

Description : HVCP EX 45kW Insight
Part no. : 2183623/2183563
Drawing no. : 2183553

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Last page no. :1027
Number of pages : 84

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Revision	0	Product	HVCP EX 45kW Insight			FRONTPAGE	Drawing no.	Page no.
Status	Available			2183553			1	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page

Page no.	Title	Last edit date
1	FRONTPAGE	2019-11-29
2	INDEX	2019-11-29
5	REVISION OVERVIEW	2019-08-22
6	PANEL SPECIFICATION	2019-11-18
7	WIRE SPECIFICATION ELECTRICAL INSTALLATION	2019-11-18
8	WIRE SPECIFICATION ELECTRICAL INSTALLATION	2018-01-04
9	FRONT PANEL LAYOUT	2019-11-18
10	PANEL LAYOUT	2019-11-22
11	TERMINAL ROW	2019-11-22
50	POWER SUPPLY	2019-11-18
60	CONTROL VOLTAGE	2019-11-18
70	EMERGENCY STOP CIRCUIT	2019-11-29
71	EMERGENCY STOP CIRCUIT	2019-10-03
80	MOTOR Y-D START	2019-11-19
81	MOTOR PTC SENSOR	2019-11-22
82	POWER SUPPLY 24VAC/24VDC	2019-09-03
83	ROTARY VALVE POWER	2019-11-18
200	PLC POWER SUPPLY	2019-09-24
201	PLC POWER SUPPLY	2019-09-24
210	HMI PANEL	2019-11-18
220	PLC DI/DO REFERENCE	2019-08-29
221	PLC AI REFERENCE	2019-08-22
222	PLC DI/DO SB1222 OPTIONAL	2019-08-07
223	PLC DI/DO SB1222 OPTIONAL	2019-11-29
224	PLC DI/DO SB1222 OPTIONAL	2019-11-29
230	PLC INPUT TERMINALS	2019-11-18
231	PLC INPUT TERMINALS	2019-09-24
232	PLC INPUT TERMINALS	2019-11-29
233	PLC INPUT TERMINALS	2019-11-19

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Revision	0	Product	HVCP EX 45kW Insight			INDEX	Drawing no.	Page no.
Status	Available			2183553			2	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					
1	previous page					Next page	3	

Page no.	Title	Last edit date
234	SM1223 (A2) INPUT TERMINALS	2019-11-18
235	SM1223 (A2) INPUT TERMINALS	2019-11-18
236	SM1223 (A3) INPUT TERMINALS	2019-09-24
237	SM1223 (A3) INPUT TERMINALS	2019-10-03
238	PLC OUTPUT TERMINALS	2019-11-19
239	PLC OUTPUT TERMINALS	2019-11-19
240	PLC OUTPUT TERMINALS	2019-11-19
241	SB1222 OUTPUT	2019-11-19
242	SM1223 (A2) OUTPUT TERMINALS	2019-11-29
243	SM1223 (A2) OUTPUT TERMINALS	2019-11-19
244	SM1223 (A2) OUTPUT TERMINALS	2019-11-29
245	SM1223 (A3) OUTPUT TERMINALS	2019-11-29
246	SM1223 (A3) OUTPUT TERMINALS	2019-11-19
247	SM1223 (A3) OUTPUT TERMINALS	2019-11-19
248	PLC 0-10V DC ANALOGUE INPUT	2019-11-29
249	EX Spare Terminal	2019-11-22
500	STARTER EXTERNAL CONNECTIONS	2019-11-29
501	STARTER EXTERNAL CONNECTIONS	2019-11-29
502	STARTER EXTERNAL CONNECTIONS	2019-11-28
503	STARTER EXTERNAL CONNECTIONS	2019-11-29
504	OPTIONAL CONNECTIONS MASTER-SLAVE	2018-01-04
505	OPTIONAL CONNECTIONS MASTER-SLAVE	2018-01-04
508	VAC ASC CONNECTIONS and OPTIONAL BLI	2019-06-05
509	RBU CONNECTIONS and OPTIONAL BLI	2019-06-05
510	SENSORS VIA AUXILIARY CONNECTION BOX	2019-11-19
	Lists	
1001	COMPONENT LIST	2019-11-18
1002	COMPONENT LIST	2019-11-19
1003	COMPONENT LIST	2019-11-19

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Revision	0	Product	HVCP EX 45kW Insight			INDEX	Drawing no.	Page no.
Status	Available	Date of created	2019/08/20	2183553			3	
Date of approval	-	Author	FRALE					
Approval by	-	2	previous page	Next page			4	

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
30-45kW-380/400/440/460V 50/60Hz

Supply 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: 63Kg

Recyclable Materials: 100%

Labels, markings and other possible accessories according to product BOM

Responsible and Warranty:

Any kind of responsibility and warranty disappears if changes are made by others
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Revision	0	Product	HVCP EX 45kW Insight			PANEL SPECIFICATION	Drawing no.	Page no.
Status	Available	Date of approval	-	2183553			6	
Date of approval	-	Approval by	-					
Approval by	-	Date of created	2019/08/20	Next page			7	
5	previous page	Author	FRALE					

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: --

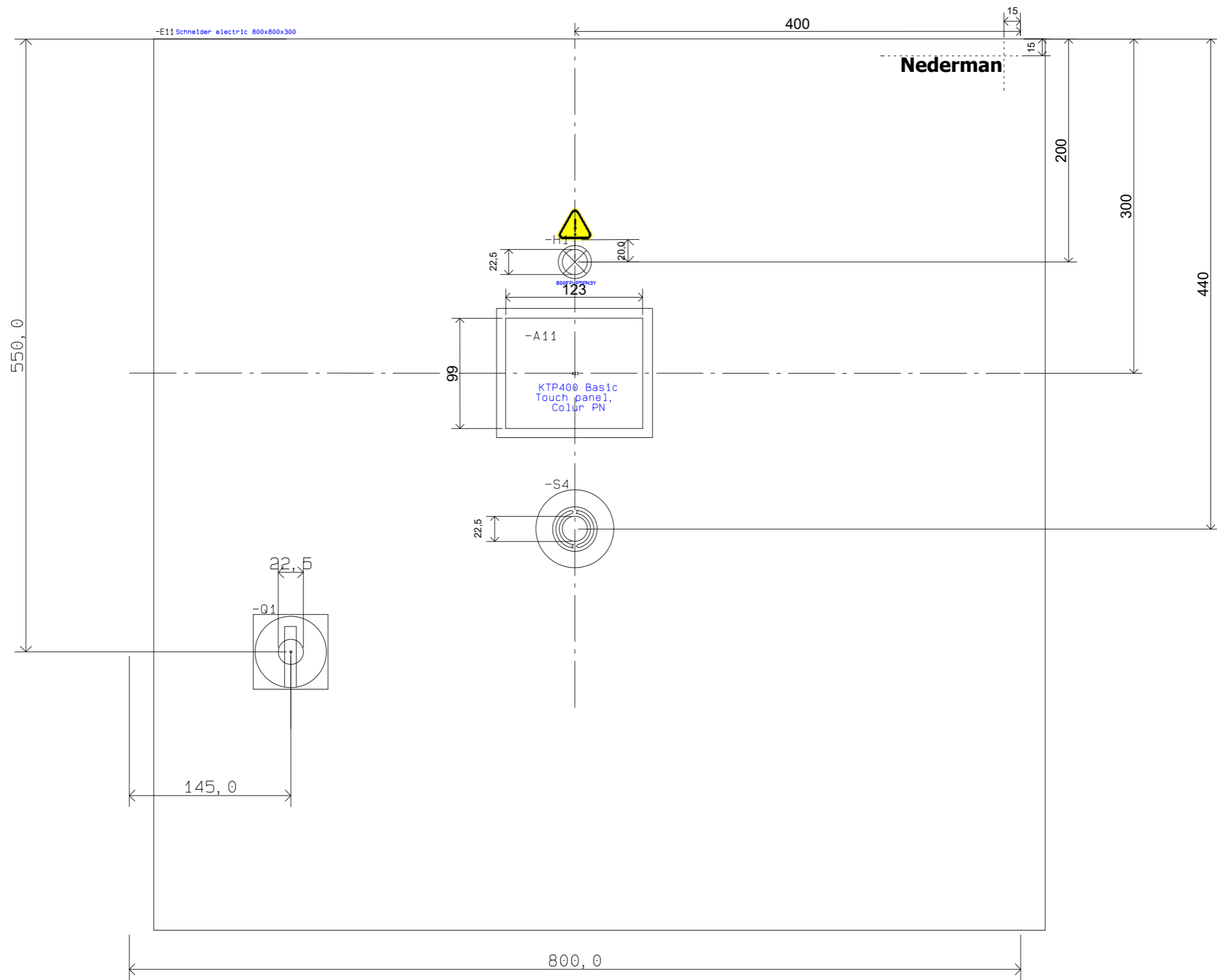
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Revision	0	Product	HVCP EX 45kW Insight			WIRE SPECIFICATION ELECTRICAL INSTALLATION	Drawing no.	Page no.
Status	Available	Date of created	2019/08/20	2183553			7	
Date of approval	-	Author	FRALE					
Approval by	-			Next page			8	
6	previous page							



Components or parts with the text "Marked:" must be marked with specified text. Label, decal or marker cards or equivalent.

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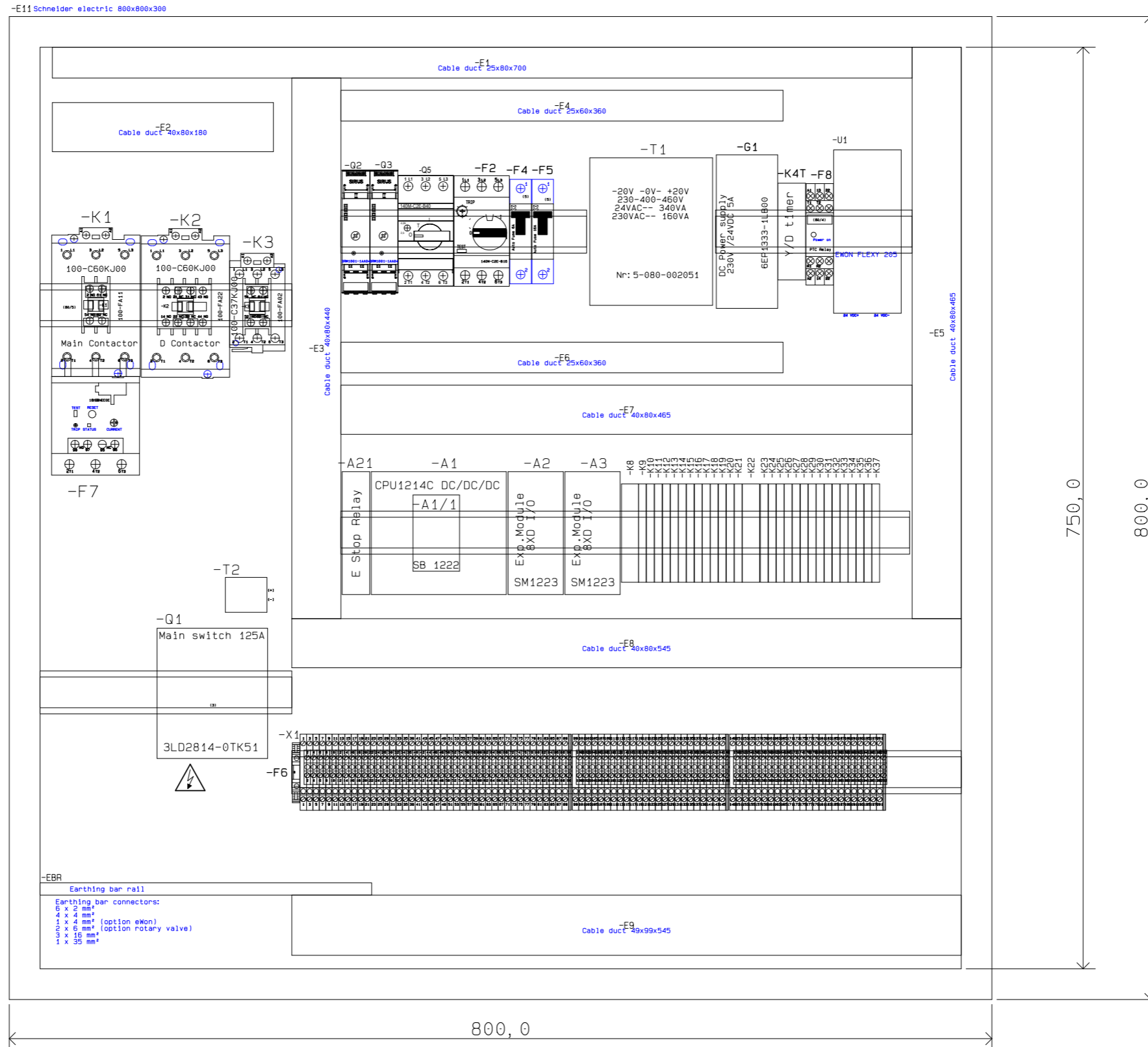
Revision	0	Product	HVCP EX 45kW Insight
Status	Available	Date of created	2019/08/20
Date of approval	-	Author	FRALE
Approval by	-		
8	previous page		



FRONT
PANEL LAYOUT

Drawing no.
2183553

Page no.
9
Next page 10



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

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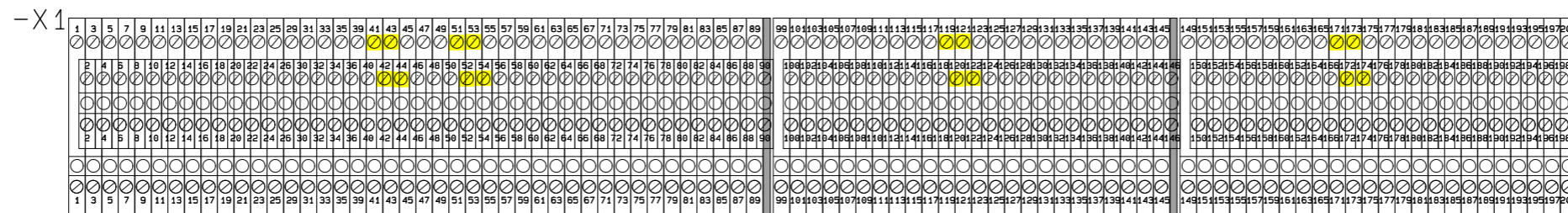
Revision	0	Product	Product
Status	Available	Product	HVCP EX 45kW Insight
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
9	previous page		



PANEL LAYOUT

Drawing no.
2183553

Page no.
10
 Next page 11

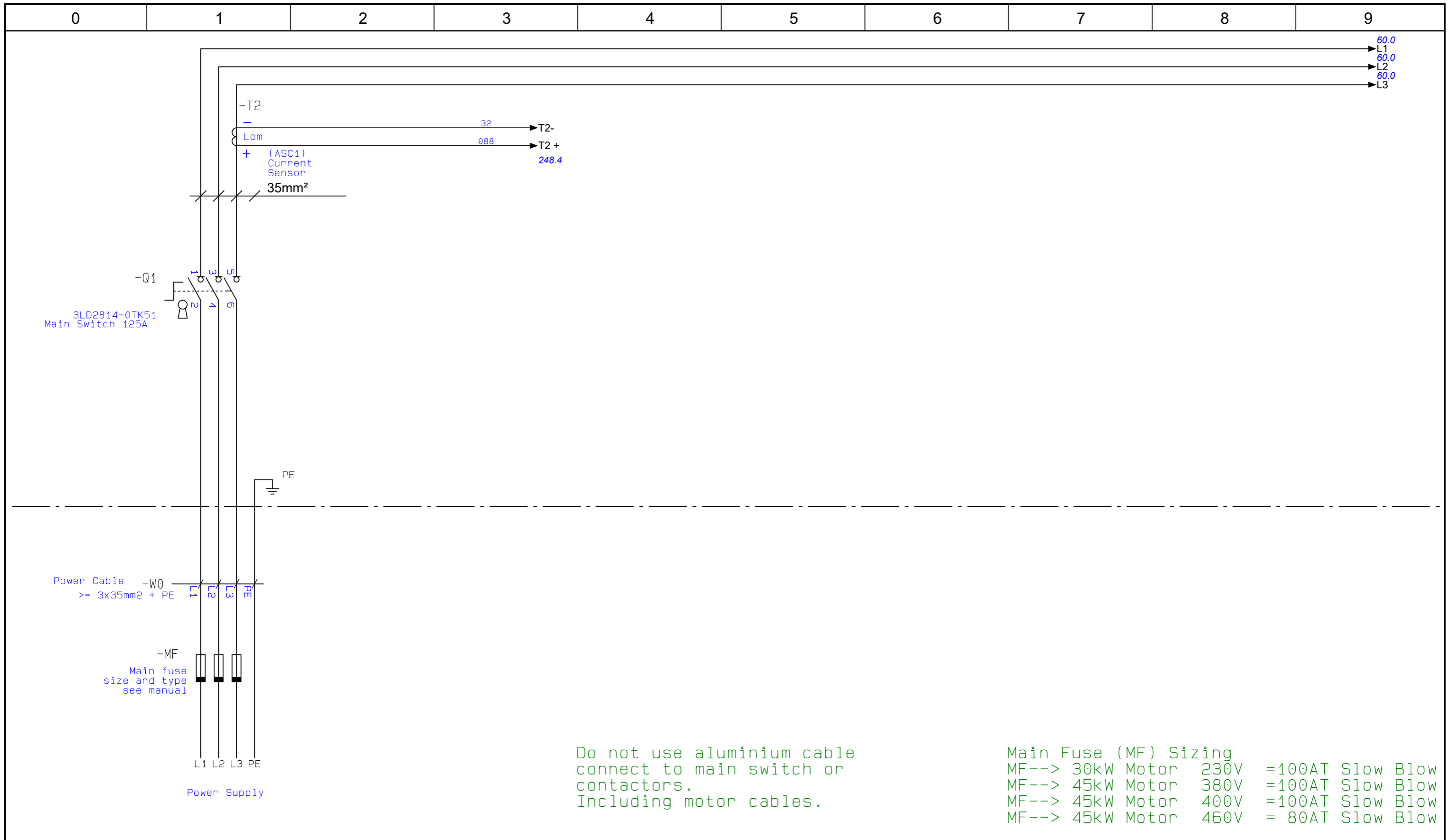


Terminals equipped with diode between levels marked with yellow marker.
Anode on upper level, cathode on lower level.

Terminals with diode:
41-42
43-44
51-52
53-54
119-120
121-122
171-172
173-174

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL ROW	Drawing no. 2183553	Page no.	11
Status	Available	Date of created	2019/08/20					Next page	50
Date of approval	-	Author	FRALE						
Approval by	-								
10	previous page								



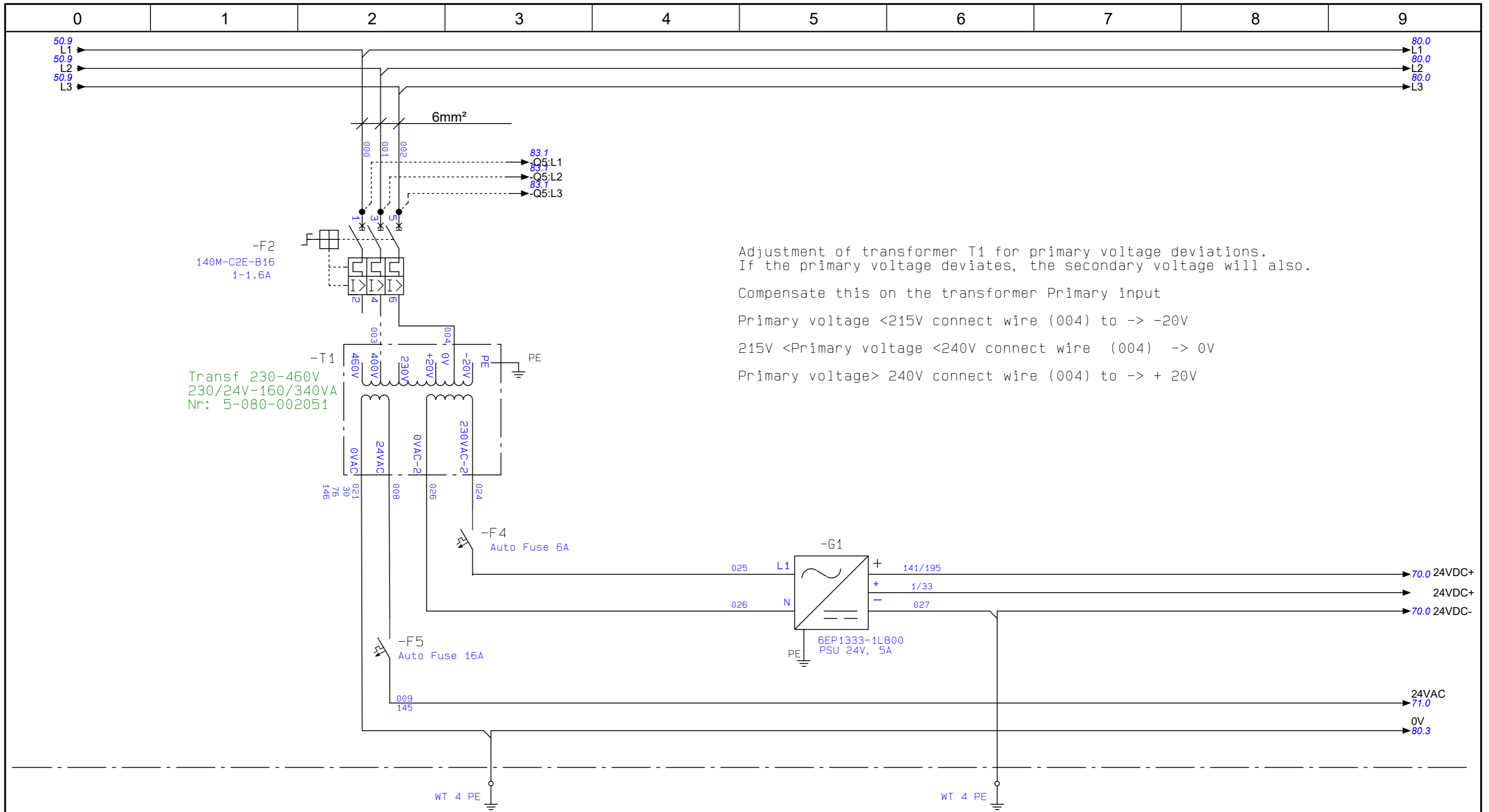
Do not use aluminium cable connect to main switch or contactors. Including motor cables.

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Revision	0	Product	Product
Status	Available	Product	HVCP EX 45kW Insight
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
11	previous page		



POWER SUPPLY	Drawing no.	Page no.
	2183553	50
	Next page	60



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

Transf 230-460V
 230/24V-160/340VA
 Nr: 5-080-002051

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

-F4
 Auto Fuse 6A

-F5
 Auto Fuse 16A

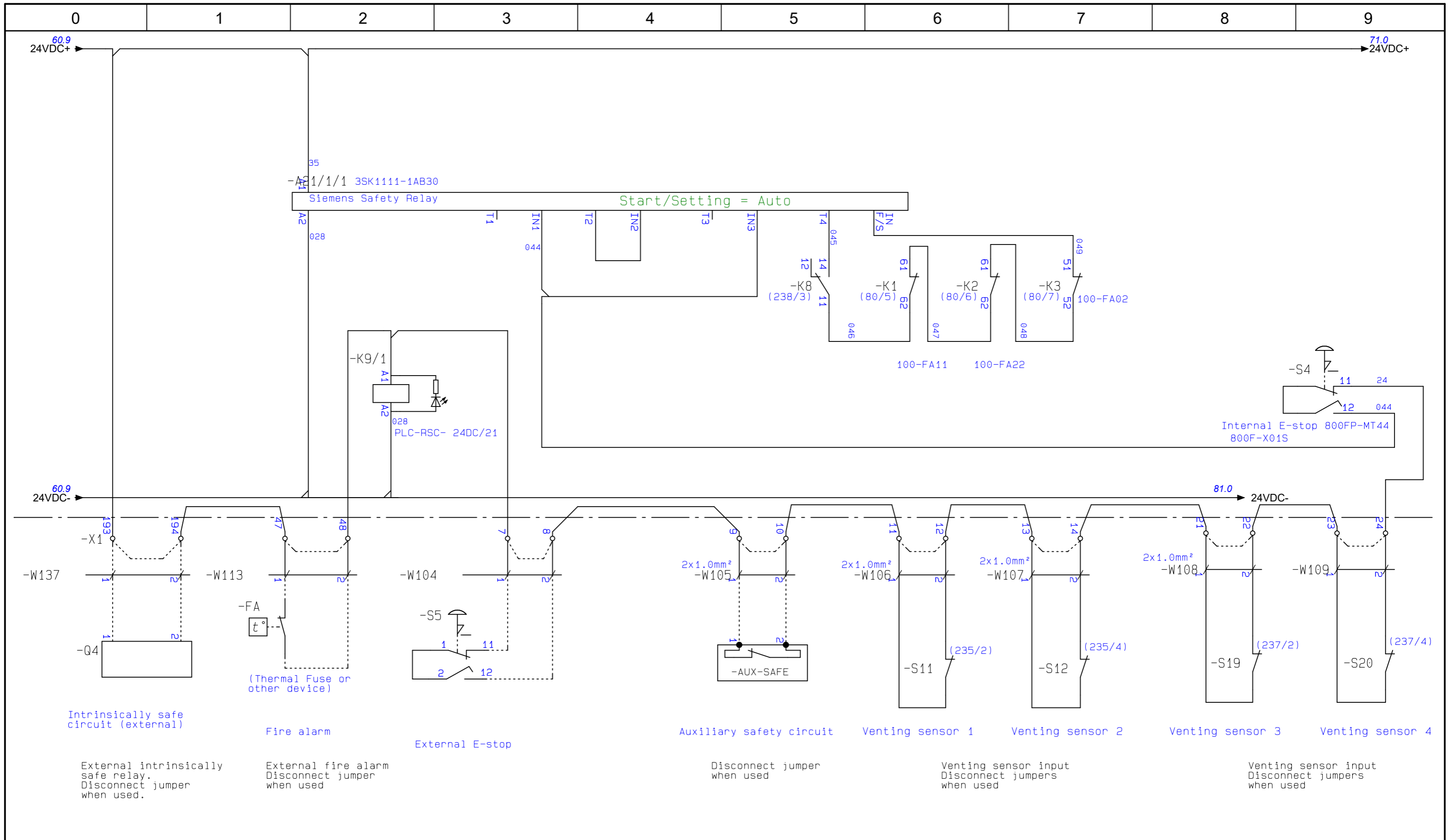
-G1
 6EP1333-1LB00
 PSU 24V, 5A

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Revision	0	Product	HVCP EX 45kW Insight
Status	Available	Date of created	2019/08/20
Date of approval	-	Author	FRALE
Approval by	-		
50	previous page		



