Ballard Power Systems Europe A/S
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Revision history		
Rev.	**Date.**	**Description**
001	6/5/2024	First Issue
002	9/9/2025	Updated, as build

Document Title:	**BLPH Project - Panel Cabinet Layout: UC30 Coolant Skid Control Cabinet**
Document Number:	K559-2254-CWIWP4202202-E03-003
Revision:	Rev002
Sequence Number:	003
File Name:	K559-2254-CWIWP4202202-E03-003Rev002
Purchaser Job:	K559-2254
Purchase Order:	CWIWP4202202
Code:	E03
Requsition Number:	n/a
Customer:	CrossWind C.V., Rotterdam, The Netherlands

BALLARD™

+UC30

Ballard Power Systems Europe - Technology Solutions

Cabinet: Coolant Skid Control Cabinet
Location: Coolant Skid, Middle

Cabinet Supply:
- Vin = 400VAC, 3P+N+PE
- IKmax = 10kA
- I max = 160A
- IP 55x

Control circuit
- AC 230V
- DC 24V

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& A01

REVISION INFORMATION	
DESCRIPTION	
DATE	
03-Sep-25	

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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Front Page		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 1 / 82

Ballard Power Systems Europe - Technology Solutions, Cabinet Wiring Colors

Standard Basis: EN 61439

Required wire standard compliance:

Required: IEC Wire
Required: UL Recognized
Required: CSA/UL

Wire Numbering:

- Wires inside panels are to be numbered
- Wire number system is perferably "potential oriented with subnumber"
- All wires of the same potential (e.g. DC Common) have the same main number, with sequential subnumber.
- Potential numbers with fewer digits may be leading zero padded (e.g. 19 -> 019)
- Separator between main and subnumber is "."

Example: 019.1 BUWH 0.75mm²

- 019 — Wire potential number
- 1 — Wire sequential subnumber with separator
- BUWH — Wire color code (Dark Blue with White stripe)
- 0.75mm² — Wire dimension

AC Wiring Colors

AC Power Circuit (Generic)	Black (BK)
AC Phase L1	Brown (BN)
AC Phase L2	Black (BK)
AC Phase L3	Grey (GY)
AC Neutral	Light Blue (BU)
Externally supplied circuit	Orange (OG)

DC Wiring Colors

DC Power Circuit	Black (BK)
DC Control Voltage (24V)	Dark Blue (BU)
DC Control Voltage Refence (0V)	Dark Blue with White Stripe (BUWH)
Signal Wire (DI, DO)	White (WH)
Signal Wire (AI, AO)	Violet (VT)
Externally supplied circuit	Orange (OG)

PE Wiring Colors

Protective Earth (PE)	Green/Yellow (GNYE)

Conductor Colour Identification

IEC 60757:1983 Designation	Description
BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Gray
WH	White
PK	Pink
GD	Gold
TQ	Turquoise
SR	Silver
GNYE	Green/Yellow
SH	Shield

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=	++ | + UC30 | & A01

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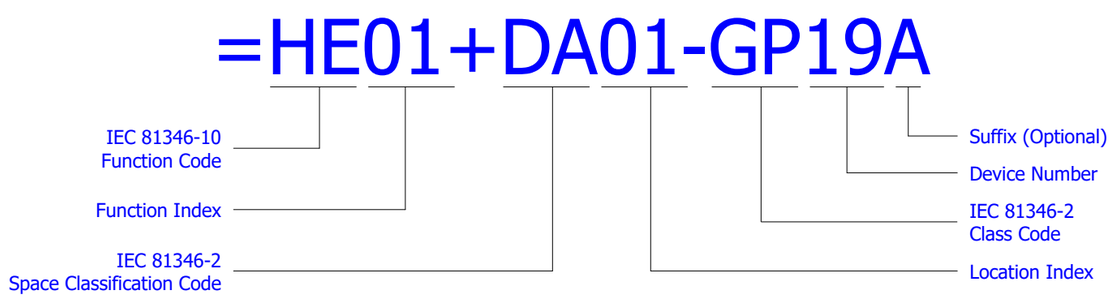
DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Standard Wire Colors		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 2 / 82

FRM5103656/0B

Ballard Power Systems Europe - Technology Solutions Device Tag Process

A Ballard Device Tagname consists of three parts:
- A function designation (=)
  - According to IEC81346-10, Table B.1 and B2.
  - Always two letters followed by two digits
- A location designation (+)
  - According to IEC81346-2, Table 4
  - Always two letters followed by two digits
- A class code (-)
  - According to IEC81346-2, Table 2
  - Always two letters followed by two or three digits plus optional suffix

Sample fully qualified Device Tag (DT) for a Coolant Pump



IEC81346-10 Function Examples

IEC 81346-10 Table B.1 and B.2 provide a class definition system, which provides a two letter code for the functional description
Table B.1 is used for power supply systems and table B.2 for other systems

IEC 81346-10 Table B.1 / B.2	Function Codes (Example)
=AA	Structural System, Load support (Frame)
=BA	Transporting Electrical Energy (Power Converters)
=HA	Supply System, Gaseous Matter (Gas Piping)
=HE	Supply System, Heating/Cooling (Radiator)
=JA	Distribution System, Gaseous Matter (Gas Handling Unit)
=JB	Distribution System, Liquid Matter (Fluid Drain)
=LA	Control System, Process (PLC, SCADA)
=LB	Control System, Safety (Safety PLC)
=QA	Storage System, Gaseous Matter (Gas Storage)
=RE	Energy Conversion System, Chemical to Electricity (Fuel cells, Batteries)

IEC81346-2 Space Classification

IEC 81346-2 Table 4 provide a classification scheme for spaces, which provides a two and three letter code for the space (location) classification.
Class code "1" and "1" is used for the location scheme

IEC 81346-2 Table 4	Location Codes (Example)
+GB	Space for power generation, Chemical (Fuel Cells)
+DA	Space for active technical equipment
+UC	Space for electrical equipment (Electrical Cabinet)

IEC81346-2 Class Code

IEC 81346-2 Class Codes is a scheme for defined objects for reference designations according to their inherent function

IEC 81346-2 Table 2	Class Codes (Example)
-BA	Sensing, electrical potential (Voltage Transducer)
-BC	Sensing, electrical current (Current Transducer)
-BP	Sensing, pressure (Pressure Transducer)
-BT	Sensing, temperature (Temperature Transducer)
-EA	Emitting, light (Light Fixture)
-FC	Protecting, overcurrent (Fuse, MCCB)
-GB	Generating, Chemical Reaction (Fuel Cell)
-GP	Generating, Liquid Flow (Pump)
-GQ	Generating, Gas Flow (Van, Ventilator)
-KE	Processing, Electrical signals (PLC)
-KF	Processing, Information (Network Switch)
-MA	Driving, Torque (AC Motor)
-QA	Controlling, Electric Current (Contactor, Motor Starter)
-QB	Controlling, Electric Separation (Disconnector)
-QM	Controlling, Fluid On/Off (Valve)
-QN	Controlling, Fluid Regulation (Damper, Gas Control Valve)
-WD	Guiding, Low Voltage Electric Energy (AC or DC power Cable)
-WE	Guiding, Reference Potential (Grounding Wire/Cable)
-WG	Guiding, Electric Signals (Control, Network Cable)

