T2 | UTT 2,5 - 3044636 | 81/2 | |
| 27 | | | -X1 | 142 | | -X1 | 144 | UTT 2,5 - 3044636 | 81/4 | |
| 28 | -W226 | 2 | -X1 | 142 | | -A21/1 | A2 | UTT 2,5 - 3044636 | 81/4 | |

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|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|---------------------|---------------------------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | | |
| 29 | | | -X1 | 144 | | -X1 | 26 | UTT B 2,5 - 3044636 | 81/6 | |
| 30 | -W227 | 2 | -X1 | 144 | | -X1 | 142 | UTT B 2,5 - 3044636 | 81/6 | |
| 31 | -W228 | 2 | -X1 | 146 | | 0V | | UTT B 2,5 - 3044636 | 81/8 | |
| 32 | -MS1 | 14 | -X1 | 2 | | -A1 | D1b.0 | UTT B 2,5 - 3044636 | 232/2 | |
| 33 | -PS | | -X1 | 3 | | -F6 | 2 | UTT B 2,5 - 3044636 | 230/1 | |
| 34 | -PS | | -X1 | 4 | | -A1 | D1a.0 | UTT B 2,5 - 3044636 | 230/2 | |
| 35 | -X1 | 6 | -X1 | 5 | | | | UTT B 2,5 - 3044636 | 231/8 | |
| 36 | -S3 | 1 | -X1 | 5 | | 24VDC+ | | UTT B 2,5 - 3044636 | 231/8 | |
| 37 | -X1 | 5 | -X1 | 6 | | | | UTT B 2,5 - 3044636 | 231/9 | |
| 38 | -S3 | 2 | -X1 | 6 | | -A1 | D1a.6 | UTT B 2,5 - 3044636 | 231/9 | |
| 39 | -SPARE_TERMINAL4 | 2 | -X1 | 137 | | | | UTT B 2,5 - 3044636 | 249/7 | |
| 40 | -AUX- E-STOP | 1 | -X1 | 15 | | -A21 | 34 | UTT B 2,5 - 3044636 | 71/6 | |
| 41 | -SPARE_TERMINAL1 | 1 | -X1 | 19 | | | | UTT B 2,5 - 3044636 | 249/1 | |
| 42 | -SPARE_TERMINAL2 | 1 | -X1 | 39 | | | | UTT B 2,5 - 3044636 | 249/3 | |
| 43 | -SPARE_TERMINAL3 | 1 | -X1 | 84 | | | | UTT B 2,5 - 3044636 | 249/5 | |
| 44 | -SPARE_TERMINAL4 | 1 | -X1 | 99 | | | | UTT B 2,5 - 3044636 | 249/6 | |
| 45 | -AUX- E-STOP | 2 | -X1 | 16 | | -A21 | 33 | UTT B 2,5 - 3044636 | 71/6 | |
| 46 | -SPARE_TERMINAL1 | 2 | -X1 | 20 | | | | UTT B 2,5 - 3044636 | 249/2 | |
| 47 | -SPARE_TERMINAL2 | 2 | -X1 | 68 | | | | UTT B 2,5 - 3044636 | 249/4 | |
| 48 | | | -X1 | 26 | | -A1 | M | UTT B 2,5 - 3044636 | 82/2 | |
| 49 | -AUX1 | 2 | -X1 | 26 | | -X1 | 144 | UTT B 2,5 - 3044636 | 82/2 | |
| 50 | | | -X1 | 25 | | -K13 | 11 | UTT B 2,5 - 3044636 | 82/1 | |
| 51 | -AUX1 | 1 | -X1 | 25 | | -A21 | 14 | UTT B 2,5 - 3044636 | 82/1 | |
| 52 | -MS2 | 13 | -X1 | 201 | | -Q2 | 95 | UTT B 2,5 | 234/2 | |
| 53 | -MS3 | 13 | -X1 | 202 | | -Q3 | 95 | UTT B 2,5 | 234/7 | |
| 54 | | | -X1 | 196 | | -X1 | 198 | UTT B 2,5 | 234/4 | |
| 55 | -S2 | - | -X1 | 196 | | -X1 | 40 | UTT B 2,5 | 234/4 | |