CONTROL VOLTAGE	Drawing no.	Page no.
	2183553	60
	Next page	70



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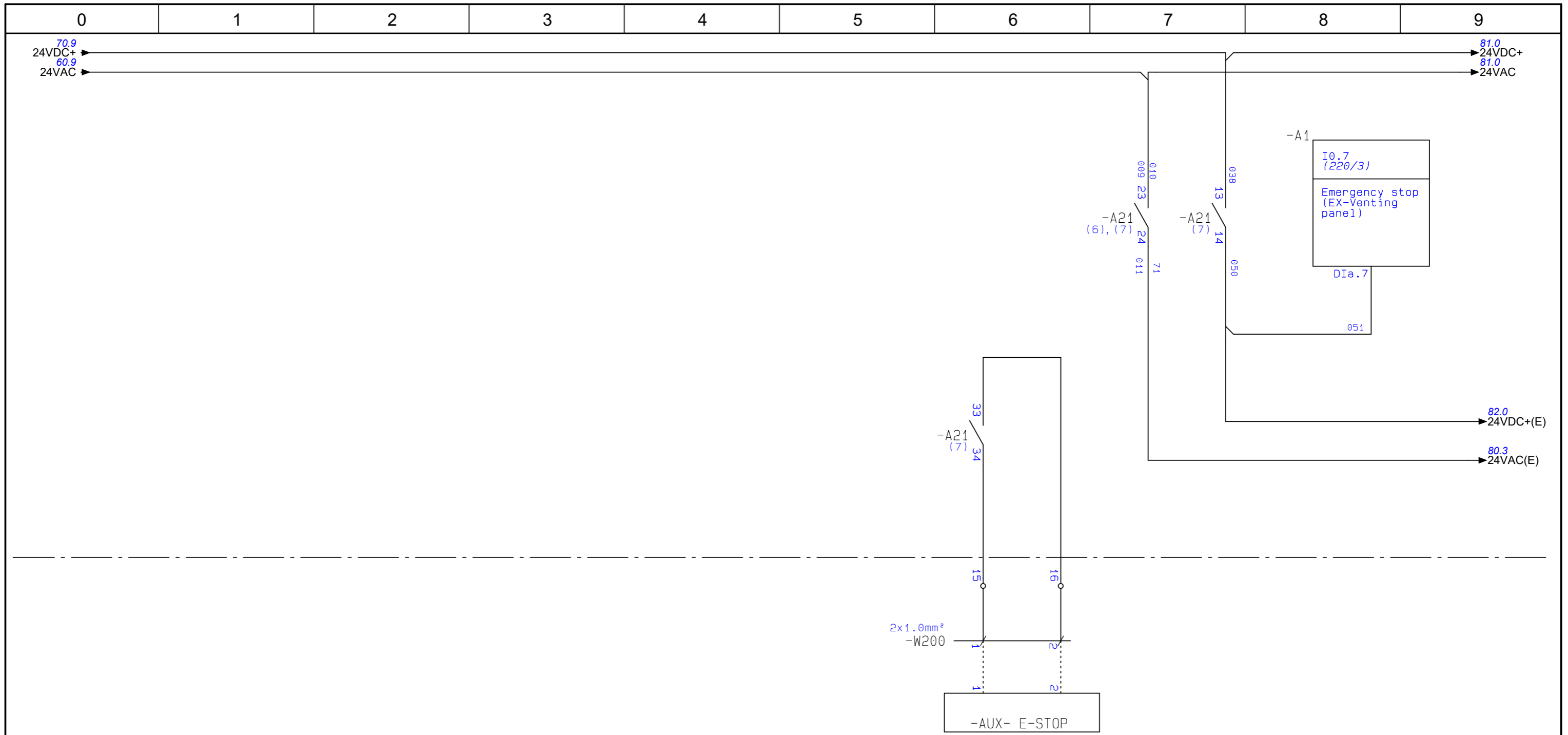
Revision	0	Product	HVCP EX 45kW Insight
Status	Available		
Date of approval	-		
Approval by	-	Date of created	2019/08/20
60	previous page	Author	FRALE



**EMERGENCY STOP
CIRCUIT**

Drawing no.
2183553

Page no.
70
Next page 71



E-Stop signal to external control panel

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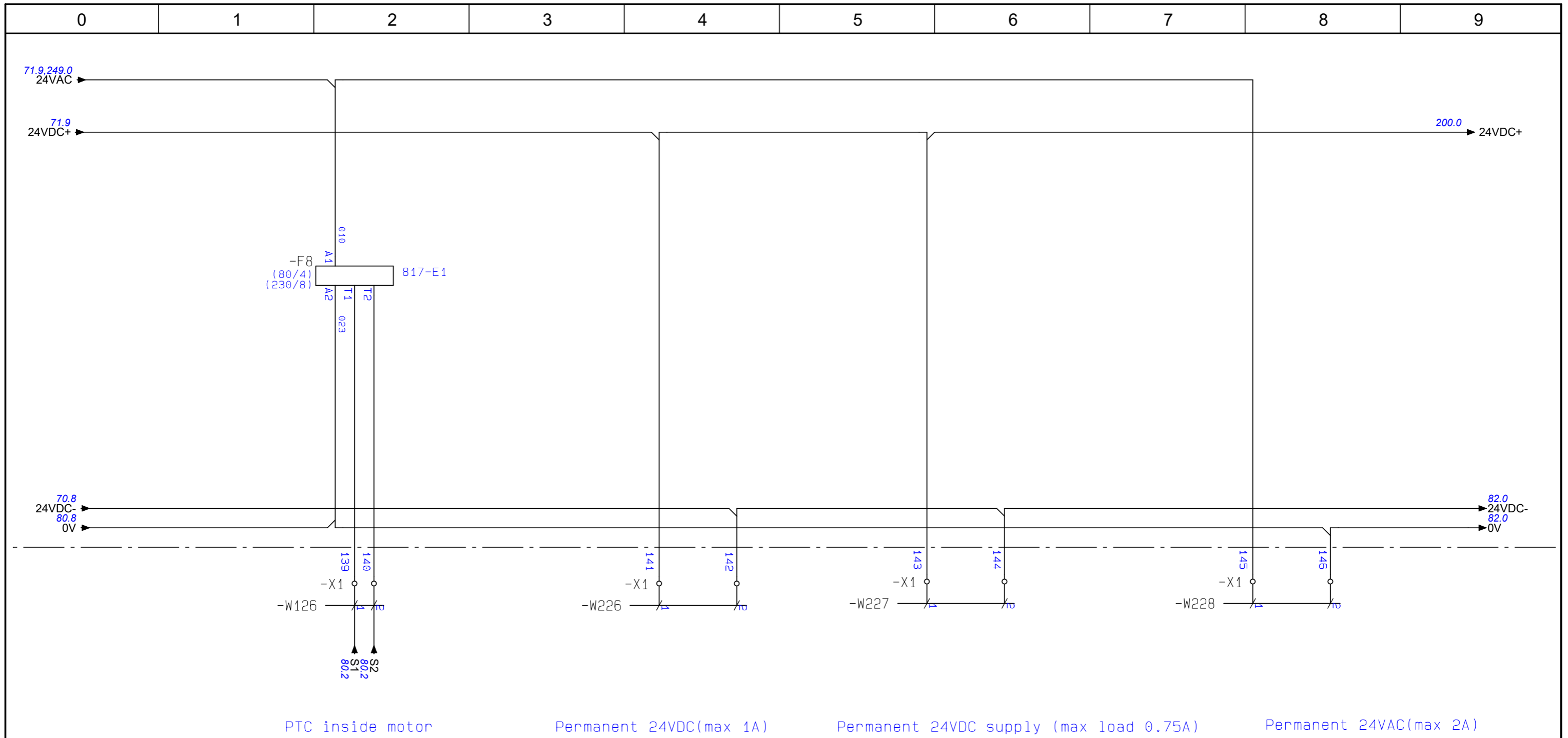
Revision	0	Product	HVCP EX 45kW Insight	
Status	Available	Date of created	2019/08/20	
Date of approval	-	Author	FRALE	
Approval by	-			
70	previous page			



EMERGENCY STOP
CIRCUIT

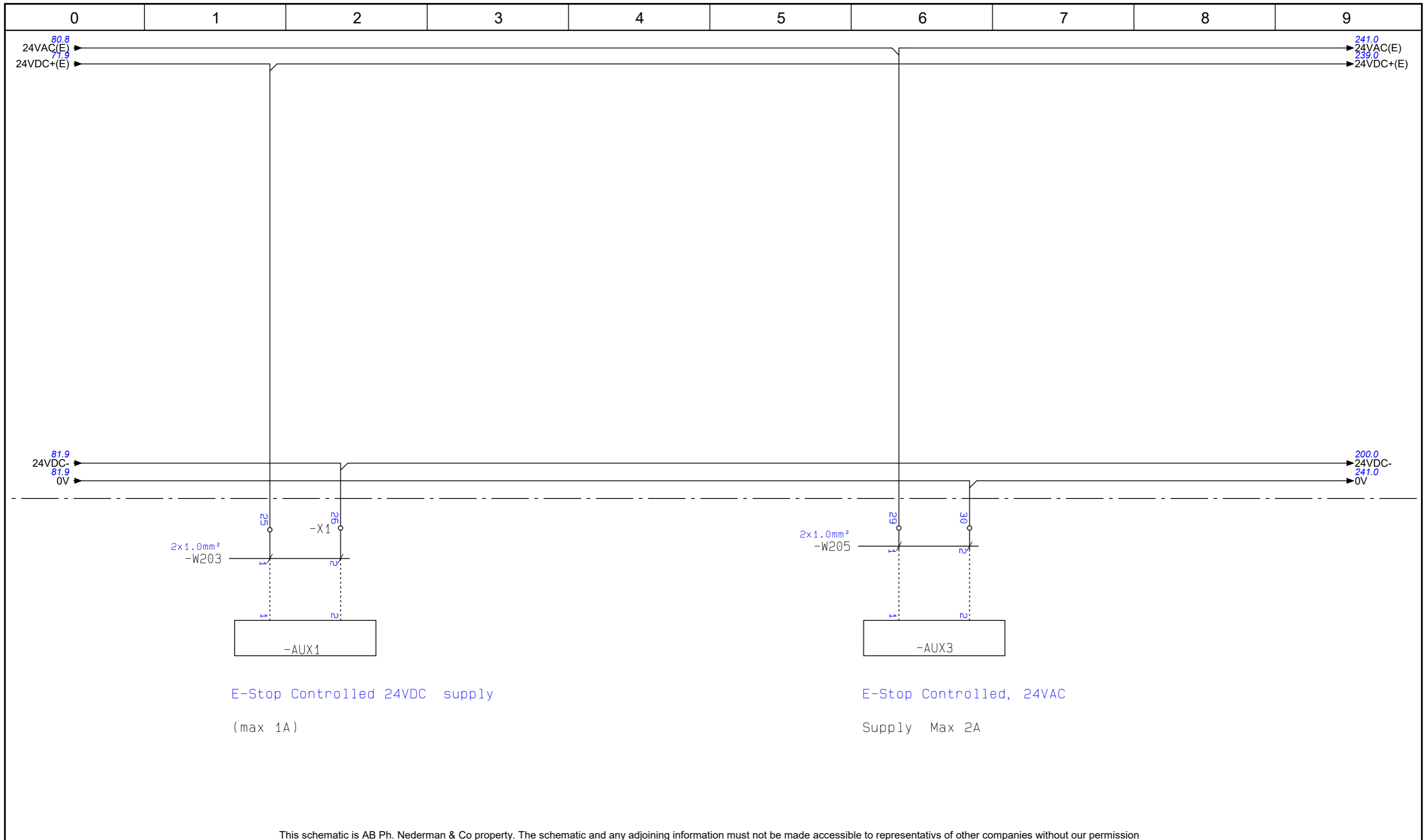
Drawing no.
2183553

Page no.
71
Next page 80



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Revision	0	Product	HVCP EX 45kW Insight			MOTOR PTC SENSOR	Drawing no. 2183553	Page no. 81
Status	Available	Date of created	2019/08/20					
Date of approval	-	Author	FRALE					
Approval by	-							
80	previous page						Next page	82



E-Stop Controlled 24VDC supply
(max 1A)

E-Stop Controlled, 24VAC
Supply Max 2A

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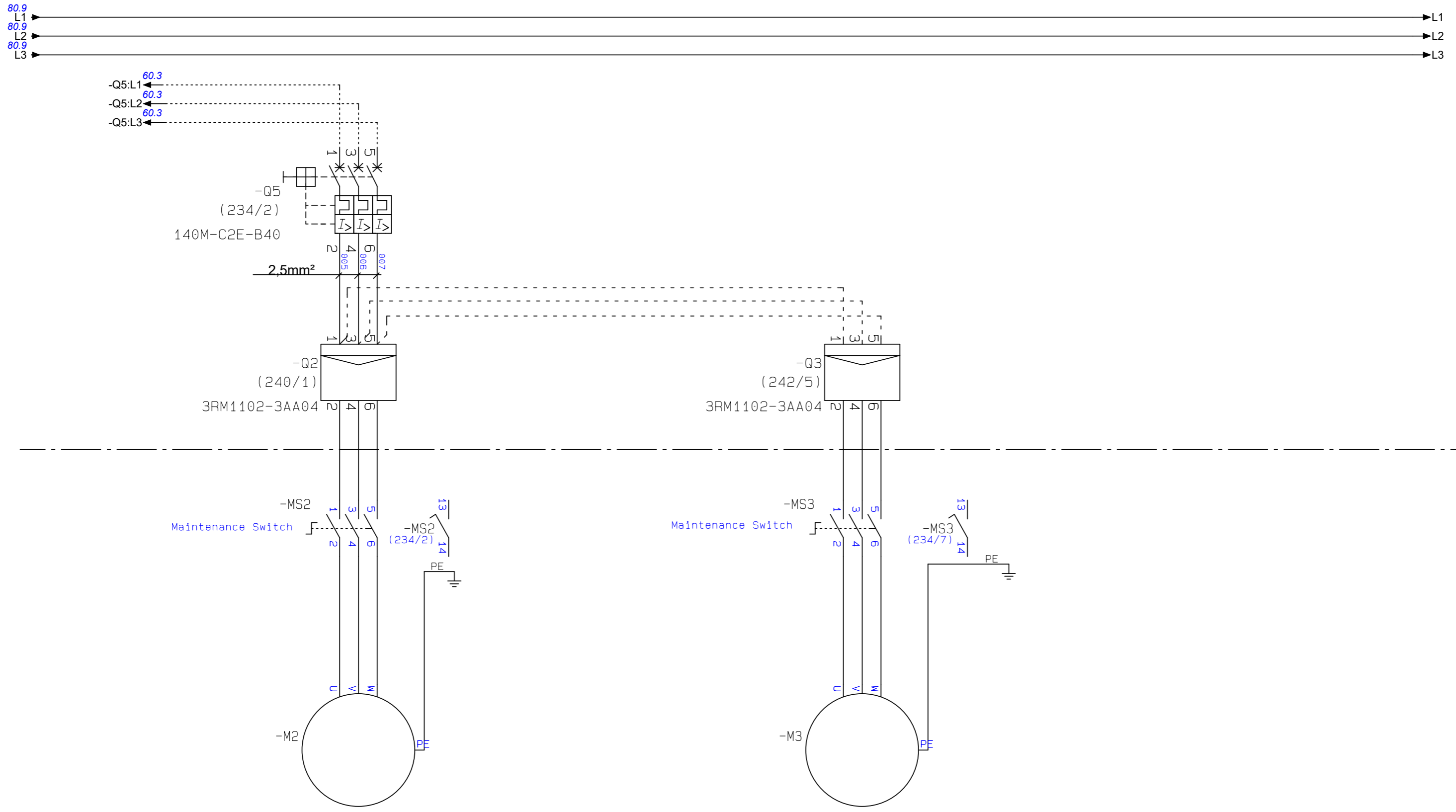
Revision	0	Product	Product
Status	Available	Product	HVCP EX 45kW Insight
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
81	previous page		



POWER SUPPLY
24VAC/24VDC

Drawing no.
2183553

Page no.
82
Next page 83



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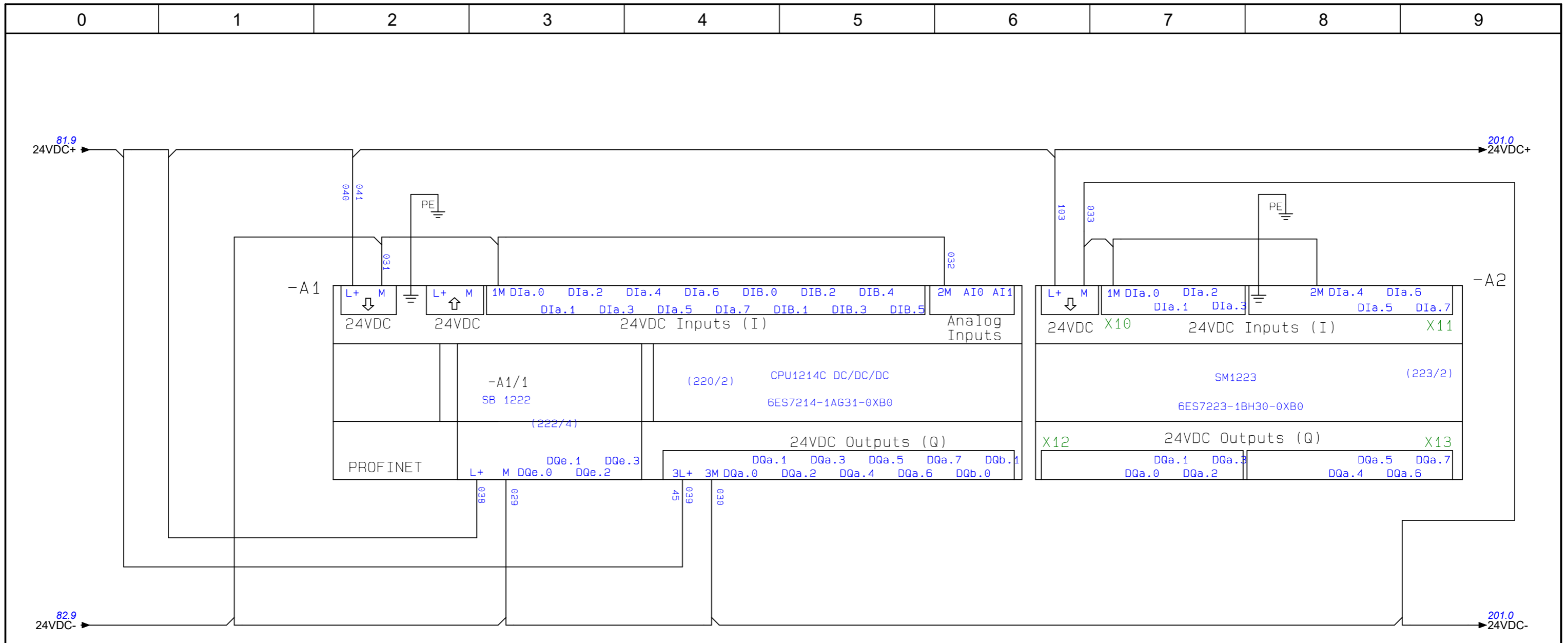
Revision	0	Product	HVCP EX 45kW Insight
Status	Available	Date of created	2019/08/20
Date of approval	-	Author	FRALE
Approval by	-		
82	previous page		



**ROTARY VALVE
POWER**

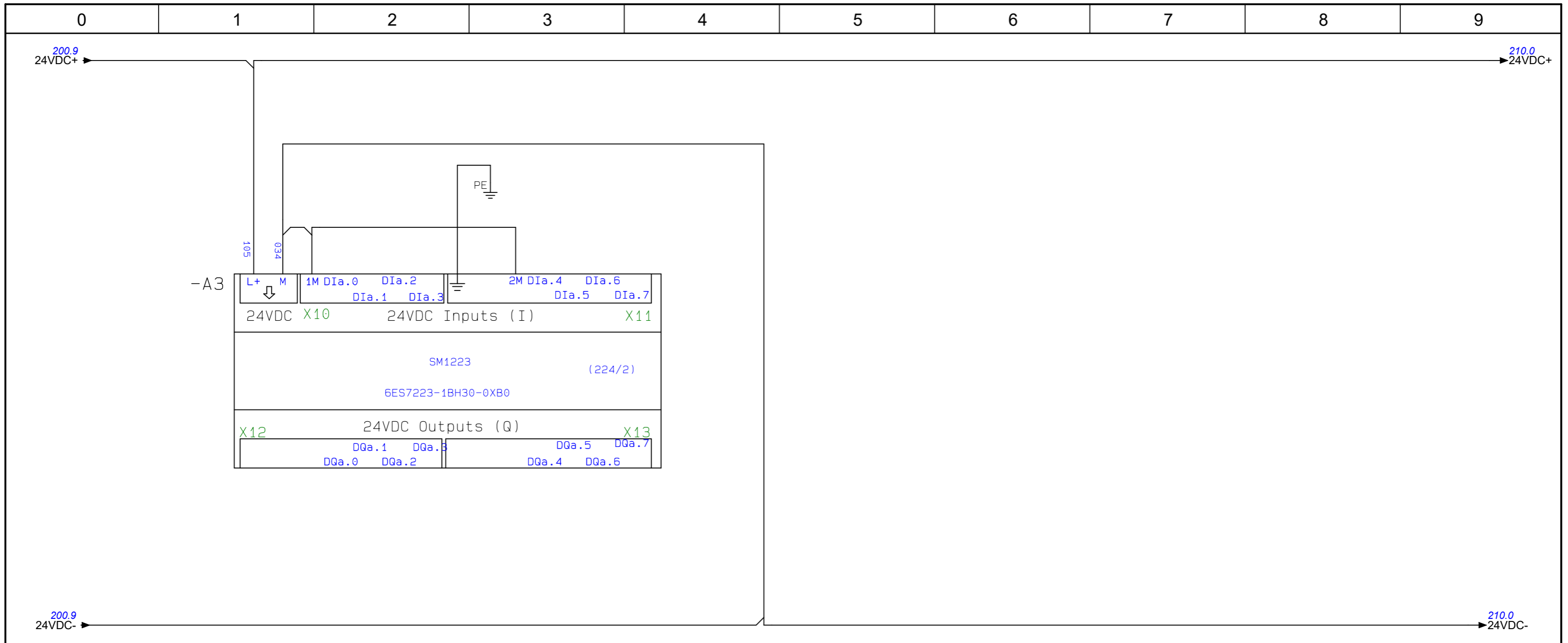
Drawing no.
2183553

Page no.
83
Next page 200



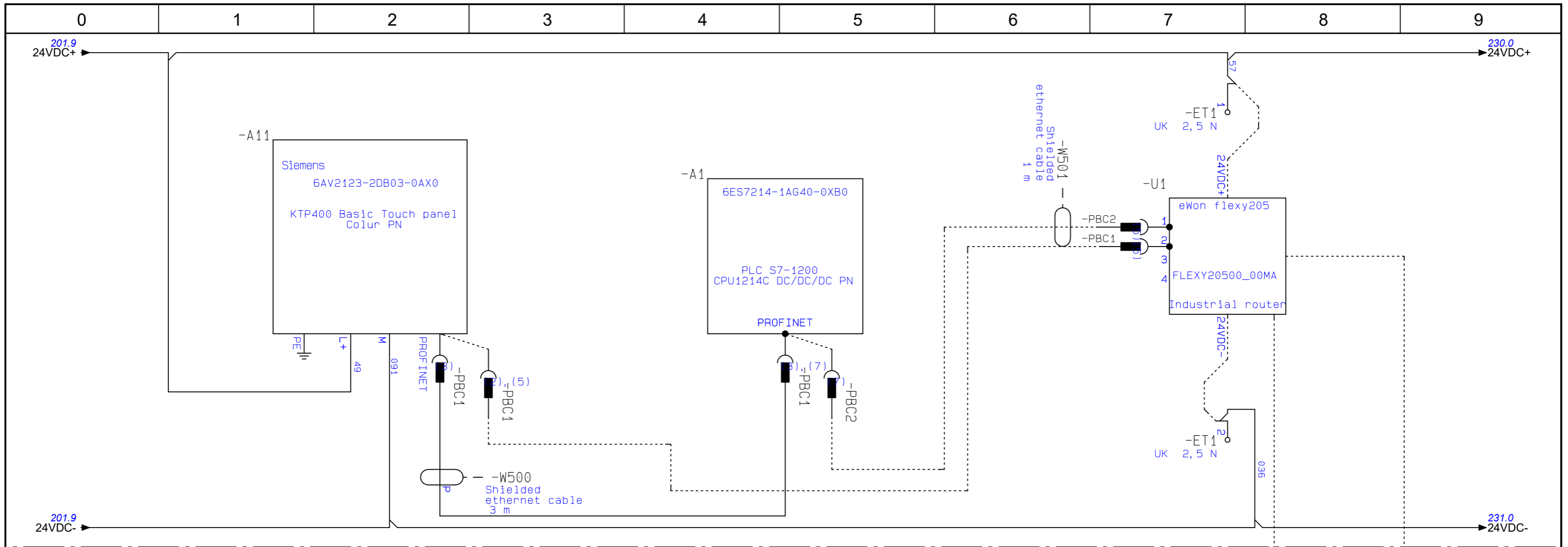
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Revision	0	Product	HVCP EX 45kW Insight			PLC POWER SUPPLY	Drawing no.	Page no.
Status	Available	Date of created	2019/08/20	2183553			200	
Date of approval	-	Author	FRALE					
Approval by	-	Next page	201					
83	previous page							



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Revision	0	Product	HVCP EX 45kW Insight		Nederman	PLC POWER SUPPLY	Drawing no. 2183553	Page no. 201
Status	Available	Date of created	2019/08/20					
Date of approval	-	Author	FRALE					
Approval by	-							
200	previous page						Next page	210



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)

P1
4G antenna

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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Revision	0	Product	HVCP EX 45kW Insight
Status	Available		
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
201	previous page		

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HMI PANEL

Drawing no.
2183553

Page no.
210
Next page 220

-A1

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

-A1

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

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-A1

CPU1214C DC/DC/DC		(220/7), (248/3)
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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-A1/1

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

SM 1223		(2)
Q8.0 (242/2)	EX panel tripped	DQa.0
Q8.1 (242/6)	TVFD 2 upper valve Clean 7	DQa.1
Q8.2 (242/8)	TVFD 2 Lower valve Clean 8	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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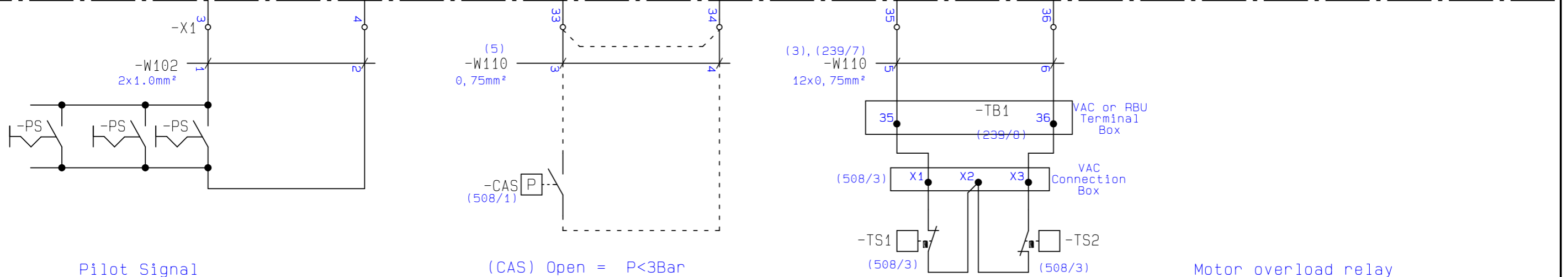
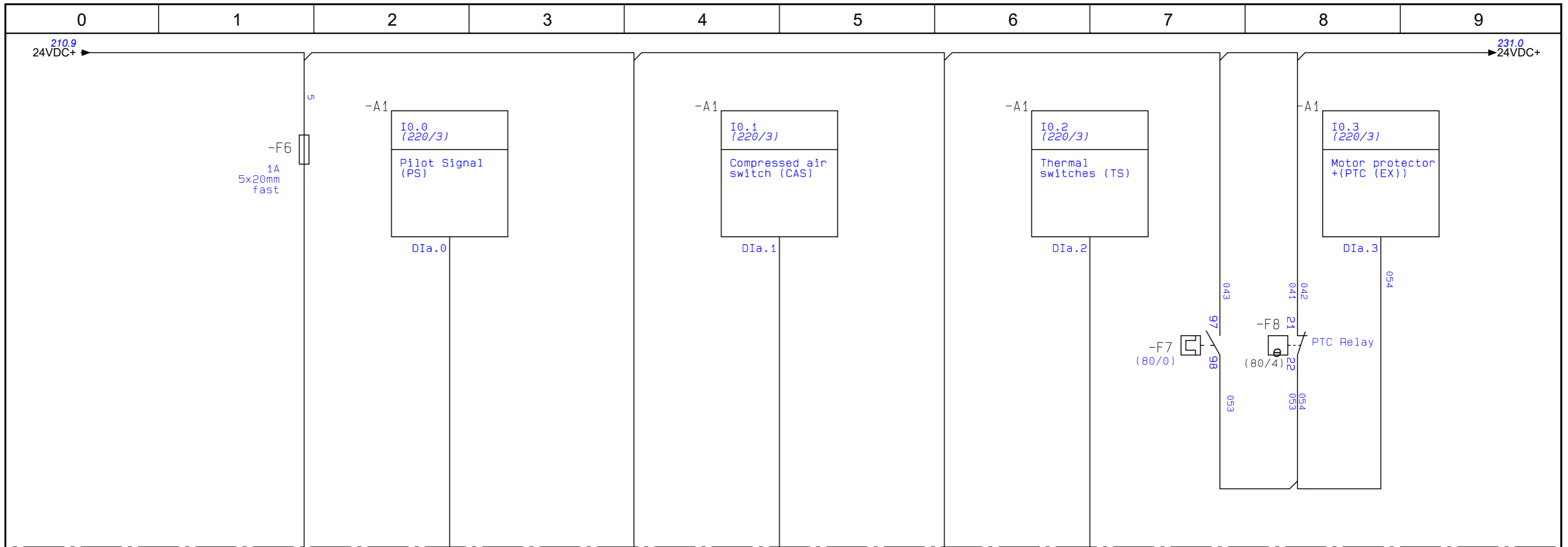
-A3