Reference Item Number	Ballard Part # TBD
EPLAN Project Name	601456B - Shell Baseload Power Hub
EPLAN Revision	11
EPLAN Project Pages	629
= ++ + UC30 & A01	

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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Tagging Standard		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 3 / 82

FRM5103656/0B

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Ballard Power Systems Europe - Technology Solutions

Controller IO Overview Documentation

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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SHEET TYPE/DESC	Controller IO Overview Introduction		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 7 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30-KE04
DEIF AMC300
Controller Extension Rack

-Slot1
DEIF PSM3.2
Power Supply Module 3.2

PSM3.2

	PE PE		Frame Ground	
	1 12-24V		Supply +	
	2 0V		Supply COM	
	3 R1 COM		Status OK Relay COM	
A52.4	4 DO1	DO1	Status OK Relay	
	5 R2 COM		Relay 2 COM	
A52.5	6 DO2	DO2	Relay 1 Out	
	7 R3 COM		Relay 3 COM	
A52.6	8 DO3	DO3	Relay 3 Out	

EtherCAT Follower Ring Topology — EtherCAT +&C01/6.4:E X03 — Ethernet-1 IN

EtherCAT Follower Ring Topology — EtherCAT +&C01/6.4:E X03 — Ethernet-2 OUT

Bus Follower
Multi-line 300

-Slot2
ACM3.1
Alternating Current Module 3.1

ACM3.1

1 L1			
2 L2			
3 L3			
4 N		Source - L1	
		Source - L2	
		Source - L3	
		Source - N	
5 L1	BA20-UC30-L1	Coolant Skid Supply Voltage - L1	
6 L2	BA20-UC30-L2	Coolant Skid Supply Voltage - L2	
7 L3	BA20-UC30-L3	Coolant Skid Supply Voltage - L3	
8 N	BA20-UC30-N	Coolant Skid Supply Voltage - N	
9 L1-S1	=BA20+UC30-BC01	Current transformer L1 - S1	
10 L1-S2	CH1-S2	Channel 1 - S2	
11 L2-S1	=BA20+UC30-BC02	Current transformer L2 - S1	
12 L2-S2	CH2-S2	Channel 2 - S2	
13 L3-S1	=BA20+UC30-BC03	Current transformer L3 - S1	
14 L3-S2	CH3-S2	Channel 3 - S2	
15 4-S1	CH4-S1	Channel 4 - S1	
16 4-S2	CH4-S2	Channel 4 - S2	

-Slot3
&C03/25.4
&C03/29.4
IOM3.2
IO Module 3.2

IOM3.2

1 R1 COM			Relay 1 In
2 DO1			Relay 1 out
3 R2 COM			Relay 2 COM
4 DO2			Relay 2 Out
5 R3 COM			Relay 3 In
6 DO3			Relay 3 Out
7 R4 COM			Relay 4 In
8 DO4			Relay 4 Out
9 AO1			Spare
10 AO1 COM			AO1 COM
11 AO2			Spare
12 AO2 COM			AO2 COM
13 AO3			Spare
14 AO3 COM			AO3 COM
15 AO4			Spare
16 AO4 COM			AO4 COM
17 DI1		IAH_FC4X	Fuse trip indication H2 Heat
18 DI2			Spare
19 DI3			Spare
20 DI4			Spare
21 DI1-4 COM			DI1-4 COM
22 AI1			HT1 Coolant Flow
23 AI1 COM			AI1 COM
24 AI2	&C03/25.4	HE01_BL01_LT	HT1 Level header tank
25 AI2 COM	&C03/25.4		AI2 COM
26 AI3			HT2 Coolant Flow
27 AI3 COM			AI3 COM
28 AI4	&C03/29.4	HE02_BL01_LT	HT2 Header Tank Level
29 AI4 COM	&C03/29.4		AI4 COM

Reference Item Number	Ballard Part # TBD		
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EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C02

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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Container Controller, Coolant Rack 1/4		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 8 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30-KE04

DEIF AMC300
Controller Extension Rack

-Slot4

&C03/28.3
&C03/32.3
IOM3.2
IO Module 3.2

IOM3.2

1	R1 COM			Relay 1 In	
2	DO1			Spare	
3	R2 COM			Relay 2 COM	
4	DO2			Spare	
5	R3 COM			Relay 3 In	
6	DO3			Relay 3 Out	
7	R4 COM			Relay 4 In	
8	DO4			Relay 4 Out	
9	AO1	&C03/28.3	HE01_QN01_SP	HT1 Bypass Valve Setpoint	
10	AO1 COM	&C03/28.3		AO1 COM	
11	AO2	&C03/28.6	HE01_QN02_SP	HT1 Cooler Valve Setpoint	
12	AO2 COM	&C03/28.6		AO2 COM	
13	AO3	&C03/32.3	HE02_QN01_SP	HT2 Bypass Valve Setpoint	
14	AO3 COM	&C03/32.3		AO3 COM	
15	AO4	&C03/32.6	HE02_QN02_SP	HT2 Cooler Valve Setpoint	
16	AO4 COM	&C03/32.6		AO4 COM	
17	DI1			Spare	
18	DI2			Spare	
19	DI3			Spare	
20	DI4			Spare	
21	DI1-4 COM			DI1-4 COM	
22	AI1	&C03/28.4	HE01_QN01_FB	HT1 Bypass Valve Feedback	
23	AI1 COM	&C03/28.4		AI1 COM	
24	AI2	&C03/28.7	HE01_QN02_FB	HT1 Cooler Valve Feedback	
25	AI2 COM	&C03/28.8		AI2 COM	
26	AI3	&C03/32.4	HE02_QN01_FB	HT2 Bypass Valve Feedback	
27	AI3 COM	&C03/32.4		AI3 COM	
28	AI4	&C03/32.7	HE02_QN02_FB	HT2 Cooler Valve Feedback	
29	AI4 COM	&C03/32.8		AI4 COM	

-Slot5

&C03/25.3
&C03/25.1
&C03/25.6
&C03/29.3
&C03/29.1
&C03/29.6
&C03/33.4
&C03/34.1
IOM3.3
IO Module 3.3