| 56 | | | -X1 | 198 | | -K10 | A2 | UTT B 2,5 | 235/9 | |

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| Date of approval | - | Date of created | 2019/08/20 | | | | | |
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|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|---------------------|---------------------------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | | |
| 57 | -S6 | - | -X1 | 198 | | -X1 | 196 | UTT B 2,5 | 235/9 | |
| 58 | -AUX3 | 1 | -X1 | 29 | | 24VAC(E) | | UTT B 2,5 - 3044636 | 82/6 | |
| 59 | -AUX3 | 2 | -X1 | 30 | | 0V | | UTT B 2,5 - 3044636 | 82/6 | |
| 60 | | | -X1 | 32 | | -K15 | A2 | UTT B 2,5 - 3044636 | 239/8 | |
| 61 | -TB1 | 32 | -X1 | 32 | | -K12 | A2 | UTT B 2,5 - 3044636 | 239/8 | |
| 62 | -TB1 | 31 | -X1 | 31 | | -K15 | 14 | UTT B 2,5 - 3044636 | 239/7 | |
| 63 | -X1 | 34 | -X1 | 33 | | | | UTT B 2,5 - 3044636 | 230/4 | |
| 64 | -CAS | | -X1 | 33 | | 24VDC+ | | UTT B 2,5 - 3044636 | 230/4 | |
| 65 | -X1 | 33 | -X1 | 34 | | | | UTT B 2,5 - 3044636 | 230/5 | |
| 66 | -CAS | | -X1 | 34 | | -A1 | D1a.1 | UTT B 2,5 - 3044636 | 230/5 | |
| 67 | -TB1 | 35 | -X1 | 35 | | 24VDC+ | | UTT B 2,5 - 3044636 | 230/6 | |
| 68 | -TB1 | 36 | -X1 | 36 | | -A1 | D1a.2 | UTT B 2,5 - 3044636 | 230/7 | |
| 69 | | | -X1 | 42 | | -K13 | A2 | UTT B 2,5-DIO/O-U | 239/1 | |
| 70 | | | -X1 | 42 | | -D1 | 1 | UTT B 2,5-DIO/O-U | 239/1 | |
| 71 | -V1 | 2 | -X1 | 42 | | -K11 | A2 | UTT B 2,5-DIO/O-U | 239/1 | |
| 72 | | | -X1 | 41 | | -K13 | 14 | UTT B 2,5-DIO/O-U | 239/1 | |
| 73 | -V1 | 1 | -X1 | 41 | | -D1 | 2 | UTT B 2,5-DIO/O-U | 239/1 | |
| 74 | | | -X1 | 44 | | -K14 | A2 | UTT B 2,5-DIO/O-U | 239/3 | |
| 75 | | | -X1 | 44 | | -D2 | 1 | UTT B 2,5-DIO/O-U | 239/3 | |
| 76 | -V2 | 2 | -X1 | 44 | | -K13 | A2 | UTT B 2,5-DIO/O-U | 239/3 | |
| 77 | | | -X1 | 43 | | -K14 | 14 | UTT B 2,5-DIO/O-U | 239/4 | |
| 78 | -V2 | 1 | -X1 | 43 | | -D2 | 2 | UTT B 2,5-DIO/O-U | 239/4 | |
| 79 | -LI (EX) | + Brown | -X1 | 45 | | 24VDC+ | | UTT B 2,5 - 3044636 | 232/7 | |
| 80 | -LI (EX) | Bk/Rd | -X1 | 46 | | -A1 | D1b.2 | UTT B 2,5 - 3044636 | 232/8 | |
| 81 | - MF-DPS1 | | -X1 | 49 | | 24VDC+ | | UTT B 2,5 - 3044636 | 231/3 | |
| 82 | - MF-DPS1 | | -X1 | 50 | | -X1 | 187 | UTT B 2,5 - 3044636 | 231/4 | |
| 83 | -S1 | | -X1 | 55 | | 24VDC+ | | UTT B 2,5 - 3044636 | 233/5 | |
| 84 | -S1 | | -X1 | 56 | | -A1 | D1b.4 | UTT B 2,5 - 3044636 | 233/6 | |