SM1223		(201/3), (7)
I12.0 (236/1)	TVFD 3 limit switch upper closed	DIa.0
I12.1 (236/3)	TVFD 3 limit switch lower closed	DIa.1
I12.2 (236/5)	TVFD 4 Limit Switch Upper closed	DIa.2
I12.3 (236/7)	TVFD 4 limit switch lower closed	DIa.3
I12.4 (237/1)	Venting panel sensor3	DIa.4
I12.5 (237/3)	Venting panel sensor4	DIa.5
I12.6	CF-DPS3(Control Filter DP switch 3) (237/5)	DIa.6
I12.7 (237/7)	CF-DPS4(Control Filter DP switch 4)	DIa.7
6ES7223-1BH30-0XB0		

-A3

SM 1223		(2)
Q12.0 (245/2)	TVFD 3 upper valve Flush 5 / FlexF18 v3 / Clean 5	DQa.0
Q12.1 (245/5)	TVFD 3 Lower valve Flush 6 / FlexF18 v4	DQa.1
Q12.2 (245/8)	TVFD 4 upper valve Lime inj. Open TAV50	DQa.2
Q12.3 (246/2)	TVFD 4 Lower valve Lime inj. Dosing	DQa.3
Q12.4 (246/5)	Upstream damper 2	DQa.4
Q12.5 (246/8)	Downstream damper 1 (OFF-line cleaning and Graceful degr.)	DQa.5
Q12.6 (247/2)	Downstream damper 2 (OFF-line cleaning and Graceful degr.)	DQa.6
Q12.7 (247/5)	Spare (Clean/flush/ presep.)	DQa.7
6ES7223-1BH30-0XB0		

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

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

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

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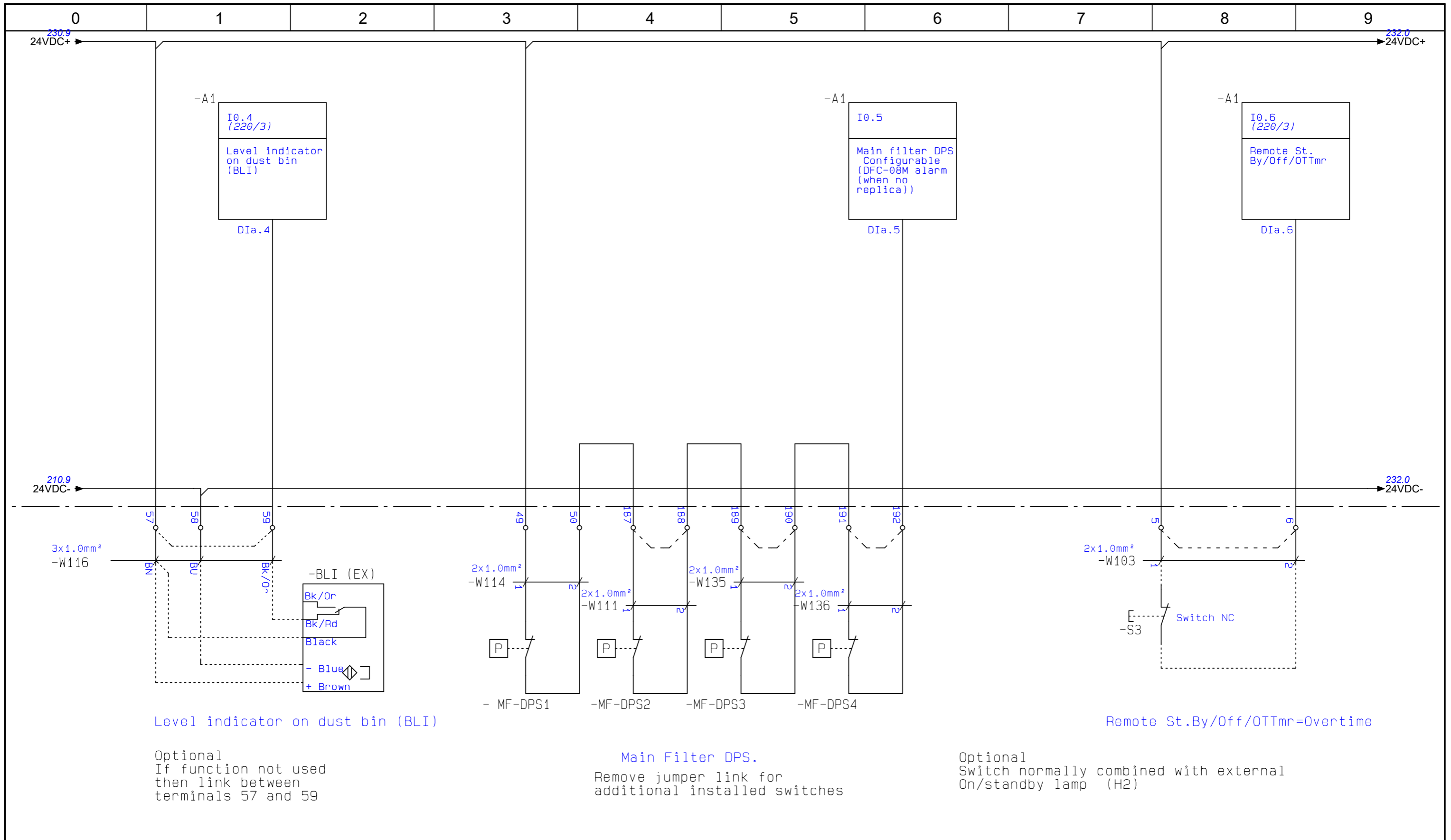
Revision	0	Product	HVCP EX 45kW Insight	
Status	Available			
Date of approval	-			
Approval by	-	Date of created	2019/08/20	
224	previous page	Author	FRALE	

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PLC INPUT
TERMINALS

Drawing no.
2183553

Page no.
230
Next page 231



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

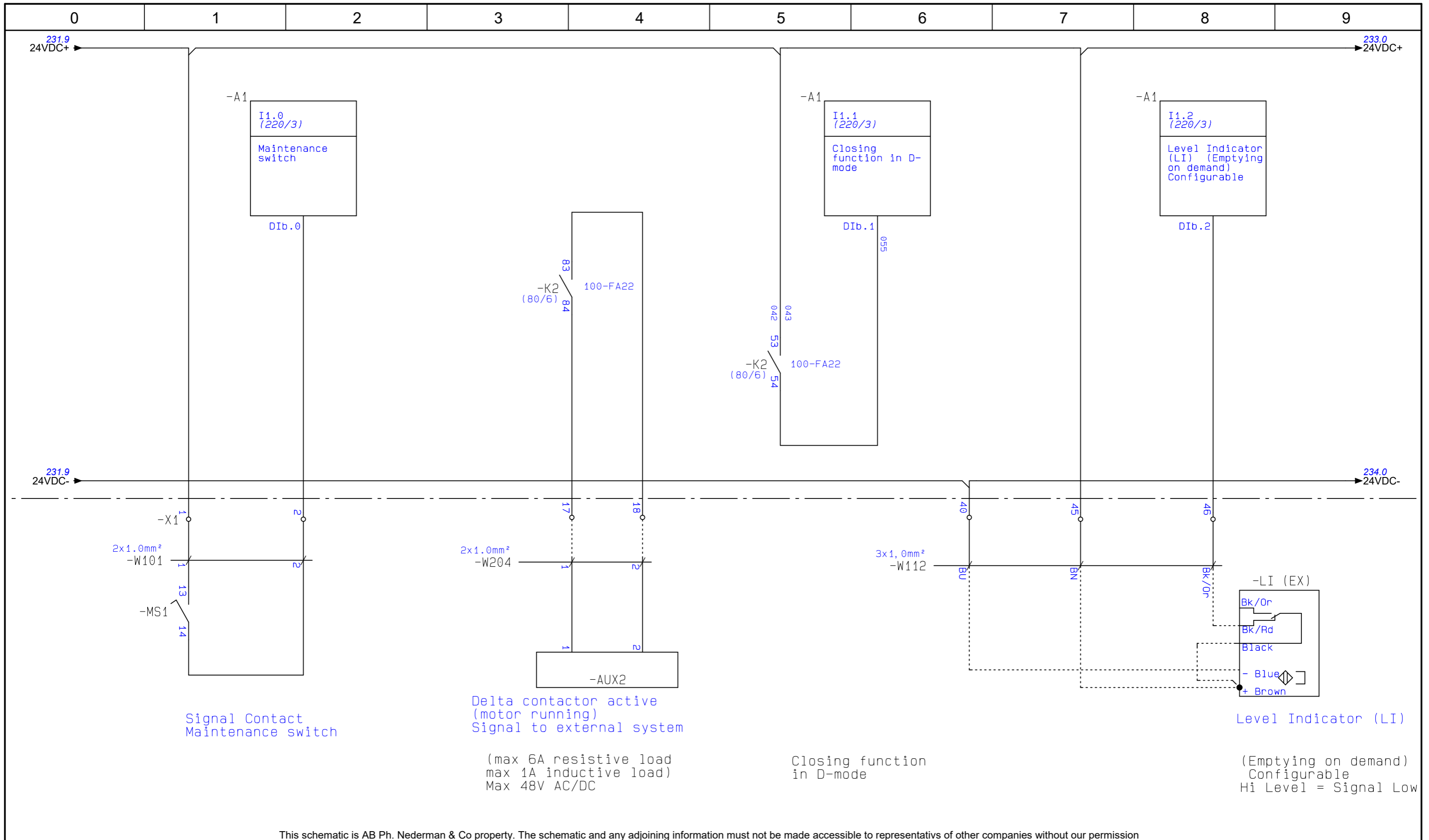
Nederman

PLC INPUT
TERMINALS

Drawing no.
2183553

Page no.
231

Next page 232



Signal Contact
Maintenance switch

Delta contactor active
(motor running)
Signal to external system

(max 6A resistive load
max 1A inductive load)
Max 48V AC/DC

Closing function
in D-mode

Level Indicator (LI)

(Emptying on demand)
Configurable
Hi Level = Signal Low

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

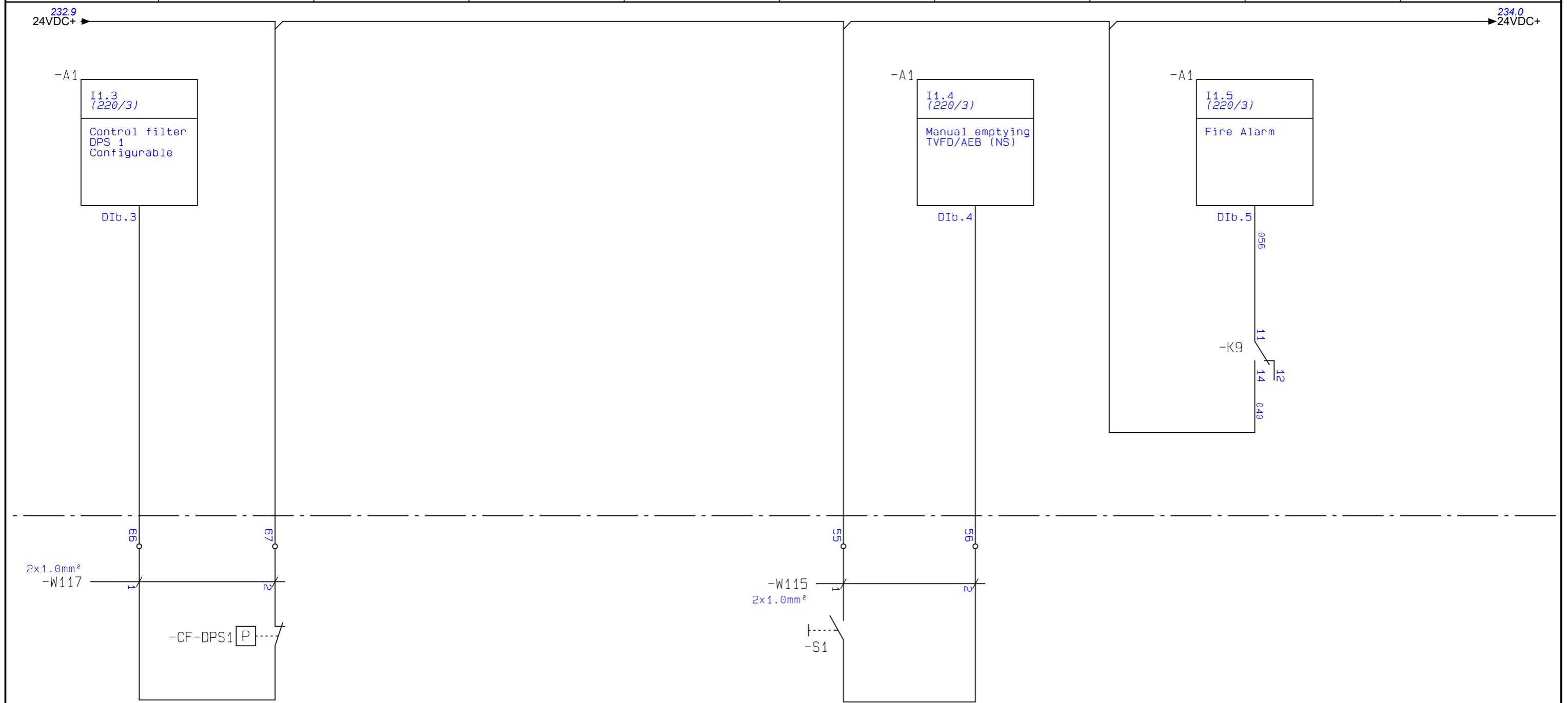


PLC INPUT
TERMINALS

Drawing no.
2183553

Page no.
232

Next page 233



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

Manual emptying TVFD/AEB (NS)

Fire Alarm

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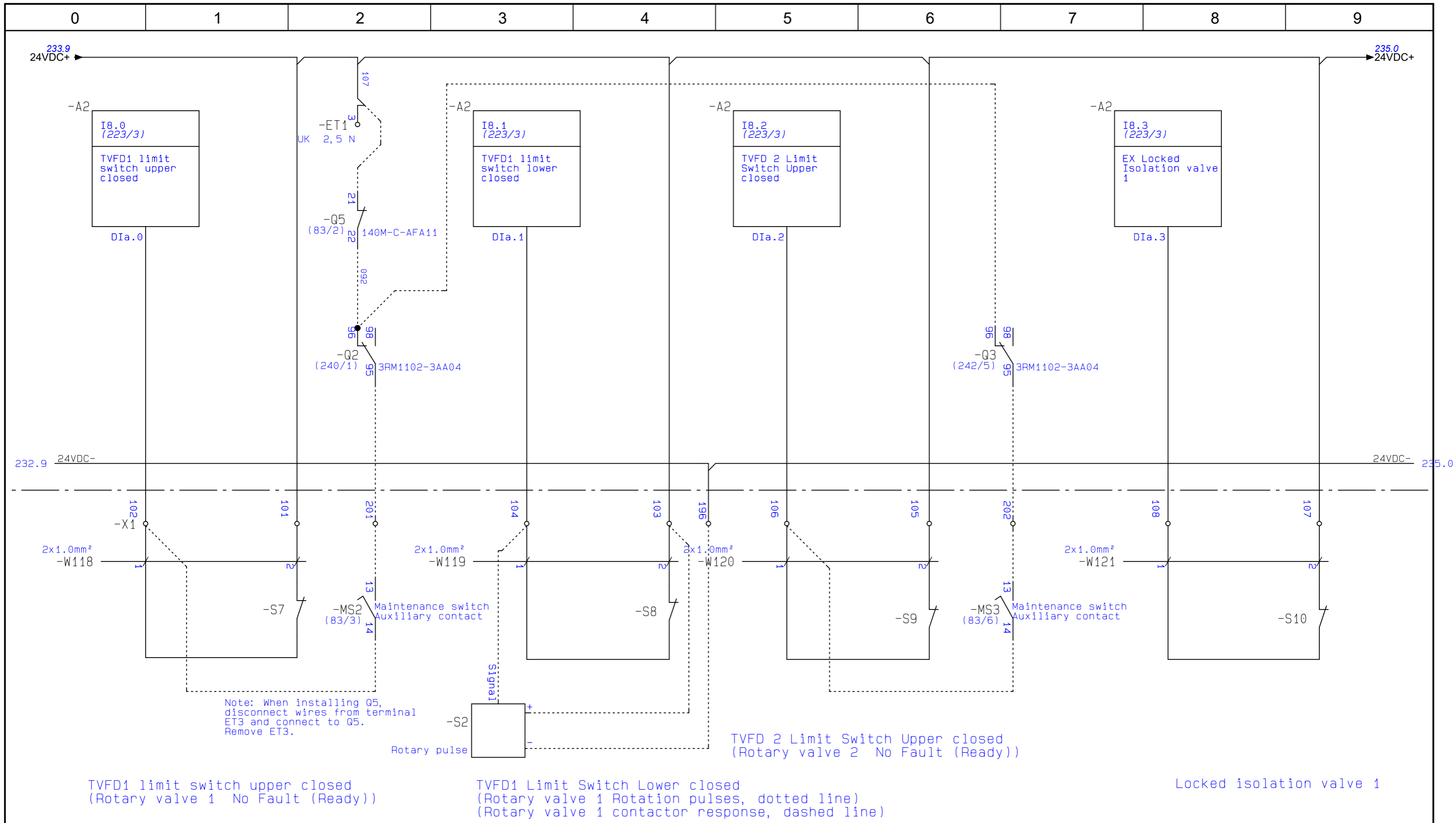
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Status	Available		
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
232	previous page		



PLC INPUT
TERMINALS

Drawing no.
2183553

Page no.
233
Next page 234



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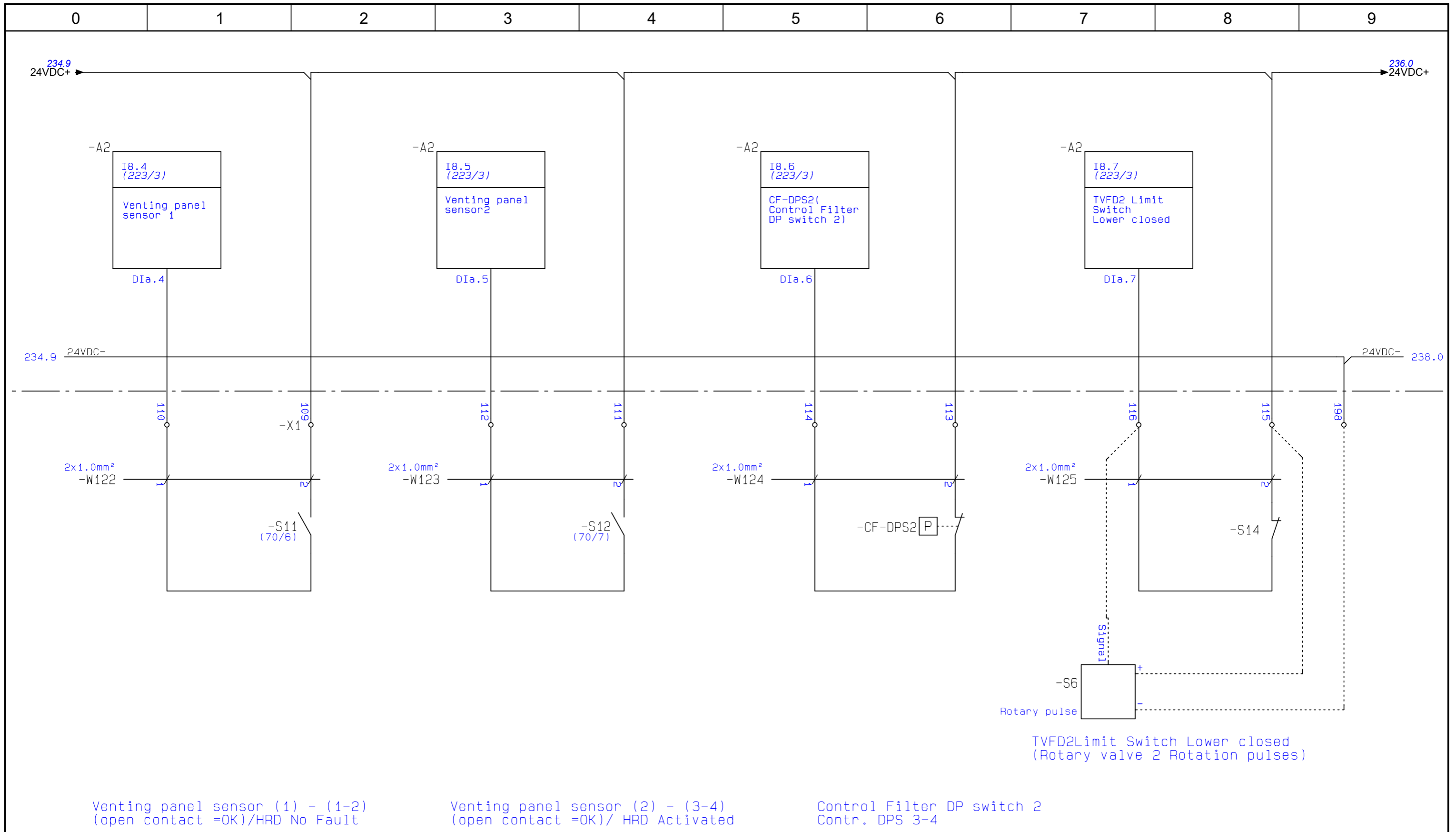
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Status	Available			
Date of approval	-			
Approval by	-	Date of created	2019/08/20	
233	previous page	Author	FRALE	



SM1223 (A2)
INPUT
TERMINALS

Drawing no.
2183553

Page no.
234
Next page 235



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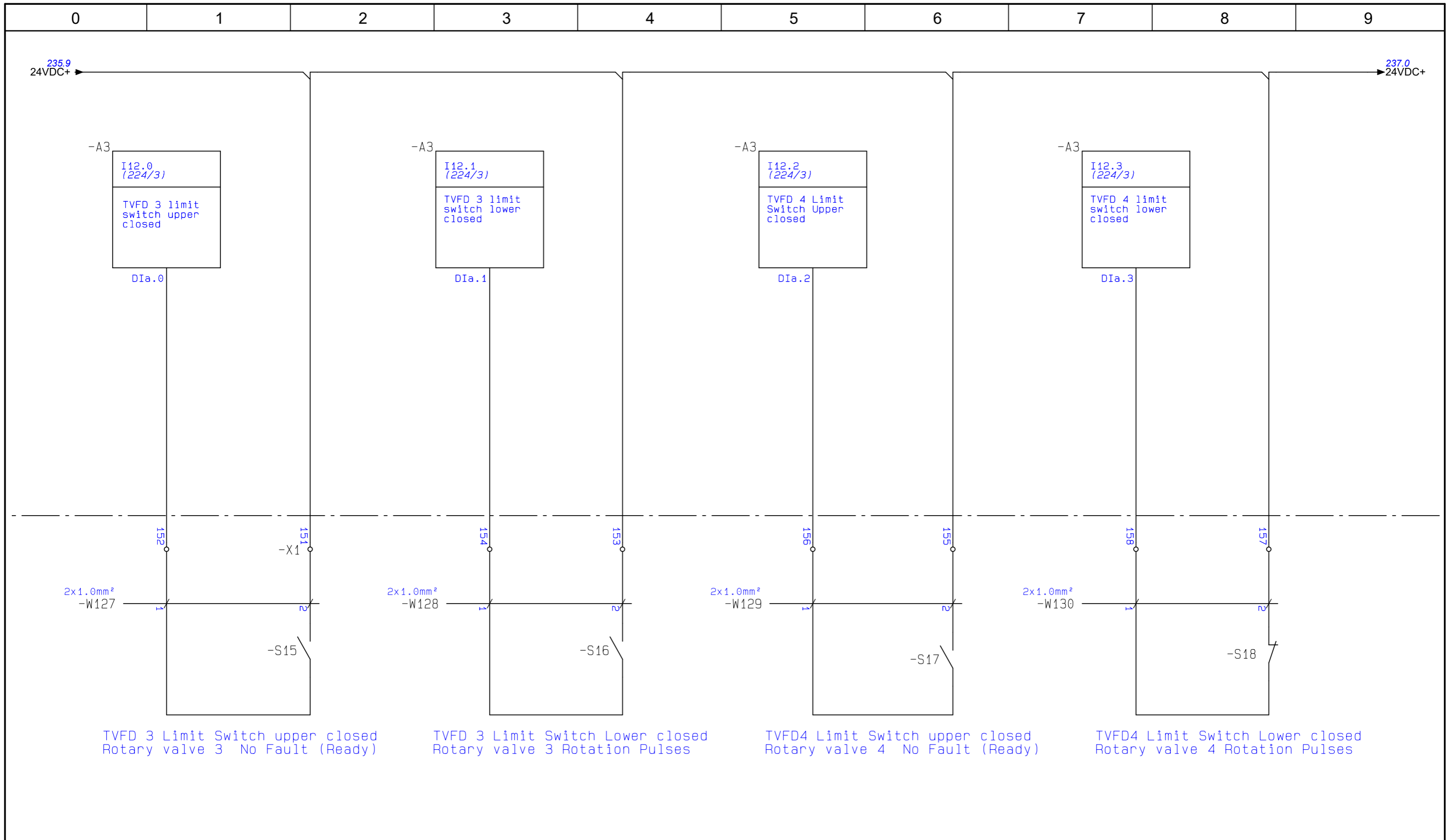
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Status	Available			
Date of approval	-	Date of created	2019/08/20	
Approval by	-	Author	FRALE	
234	previous page			

Nederman

SM1223 (A2)
INPUT
TERMINALS

Drawing no.
2183553

Page no.
235
Next page 236



TVFD 3 Limit Switch upper closed
Rotary valve 3 No Fault (Ready)

TVFD 3 Limit Switch Lower closed
Rotary valve 3 Rotation Pulses

TVFD4 Limit Switch upper closed
Rotary valve 4 No Fault (Ready)