IOM3.3

1	AI1			Spare	
2	AI2	&C03/25.3	HE01_BF01_TT	Main HT Coolant Return Temperature	
3	AI3	&C03/25.3		Spare	
4	AI4			Spare	
5	AI5	&C03/25.1	HE01_BF01_FT	HT1 Coolant Flow	
6	AI6			Spare	
7	AI7	&C03/25.6	HE01_BT05_TT	HT1 Cooling Tower Return Temperature	
8	AI8	&C03/25.6		Spare	
9	AI9	&C03/25.6		Spare	
10	AI10	&C03/25.7	HE01_BT06_TT	HT1 Pump Inlet Temperature	
11	AI11	&C03/25.7		Spare	
12	AI12	&C03/25.8		Spare	
13	AI13			Spare	
14	AI14	&C03/29.3	HE02_BF01_TT	Main HT Coolant Return Temperature	
15	AI15			Spare	
16	AI16			Spare	
17	AI17	&C03/29.1	HE02_BF01_FT	HT2 Coolant Flow	
18	AI18			Spare	
19	AI19	&C03/29.6	HE02_BT05_TT	HT2 Cooling Tower Return Temperature	
20	AI20			Spare	
21	AI21			Spare	
22	AI22	&C03/29.7	HE02_BT06_TT	HT2 Pump Inlet Temperature	
23	AI23			Spare	
24	AI24			Spare	
25	AI25	&C03/33.4	HE03_BL01_PT	LT Coolant System Header Tank Level	
26	AI26			Spare	
27	AI27	&C03/33.4		Spare	
28	AI28	&C03/34.1	JA01_BT04_TT	Exterior Temperature	
29	AI29	&C03/34.1		Spare	
30	AI30	&C03/34.2		Spare	

-Slot6

IOM3.4
IO Module 3.4

IOM3.4

1	12-24V			Supply +
2	DO01	HA01_EA01		Hydrogen Heater 1
3	DO02	HA01_EA02		Hydrogen Heater 2
4	DO03	DO03		Digital Out 03
5	DO04	DO04		Digital Out 04
6	DO05	DO05		Digital Out 05
7	DO06	DO06		Digital Out 06
8	DO07	DO07		Digital Out 07
9	DO08	DO08		Digital Out 08
10	DO09	DO09		Digital Out 09
11	DO10	DO10		Digital Out 10
12	DO11	DO11		Digital Out 11
13	DO12	DO12		Digital Out 12
14	COM			Supply COM
15	DI03	IAH_FC3X		Fuse Trip Indication HT2
16	DI02	IAH_FC20X		Fuse Trip Indication 24V
17	DI03	IAH_FC2X		Fuse Trip Indication HT1
18	DI04	IAH_FC1X		Fuse Trip Indication LT
19	DI05	JT_RB30_BAT		UPS Battery Operation
20	DI06	JT_RB30_RDY		UPS Battery Ready
21	DI07	JT_RB30_SOH		UPS Battery Low SOH
22	DI08	HA01_BL01		Hydrogen Heater Level Swich
23	COM			Supply COM
24	DI09	DI09		Digital In 09
25	DI10	DI10		Digital In 10
26	DI11	DI11		Digital In 11
27	DI12	DI12		Digital In 12
28	DI13	DI13		Digital In 13
29	DI14	DI14		Digital In 14
30	DI15	DI15		Digital In 15
31	DI16	DI16		Digital In 16
32	COM			Supply COM

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SHEET TYPE/DESC	Container Controller, Coolant Rack 2/4		
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0	1	2	3	4	5	6	7	8

=LA01+UC30-KE05
DEIF AMC300
Controller Extension Rack

-Slot1
DEIF PSM3.2
Power Supply
Module 3.2

PSM3.2

	PE PE			Frame Ground
	1 12-24V			Supply +
	2 0V			Supply COM
	3 R1 COM			Status OK Relay COM
A52.4	4 DO1	DO1		Status OK Relay
	5 R2 COM			Relay 2 COM
A52.5	6 DO2	DO2		Relay 1 Out
	7 R3 COM			Relay 3 COM
A52.6	8 DO3	DO3		Relay 3 Out

EtherCAT Follower Ring Topology — EtherCAT +&C01/6.5:E X03 — Ethernet-1 IN

EtherCAT Follower Ring Topology — EtherCAT +&C01/6.6:E X03 — Ethernet-2 OUT

Bus Slave
Multi-line 300

-Slot2
&C03/45.4
&C03/44.4
&C03/44.4
IOM3.3
IO Module 3.3

IOM3.3

1	AI1			Spare
2	AI2	&C03/45.4	=DA01+DA02+BP01	Hydrogen Inlet Pressure
3	AI3			Spare
4	AI4	&C03/44.4	HE01_DA02_BT01	Hydrogen heater temperature
5	AI5	&C03/44.4		Spare
6	AI6			Spare
7	AI7			Spare
8	AI3			Spare
9	AI9			Spare
10	AI10			Spare
11	AI11			Spare
12	AI12			Spare
13	AI13			Spare
14	AI14			Spare
15	AI15			Spare
16	AI16			Spare
17	AI17			Spare
18	AI18			Spare
19	AI19			Spare
20	AI20			Spare
21	AI21			Spare
22	AI22			Spare
23	AI23			Spare
24	AI24			Spare
25	AI25			Spare
26	AI26			Spare
27	AI27			Spare
28	AI28			Spare
29	AI29			Spare
30	AI30			Spare

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=LA01+UC40-KE04
DEIF AMC300
Controller Extension Rack

Reserved

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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Container Controller, Coolant Rack 4/4		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 11 / 82

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Ballard Power Systems Europe - Technology Solutions