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|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|---------------------|---------------------------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | | |
| 85 | -BLI (EX) | Black | -X1 | 57 | | | | UTTBT 2,5 - 3044636 | 231/1 | |
| 86 | -BLI (EX) | + Brown | -X1 | 57 | | | | UTTBT 2,5 - 3044636 | 231/1 | |
| 87 | -X1 | 59 | -X1 | 57 | | 24VDC+ | | UTTBT 2,5 - 3044636 | 231/1 | |
| 88 | -BLI (EX) | Bk/Rd | -X1 | 59 | | | | UTTBT 2,5 - 3044636 | 231/1 | |
| 89 | -X1 | 57 | -X1 | 59 | | -A1 | Dla.4 | UTTBT 2,5 - 3044636 | 231/1 | |
| 90 | | | -X1 | 58 | | -X1 | 40 | UTTBT 2,5 - 3044636 | 231/1 | |
| 91 | -BLI (EX) | - Blue | -X1 | 58 | | -U1 | 24VDC- | UTTBT 2,5 - 3044636 | 231/1 | |
| 92 | -EXT WARNING | 1 | -X1 | 60 | | -K11 | 11 | UTTBT 2,5 - 3044636 | 238/6 | |
| 93 | -EXT WARNING | 2 | -X1 | 61 | | -K11 | 14 | UTTBT 2,5 - 3044636 | 238/6 | |
| 94 | -EXT WARNING | 3 | -X1 | 62 | | -K11 | 12 | UTTBT 2,5 - 3044636 | 238/7 | |
| 95 | -EXT ALARM | 1 | -X1 | 63 | | -K10 | 11 | UTTBT 2,5 - 3044636 | 238/0 | |
| 96 | -AUX2 | 1 | -X1 | 17 | | -K2 | 84 | UTTBT 2,5 - 3044636 | 232/4 | |
| 97 | -AUX2 | 2 | -X1 | 18 | | -K2 | 83 | UTTBT 2,5 - 3044636 | 232/4 | |
| 98 | -X1 | 188 | -X1 | 187 | | | | UTTBT 2,5 | 231/4 | |
| 99 | -MF-DPS2 | | -X1 | 187 | | -X1 | 50 | UTTBT 2,5 | 231/4 | |
| 100 | -X1 | 187 | -X1 | 188 | | | | UTTBT 2,5 | 231/4 | |
| 101 | -MF-DPS2 | | -X1 | 188 | | -X1 | 189 | UTTBT 2,5 | 231/4 | |
| 102 | -X1 | 190 | -X1 | 189 | | | | UTTBT 2,5 | 231/5 | |
| 103 | -MF-DPS3 | | -X1 | 189 | | -X1 | 188 | UTTBT 2,5 | 231/5 | |
| 104 | -X1 | 189 | -X1 | 190 | | | | UTTBT 2,5 | 231/5 | |
| 105 | -MF-DPS3 | | -X1 | 190 | | -X1 | 191 | UTTBT 2,5 | 231/5 | |
| 106 | -X1 | 192 | -X1 | 191 | | | | UTTBT 2,5 | 231/5 | |
| 107 | -MF-DPS4 | | -X1 | 191 | | -X1 | 190 | UTTBT 2,5 | 231/5 | |
| 108 | -X1 | 191 | -X1 | 192 | | | | UTTBT 2,5 | 231/6 | |
| 109 | -MF-DPS4 | | -X1 | 192 | | -A1 | Dla.5 | UTTBT 2,5 | 231/6 | |
| 110 | -EXT ALARM | 2 | -X1 | 64 | | -K10 | 14 | UTTBT 2,5 - 3044636 | 238/1 | |
| 111 | -EXT ALARM | 3 | -X1 | 65 | | -K10 | 12 | UTTBT 2,5 - 3044636 | 238/1 | |
| 112 | -CF-DPS1 | | -X1 | 67 | | 24VDC+ | | UTTBT 2,5 - 3044636 | 233/1 | |