TVFD4 Limit Switch Lower closed
Rotary valve 4 Rotation Pulses

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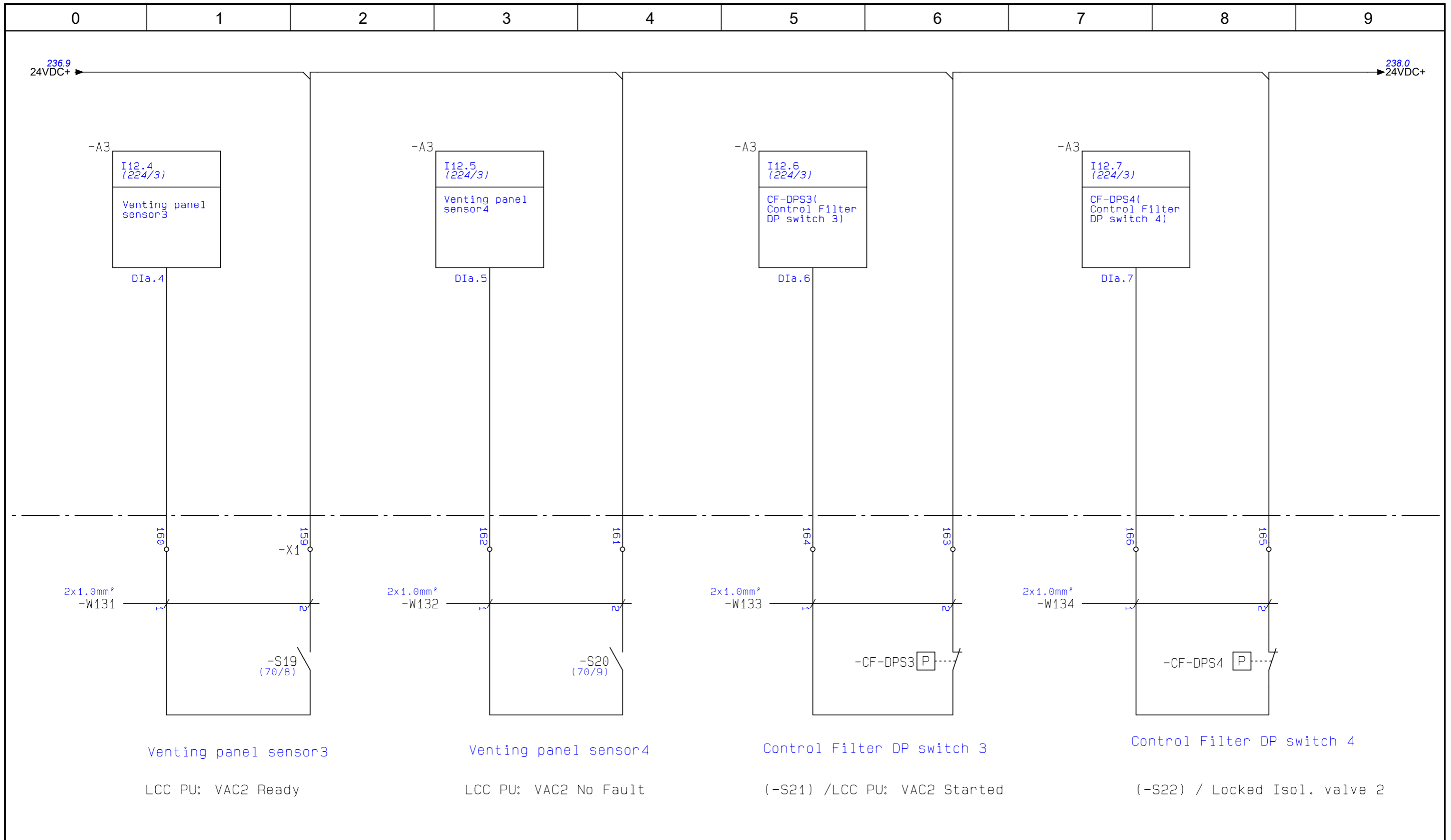
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Status	Available			
Date of approval	-	Date of created	2019/08/20	
Approval by	-	Author	FRALE	
235	previous page			



SM1223 (A3)
INPUT
TERMINALS

Drawing no.
2183553

Page no.
236
Next page 237



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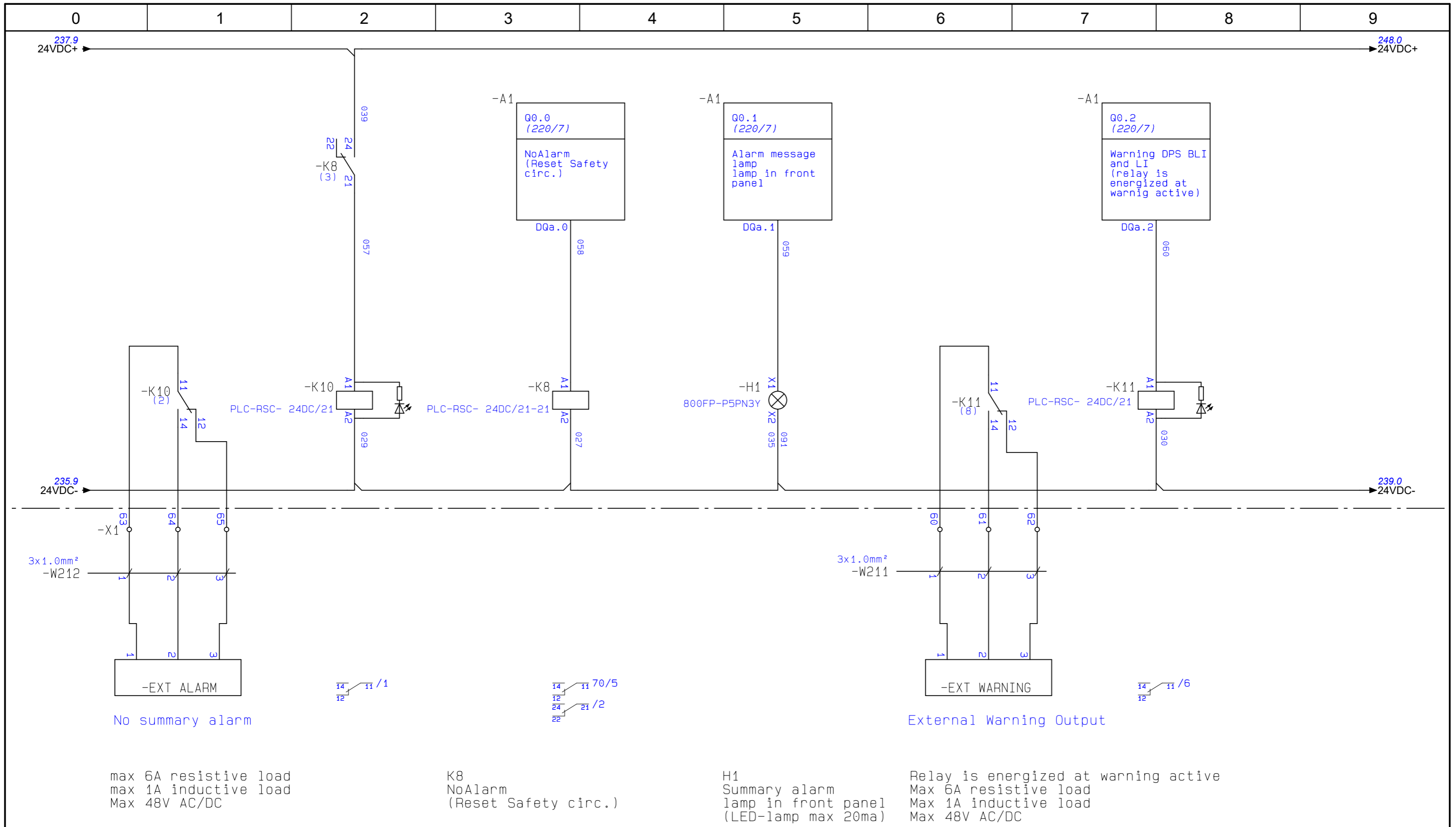
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Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
236	previous page		



SM1223 (A3)
INPUT
TERMINALS

Drawing no.
2183553

Page no.
237
Next page 238



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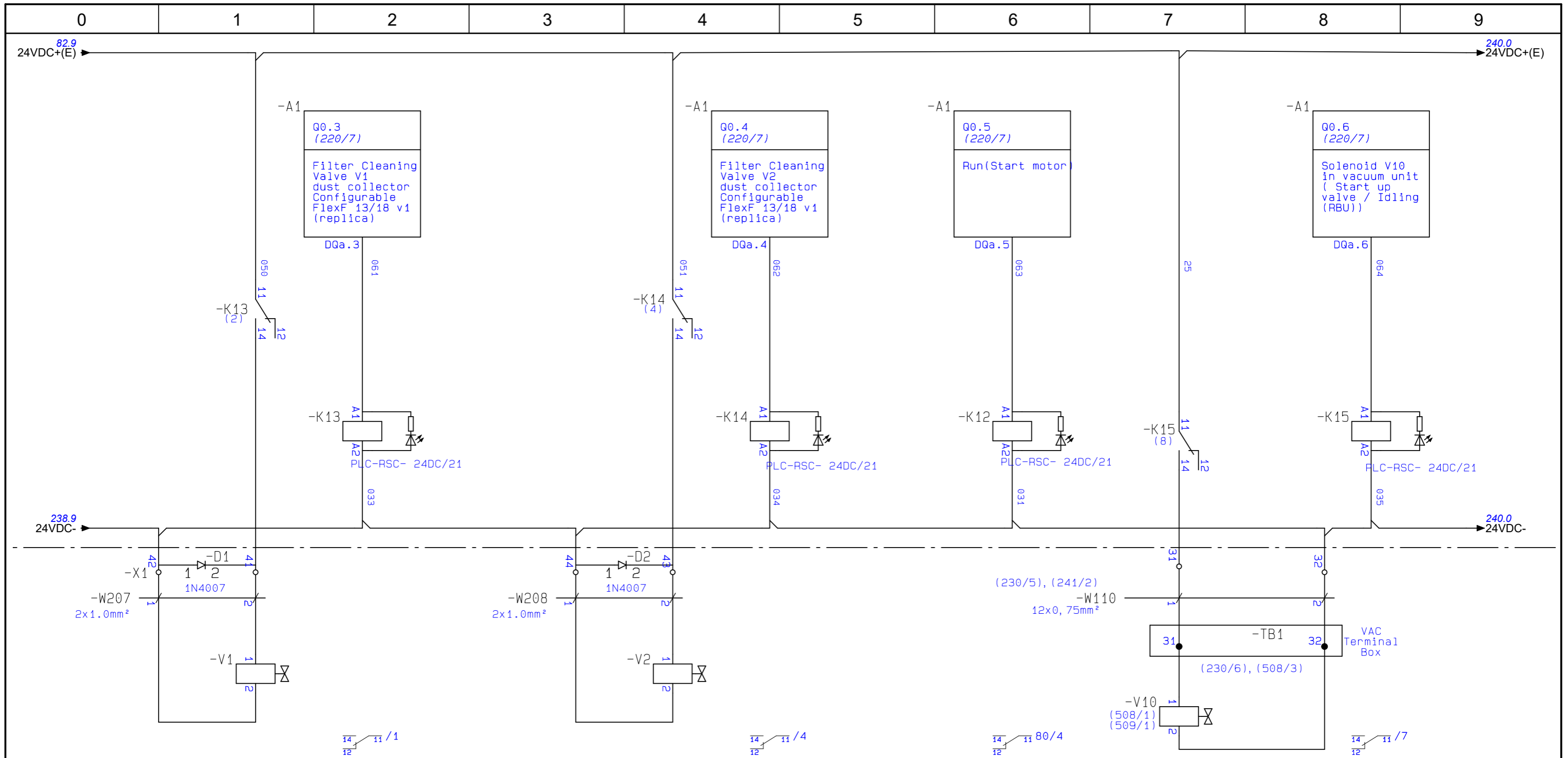
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Status	Available			
Date of approval	-	Date of created	2019/08/20	
Approval by	-	Author	FRALE	
237	previous page			

Nederman

PLC OUTPUT
TERMINALS

Drawing no.
2183553

Page no.
238
Next page 239



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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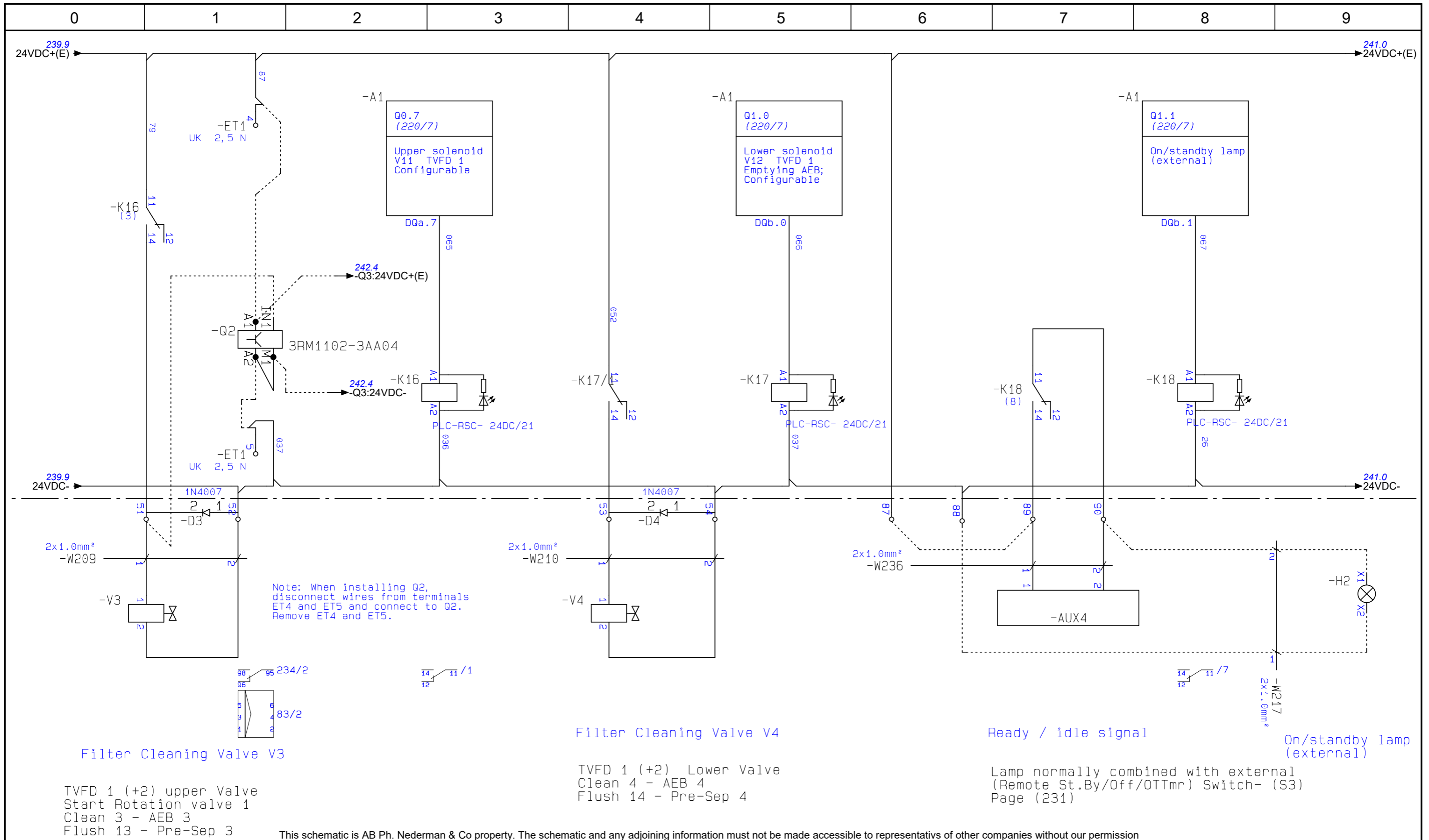
Revision	0	Product	Product
Status	Available	Product	HVCP EX 45kW Insight
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
238	previous page		



PLC OUTPUT
 TERMINALS

Drawing no.
2183553

Page no.
239
 Next page 240



Revision	0	Product	Product
Status	Available	Product	HVCP EX 45kW Insight
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
239	previous page		

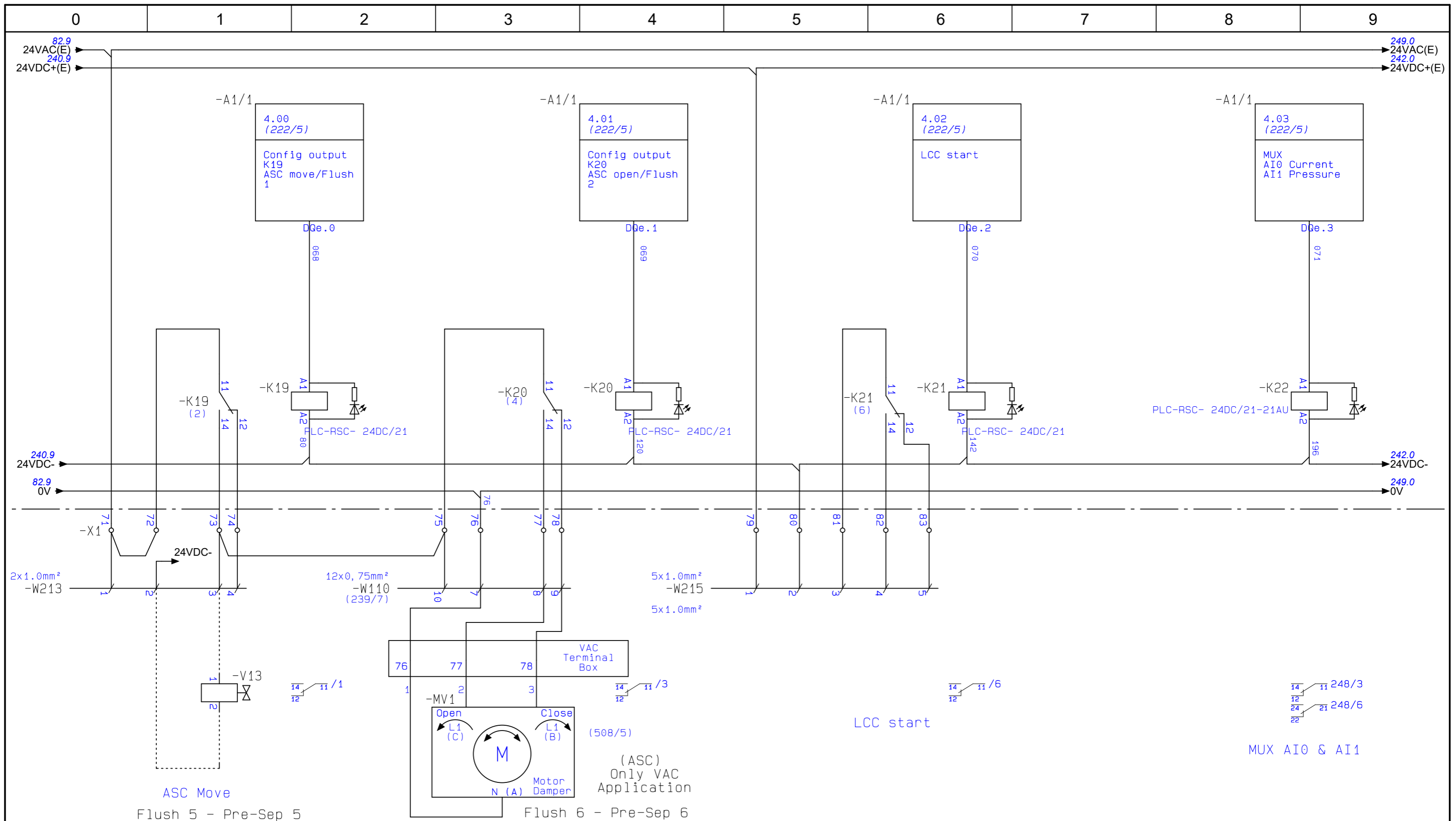


PLC OUTPUT
TERMINALS

Drawing no.
2183553

Page no.
240
Next page 241

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Revision	0	Product	Product
Status	Available	Product	HVCP EX 45kW Insight
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
240	previous page		

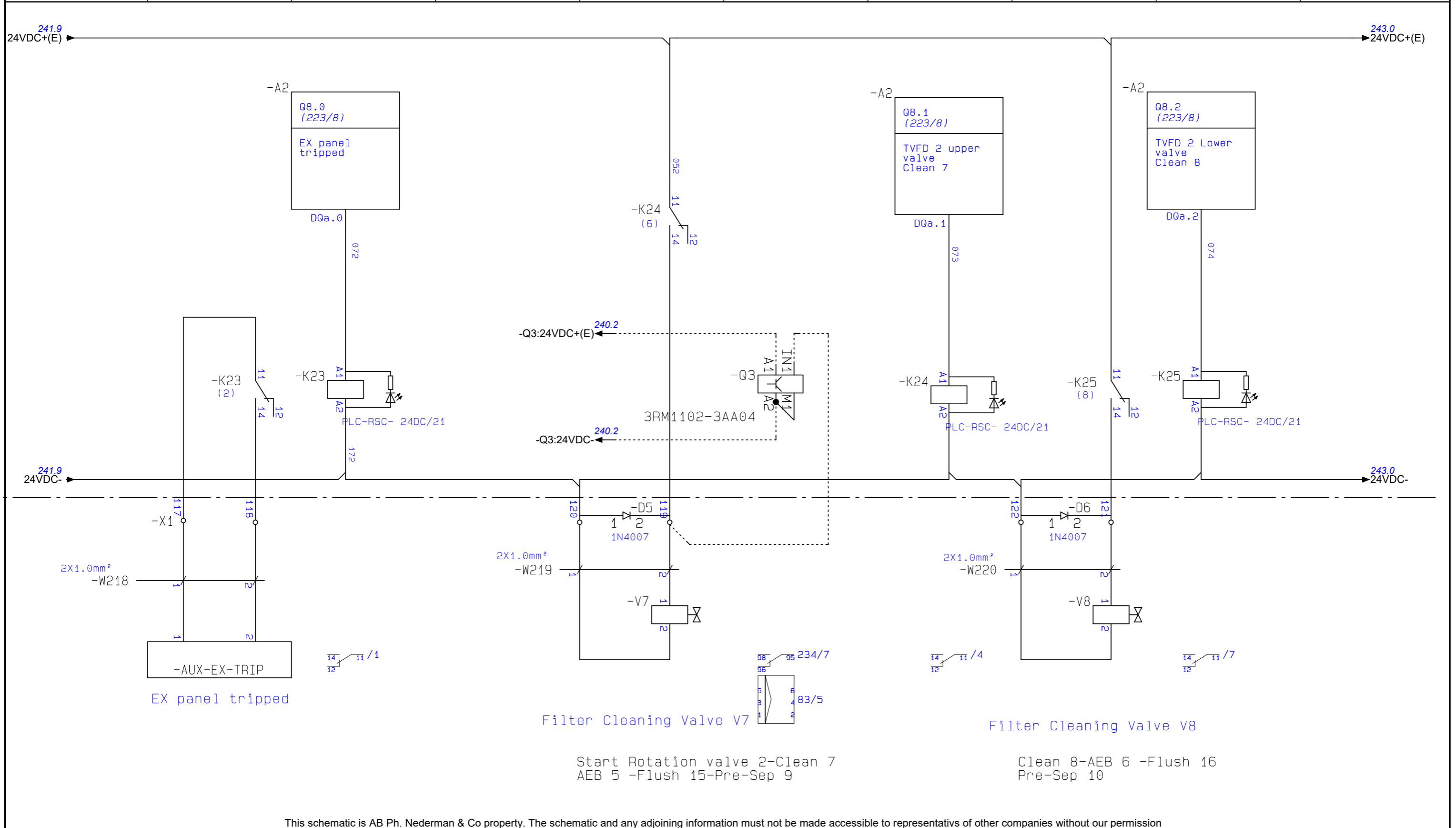
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SB1222 OUTPUT

Drawing no.
2183553

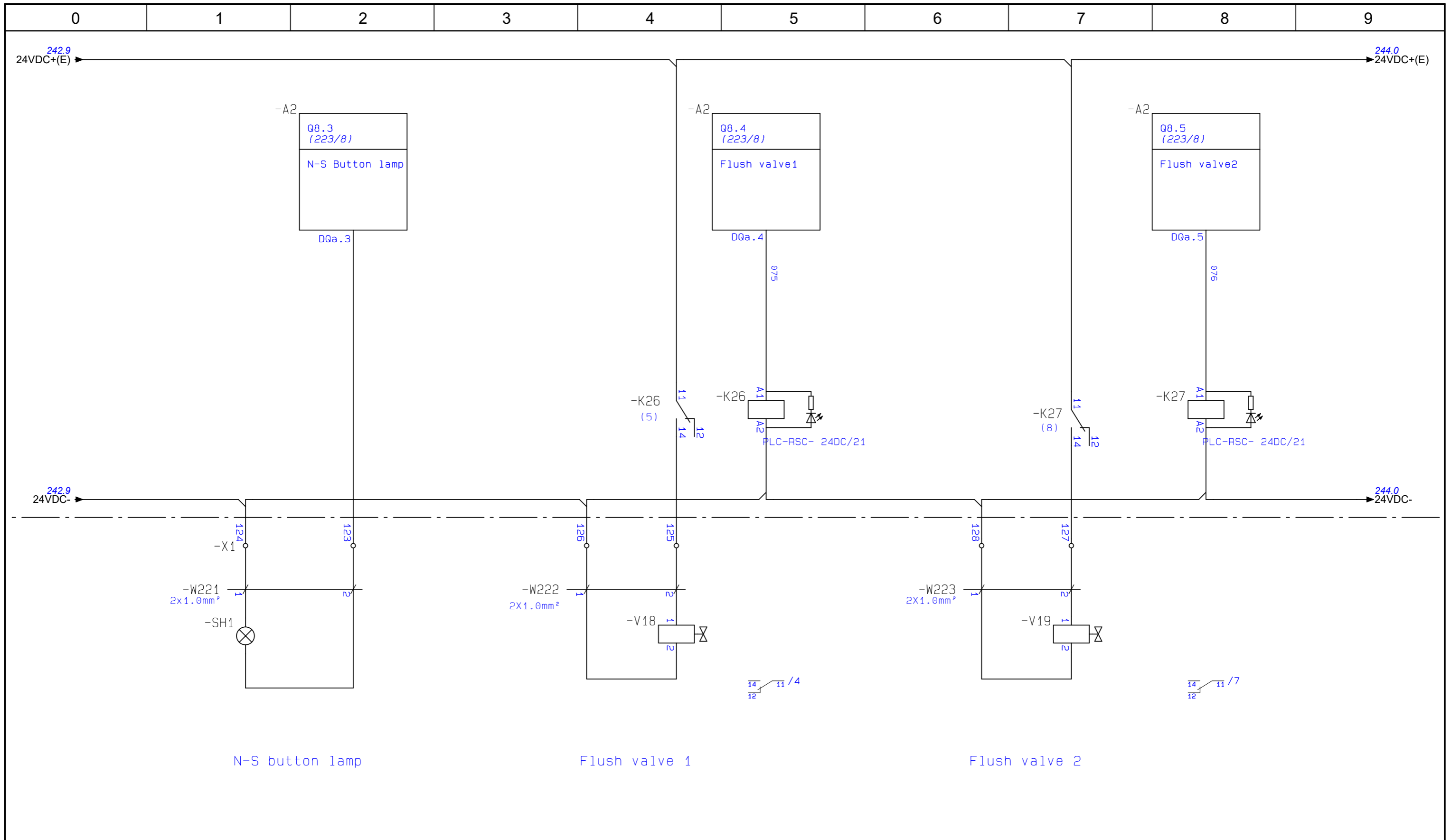
Page no.
241


Next page 242

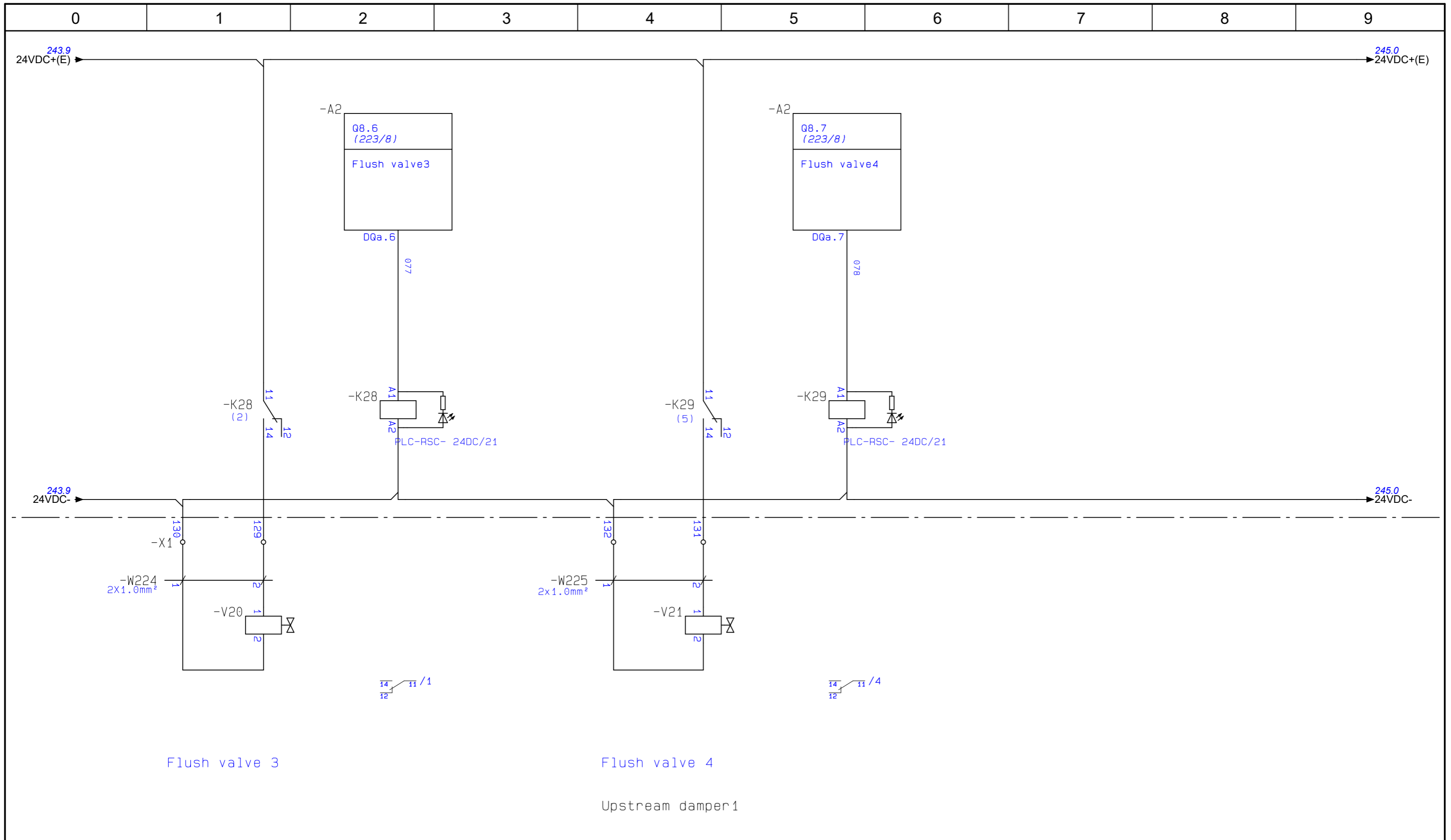


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Revision	0	Product	HVCP EX 45kW Insight		<h1 style="margin: 0;">Nederman</h1>	SM1223 (A2) OUTPUT TERMINALS	Drawing no.	2183553	Page no.	242
Status	Available	Date of approval								
Date of approval	-	Approval by								
Approval by	-	Date of created	2019/08/20							
241	previous page	Author	FRALE						Next page	243