Multiline Documentation

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

REVISION INFORMATION
DESCRIPTION
DATE
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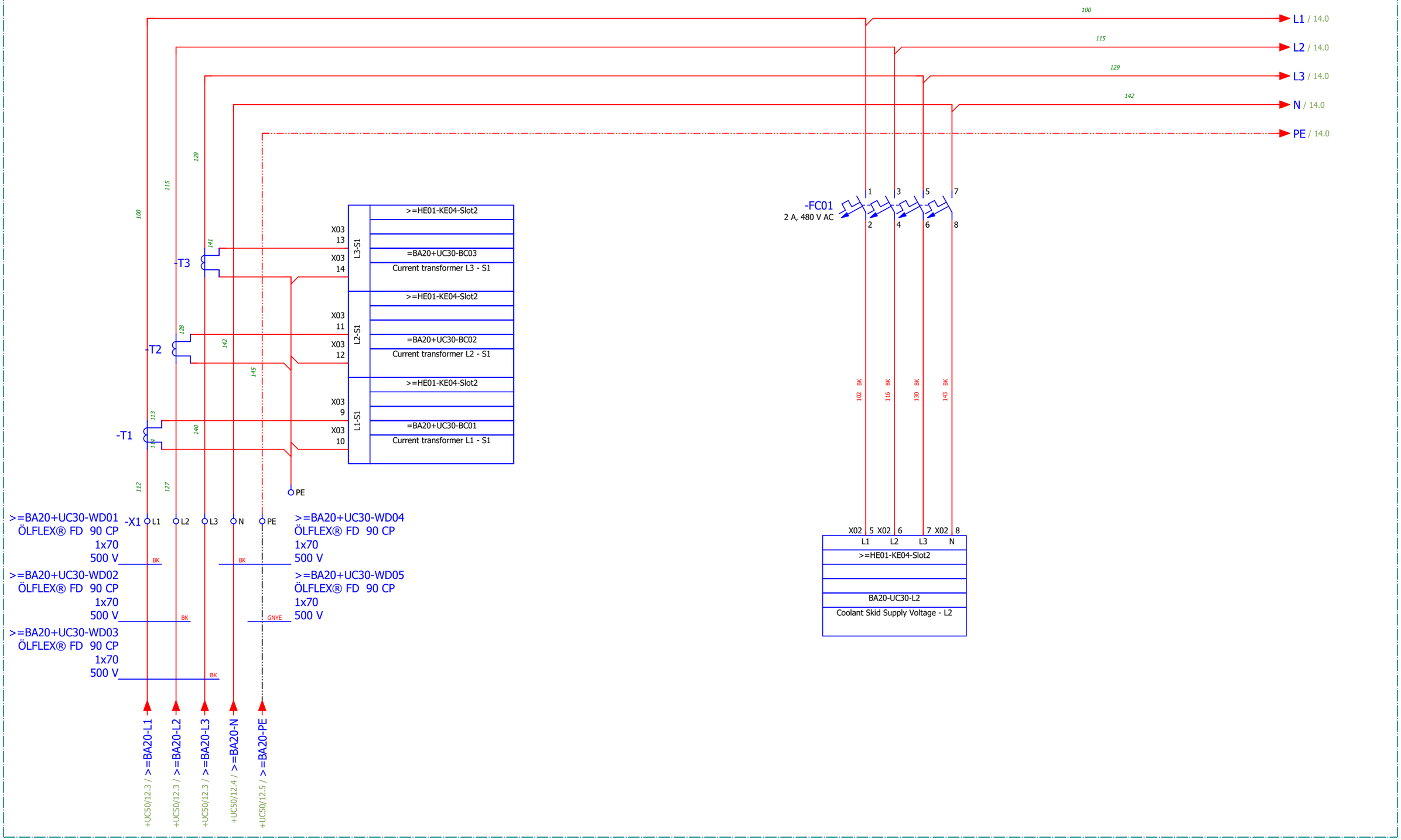
DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Multiline Documentation Intro		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 12 / 82

FRM5103656/0B

0	1	2	3	4	5	6	7	8

=LA01+UC30

Power conversion BOP Cooling skid cabinet



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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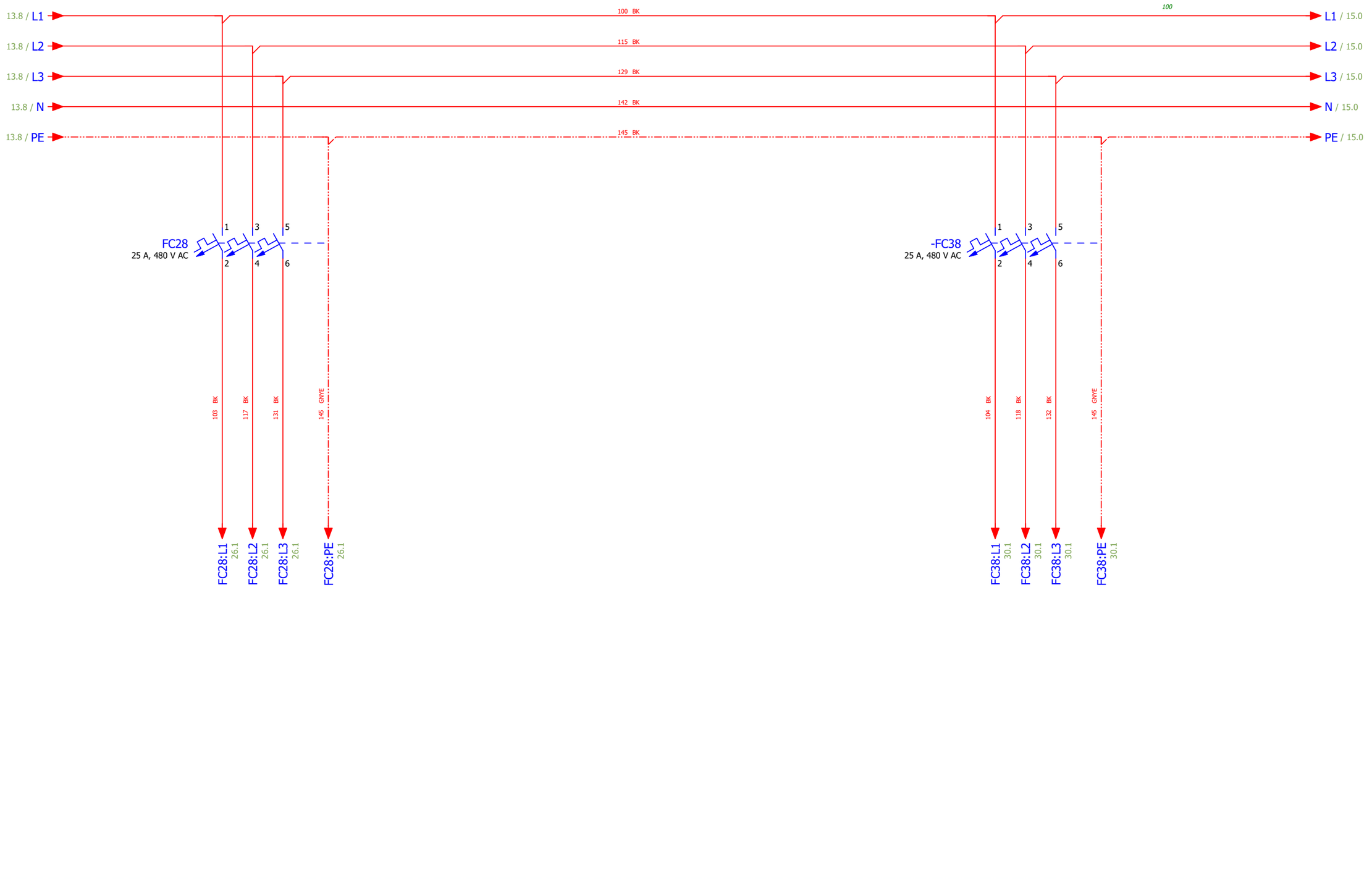
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Control Cabinet Supply		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 13 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