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|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|---------------------|---------------------------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | | |
| 113 | -CF-DPS1 | | -X1 | 66 | | -A1 | D1b.3 | UTT B 2,5 - 3044636 | 233/0 | |
| 114 | -X1 | 72 | -X1 | 71 | | | | UTT B 2,5 - 3044636 | 241/0 | |
| 115 | -W213 | 1 | -X1 | 71 | | 24VAC(E) | | UTT B 2,5 - 3044636 | 241/0 | |
| 116 | -X1 | 71 | -X1 | 72 | | -K19 | 11 | UTT B 2,5 - 3044636 | 241/1 | |
| 117 | -X1 | 75 | -X1 | 73 | | | | UTT B 2,5 - 3044636 | 241/1 | |
| 118 | -V13 | 1 | -X1 | 73 | | -K19 | 14 | UTT B 2,5 - 3044636 | 241/1 | |
| 119 | -W213 | 4 | -X1 | 74 | | -K19 | 12 | UTT B 2,5 - 3044636 | 241/1 | |
| 120 | -W110 | 10 | -X1 | 75 | | | | UTT B 2,5 - 3044636 | 241/3 | |
| 121 | -X1 | 73 | -X1 | 75 | | -K20 | 11 | UTT B 2,5 - 3044636 | 241/3 | |
| 122 | -MV1 | 76 | -X1 | 76 | | 0V | | UTT B 2,5 - 3044636 | 241/3 | |
| 123 | -MV1 | 77 | -X1 | 77 | | -K20 | 14 | UTT B 2,5 - 3044636 | 241/3 | |
| 124 | -MV1 | 78 | -X1 | 78 | | -K20 | 12 | UTT B 2,5 - 3044636 | 241/3 | |
| 125 | | | -X1 | 79 | | -K24 | 11 | UTT B 2,5 - 3044636 | 241/5 | |
| 126 | -W215 | 1 | -X1 | 79 | | -X1 | 87 | UTT B 2,5 - 3044636 | 241/5 | |
| 127 | -W215 | 3 | -X1 | 81 | | -K21 | 11 | UTT B 2,5 - 3044636 | 241/5 | |
| 128 | -W215 | 4 | -X1 | 82 | | -K21 | 14 | UTT B 2,5 - 3044636 | 241/6 | |
| 129 | -W215 | 5 | -X1 | 83 | | -K21 | 12 | UTT B 2,5 - 3044636 | 241/6 | |
| 130 | | | -X1 | 80 | | -K21 | A2 | UTT B 2,5 - 3044636 | 241/5 | |
| 131 | -W215 | 2 | -X1 | 80 | | -K20 | A2 | UTT B 2,5 - 3044636 | 241/5 | |
| 132 | | | -X1 | 87 | ● | -X1 | 79 | UTT B 2,5 - 3044636 | 240/6 | |
| 133 | | | -X1 | 87 | ● | -K17/1 | 11 | UTT B 2,5 - 3044636 | 240/6 | |
| 134 | | | -X1 | 88 | b | -K18 | A2 | UTT B 2,5 - 3044636 | 240/6 | |
| 135 | -H2 | X2 | -X1 | 88 | | -K17 | A2 | UTT B 2,5 - 3044636 | 240/6 | |
| 136 | -S7 | 1 | -X1 | 101 | | 24VDC+ | | UTT B 2,5 - 3044636 | 234/2 | |
| 137 | -MS2 | 14 | -X1 | 102 | | | | UTT B 2,5 - 3044636 | 234/1 | |
| 138 | -S7 | 2 | -X1 | 102 | | -A2 | D1a.0 | UTT B 2,5 - 3044636 | 234/1 | |
| 139 | -S8 | 1 | -X1 | 103 | | | | UTT B 2,5 - 3044636 | 234/4 | |
| 140 | -S2 | + | -X1 | 103 | | 24VDC+ | | UTT B 2,5 - 3044636 | 234/4 | |

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|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|---------------------|---------------------------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | | |
| 141 | -S8 | 2 | -X1 | 104 | | | | UTT B 2,5 - 3044636 | 234/3 | |
| 142 | -S2 | Signal | -X1 | 104 | | -A2 | Dla.1 | UTT B 2,5 - 3044636 | 234/3 | |
| 143 | -S9 | 1 | -X1 | 105 | | 24VDC+ | | UTT B 2,5 - 3044636 | 234/6 | |
| 144 | -MS3 | 14 | -X1 | 106 | | | | UTT B 2,5 - 3044636 | 234/5 | |
| 145 | -S9 | 2 | -X1 | 106 | | -A2 | Dla.2 | UTT B 2,5 - 3044636 | 234/5 | |
| 146 | -S10 | 1 | -X1 | 107 | | 24VDC+ | | UTT B 2,5 - 3044636 | 234/9 | |
| 147 | -S10 | 2 | -X1 | 108 | | -A2 | Dla.3 | UTT B 2,5 - 3044636 | 234/8 | |
| 148 | -S11 | 1 | -X1 | 109 | | 24VDC+ | | UTT B 2,5 - 3044636 | 235/2 | |
| 149 | -S11 | 2 | -X1 | 110 | | -A2 | Dla.4 | UTT B 2,5 - 3044636 | 235/1 | |
| 150 | -S12 | 1 | -X1 | 111 | | 24VDC+ | | UTT B 2,5 - 3044636 | 235/4 | |
| 151 | -S12 | 2 | -X1 | 112 | | -A2 | Dla.5 | UTT B 2,5 - 3044636 | 235/3 | |
| 152 | -CF-DPS2 | | -X1 | 113 | | 24VDC+ | | UTT B 2,5 - 3044636 | 235/6 | |
| 153 | -CF-DPS2 | | -X1 | 114 | | -A2 | Dla.6 | UTT B 2,5 - 3044636 | 235/5 | |
| 154 | -S14 | 1 | -X1 | 115 | | | | UTT B 2,5 - 3044636 | 235/8 | |
| 155 | -S6 | + | -X1 | 115 | | 24VDC+ | | UTT B 2,5 - 3044636 | 235/8 | |
| 156 | -S14 | 2 | -X1 | 116 | | | | UTT B 2,5 - 3044636 | 235/7 | |
| 157 | -S6 | Signal | -X1 | 116 | | -A2 | Dla.7 | UTT B 2,5 - 3044636 | 235/7 | |
| 158 | -AUX-EX-TRIP | 1 | -X1 | 117 | | -K23 | 11 | UTT B 2,5 - 3044636 | 242/1 | |
| 159 | -AUX-EX-TRIP | 2 | -X1 | 118 | | -K23 | 14 | UTT B 2,5 - 3044636 | 242/1 | |
| 160 | | | -X1 | 120 | | -K24 | A2 | UTT B 2,5-DIO/O-U | 242/4 | |
| 161 | | | -X1 | 120 | | -D5 | 1 | UTT B 2,5-DIO/O-U | 242/4 | |
| 162 | -V7 | 2 | -X1 | 120 | | -K23 | A2 | UTT B 2,5-DIO/O-U | 242/4 | |
| 163 | -Q3 | IN1 | -X1 | 119 | | -K24 | 14 | UTT B 2,5-DIO/O-U | 242/4 | |
| 164 | -V7 | 1 | -X1 | 119 | | -D5 | 2 | UTT B 2,5-DIO/O-U | 242/4 | |
| 165 | | | -X1 | 122 | | -K25 | A2 | UTT B 2,5-DIO/O-U | 242/7 | |
| 166 | | | -X1 | 122 | | -D6 | 1 | UTT B 2,5-DIO/O-U | 242/7 | |
| 167 | -V8 | 2 | -X1 | 122 | | -K24 | A2 | UTT B 2,5-DIO/O-U | 242/7 | |
| 168 | | | -X1 | 121 | | -K25 | 14 | UTT B 2,5-DIO/O-U | 242/7 | |

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| Revision | 1 | Product | HVCP EX 37kW Insight | |  | TERMINAL LIST | Drawing no. | Page no. |
| Status | Available | | | 2183617 | | | 1021 | |