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Revision	0	Product	HVCP EX 45kW Insight
Status	Available		
Date of approval	-		
Approval by	-		
242	previous page	Date of created	2019/08/20
		Author	FRALE
		SM1223 (A2) OUTPUT TERMINALS	
		Drawing no.	2183553
		Page no.	243
		Next page	244



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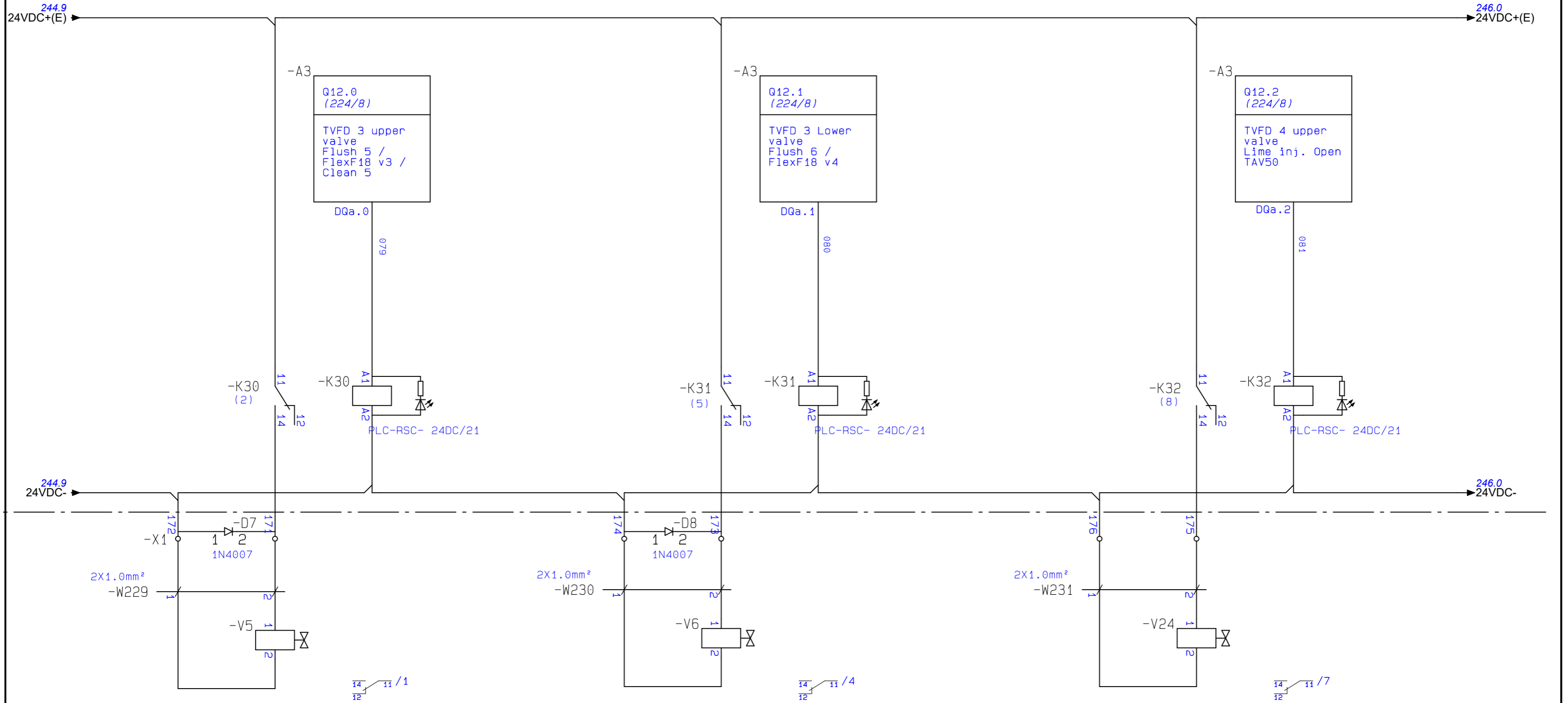
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Status	Available	Date of created	2019/08/20	
Date of approval	-	Author	FRALE	
Approval by	-			
243	previous page			

Nederman

SM1223 (A2)
OUTPUT
TERMINALS

Drawing no.
2183553

Page no.
244
Next page 245



Filter Cleaning Valve V5

Start Rotation valve 3-Clean 5
AEB 7 -Pre-Sep 11 (FlexF18 v3)

TVFD 2 Upper Valve

Filter Cleaning Valve V6

Clean 6-AEB 8 -Pre-Sep 12
(FlexF18 v4)

TVFD 4 Upper Valve

Start Rotation valve 4-Flush 9
(Lime)

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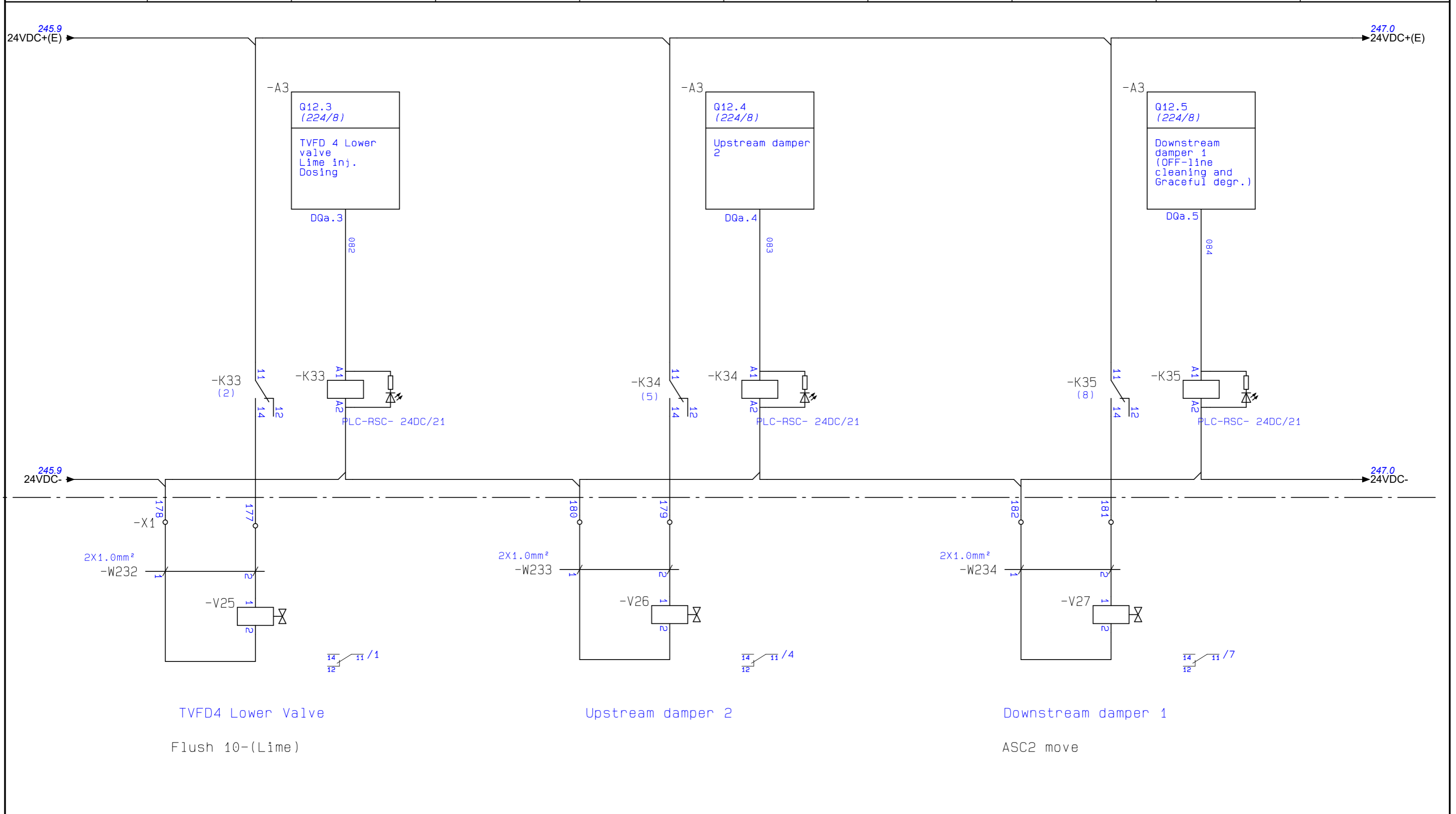
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Status	Available	Date of created	2019/08/20
Date of approval	-	Author	FRALE
Approval by	-		
244	previous page		



SM1223 (A3)
OUTPUT
TERMINALS

Drawing no.
2183553

Page no.
245
Next page 246



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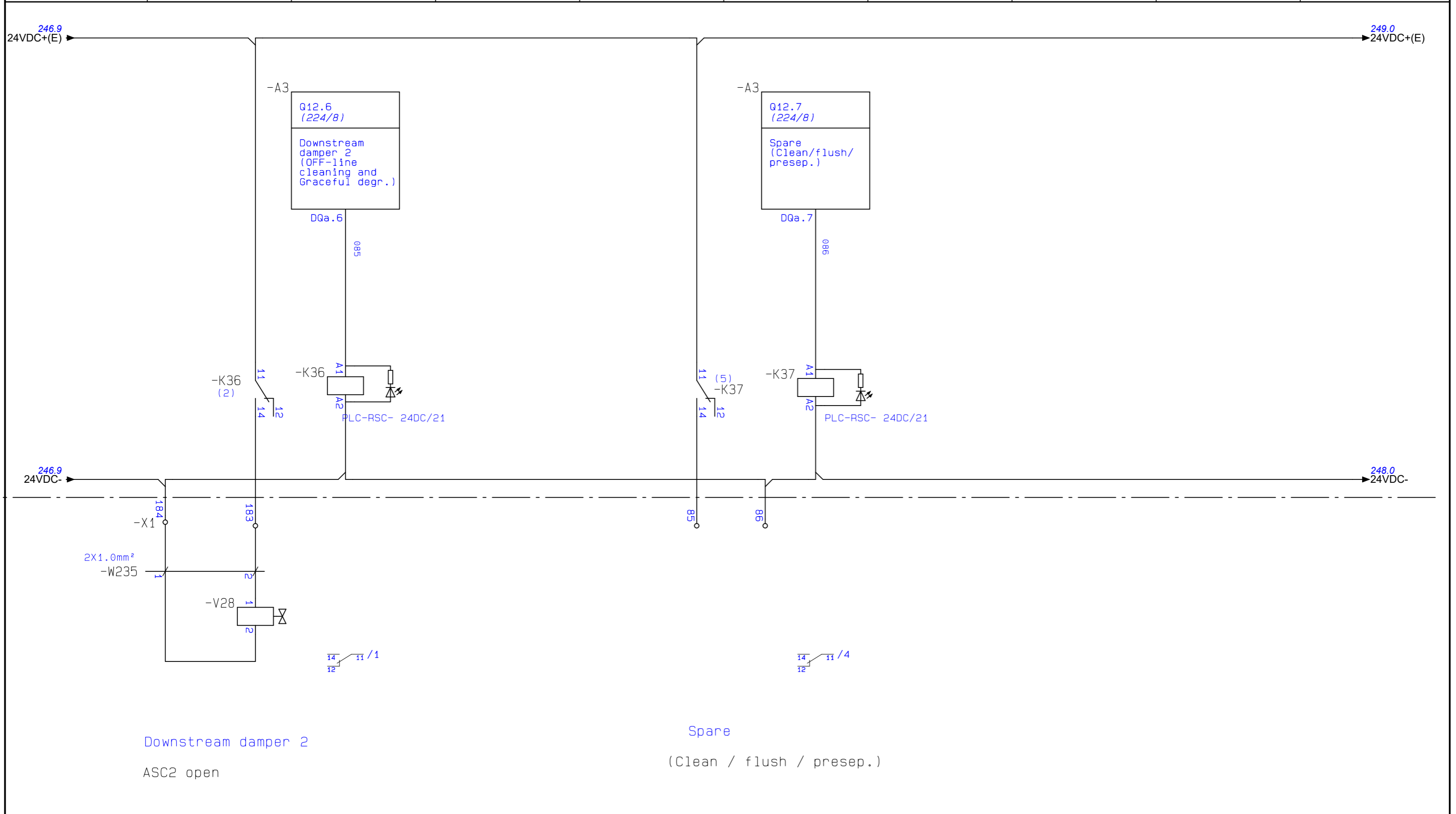
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Status	Available	Date of created	2019/08/20
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Approval by	-		
245	previous page		



**SM1223 (A3)
OUTPUT
TERMINALS**

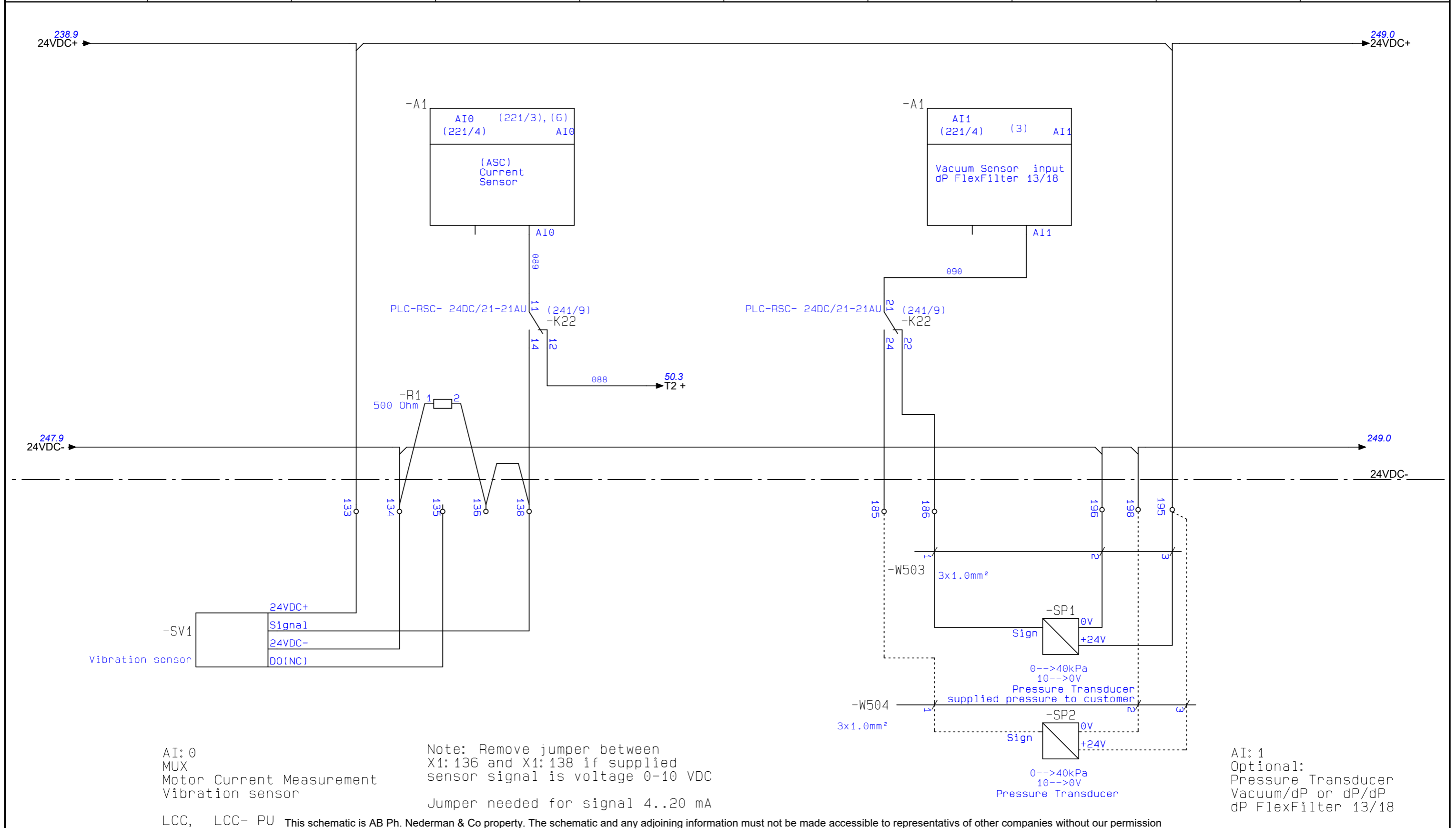
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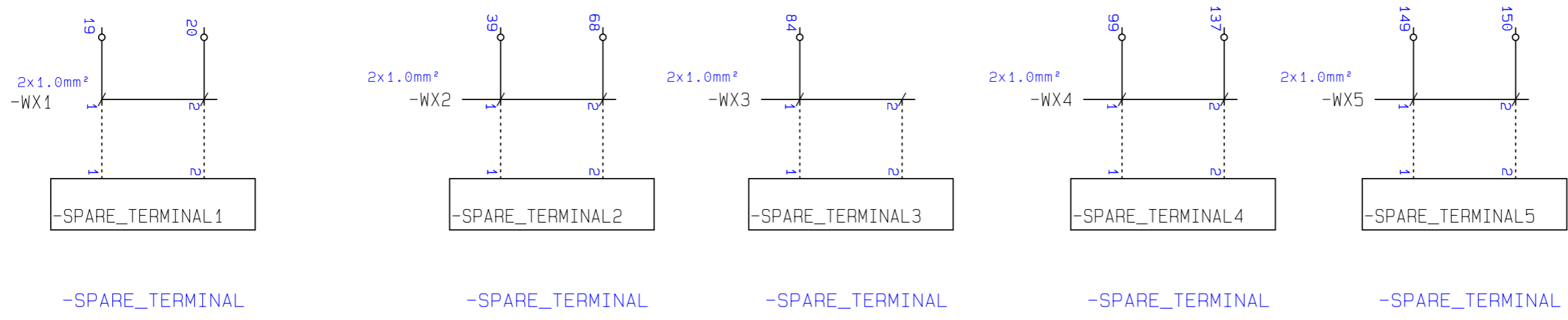
Page no.
246
Next page 247



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Revision	0	Product	<h1 style="color:blue; margin:0;">Nederman</h1>		SM1223 (A3) OUTPUT TERMINALS	Drawing no.	Page no.
Status	Available	HVCP EX 45kW Insight			<h2 style="margin:0;">2183553</h2>	<h2 style="margin:0;">247</h2>	
Date of approval	-	Date of created					2019/08/20
Approval by	-	Author					FRALE
246	previous page						





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Revision	0	Product	HVCP EX 45kW Insight
Status	Available	Date of created	2019/08/20
Date of approval	-	Author	FRALE
Approval by	-		
248	previous page		

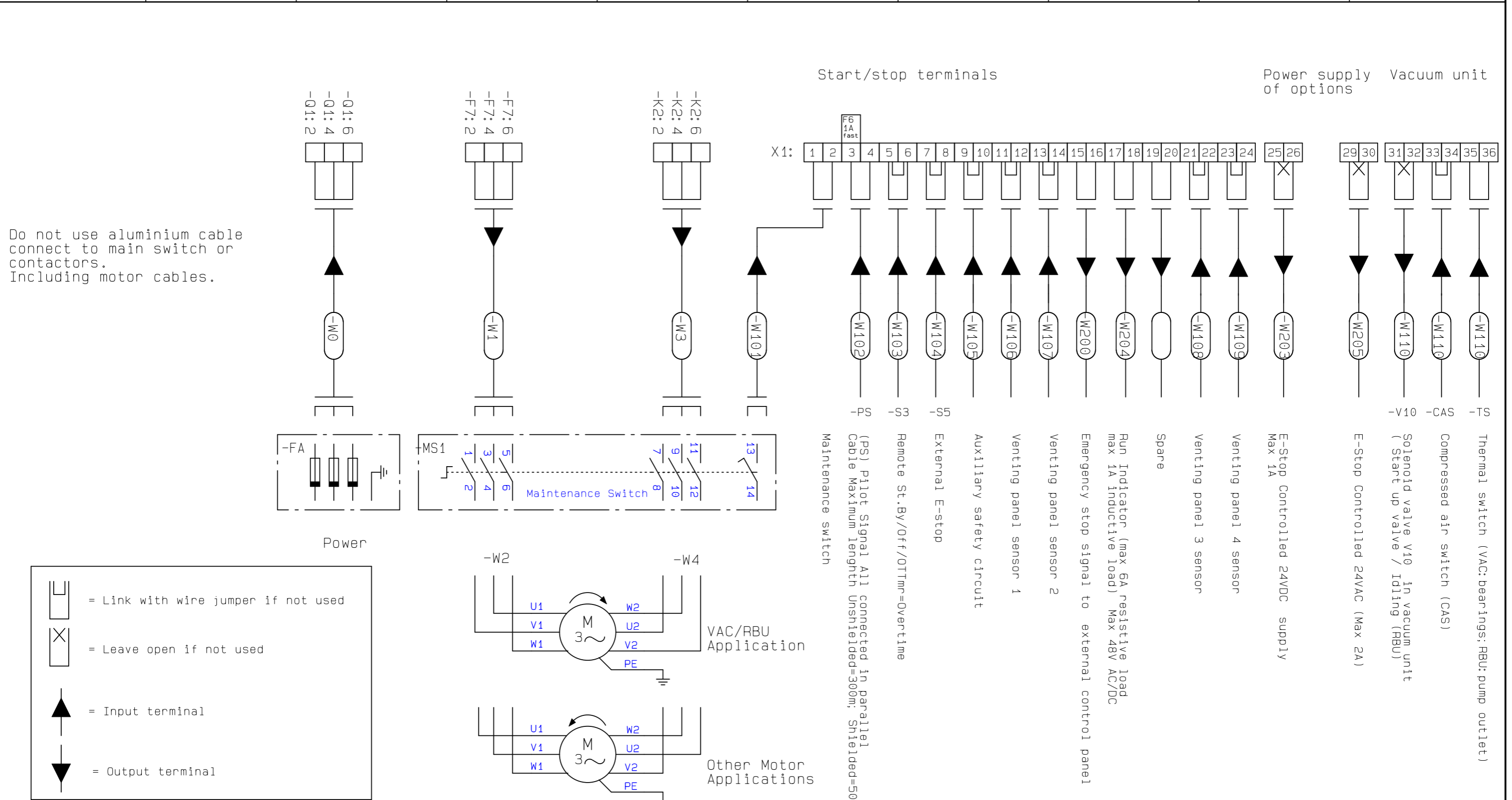


EX Spare Terminal

Drawing no.
2183553

Page no.
249
Next page 500

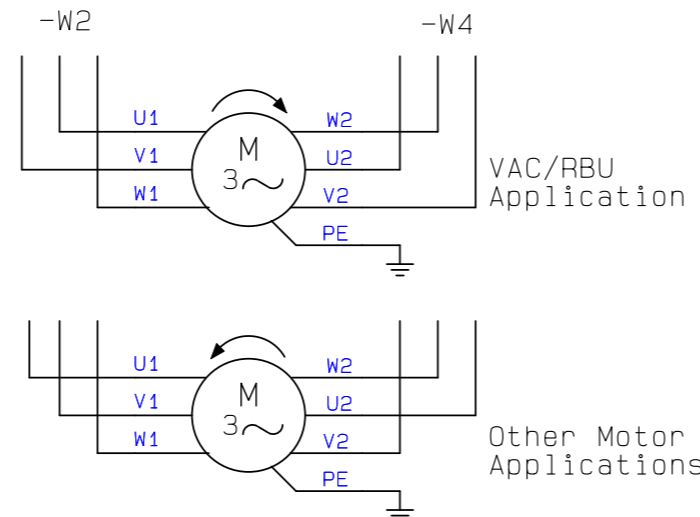
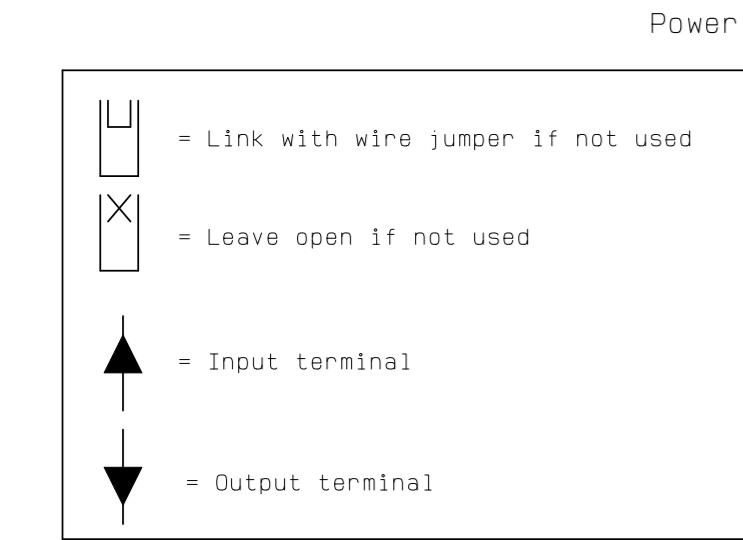
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Start/stop terminals