Power conversion BOP Cooling skid cabinet



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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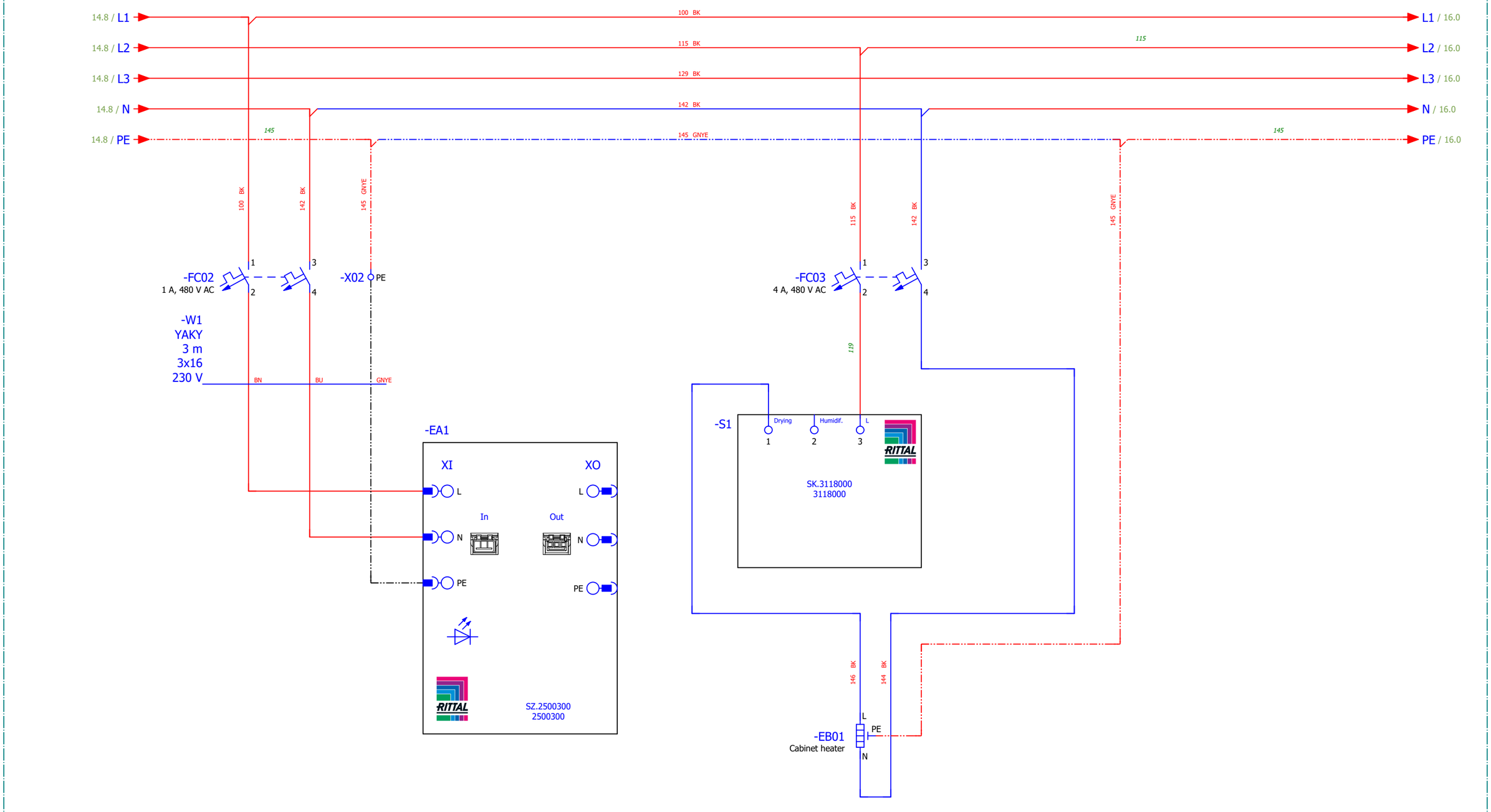
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT pump supply		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 14 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

Power conversion BOP Cooling skid cabinet



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Cabinet light and heater		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 15 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

15.8 / L1 → 100 → L1 / 35.0
15.8 / L2 → 115 → L2 / 35.0
15.8 / L3 → 129 → L3 / 35.0
15.8 / N → 46 → N /
15.8 / PE → 145 → PE / 35.0

-FC100
6 A
1 3 5
2 4 6
105 BK
120 BK
133 BK
145 GNYE

-TB30
24V, 20A
PSU
L1 L2 L3 PE
3AC 380-480V

PULS
Power Supply
QT20.241
24-28V
DC-OK
Overload

DC 24V, 20A, 480W/720W
Out + Out +' Out - Out -' 13 14
DC-OK

148
149
149
PE

-RB30
24V, 20A
UPS Module
In + In - In -'
DC 24V
Bat. + Bat. -
11 12 13
PT100 Temp. Sensor
PT100 Temp. Sensor
Battery Center Tap

PULS
DC-UPS Control Unit, 24V, 20A
UB20.21

DC 24V 20A
Out + Out -

Ready 1
Ready 2
Buffering 3
Buffering 4
Repl. Bat. 5
Repl. Bat. 6
Inhibit + 7
Inhibit - 8

153
153
153
153
19.5 / -X202:4B

-RB30+
18.0
-RB30-
18.1

152 → RB30:Bat+ / 17.0
154 → RB30:Bat- / 17.0
RB30:Temp_11 / 17.0
RB30:Temp_12 / 17.0

UPS Battery Ready
JT_RB30_RDY
>=HE01-KE04-Slot6
DI06
X02 20

UPS Battery Operation
JT_RB30_BAT
DI05
19

UPS Battery Low SOH
JT_RB30_SOH
DI07
21

155
157
158

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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DRAWING	K559-2254-CWIWP4202202-E03-003		REVISION	11	
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet				
SHEET TYPE/DESC	40ft Coolant skid - 24 VDC Supply				
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL	16 / 82	