| Date of approval | - | Date of created | 2019/08/20 | | | | | |
| Approval by | - | Author | FRALE | | | | | Next page |
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| No. | Connected to (external) | | Terminal | | | Connected to (internal) | | Type | Ref. position | Remarks |
|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|---------------------|---------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | | |
| 169 | -V8 | 1 | -X1 | 121 | | -D6 | 2 | UTT B 2,5-DIO/O-U | 242/7 | |
| 170 | | | -X1 | 124 | | -X1 | 126 | UTT B 2,5 - 3044636 | 243/1 | |
| 171 | -SH1 | 1 | -X1 | 124 | | -K25 | A2 | UTT B 2,5 - 3044636 | 243/1 | |
| 172 | -SH1 | 2 | -X1 | 123 | | -A2 | DQa.3 | UTT B 2,5 - 3044636 | 243/2 | |
| 173 | | | -X1 | 126 | | -K26 | A2 | UTT B 2,5 - 3044636 | 243/4 | |
| 174 | -V18 | 2 | -X1 | 126 | | -X1 | 124 | UTT B 2,5 - 3044636 | 243/4 | |
| 175 | -V18 | 1 | -X1 | 125 | | -K26 | 14 | UTT B 2,5 - 3044636 | 243/4 | |
| 176 | | | -X1 | 128 | | -K27 | A2 | UTT B 2,5 - 3044636 | 243/6 | |
| 177 | -V19 | 2 | -X1 | 128 | | -K26 | A2 | UTT B 2,5 - 3044636 | 243/6 | |
| 178 | -V19 | 1 | -X1 | 127 | | -K27 | 14 | UTT B 2,5 - 3044636 | 243/7 | |
| 179 | | | -X1 | 130 | | -K28 | A2 | UTT B 2,5 - 3044636 | 244/1 | |
| 180 | -V20 | 2 | -X1 | 130 | | -K27 | A2 | UTT B 2,5 - 3044636 | 244/1 | |
| 181 | -V20 | 1 | -X1 | 129 | | -K28 | 14 | UTT B 2,5 - 3044636 | 244/1 | |
| 182 | | | -X1 | 132 | | -K29 | A2 | UTT B 2,5 - 3044636 | 244/4 | |
| 183 | -V21 | 2 | -X1 | 132 | | -K28 | A2 | UTT B 2,5 - 3044636 | 244/4 | |
| 184 | -V21 | 1 | -X1 | 131 | | -K29 | 14 | UTT B 2,5 - 3044636 | 244/4 | |
| 185 | -H2 | X1 | -X1 | 90 | | | | UTT B 2,5 - 3044636 | 240/7 | |
| 186 | -AUX4 | 2 | -X1 | 90 | b | -K18 | 11 | UTT B 2,5 - 3044636 | 240/7 | |
| 187 | -AUX4 | 1 | -X1 | 89 | ↓ | -K18 | 14 | UTT B 2,5 - 3044636 | 240/7 | |
| 188 | | | -X1 | 52 | | -Q2 | A2 | UTT B 2,5-DIO/O-U | 240/1 | |
| 189 | | | -X1 | 52 | | -D3 | 1 | UTT B 2,5-DIO/O-U | 240/1 | |
| 190 | -V3 | 2 | -X1 | 52 | | -K15 | A2 | UTT B 2,5-DIO/O-U | 240/1 | |
| 191 | -Q2 | IN1 | -X1 | 51 | | -D3 | 2 | UTT B 2,5-DIO/O-U | 240/1 | |
| 192 | -V3 | 1 | -X1 | 51 | | -K16 | 14 | UTT B 2,5-DIO/O-U | 240/1 | |
| 193 | | | -X1 | 54 | | -K17 | A2 | UTT B 2,5 - 3044636 | 240/5 | |
| 194 | | | -X1 | 54 | | -D4 | 1 | UTT B 2,5 - 3044636 | 240/5 | |
| 195 | -V4 | 2 | -X1 | 54 | | -K16 | A2 | UTT B 2,5 - 3044636 | 240/5 | |