Power supply of options Vacuum unit of options

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



(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)

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

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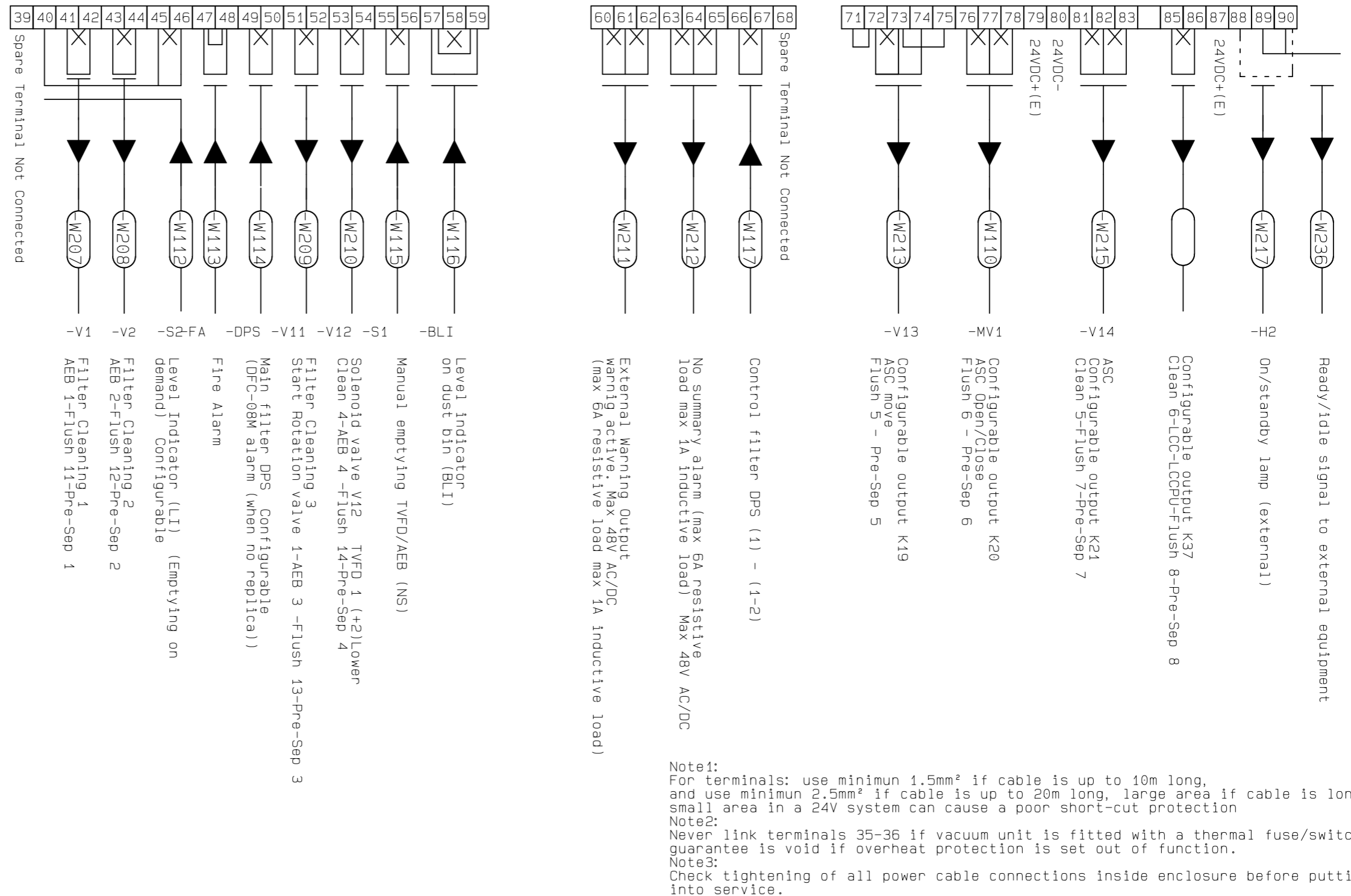
Revision	0	Product	HVCP EX 45kW Insight	
Status	Available	Date of created	2019/08/20	
Date of approval	-	Author	FRALE	
Approval by	-			
249	previous page			



**STARTER
EXTERNAL
CONNECTIONS**

Drawing no.
2183553

Page no.
500
Next page 501



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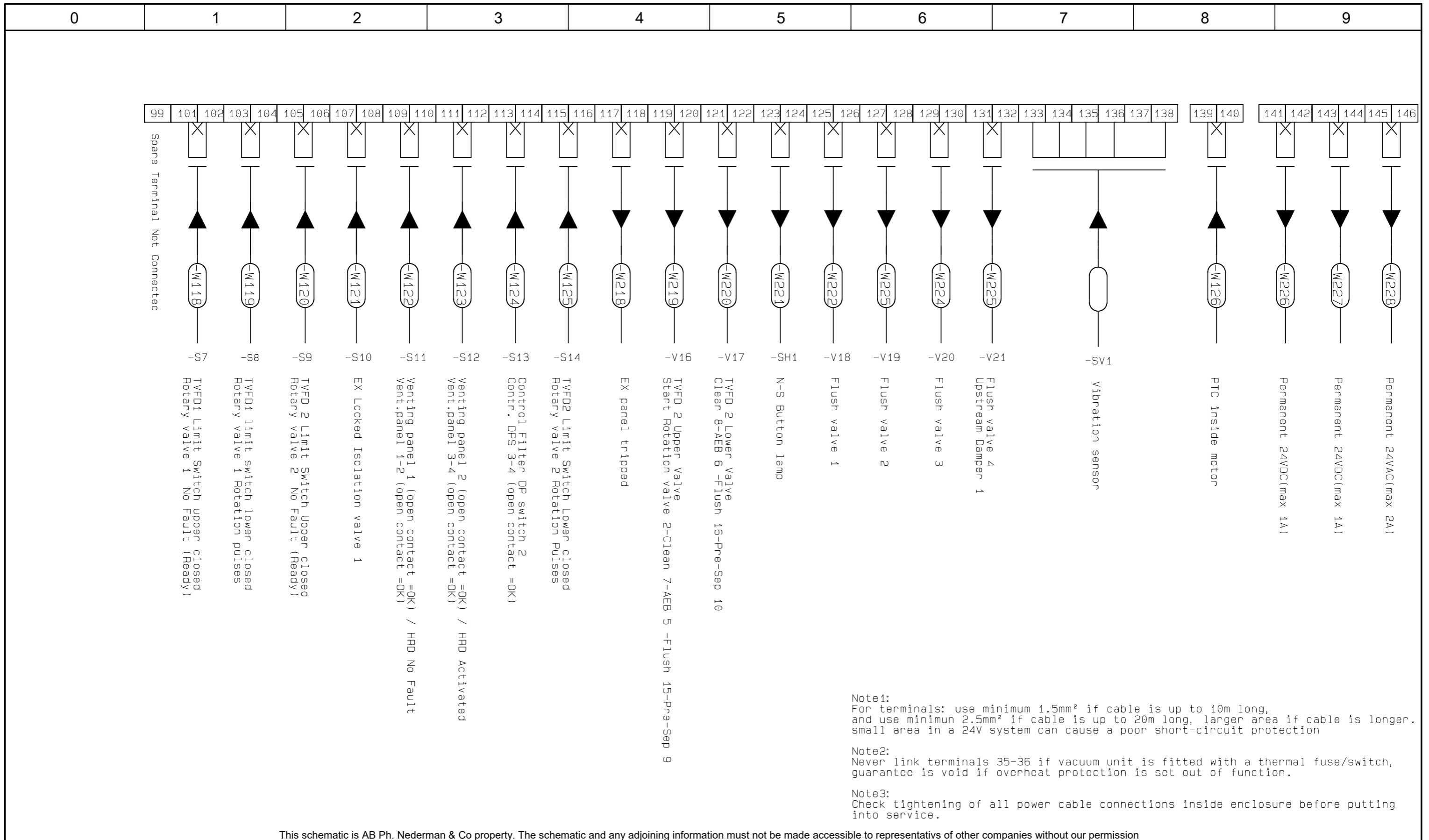
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Status	Available	Date of created	2019/08/20
Date of approval	-	Author	FRALE
Approval by	-		
500	previous page		



**STARTER
EXTERNAL
CONNECTIONS**

Drawing no.
2183553

Page no.
501
Next page 502



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

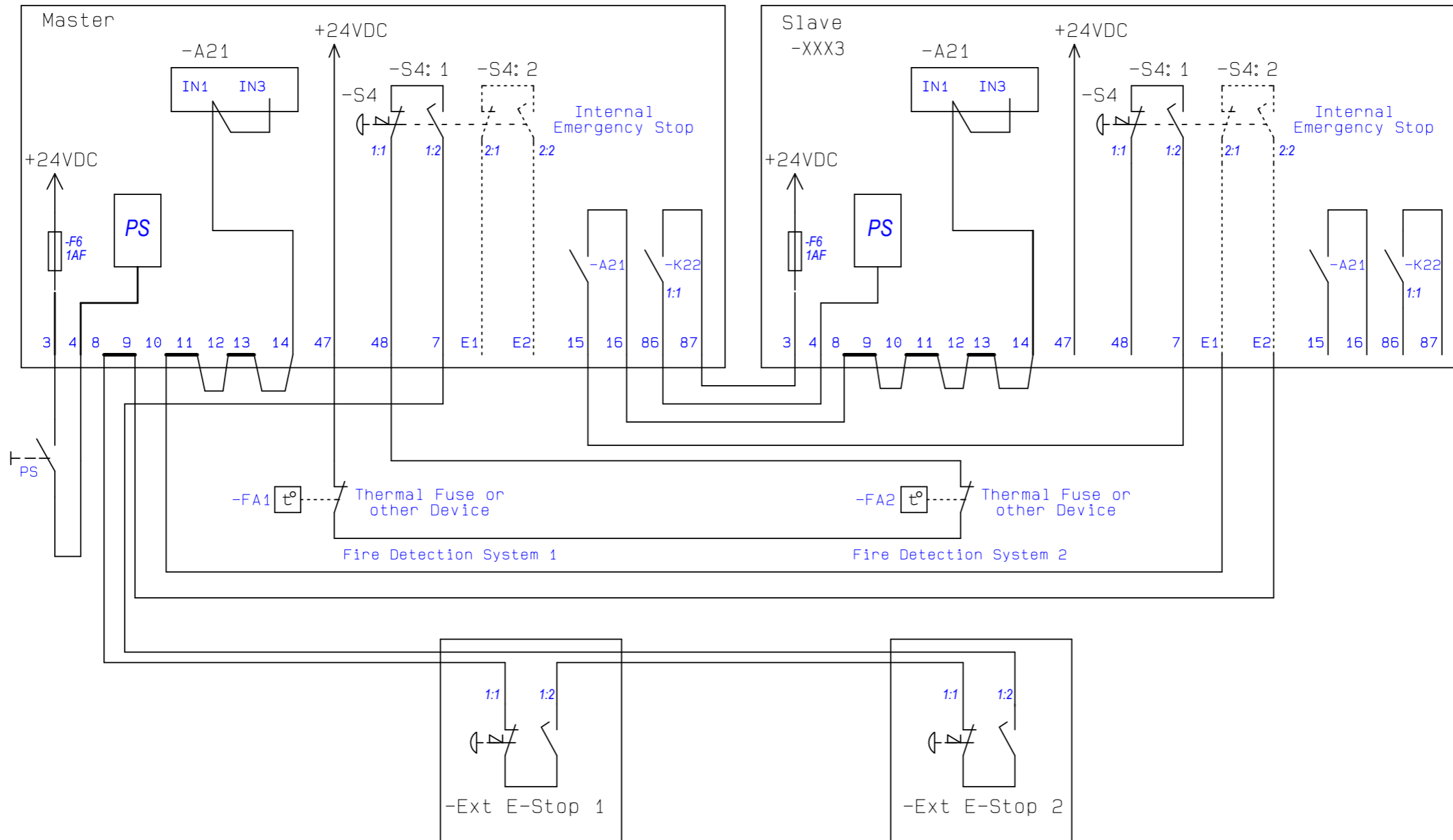
Note2:
Never link terminals 35-36 if vacuum unit is fitted with a thermal fuse/switch, guarantee is void if overheat protection is set out of function.

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

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Revision	0	Product	HVCP EX 45kW Insight			STARTER EXTERNAL CONNECTIONS	Drawing no. 2183553	Page no. 502
Status	Available	Date of created	2019/08/20					
Date of approval	-	Author	FRALE					
Approval by	-							
501	previous page						Next page	503

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

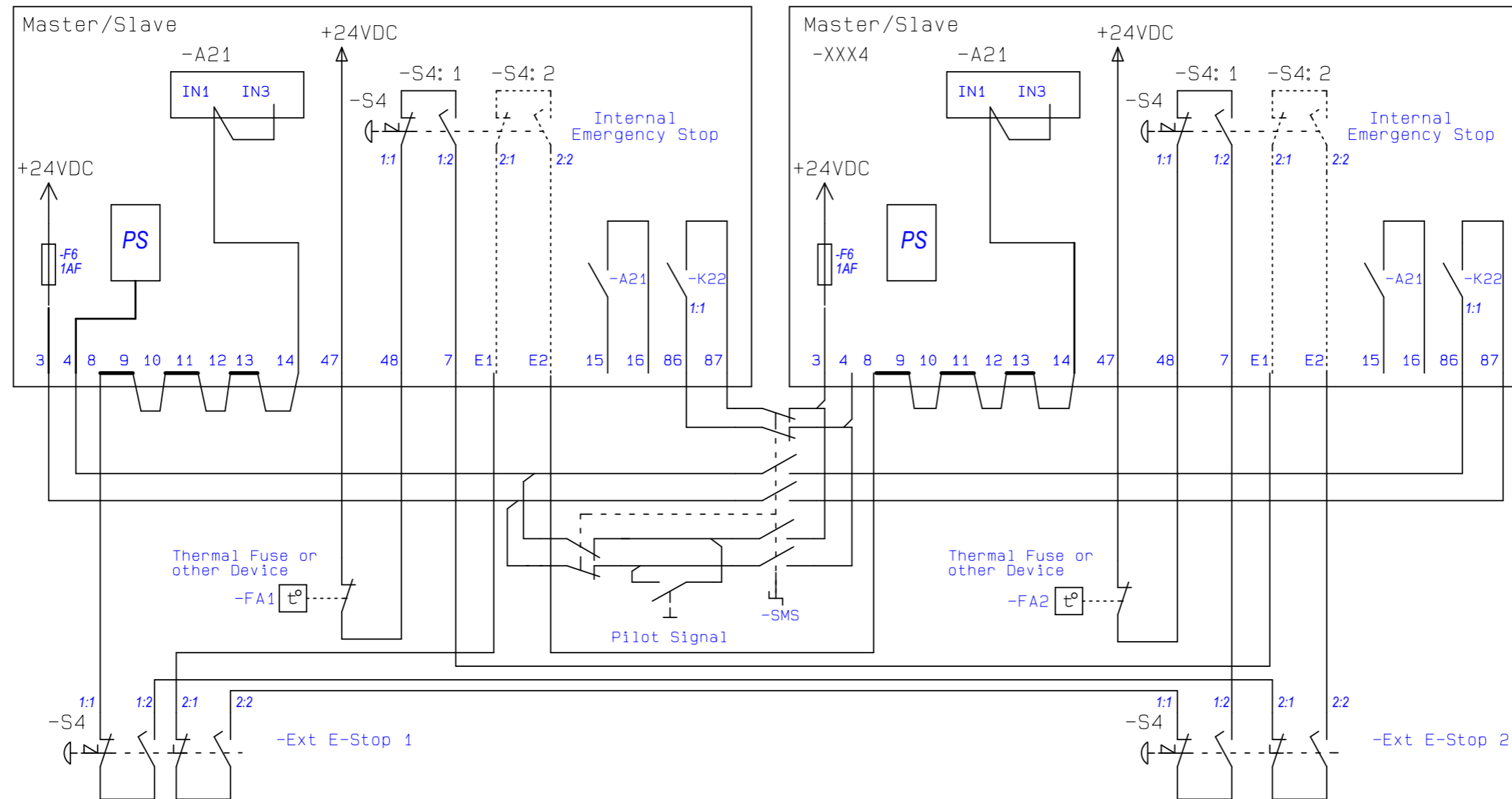


OPTIONAL
CONNECTIONS
MASTER-SLAVE

Drawing no.
2183553

Page no.
504
Next page 505

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



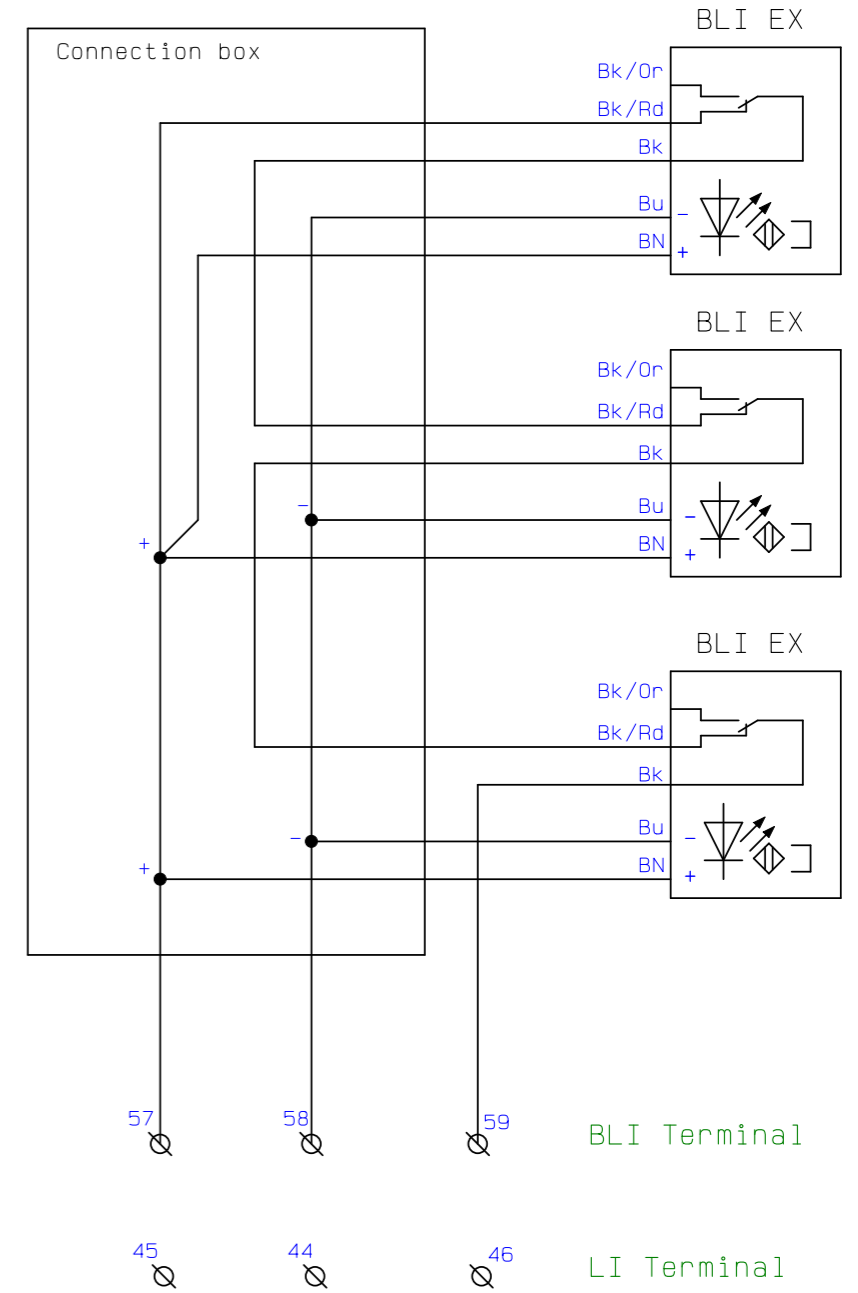
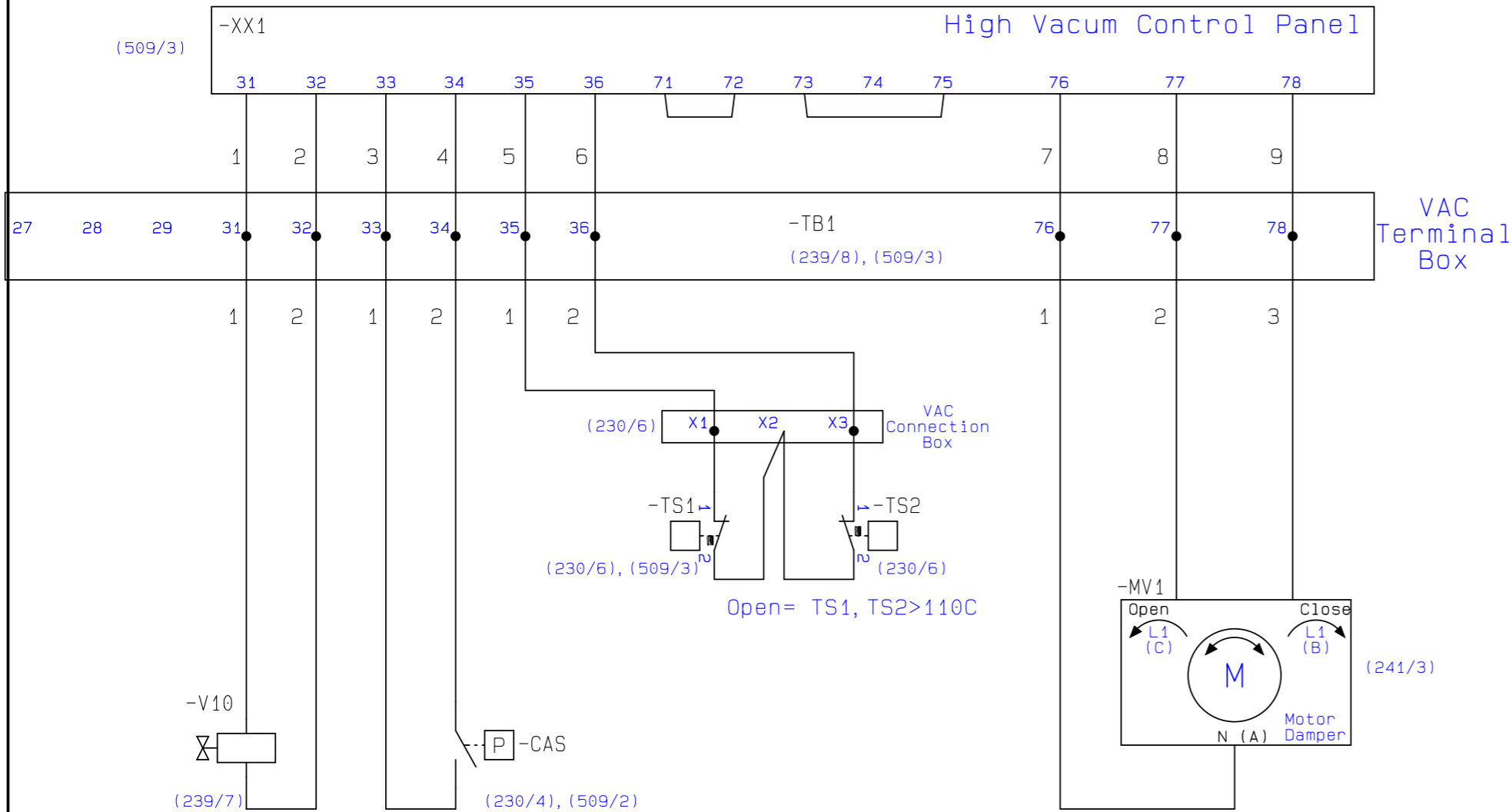
OPTIONAL
CONNECTIONS
MASTER-SLAVE

Drawing no.
2183553

Page no.
505
Next page 508

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) (ASC) Only VAC Application (241/3)