0	1	2	3	4	5	6	7	8

=LA01+UC30

16.7 / RB30:Bat+

16.7 / RB30:Bat-

16.7 / RB30:Temp_11

16.7 / RB30:Temp_12

-CA30

PULS

Battery Module, 24V, 12Ah
UZK24.121

154

152

DC 24V
Out + Out -

PT100 Temp. Sensor 11

PT100 Temp. Sensor 12

Battery Center Tap 13

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
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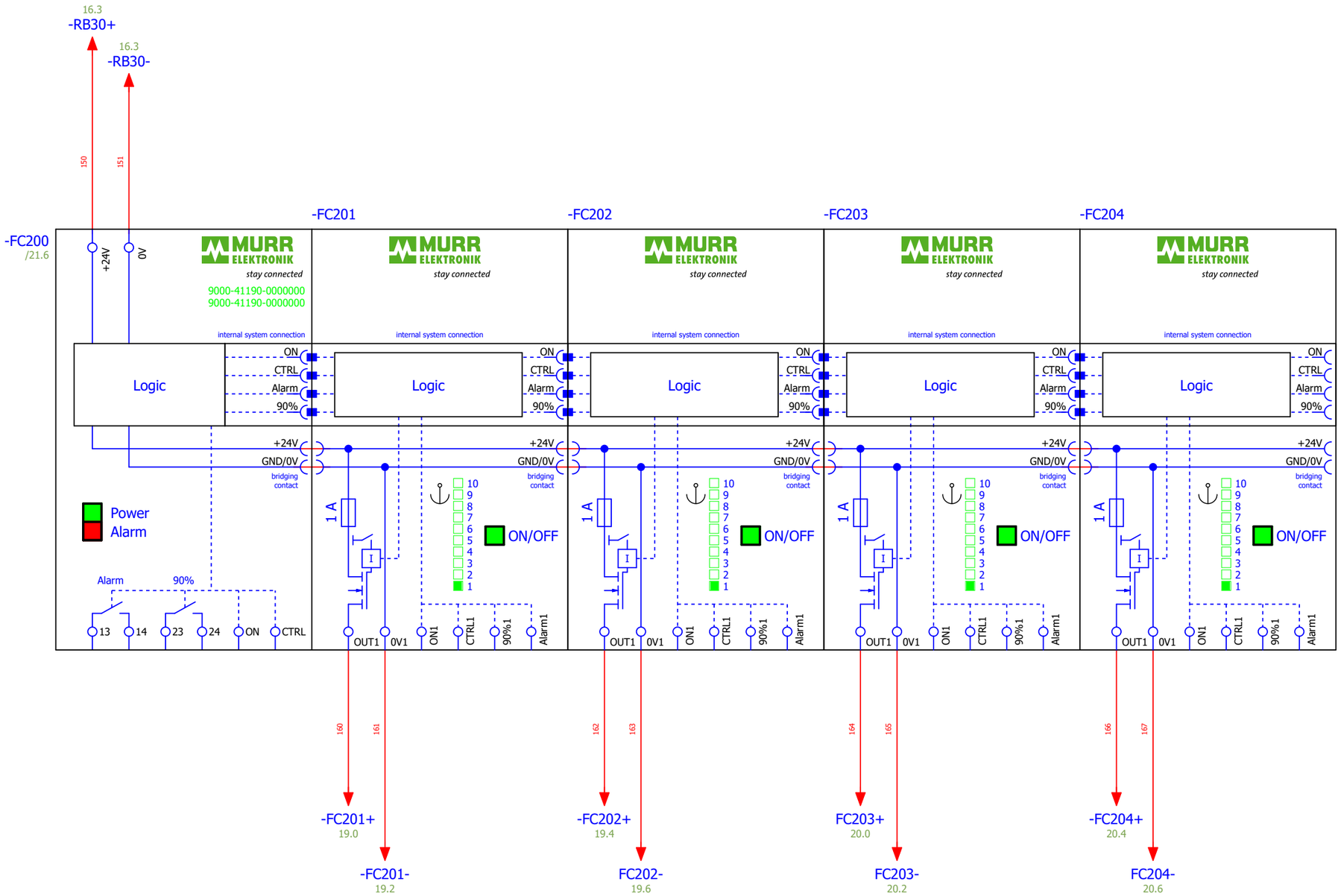
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant skid - 24 VDC Supply - Back up battery		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 17 / 82

FRM5103656/0B

0	1	2	3	4	5	6	7	8

=LA01+UC30



Reference Item Number	Ballard Part # TBD		
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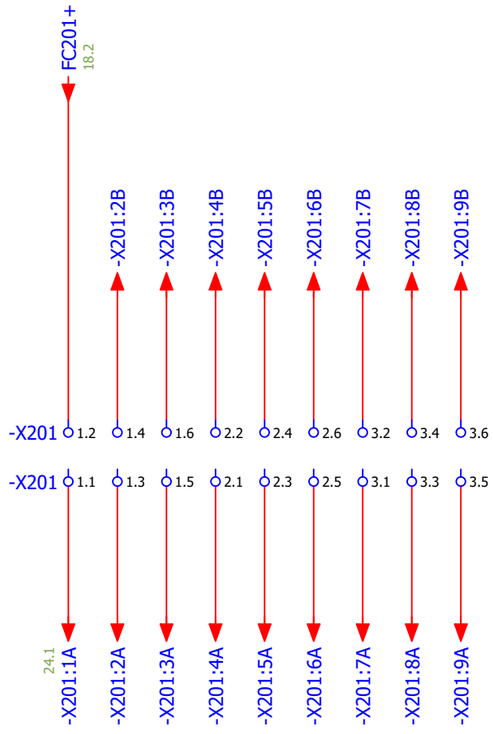
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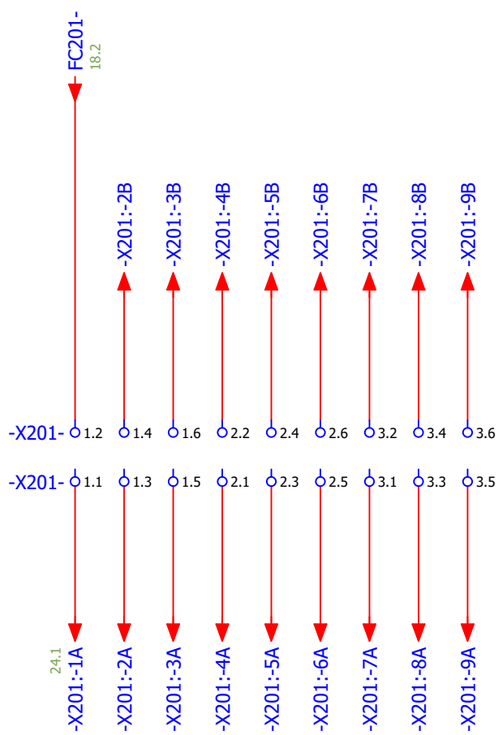
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant skid - 24 VDC Supply - fuses		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 18 / 82