| 196 | | | -X1 | 53 | | -D4 | 2 | UTT B 2,5 - 3044636 | 240/4 | |

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| Revision | 1 | Product | HVCP EX 37kW Insight | |  | TERMINAL LIST | Drawing no. 2183617 | Page no. 1022 |
| Status | Available | Date of created | 2019/08/20 | Author | | | | |
| Date of approval | - | | | | | | | |
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| No. | Connected to (external) | | Terminal | | | Connected to (internal) | | Type | Ref. position | Remarks |
|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|---------------------|---------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | | |
| 197 | -V4 | 1 | -X1 | 53 | | -K17/1 | 14 | UTT B 2,5 - 3044636 | 240/4 | |
| 198 | -X1 | 7 | -X1 | 8 | | | | UTT B 2,5 - 3044636 | 70/3 | |
| 199 | | 12 | -X1 | 8 | | -X1 | 9 | UTT B 2,5 - 3044636 | 70/3 | |
| 200 | -X1 | 10 | -X1 | 9 | | | | UTT B 2,5 - 3044636 | 70/5 | |
| 201 | -AUX-SAFE | 1 | -X1 | 9 | | -X1 | 8 | UTT B 2,5 - 3044636 | 70/5 | |
| 202 | -AUX-SAFE | 2 | -X1 | 10 | | | | UTT B 2,5 - 3044636 | 70/5 | |
| 203 | -X1 | 9 | -X1 | 10 | | | | UTT B 2,5 - 3044636 | 70/5 | |
| 204 | -X1 | 12 | -X1 | 11 | | | | UTT B 2,5 - 3044636 | 70/6 | |
| 205 | -S11 | 2 | -X1 | 11 | | | | UTT B 2,5 - 3044636 | 70/6 | |
| 206 | -X1 | 22 | -X1 | 21 | | | | UTT B 2,5 - 3044636 | 70/8 | |
| 207 | -S19 | 2 | -X1 | 21 | | | | UTT B 2,5 - 3044636 | 70/8 | |
| 208 | -S11 | 1 | -X1 | 12 | | | | UTT B 2,5 - 3044636 | 70/6 | |
| 209 | -X1 | 11 | -X1 | 12 | | | | UTT B 2,5 - 3044636 | 70/6 | |
| 210 | -S19 | 1 | -X1 | 22 | | | | UTT B 2,5 - 3044636 | 70/8 | |
| 211 | -X1 | 21 | -X1 | 22 | | | | UTT B 2,5 - 3044636 | 70/8 | |
| 212 | -X1 | 14 | -X1 | 13 | | | | UTT B 2,5 - 3044636 | 70/7 | |
| 213 | -S12 | 2 | -X1 | 13 | | | | UTT B 2,5 - 3044636 | 70/7 | |
| 214 | -X1 | 24 | -X1 | 23 | | | | UTT B 2,5 - 3044636 | 70/9 | |
| 215 | -S20 | 2 | -X1 | 23 | | | | UTT B 2,5 - 3044636 | 70/9 | |
| 216 | -S12 | 1 | -X1 | 14 | | | | UTT B 2,5 - 3044636 | 70/7 | |
| 217 | -X1 | 13 | -X1 | 14 | | | | UTT B 2,5 - 3044636 | 70/7 | |
| 218 | -S20 | 1 | -X1 | 24 | | | | UTT B 2,5 - 3044636 | 70/9 | |
| 219 | -X1 | 23 | -X1 | 24 | | -S4 | 11 | UTT B 2,5 - 3044636 | 70/9 | |
| 220 | -X1 | 48 | -X1 | 47 | | | | UTT B 2,5 - 3044636 | 70/1 | |
| 221 | -FA | 1 | -X1 | 47 | | | | UTT B 2,5 - 3044636 | 70/1 | |