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



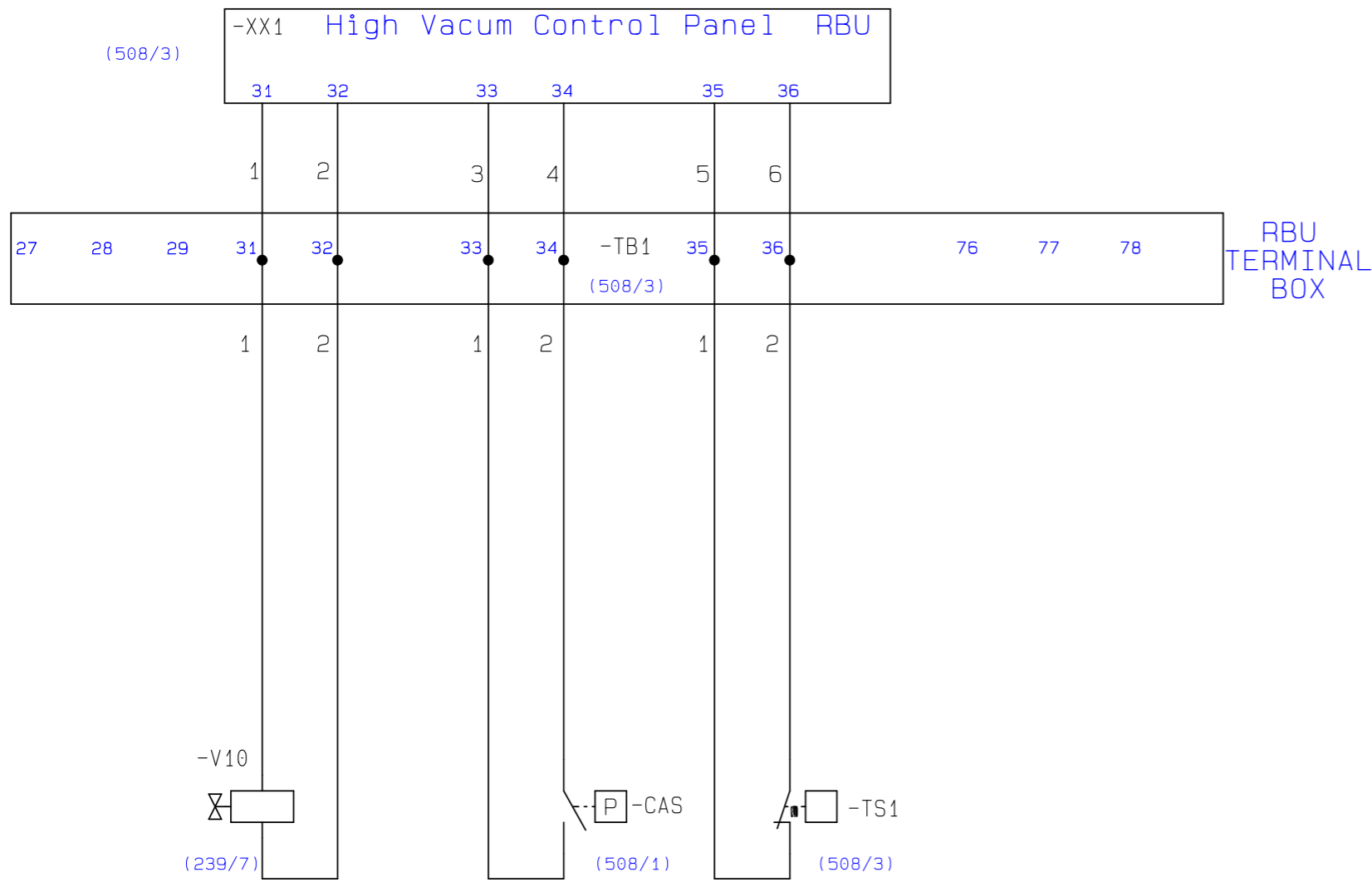
VAC ASC CONNECTIONS and OPTIONAL BLI

Drawing no. 2183553

Page no. 508
 Next page 509

Connection of HVAC to RBU Unit

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

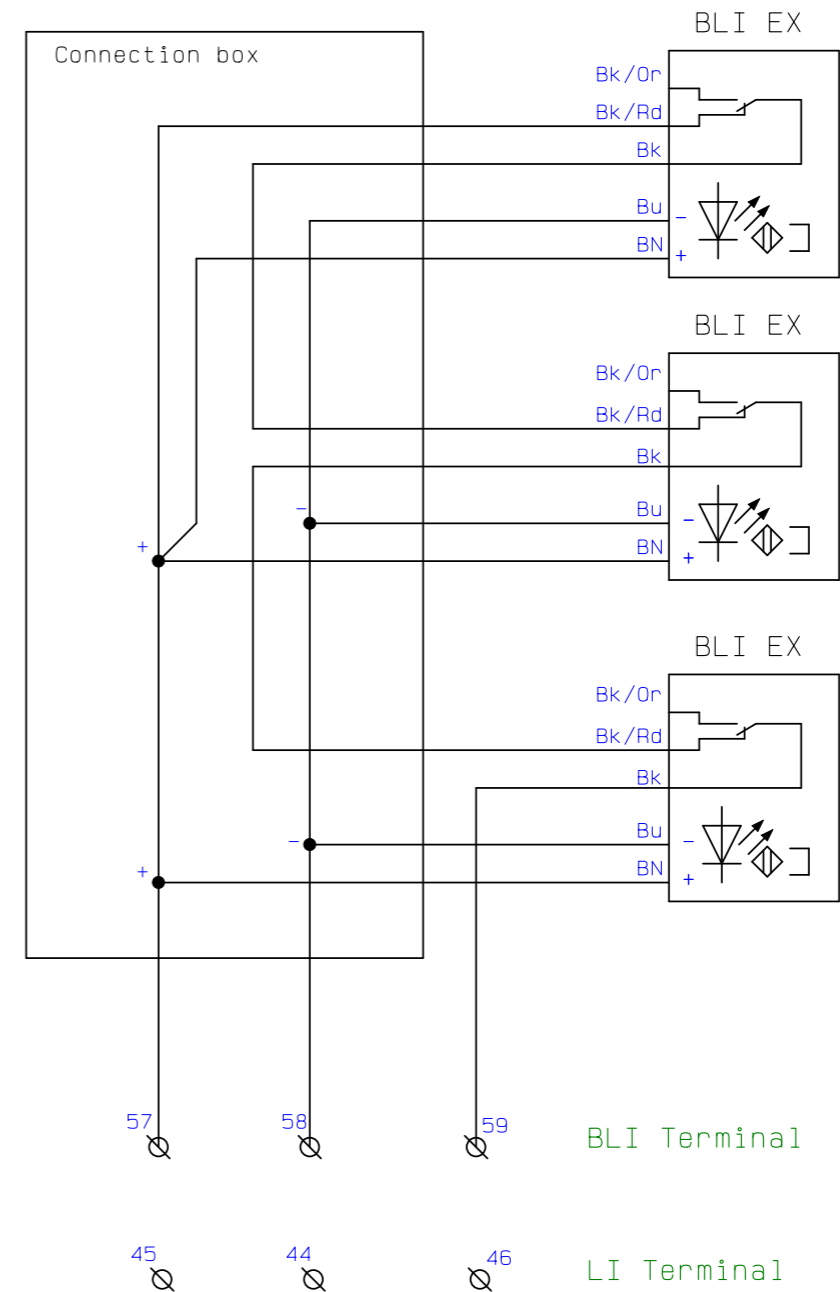


Open = TS1>140C
Not Resettable

START
UPP VALVE

(CAS)
Open = P<3Bar

Thermal Supervision
RBU- Air Outlet



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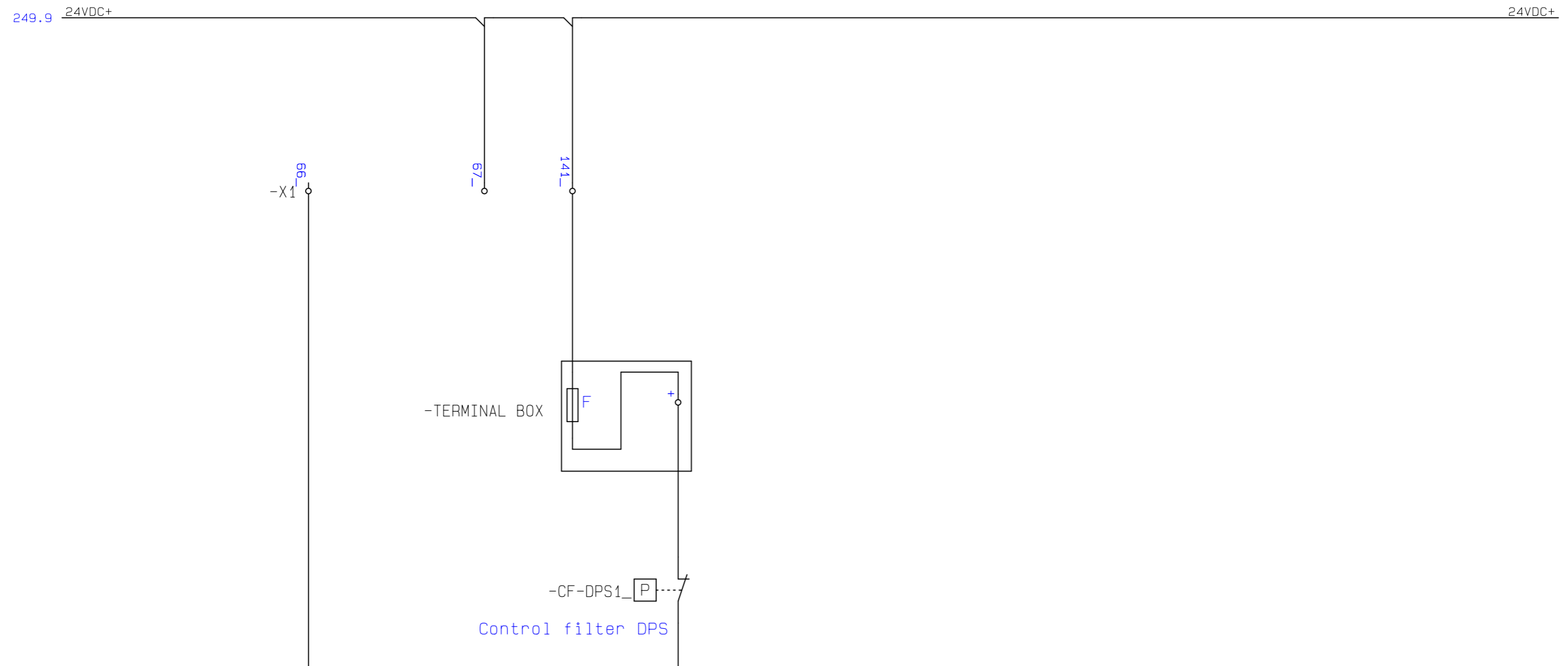
Revision	0	Product	Product
Status	Available	Product	HVCP EX 45kW Insight
Date of approval	-	Date of created	2019/08/20
Approval by	-	Author	FRALE
508	previous page		



RBU
CONNECTIONS
and OPTIONAL BLI

Drawing no.
2183553

Page no.
509
Next page 510



Principal schematic, connection of sensors using auxilliary 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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Status	Available	Date of created	2019/08/20				Next page	1000		
Date of approval	-	Author	FRALE							
Approval by	-									
509	previous page									

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			200/3	
4	-A2		6ES7223-1BH30-0XB0			200/8	*
5	-A3		6ES7223-1BH30-0XB0			201/3	*
6	-A11					9/5	*
7	-A11		6AV6647-0AA11-3AX0			9/5	*
8	-A21		3SK1111-1AB30			71/7	*
9	-A21/1/1		3SK1111-1AB30			70/2	*
10	-AUX1					82/2	*
11	-AUX2					232/4	*
12	-AUX3					82/6	*
13	-AUX4					240/7	*
14	-AUX- E-STOP					71/6	*
15	-AUX-EX-TRIP					242/1	*
16	-AUX-SAFE					70/5	*
17	-BLI (EX)					231/2	*
18	-D1		1N4007			239/1	*
19	-D2		1N4007			239/3	*
20	-D3		1N4007			240/1	*
21	-D4		1N4007			240/4	*
22	-D5		1N4007			242/4	*
23	-D6		1N4007			242/7	*
24	-D7		1N4007			245/1	*
25	-D8		1N4007			245/4	*
26	-E					10/3	*
27	-E1		Cable duct 25x80x700			10/4	*
28	-E2		Cable duct 40x80x180			10/3	*

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

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Status	Available	Date of created	2019/08/20	2183553			1001	
Date of approval	-	Author	FRALE					
Approval by	-			Next page			1002	
1000	Previous page							

No.	Name	EAN-no.	Type	Description	Manufacture	Ref. position	Remarks
29	-E3		Cable duct 40x80x440			10/3	*
30	-E4		Cable duct 25x60x360			10/5	*
31	-E5		Cable duct 40x80x465			10/7	*
32	-E6		Cable duct 25x60x360			10/5	*
33	-E7		Cable duct 40x80x465			10/5	*
34	-E8		Cable duct 40x80x545			10/5	*
35	-E9		Cable duct 49x99x545			10/5	*
36	-E10					10/4	*
37	-E11		Schneider electric 800x800x300			9/5	*
38	-EBR		Earthing bar rail			10/3	*
39	-ET1		UK 2,5 N			240/1	*
40	-EXT ALARM					238/1	*
41	-EXT WARNING					238/6	*
42	-F2		140M-C2E-B16			60/2	*
43	-F4		Auto Fuse 6A			60/3	*
44	-F5		Auto Fuse 16A			60/2	*
45	-F6		1A 5x20mm fast			230/1	*
46	-F7		193-EEGE			80/0	*
47	-F8		817-E1			81/2	*
48	-FA		(Thermal Fuse or other device)			70/1	*
49	-G1		6EP1333-1LB00			60/5	*
50	-H1		800FP-P5PN3Y			238/5	*
51	-H2					240/9	*
52	-K1		100-FA11			70/6	*
53	-K1		100-C60KJ00			80/5	*
54	-K1		100-FA11			10/2	*
55	-K1		100-FA11			80/8	*
56	-K2		100-C60KJ00			80/6	*

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Revision	0	Product	HVCP EX 45kW Insight			COMPONENT LIST	Drawing no.	Page no.
Status	Available			2183553			1002	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1001	Previous page							

No.	Name	EAN-no.	Type	Description	Manufacture	Ref. position	Remarks
57	-K2		100-FA22			10/3	*
58	-K3		100-C37KJ00			80/7	*
59	-K3		100-FA02			10/3	*
60	-K4T		700-FSY2DU23			80/8	*
61	-K8		PLC-RSC- 24DC/21-21			238/3	*
62	-K8		PLC-RSC- 24DC/21-21			10/5	*
63	-K9		PLC-RSC- 24DC/21			233/8	*
64	-K9		PLC-RSC- 24DC/21			10/5	*
65	-K9/1		PLC-RSC- 24DC/21			70/2	*
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			10/6	*

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Revision	0	Product	HVCP EX 45kW Insight			COMPONENT LIST	Drawing no.	Page no.
Status	Available			2183553			1003	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1002	Previous page							

No.	Name	EAN-no.	Type	Description	Manufacture	Ref. position	Remarks
85	-K19		PLC-RSC- 24DC/21			241/2	*
86	-K19		PLC-RSC- 24DC/21			10/6	*
87	-K20		PLC-RSC- 24DC/21			241/4	*
88	-K20		PLC-RSC- 24DC/21			10/6	*
89	-K21		PLC-RSC- 24DC/21			241/6	*
90	-K21		PLC-RSC- 24DC/21			10/6	*
91	-K22		PLC-RSC- 24DC/21-21AU			10/6	*
92	-K23		PLC-RSC- 24DC/21			242/2	*
93	-K23		PLC-RSC- 24DC/21			10/6	*
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	-K30		PLC-RSC- 24DC/21			245/2	*
107	-K30		PLC-RSC- 24DC/21			10/6	*
108	-K31		PLC-RSC- 24DC/21			245/5	*
109	-K31		PLC-RSC- 24DC/21			10/6	*
110	-K32		PLC-RSC- 24DC/21			245/8	*
111	-K32		PLC-RSC- 24DC/21			10/6	*
112	-K33		PLC-RSC- 24DC/21			246/2	*

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Revision	0	Product	HVCP EX 45kW Insight			COMPONENT LIST	Drawing no.	Page no.
Status	Available			2183553			1004	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1003	Previous page							

No.	Name	EAN-no.	Type	Description	Manufacture	Ref. position	Remarks
113	-K33		PLC-RSC- 24DC/21			10/6	*
114	-K34		PLC-RSC- 24DC/21			246/5	*
115	-K34		PLC-RSC- 24DC/21			10/6	*
116	-K35		PLC-RSC- 24DC/21			246/8	*
117	-K35		PLC-RSC- 24DC/21			10/6	*
118	-K36		PLC-RSC- 24DC/21			247/2	*
119	-K36		PLC-RSC- 24DC/21			10/6	*
120	-K37		PLC-RSC- 24DC/21			247/5	*
121	-K37		PLC-RSC- 24DC/21			247/5	*
122	-LI (EX)					232/9	*
123	-M2					83/2	*
124	-M3					83/5	*
125	-MV1					241/3	*
126	-P1					210/9	*
127	-PE		WT 4 PE			60/6	*
128	-PTC-MOTOR		PTC Built in Monitoring overheat			80/1	*
129	-Q1		Main switch 125A			10/3	*
130	-Q1		3LD2814-0TK51			50/1	*
131	-Q2		3RM1001-1AA04			10/4	*
132	-Q2		3RM1102-3AA04			240/1	*
133	-Q3		3RM1001-1AA04			10/4	*
134	-Q3		3RM1102-3AA04			242/5	*
135	-Q4					70/1	*
136	-Q5		140M-C2E-B40			83/2	*
137	-Q5		140M-C-AFA11			234/2	*
138	-R1		500 Ohm			248/3	*
139	-S2					234/3	*
140	-S3		Switch NC			231/8	*

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Revision	0	Product	HVCP EX 45kW Insight			COMPONENT LIST	Drawing no.	Page no.
Status	Available	Date of created	2019/08/20	2183553			1005	
Date of approval	-	Author	FRALE					
Approval by	-			Next page			1006	
1004	Previous page							

No.	Name	EAN-no.	Type	Description	Manufacture	Ref. position	Remarks
141	-S4		800FP-MT44			9/5	*
142	-S5		External E-stop 800FP-MT44			70/3	*
143	-S6					235/7	*
144	-S19		Venting panel sensor 3 Flexfilter	EX		70/8	*
145	-S20		Venting panel sensor 4 Flexfilter	EX		70/9	*
146	-SP1		0-->40kPa 10-->0V			248/7	*
147	-SP2		0-->40kPa 10-->0V			248/7	*
148	-SPARE_TERMINAL1					249/1	*
149	-SPARE_TERMINAL2					249/3	*
150	-SPARE_TERMINAL3					249/4	*
151	-SPARE_TERMINAL4					249/6	*
152	-SPARE_TERMINAL5					249/7	*
153	-SV1					248/1	*
154	-T1		Transfo 230-460V 24V/230V			60/2	*
155	-T1		-20V -0V- +20V 230-400-460V 24VAC-- 340VA 230VAC-- 160VA			10/5	*
156	-T2		Current Sensor LEM AT 100 B10			50/1	*
157	-TB1					230/6	*
158	-TERMINAL BOX					510/3	*
159	-U1		eWon flexy205			210/7	*
160	-V1					239/1	*
161	-V2					239/4	*
162	-V3					240/1	*
163	-V4					240/4	*
164	-V10		START UPP VALVE			508/1	*
165	-W0		Power Cable			50/1	*
166	-W1		Motor Cable >= 3x10mm ² + PE			80/1	*
167	-W2		Motor Cable >= 3x10mm ² + PE			80/2	*
168	-W3		Motor Cable >= 3x10mm ² + PE			80/1	*

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Revision	0	Product	HVCP EX 45kW Insight			COMPONENT LIST	Drawing no.	Page no.
Status	Available			2183553			1006	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					
1005	Previous page					Next page	1007	

No.	Name	EAN-no.	Type	Description	Manufacture	Ref. position	Remarks
169	-W4		Motor Cable >= 3x10mm ² + PE			80/2	*
170	-W101		2x1.0mm ²			232/1	*
171	-W102		2x1.0mm ²			230/1	*
172	-W103		2x1.0mm ²			231/7	*
173	-W104		2x1.0mm ²			70/3	*
174	-W105		2x1.0mm ²			70/5	*
175	-W106		2x1.0mm ²			70/6	*
176	-W107		2x1.0mm ²			70/7	*
177	-W108		2x1.0mm ²			70/8	*
178	-W109		2x1.0mm ²			70/9	*
179	-W110		0,75mm ²			230/3	*
180	-W111		2x1.0mm ²			231/4	*
181	-W112		3x1,0mm ²			232/6	*
182	-W113		2x1.0mm ²			70/1	*
183	-W114		2x1.0mm ²			231/3	*
184	-W115		2x1.0mm ²			233/5	*
185	-W116		3x1.0mm ²			231/0	*
186	-W117		2x1.0mm ²			233/0	*
187	-W118		2x1.0mm ²			234/0	*
188	-W119		2x1.0mm ²			234/3	*
189	-W120		2x1.0mm ²			234/5	*
190	-W121		2x1.0mm ²			234/7	*
191	-W122		2x1.0mm ²			235/0	*
192	-W123		2x1.0mm ²			235/3	*
193	-W124		2x1.0mm ²			235/5	*
194	-W125		2x1.0mm ²			235/7	*
195	-W126		PTC inside motor 2x1.0mm ²			81/2	*
196	-W127		2x1.0mm ²			236/0	*

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Revision	0	Product	HVCP EX 45kW Insight			COMPONENT LIST	Drawing no.	Page no.
Status	Available	Date of created	2019/08/20	2183553			1007	
Date of approval	-	Author	FRALE					
Approval by	-	1006	Previous page	Next page			1008	

No.	Name	EAN-no.	Type	Description	Manufacture	Ref. position	Remarks
197	-W128		2x1.0mm ²			236/3	*
198	-W129		2x1.0mm ²			236/5	*
199	-W130		2x1.0mm ²			236/7	*
200	-W131		2x1.0mm ²			237/0	*
201	-W132		2x1.0mm ²			237/3	*
202	-W133		2x1.0mm ²			237/5	*
203	-W134		2x1.0mm ²			237/7	*
204	-W135		2x1.0mm ²			231/5	*
205	-W136		2x1.0mm ²			231/5	*
206	-W137		2x1.0mm ²			70/0	*
207	-W200		2x1.0mm ²			71/6	*
208	-W203		2x1.0mm ²			82/1	*
209	-W204		2x1.0mm ²			232/3	*
210	-W205		2x1.0mm ²			82/6	*
211	-W207		2x1.0mm ²			239/0	*
212	-W208		2x1.0mm ²			239/3	*
213	-W209		2x1.0mm ²			240/0	*
214	-W210		2x1.0mm ²			240/3	*
215	-W211		3x1.0mm ²			238/6	*
216	-W212		3x1.0mm ²			238/0	*
217	-W213		2x1.0mm ²			241/0	*
218	-W215		5x1.0mm ²			241/4	*
219	-W217		2x1.0mm ²			240/9	*
220	-W218		2X1.0mm ²			242/0	*
221	-W219		2X1.0mm ²			242/3	*
222	-W220		2X1.0mm ²			242/6	*
223	-W221		2x1.0mm ²			243/1	*
224	-W222		2X1.0mm ²			243/3	*

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Revision	0	Product	HVCP EX 45kW Insight			COMPONENT LIST	Drawing no.	Page no.
Status	Available			2183553			1008	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1007	Previous page							

No.	Name	EAN-no.	Type	Description	Manufacture	Ref. position	Remarks
225	-W223		2X1.0mm ²			243/6	*
226	-W224		2X1.0mm ²			244/1	*
227	-W225		2x1.0mm ²			244/4	*
228	-W226		Permanent 24VDC(max 1A)			81/4	*
229	-W227		PTC inside motor 2x1.0mm ²			81/5	*
230	-W228		PTC inside motor 2x1.0mm ²			81/7	*
231	-W229		2X1.0mm ²			245/0	*
232	-W230		2X1.0mm ²			245/3	*
233	-W231		2X1.0mm ²			245/6	*
234	-W232		2X1.0mm ²			246/0	*
235	-W233		2X1.0mm ²			246/3	*
236	-W234		2X1.0mm ²			246/6	*
237	-W235		2X1.0mm ²			247/0	*
238	-W236		2x1.0mm ²			240/6	*
239	-W500		Shielded ethernet cable			210/3	*
240	-W501		Shielded ethernet cable			210/6	*
241	-W503		3x1.0mm ²			248/6	*
242	-W504		3x1.0mm ²			248/6	*
243	-WX1		2x1.0mm ²			249/1	*
244	-WX2		2x1.0mm ²			249/2	*
245	-WX3		2x1.0mm ²			249/4	*
246	-WX4		2x1.0mm ²			249/6	*
247	-WX5		2x1.0mm ²			249/7	*
248	-X1					510/2	*
249	-X1		UTT 2,5			247/4	*
250	-X1		UTT 2,5-DIO/O-U			245/1	*
251	-X1		UTT 2,5 - 3044636			248/3	*
252	-XX1					508/3	*

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Revision	0	Product	HVCP EX 45kW Insight			COMPONENT LIST	Drawing no.	Page no.
Status	Available			2183553			1009	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					
1008	Previous page					Next page	1010	

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. 2183553	Page no. 1011	
Status	Available	Product						1012
Date of approval	-	Date of created						2019/08/20
Approval by	-	Author						FRALE
1010	previous page							

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 Clean 7		-K24	6ES7223-1BH30-0XB0
42	-A2:DQa.2	Q8.2	TVFD 2 Lower valve Clean 8		-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	-A3:Dla.0	I12.0	TVFD 3 limit switch upper closed	-X1:152,-W127:1	-S15	6ES7223-1BH30-0XB0
49	-A3:Dla.1	I12.1	TVFD 3 limit switch lower closed	-X1:154,-W128:1	-S16	6ES7223-1BH30-0XB0
50	-A3:Dla.2	I12.2	TVFD 4 Limit Switch Upper closed	-X1:156,-W129:1	-S17	6ES7223-1BH30-0XB0
51	-A3:Dla.3	I12.3	TVFD 4 limit switch lower closed	-X1:158,-W130:1	-S18	6ES7223-1BH30-0XB0
52	-A3:Dla.4	I12.4	Venting panel sensor3	-X1:160,-W131:1	-S19	6ES7223-1BH30-0XB0
53	-A3:Dla.5	I12.5	Venting panel sensor4	-X1:162,-W132:1	-S20	6ES7223-1BH30-0XB0
54	-A3:Dla.6	I12.6	CF-DPS3(Control Filter DP switch 3)	-X1:164,-W133:1	-CF-DPS3	6ES7223-1BH30-0XB0
55	-A3:Dla.7	I12.7	CF-DPS4(Control Filter DP switch 4)	-X1:166,-W134:1	-CF-DPS4	6ES7223-1BH30-0XB0
56	-A3:DQa.0	Q12.0	TVFD 3 upper valve Flush 5 / FlexF18 v3 / Clean 5		-K30	6ES7223-1BH30-0XB0
57	-A3:DQa.1	Q12.1	TVFD 3 Lower valve Flush 6 / FlexF18 v4		-K31	6ES7223-1BH30-0XB0
58	-A3:DQa.2	Q12.2	TVFD 4 upper valve Lime inj. Open TAV50		-K32	6ES7223-1BH30-0XB0

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Revision		Product		PLC LIST	Drawing no. 2183553	Page no. 1012
Status	Available	Product				
Date of approval	-	Date of created				
Approval by	-	Author				
1011	previous page	2019/08/20	FRALE			Next page 1013

Pos.	Name	I/O	Description	Signalway	Connected to	Card type
59	-A3:DQa.3	Q12.3	TVFD 4 Lower valve Lime inj. Dosing		-K33	6ES7223-1BH30-0XB0
60	-A3:DQa.4	Q12.4	Upstream damper 2		-K34	6ES7223-1BH30-0XB0
61	-A3:DQa.5	Q12.5	Downstream damper 1 (OFF-line cleaning and Graceful degr.)		-K35	6ES7223-1BH30-0XB0
62	-A3:DQa.6	Q12.6	Downstream damper 2 (OFF-line cleaning and Graceful degr.)		-K36	6ES7223-1BH30-0XB0
63	-A3:DQa.7	Q12.7	Spare (Clean/flush/ presep.)	-K37:A1,-K36:A2,-K36:A1	-A3	6ES7223-1BH30-0XB0
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Revision	Available	Product		PLC LIST	Drawing no. 2183553	Page no. 1013	
Status	-	HVCP EX 45kW Insight					
Date of approval	-	Date of created					2019/08/20
Approval by	-	Author					FRALE
1012	previous page					Next page 1014	

From			Cable		To			Type	Length
Description	Ref. position	Function	Description	Page/lineway	Description	Ref. position	Function		
-Q1	50/1	Main Switch 125A	-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	0	Product	HVCP EX 45kW Insight			CABEL OVERVIEW	Drawing no.	Page no.
Status	Available			2183553			1014	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1013	previous page							

From			Cable		To			Type	Length
Description	Ref. position	Function	Description	Page/lineaway	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	TVFD2 Limit 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	236/1		-W127	236/1	-S15	236/2	TVFD 3 Limit Switch upper closed Rotary valve 3 No Fault (Ready)	2x1.0mm ²	
-X1	236/3		-W128	236/3	-S16	236/4	TVFD 3 Limit Switch Lower closed Rotary valve 3 Rotation Pulses	2x1.0mm ²	
-X1	236/5		-W129	236/5	-S17	236/6	TVFD4 Limit Switch upper closed Rotary valve 4 No Fault (Ready)	2x1.0mm ²	
-X1	236/7		-W130	236/7	-S18	236/8	TVFD4 Limit Switch Lower closed Rotary valve 4 Rotation Pulses	2x1.0mm ²	
-X1	237/1		-W131	237/1	-S19	237/2	Venting panel sensor3	2x1.0mm ²	
-X1	237/3		-W132	237/3	-S20	237/4	Venting panel sensor4	2x1.0mm ²	
-X1	237/5		-W133	237/5	-CF-DPS3	237/6	Control Filter DP switch 3	2x1.0mm ²	
-X1	237/7		-W134	237/7	-CF-DPS4	237/8	Control Filter DP switch 4	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	70/0		-W137	70/0	-Q4	70/0	Intrinsically safe circuit (external)	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 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	

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Revision	0	Product	HVCP EX 45kW Insight			CABEL OVERVIEW	Drawing no.	Page no.
Status	Available			2183553			1015	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1014	previous page							

From			Cable		To			Type	Length
Description	Ref. position	Function	Description	Page/lineway	Description	Ref. position	Function		
-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	2x1.0mm ²	
-X1	81/4		-W226	81/4				Permanent 24VDC(max 1A)	
-X1	81/5		-W227	81/5				PTC inside motor 2x1.0mm ²	
-X1	81/8		-W228	81/8				PTC inside motor 2x1.0mm ²	
-X1	245/1		-W229	245/1	-V5	245/1	Filter Cleaning Valve V5	2X1.0mm ²	
-X1	245/4		-W230	245/4	-V6	245/4	TVFD 2 Upper Valve	2X1.0mm ²	
-X1	245/7		-W231	245/7	-V24	245/7	TVFD 2 Lower Valve	2X1.0mm ²	
-X1	246/1		-W232	246/1	-V25	246/1	TVFD4 Lower Valve	2X1.0mm ²	
-X1	246/4		-W233	246/4	-V26	246/4	TVFD 2 Upper Valve	2X1.0mm ²	
-X1	246/7		-W234	246/7	-V27	246/7	TVFD 2 Lower Valve	2X1.0mm ²	
-X1	247/1		-W235	247/1	-V28	247/1	Downstream damper 2	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	249/4	Spare Term	-WX3	249/4	-SPARE_TERMINAL	249/4	-SPARE_TERMINAL	2x1.0mm ²	
-X1	249/6	Spare Term	-WX4	249/6	-SPARE_TERMINAL	249/6	-SPARE_TERMINAL	2x1.0mm ²	
-X1	249/7	Spare Term	-WX5	249/7	-SPARE_TERMINAL	249/7	-SPARE_TERMINAL	2x1.0mm ²	