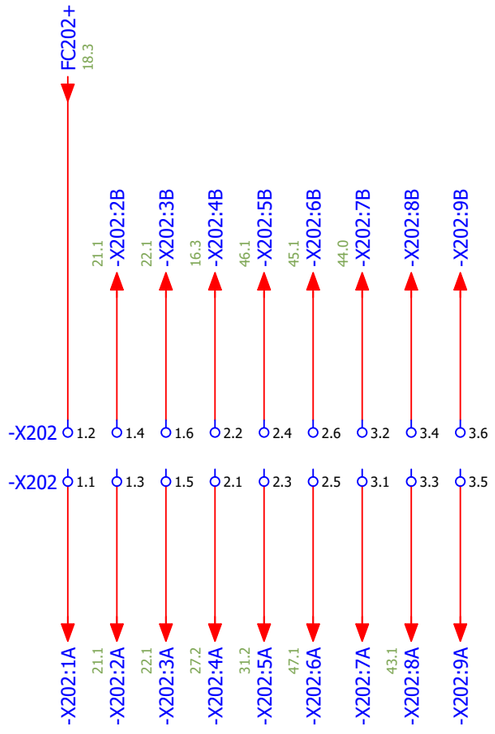
=LA01+UC30

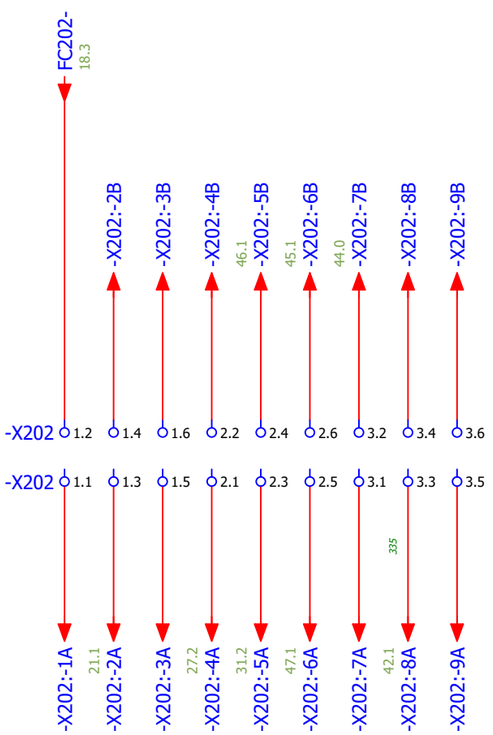
Safety





Internal 24VDC Supply





Reference Item Number	Ballard Part # TBD		
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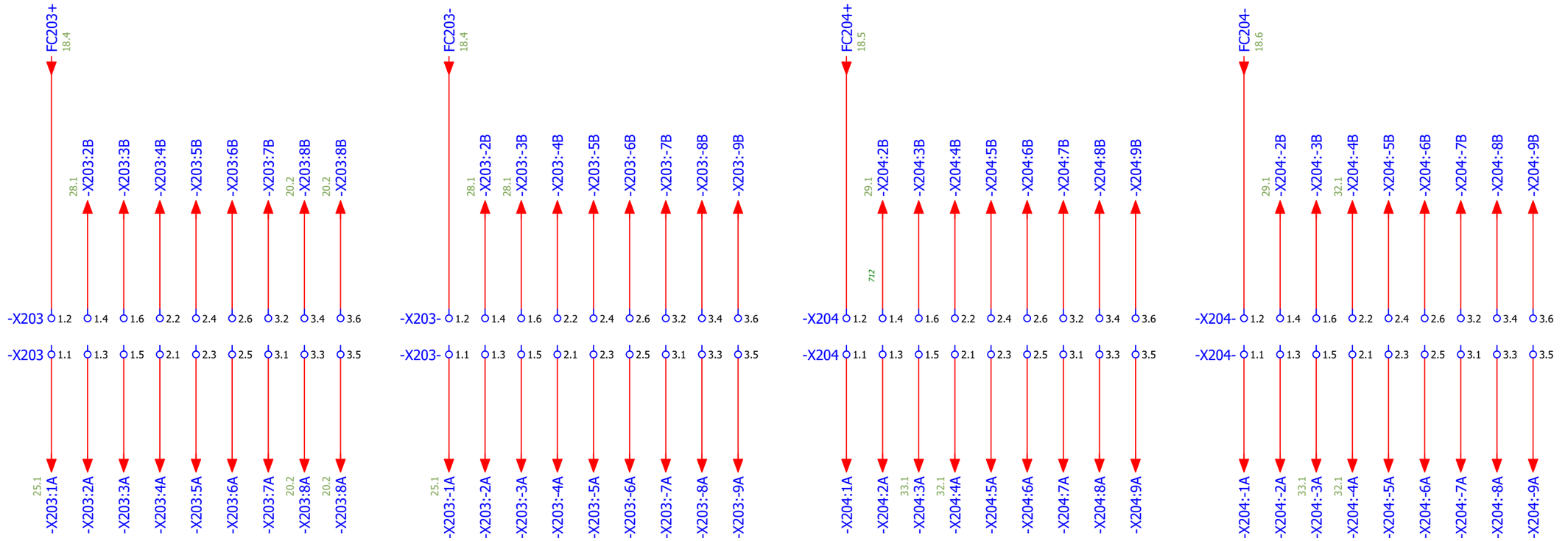
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant skid - 24 VDC Supply - Distribution		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 19 / 82

=LA01+UC30

External 24VDC Supply

External 24VDC Supply



Reference Item Number	Ballard Part # TBD		
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EPLAN Revision	11		
EPLAN Project Pages	629		
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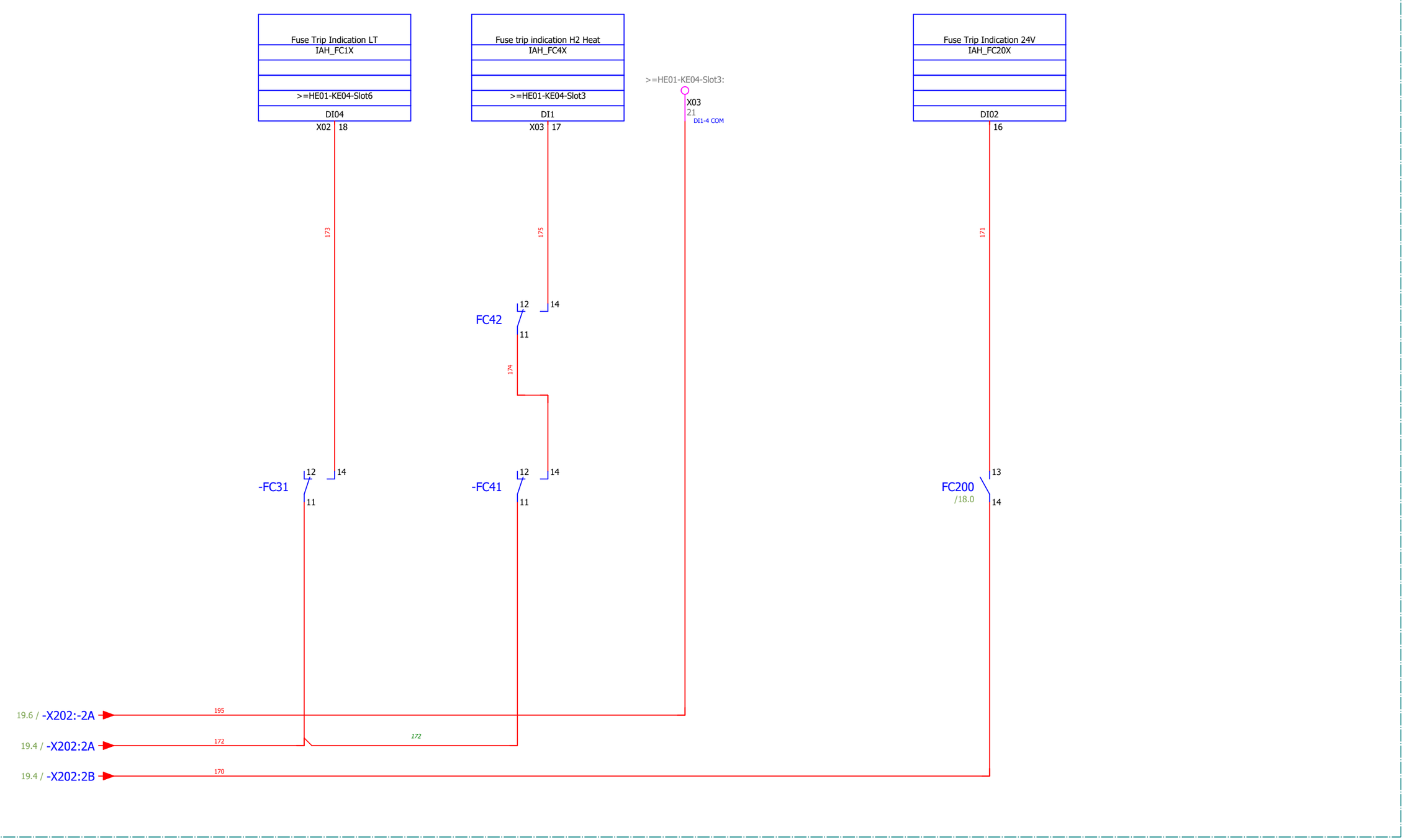
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant skid - 24 VDC Supply - Distribution		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 20 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