| 222 | -X1 | 47 | -X1 | 48 | | | | UTT B 2,5 - 3044636 | 70/2 | |
| 223 | -FA | 2 | -X1 | 48 | | -K9 | A1 | UTT B 2,5 - 3044636 | 70/2 | |
| 224 | -X1 | 8 | -X1 | 7 | | | | UTT B 2,5 - 3044636 | 70/3 | |

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| Status | Available | | | 2183617 | | | 1023 | |
| Date of approval | - | Date of created | 2019/08/20 | | | | | |
| Approval by | - | Author | FRALE | | | | | Next page |
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| No. | Connected to (external) | | Terminal | | | Connected to (internal) | | Type | Ref. position | Remarks |
|-----|-------------------------|------------|----------|--------|--------|-------------------------|------------|---------------------|----------------|---------|
| | Destination | Connection | Name | Number | Jumper | Destination | Connection | | Page / Lineway | |
| 225 | -S5 | 11 | -X1 | 7 | | -K9 | A1 | UTT B 2,5 - 3044636 | 70/3 | |
| 226 | | | -X1 | 196 | | -X1 | 198 | UTT B 2,5 - 3044636 | 248/7 | |
| 227 | -SP1 | 0V | -X1 | 196 | | -X1 | 134 | UTT B 2,5 - 3044636 | 248/7 | |
| 228 | -SP1 | +24V | -X1 | 195 | | | | UTT B 2,5 - 3044636 | 248/8 | |
| 229 | -SP2 | +24V | -X1 | 195 | | 24VDC+ | | UTT B 2,5 - 3044636 | 248/8 | |
| 230 | -SV1 | DO(NC) | -X1 | 135 | | | | UTT B 2,5 - 3044636 | 248/3 | |
| 231 | | | -X1 | 134 | | -X1 | 196 | UTT B 2,5 - 3044636 | 248/2 | |
| 232 | | | -X1 | 134 | | -R1 | 1 | UTT B 2,5 - 3044636 | 248/2 | |
| 233 | -SV1 | 24VDC- | -X1 | 134 | | -K29 | A2 | UTT B 2,5 - 3044636 | 248/2 | |
| 234 | -SV1 | 24VDC+ | -X1 | 133 | | 24VDC+ | | UTT B 2,5 - 3044636 | 248/2 | |
| 235 | | | -X1 | 136 | | -R1 | 2 | UTT B 2,5 - 3044636 | 248/3 | |
| 236 | -SP2 | Sign | -X1 | 185 | | -K22 | 24 | UTT B 2,5 - 3044636 | 248/6 | |
| 237 | -SP1 | Sign | -X1 | 186 | | -K22 | 22 | UTT B 2,5 - 3044636 | 248/6 | |
| 238 | -SP2 | 0V | -X1 | 198 | | -X1 | 196 | UTT B 2,5 - 3044636 | 248/7 | |
| 239 | -SV1 | Signal | -X1 | 138 | | -K22 | 14 | UTT B 2,5 - 3044636 | 248/3 | |
| | | | | | | | | | | |
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| Revision | 1 | Product | HVCP EX 37kW Insight | |  | TERMINAL LIST | Drawing no. | Page no. |
| Status | Available | Date of created | 2019/08/20 | 2183617 | | | 1024 | |
| Date of approval | - | Author | FRALE | | | | | |
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