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Revision	0	Product	HVCP EX 45kW Insight			CABEL OVERVIEW	Drawing no.	Page no.
Status	Available			2183553			1016	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					
1015	previous page					Next page	1017	

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position Page / Lineway	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	1		24VDC+		UK 2,5 N	210/7	
4			-ET1	3		24VDC+		UK 2,5 N	234/2	
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			-K37			-A3	DQa.7	PLC-RSC- 24DC/21	247/5	
10			-K37			-X1	134	PLC-RSC- 24DC/21	247/5	
11			-K37			-X1	86	PLC-RSC- 24DC/21	247/5	
12	-PE		-PE			0V		WT 4 PE	60/3	
13			-PE			-K9/1	A2	WT 4 PE	60/6	
14	-PE		-PE			-G1	-	WT 4 PE	60/6	
15	-CF-DPS1_		-X1	66_					510/2	
16			-X1	67_		24VDC+			510/3	
17	-TERMINAL BOX	1	-X1	141_		24VDC+			510/3	
18			-X1	40		-X1	196	UTT 2,5 - 3044636	232/6	
19	-LI (EX)	- Blue	-X1	40		-X1	58	UTT 2,5 - 3044636	232/6	
20			-X1	85		-K37	14	UTT 2,5	247/4	
21	-PTC-MOTOR	2	-X1	139		-F8	T1	UTT 2,5 - 3044636	81/2	
22	-W226	1	-X1	141		24VDC+		UTT 2,5 - 3044636	81/4	
23	-W227	1	-X1	143		24VDC+		UTT 2,5 - 3044636	81/5	
24	-W228	1	-X1	145		24VAC		UTT 2,5 - 3044636	81/8	
25			-X1	86		-K37	A2	UTT 2,5	247/5	
26			-X1	86		-K36	A2	UTT 2,5	247/5	
27	-MS1	13	-X1	1		24VDC+		UTT 2,5 - 3044636	232/1	
28	-PTC-MOTOR	1	-X1	140		-F8	T2	UTT 2,5 - 3044636	81/2	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.	
Status	Available						TERMINAL LIST	2183553	1017
Date of approval	-	Date of created	2019/08/20						
Approval by	-	Author	FRALE						
1016	previous page					Next page	1018		

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
29			-X1	142		-X1	144	UTT B 2,5 - 3044636	81/4	
30	-W226	2	-X1	142		-A21/1/1	A2	UTT B 2,5 - 3044636	81/4	
31			-X1	144		-X1	26	UTT B 2,5 - 3044636	81/6	
32	-W227	2	-X1	144		-X1	142	UTT B 2,5 - 3044636	81/6	
33	-W228	2	-X1	146		0V		UTT B 2,5 - 3044636	81/8	
34	-MS1	14	-X1	2		-A1	D1b.0	UTT B 2,5 - 3044636	232/2	
35	-PS		-X1	3		-F6	2	UTT B 2,5 - 3044636	230/1	
36	-PS		-X1	4		-A1	D1a.0	UTT B 2,5 - 3044636	230/2	
37	-X1	6	-X1	5				UTT B 2,5 - 3044636	231/8	
38	-S3	1	-X1	5		24VDC+		UTT B 2,5 - 3044636	231/8	
39	-X1	5	-X1	6				UTT B 2,5 - 3044636	231/9	
40	-S3	2	-X1	6		-A1	D1a.6	UTT B 2,5 - 3044636	231/9	
41	-SPARE_TERMINAL4	2	-X1	137				UTT B 2,5 - 3044636	249/6	
42	-SPARE_TERMINAL5	2	-X1	150				UTT B 2,5 - 3044636	249/8	
43	-AUX- E-STOP	1	-X1	15		-A21	34	UTT B 2,5 - 3044636	71/6	
44	-SPARE_TERMINAL1	1	-X1	19				UTT B 2,5 - 3044636	249/1	
45	-SPARE_TERMINAL2	1	-X1	39				UTT B 2,5 - 3044636	249/3	
46	-SPARE_TERMINAL3	1	-X1	84				UTT B 2,5 - 3044636	249/4	
47	-SPARE_TERMINAL4	1	-X1	99				UTT B 2,5 - 3044636	249/6	
48	-SPARE_TERMINAL5	1	-X1	149				UTT B 2,5 - 3044636	249/7	
49	-AUX- E-STOP	2	-X1	16		-A21	33	UTT B 2,5 - 3044636	71/6	
50	-SPARE_TERMINAL1	2	-X1	20				UTT B 2,5 - 3044636	249/1	
51	-SPARE_TERMINAL2	2	-X1	68				UTT B 2,5 - 3044636	249/3	
52			-X1	136	●	-R1	2	UTT B 2,5 - 3044636	248/3	
53			-X1	26	a	-A1	M	UTT B 2,5 - 3044636	82/2	
54	-AUX1	2	-X1	26		-X1	144	UTT B 2,5 - 3044636	82/2	
55			-X1	25		-K13	11	UTT B 2,5 - 3044636	82/1	
56	-AUX1	1	-X1	25		-A21	14	UTT B 2,5 - 3044636	82/1	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.
Status	Available			2183553			1018	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1017	previous page							

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position Page / Lineway	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
57	-MS2	13	-X1	201		-Q2	95	UTT B 2,5	234/2	
58	-MS3	13	-X1	202		-Q3	95	UTT B 2,5	234/7	
59			-X1	196		-X1	198	UTT B 2,5	234/4	
60	-S2	-	-X1	196		-X1	40	UTT B 2,5	234/4	
61			-X1	198		-K10	A2	UTT B 2,5	235/9	
62	-S6	-	-X1	198		-X1	196	UTT B 2,5	235/9	
63	-AUX3	1	-X1	29		24VAC(E)		UTT B 2,5 - 3044636	82/6	
64	-AUX3	2	-X1	30		0V		UTT B 2,5 - 3044636	82/6	
65			-X1	32		-K15	A2	UTT B 2,5 - 3044636	239/8	
66	-TB1	32	-X1	32		-K12	A2	UTT B 2,5 - 3044636	239/8	
67	-TB1	31	-X1	31		-K15	14	UTT B 2,5 - 3044636	239/7	
68	-X1	34	-X1	33				UTT B 2,5 - 3044636	230/4	
69	-CAS		-X1	33		24VDC+		UTT B 2,5 - 3044636	230/4	
70	-X1	33	-X1	34				UTT B 2,5 - 3044636	230/5	
71	-CAS		-X1	34		-A1	D1a.1	UTT B 2,5 - 3044636	230/5	
72	-TB1	35	-X1	35		24VDC+		UTT B 2,5 - 3044636	230/6	
73	-TB1	36	-X1	36		-A1	D1a.2	UTT B 2,5 - 3044636	230/7	
74			-X1	42		-K13	A2	UTT B 2,5-DIO/O-U	239/1	
75			-X1	42		-D1	1	UTT B 2,5-DIO/O-U	239/1	
76	-V1	2	-X1	42		-K11	A2	UTT B 2,5-DIO/O-U	239/1	
77			-X1	41		-K13	14	UTT B 2,5-DIO/O-U	239/1	
78	-V1	1	-X1	41		-D1	2	UTT B 2,5-DIO/O-U	239/1	
79			-X1	44		-K14	A2	UTT B 2,5-DIO/O-U	239/3	
80			-X1	44		-D2	1	UTT B 2,5-DIO/O-U	239/3	
81	-V2	2	-X1	44		-K13	A2	UTT B 2,5-DIO/O-U	239/3	
82			-X1	43		-K14	14	UTT B 2,5-DIO/O-U	239/4	
83	-V2	1	-X1	43		-D2	2	UTT B 2,5-DIO/O-U	239/4	
84	-LI (EX)	+ Brown	-X1	45		24VDC+		UTT B 2,5 - 3044636	232/7	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no. 2183553	Page no. 1019
Status	Available	Date of created	2019/08/20	Author				
Date of approval	-							
Approval by	-							
1018	previous page							Next page 1020

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
85	-LI (EX)	Bk/Rd	-X1	46		-A1	D1b.2	UTT B 2,5 - 3044636	232/8	
86	- MF-DPS1		-X1	49		24VDC+		UTT B 2,5 - 3044636	231/3	
87	- MF-DPS1		-X1	50		-X1	187	UTT B 2,5 - 3044636	231/4	
88	-S1		-X1	55		24VDC+		UTT B 2,5 - 3044636	233/5	
89	-S1		-X1	56		-A1	D1b.4	UTT B 2,5 - 3044636	233/6	
90	-BLI (EX)	Black	-X1	57				UTT B 2,5 - 3044636	231/1	
91	-BLI (EX)	+ Brown	-X1	57				UTT B 2,5 - 3044636	231/1	
92	-X1	59	-X1	57		24VDC+		UTT B 2,5 - 3044636	231/1	
93	-BLI (EX)	Bk/Rd	-X1	59				UTT B 2,5 - 3044636	231/1	
94	-X1	57	-X1	59		-A1	D1a.4	UTT B 2,5 - 3044636	231/1	
95			-X1	58		-X1	40	UTT B 2,5 - 3044636	231/1	
96	-BLI (EX)	- Blue	-X1	58		-U1	24VDC-	UTT B 2,5 - 3044636	231/1	
97	-EXT WARNING	1	-X1	60		-K11	11	UTT B 2,5 - 3044636	238/6	
98	-EXT WARNING	2	-X1	61		-K11	14	UTT B 2,5 - 3044636	238/6	
99	-EXT WARNING	3	-X1	62		-K11	12	UTT B 2,5 - 3044636	238/7	
100	-EXT ALARM	1	-X1	63		-K10	11	UTT B 2,5 - 3044636	238/0	
101	-AUX2	1	-X1	17		-K2	84	UTT B 2,5 - 3044636	232/4	
102	-AUX2	2	-X1	18		-K2	83	UTT B 2,5 - 3044636	232/4	
103	-SV1	Signal	-X1	138	a	-K22	14	UTT B 2,5 - 3044636	248/3	
104	-X1	188	-X1	187				UTT B 2,5	231/4	
105	-MF-DPS2		-X1	187		-X1	50	UTT B 2,5	231/4	
106	-X1	187	-X1	188				UTT B 2,5	231/4	
107	-MF-DPS2		-X1	188		-X1	189	UTT B 2,5	231/4	
108	-X1	190	-X1	189				UTT B 2,5	231/5	
109	-MF-DPS3		-X1	189		-X1	188	UTT B 2,5	231/5	
110	-X1	189	-X1	190				UTT B 2,5	231/5	
111	-MF-DPS3		-X1	190		-X1	191	UTT B 2,5	231/5	
112	-X1	192	-X1	191				UTT B 2,5	231/5	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.
Status	Available			2183553			1020	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1019	previous page							

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
113	-MF-DPS4		-X1	191		-X1	190	UTT B 2,5	231/5	
114	-X1	191	-X1	192				UTT B 2,5	231/6	
115	-MF-DPS4		-X1	192		-A1	Dla.5	UTT B 2,5	231/6	
116	-EXT ALARM	2	-X1	64		-K10	14	UTT B 2,5 - 3044636	238/1	
117	-EXT ALARM	3	-X1	65		-K10	12	UTT B 2,5 - 3044636	238/1	
118	-CF-DPS1		-X1	67		24VDC+		UTT B 2,5 - 3044636	233/1	
119	-CF-DPS1		-X1	66		-A1	Dlb.3	UTT B 2,5 - 3044636	233/0	
120	-X1	72	-X1	71				UTT B 2,5 - 3044636	241/0	
121	-W213	1	-X1	71		24VAC(E)		UTT B 2,5 - 3044636	241/0	
122	-X1	71	-X1	72		-K19	11	UTT B 2,5 - 3044636	241/1	
123	-X1	75	-X1	73				UTT B 2,5 - 3044636	241/1	
124	-V13	1	-X1	73		-K19	14	UTT B 2,5 - 3044636	241/1	
125	-W213	4	-X1	74		-K19	12	UTT B 2,5 - 3044636	241/1	
126	-W110	10	-X1	75				UTT B 2,5 - 3044636	241/3	
127	-X1	73	-X1	75		-K20	11	UTT B 2,5 - 3044636	241/3	
128	-MV1	76	-X1	76		0V		UTT B 2,5 - 3044636	241/3	
129	-MV1	77	-X1	77		-K20	14	UTT B 2,5 - 3044636	241/3	
130	-MV1	78	-X1	78		-K20	12	UTT B 2,5 - 3044636	241/3	
131			-X1	79		-K24	11	UTT B 2,5 - 3044636	241/5	
132	-W215	1	-X1	79		-X1	87	UTT B 2,5 - 3044636	241/5	
133	-W215	3	-X1	81		-K21	11	UTT B 2,5 - 3044636	241/5	
134	-W215	4	-X1	82		-K21	14	UTT B 2,5 - 3044636	241/6	
135	-W215	5	-X1	83		-K21	12	UTT B 2,5 - 3044636	241/6	
136			-X1	80		-K21	A2	UTT B 2,5 - 3044636	241/5	
137	-W215	2	-X1	80		-K20	A2	UTT B 2,5 - 3044636	241/5	
138			-X1	87	●	-X1	79	UTT B 2,5 - 3044636	240/6	
139			-X1	87	●	-K17/1	11	UTT B 2,5 - 3044636	240/6	
140			-X1	88	b	-K18	A2	UTT B 2,5 - 3044636	240/6	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.
Status	Available			2183553			1021	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1020	previous page							

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position Page / Lineway	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
141	-H2	X2	-X1	88		-K17	A2	UTT B 2,5 - 3044636	240/6	
142	-S7	1	-X1	101		24VDC+		UTT B 2,5 - 3044636	234/2	
143	-MS2	14	-X1	102				UTT B 2,5 - 3044636	234/1	
144	-S7	2	-X1	102		-A2	Dla.0	UTT B 2,5 - 3044636	234/1	
145	-S8	1	-X1	103				UTT B 2,5 - 3044636	234/4	
146	-S2	+	-X1	103		24VDC+		UTT B 2,5 - 3044636	234/4	
147	-S8	2	-X1	104				UTT B 2,5 - 3044636	234/3	
148	-S2	Signal	-X1	104		-A2	Dla.1	UTT B 2,5 - 3044636	234/3	
149	-S9	1	-X1	105		24VDC+		UTT B 2,5 - 3044636	234/6	
150	-MS3	14	-X1	106				UTT B 2,5 - 3044636	234/5	
151	-S9	2	-X1	106		-A2	Dla.2	UTT B 2,5 - 3044636	234/5	
152	-S10	1	-X1	107		24VDC+		UTT B 2,5 - 3044636	234/9	
153	-S10	2	-X1	108		-A2	Dla.3	UTT B 2,5 - 3044636	234/8	
154	-S11	1	-X1	109		24VDC+		UTT B 2,5 - 3044636	235/2	
155	-S15	1	-X1	151		24VDC+		UTT B 2,5 - 3044636	236/2	
156	-S19	1	-X1	159		24VDC+		UTT B 2,5 - 3044636	237/2	
157	-S11	2	-X1	110		-A2	Dla.4	UTT B 2,5 - 3044636	235/1	
158	-S15	2	-X1	152		-A3	Dla.0	UTT B 2,5 - 3044636	236/1	
159	-S19	2	-X1	160		-A3	Dla.4	UTT B 2,5 - 3044636	237/1	
160	-S12	1	-X1	111		24VDC+		UTT B 2,5 - 3044636	235/4	
161	-S16	1	-X1	153		24VDC+		UTT B 2,5 - 3044636	236/4	
162	-S20	1	-X1	161		24VDC+		UTT B 2,5 - 3044636	237/4	
163	-S12	2	-X1	112		-A2	Dla.5	UTT B 2,5 - 3044636	235/3	
164	-S16	2	-X1	154		-A3	Dla.1	UTT B 2,5 - 3044636	236/3	
165	-S20	2	-X1	162		-A3	Dla.5	UTT B 2,5 - 3044636	237/3	
166	-CF-DPS2		-X1	113		24VDC+		UTT B 2,5 - 3044636	235/6	
167	-S17	1	-X1	155		24VDC+		UTT B 2,5 - 3044636	236/6	
168	-CF-DPS3		-X1	163		24VDC+		UTT B 2,5 - 3044636	237/6	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.
Status	Available			2183553			1022	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1021	previous page							

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position Page / Lineway	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
169	-CF-DPS2		-X1	114		-A2	Dla.6	UTT B 2,5 - 3044636	235/5	
170	-S17	2	-X1	156		-A3	Dla.2	UTT B 2,5 - 3044636	236/5	
171	-CF-DPS3		-X1	164		-A3	Dla.6	UTT B 2,5 - 3044636	237/5	
172	-S14	1	-X1	115				UTT B 2,5 - 3044636	235/8	
173	-S6	+	-X1	115		24VDC+		UTT B 2,5 - 3044636	235/8	
174	-S18	1	-X1	157		24VDC+		UTT B 2,5 - 3044636	236/8	
175	-CF-DPS4		-X1	165		24VDC+		UTT B 2,5 - 3044636	237/8	
176	-S14	2	-X1	116				UTT B 2,5 - 3044636	235/7	
177	-S6	Signal	-X1	116		-A2	Dla.7	UTT B 2,5 - 3044636	235/7	
178	-S18	2	-X1	158		-A3	Dla.3	UTT B 2,5 - 3044636	236/7	
179	-CF-DPS4		-X1	166		-A3	Dla.7	UTT B 2,5 - 3044636	237/7	
180	-AUX-EX-TRIP	1	-X1	117		-K23	11	UTT B 2,5 - 3044636	242/1	
181			-X1	172		-K30	A2	UTT B 2,5-DIO/O-U	245/1	
182			-X1	172		-D7	1	UTT B 2,5-DIO/O-U	245/1	
183	-V5	2	-X1	172		-K29	A2	UTT B 2,5-DIO/O-U	245/1	
184			-X1	178		-K33	A2	UTT B 2,5 - 3044636	246/1	
185	-V25	2	-X1	178		-K32	A2	UTT B 2,5 - 3044636	246/1	
186			-X1	184		-K36	A2	UTT B 2,5 - 3044636	247/1	
187	-V28	2	-X1	184		-K35	A2	UTT B 2,5 - 3044636	247/1	
188	-AUX-EX-TRIP	2	-X1	118		-K23	14	UTT B 2,5 - 3044636	242/1	
189			-X1	171		-K30	14	UTT B 2,5-DIO/O-U	245/1	
190	-V5	1	-X1	171		-D7	2	UTT B 2,5-DIO/O-U	245/1	
191	-V25	1	-X1	177		-K33	14	UTT B 2,5 - 3044636	246/1	
192	-V28	1	-X1	183		-K36	14	UTT B 2,5 - 3044636	247/1	
193			-X1	120		-K24	A2	UTT B 2,5-DIO/O-U	242/4	
194			-X1	120		-D5	1	UTT B 2,5-DIO/O-U	242/4	
195	-V7	2	-X1	120		-K23	A2	UTT B 2,5-DIO/O-U	242/4	
196			-X1	174		-K31	A2	UTT B 2,5-DIO/O-U	245/4	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.
Status	Available			2183553			1023	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1022	previous page							

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position Page / Lineway	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
197			-X1	174		-D8	1	UTT B 2,5-DIO/O-U	245/4	
198	-V6	2	-X1	174		-K30	A2	UTT B 2,5-DIO/O-U	245/4	
199			-X1	180		-K34	A2	UTT B 2,5 - 3044636	246/4	
200	-V26	2	-X1	180		-K33	A2	UTT B 2,5 - 3044636	246/4	
201	-Q3	IN1	-X1	119		-K24	14	UTT B 2,5-DIO/O-U	242/4	
202	-V7	1	-X1	119		-D5	2	UTT B 2,5-DIO/O-U	242/4	
203			-X1	173		-K31	14	UTT B 2,5-DIO/O-U	245/4	
204	-V6	1	-X1	173		-D8	2	UTT B 2,5-DIO/O-U	245/4	
205	-V26	1	-X1	179		-K34	14	UTT B 2,5 - 3044636	246/4	
206			-X1	122		-K25	A2	UTT B 2,5-DIO/O-U	242/7	
207			-X1	122		-D6	1	UTT B 2,5-DIO/O-U	242/7	
208	-V8	2	-X1	122		-K24	A2	UTT B 2,5-DIO/O-U	242/7	
209			-X1	176		-K32	A2	UTT B 2,5 - 3044636	245/7	
210	-V24	2	-X1	176		-K31	A2	UTT B 2,5 - 3044636	245/7	
211			-X1	182		-K35	A2	UTT B 2,5 - 3044636	246/7	
212	-V27	2	-X1	182		-K34	A2	UTT B 2,5 - 3044636	246/7	
213			-X1	121		-K25	14	UTT B 2,5-DIO/O-U	242/7	
214	-V8	1	-X1	121		-D6	2	UTT B 2,5-DIO/O-U	242/7	
215	-V24	1	-X1	175		-K32	14	UTT B 2,5 - 3044636	245/7	
216	-V27	1	-X1	181		-K35	14	UTT B 2,5 - 3044636	246/7	
217			-X1	124		-X1	126	UTT B 2,5 - 3044636	243/1	
218	-SH1	1	-X1	124		-K25	A2	UTT B 2,5 - 3044636	243/1	
219	-SH1	2	-X1	123		-A2	DQa.3	UTT B 2,5 - 3044636	243/2	
220			-X1	126		-K26	A2	UTT B 2,5 - 3044636	243/4	
221	-V18	2	-X1	126		-X1	124	UTT B 2,5 - 3044636	243/4	
222	-V18	1	-X1	125		-K26	14	UTT B 2,5 - 3044636	243/4	
223			-X1	128		-K27	A2	UTT B 2,5 - 3044636	243/6	
224	-V19	2	-X1	128		-K26	A2	UTT B 2,5 - 3044636	243/6	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.
Status	Available			2183553			1024	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1023	previous page							

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
225	-V19	1	-X1	127		-K27	14	UTT B 2,5 - 3044636	243/7	
226			-X1	130		-K28	A2	UTT B 2,5 - 3044636	244/1	
227	-V20	2	-X1	130		-K27	A2	UTT B 2,5 - 3044636	244/1	
228	-V20	1	-X1	129		-K28	14	UTT B 2,5 - 3044636	244/1	
229			-X1	132		-K29	A2	UTT B 2,5 - 3044636	244/4	
230	-V21	2	-X1	132		-K28	A2	UTT B 2,5 - 3044636	244/4	
231	-V21	1	-X1	131		-K29	14	UTT B 2,5 - 3044636	244/4	
232			-X1	196		-X1	198	UTT B 2,5 - 3044636	248/7	
233	-SP1	0V	-X1	196		-X1	134	UTT B 2,5 - 3044636	248/7	
234	-SP1	+24V	-X1	195				UTT B 2,5 - 3044636	248/8	
235	-SP2	+24V	-X1	195		24VDC+		UTT B 2,5 - 3044636	248/8	
236	-SV1	DO(NC)	-X1	135				UTT B 2,5 - 3044636	248/3	
237			-X1	134		-X1	196	UTT B 2,5 - 3044636	248/2	
238			-X1	134		-R1	1	UTT B 2,5 - 3044636	248/2	
239	-SV1	24VDC-	-X1	134		-K37	A2	UTT B 2,5 - 3044636	248/2	
240	-SV1	24VDC+	-X1	133		24VDC+		UTT B 2,5 - 3044636	248/2	
241	-SP2	Sign	-X1	185		-K22	24	UTT B 2,5 - 3044636	248/6	
242	-SP1	Sign	-X1	186		-K22	22	UTT B 2,5 - 3044636	248/6	
243	-SP2	0V	-X1	198		-X1	196	UTT B 2,5 - 3044636	248/7	
244	-H2	X1	-X1	90				UTT B 2,5 - 3044636	240/7	
245	-AUX4	2	-X1	90		-K18	11	UTT B 2,5 - 3044636	240/7	
246	-AUX4	1	-X1	89		-K18	14	UTT B 2,5 - 3044636	240/7	
247			-X1	52		-Q2	A2	UTT B 2,5-DIO/O-U	240/1	
248			-X1	52		-D3	1	UTT B 2,5-DIO/O-U	240/1	
249	-V3	2	-X1	52		-K15	A2	UTT B 2,5-DIO/O-U	240/1	
250	-Q2	IN1	-X1	51		-D3	2	UTT B 2,5-DIO/O-U	240/1	
251	-V3	1	-X1	51		-K16	14	UTT B 2,5-DIO/O-U	240/1	
252			-X1	54		-K17	A2	UTT B 2,5 - 3044636	240/5	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.
Status	Available			2183553			1025	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1024	previous page							

No.	Connected to (external)		Terminal			Connected to (internal)		Type	Ref. position	Remarks
	Destination	Connection	Name	Number	Jumper	Destination	Connection			
253			-X1	54		-D4	1	UTT B 2,5 - 3044636	240/5	
254	-V4	2	-X1	54		-K16	A2	UTT B 2,5 - 3044636	240/5	
255			-X1	53		-D4	2	UTT B 2,5 - 3044636	240/4	
256	-V4	1	-X1	53		-K17/1	14	UTT B 2,5 - 3044636	240/4	
257	-X1	7	-X1	8				UTT B 2,5 - 3044636	70/3	
258		12	-X1	8		-X1	9	UTT B 2,5 - 3044636	70/3	
259	-X1	10	-X1	9				UTT B 2,5 - 3044636	70/5	
260	-AUX-SAFE	1	-X1	9		-X1	8	UTT B 2,5 - 3044636	70/5	
261	-AUX-SAFE	2	-X1	10	●			UTT B 2,5 - 3044636	70/5	
262	-X1	9	-X1	10	●			UTT B 2,5 - 3044636	70/5	
263	-X1	12	-X1	11	●			UTT B 2,5 - 3044636	70/6	
264	-S11	2	-X1	11	●			UTT B 2,5 - 3044636	70/6	
265	-X1	22	-X1	21	●			UTT B 2,5 - 3044636	70/8	
266	-S19	2	-X1	21	●			UTT B 2,5 - 3044636	70/8	
267	-S11	1	-X1	12	●			UTT B 2,5 - 3044636	70/6	
268	-X1	11	-X1	12	●			UTT B 2,5 - 3044636	70/6	
269	-S19	1	-X1	22	●			UTT B 2,5 - 3044636	70/8	
270	-X1	21	-X1	22	●			UTT B 2,5 - 3044636	70/8	
271	-X1	14	-X1	13	●			UTT B 2,5 - 3044636	70/7	
272	-S12	2	-X1	13	●			UTT B 2,5 - 3044636	70/7	
273	-X1	24	-X1	23	●			UTT B 2,5 - 3044636	70/9	
274	-S20	2	-X1	23	●			UTT B 2,5 - 3044636	70/9	
275	-S12	1	-X1	14	●			UTT B 2,5 - 3044636	70/7	
276	-X1	13	-X1	14	●			UTT B 2,5 - 3044636	70/7	
277	-S20	1	-X1	24				UTT B 2,5 - 3044636	70/9	
278	-X1	23	-X1	24		-S4	11	UTT B 2,5 - 3044636	70/9	
279	-X1	48	-X1	47	●			UTT B 2,5 - 3044636	70/1	
280	-FA	1	-X1	47	●			UTT B 2,5 - 3044636	70/1	

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Revision	0	Product	HVCP EX 45kW Insight			TERMINAL LIST	Drawing no.	Page no.
Status	Available			2183553			1026	
Date of approval	-	Date of created	2019/08/20					
Approval by	-	Author	FRALE					Next page
1025	previous page							