Power conversion BOP Cooling skid cabinet



Reference Item Number	Ballard Part # TBD		
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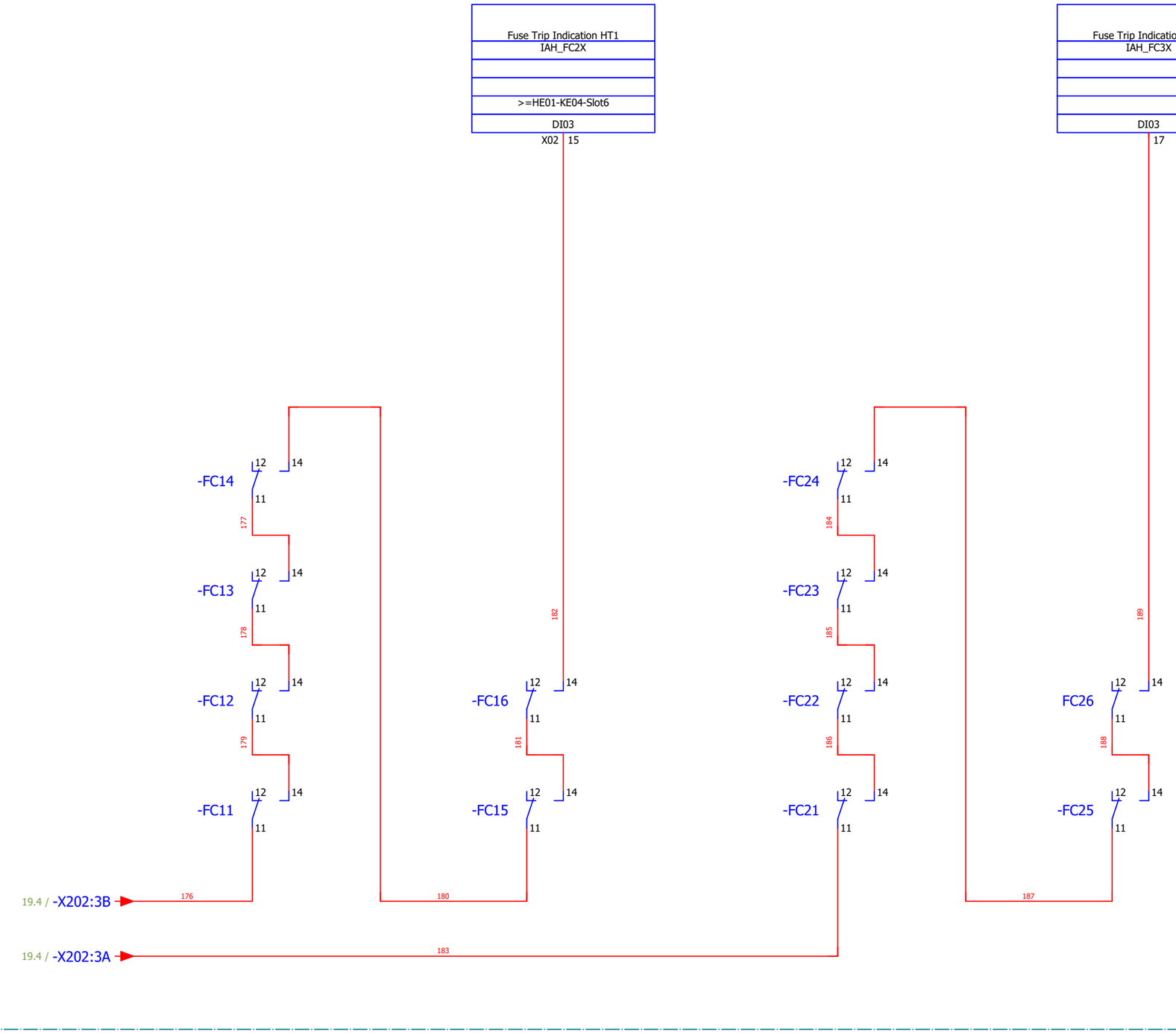
DRAWING	K559-2254-CWIWP4202202-E03-003		REVISION	11	
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet				
SHEET TYPE/DESC	40ft Coolant skid - MCCB Trip Indication 24V				
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL	21 / 82	

FRM5103656/0B

0	1	2	3	4	5	6	7	8

=LA01+UC30

Power conversion BOP Cooling skid cabinet



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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant skid - MCCB Trip Indication HT1+2		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 22 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
Coolant System Power Distribution, Container #1 Outside

=LB02+DA04
Coolant System Power Distribution, Container #1 Outside

719
721
720
722

-SG01
Cabinet ESTOP
11 21
12 22

-S1
11 21
12 22

-WG01
Emergency stop
1 2 3 4

719 → KE12:X1 / 24.1
723 → KE12:3 / 24.1
724 → KE12:4 / 24.1
725 → KE12:7 / 24.1

-X100 X1 1 2 3 4 5 6 7 3' 4'

KF10 FB Forward
ESD CH1 Forward
ESD CH2 Forward
KF10 FB Return
KF10 Coil
ESD CH1 Return
ESD CH2 Return
KF10 DCCOM

-WG01
ÖLFLEX® CLASSIC 110 CH
4x1
300/500 V
Coolant Skid ESTOP

-WG02
ÖLFLEX® CLASSIC 110 CH
18x0,75
300/500 V
Coolant Skid Safety Relay

-WG01
+UC20/59.0

-WG02
+UC20/59.0

Reference Item Number	Ballard Part # TBD
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Safety circuit		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 23 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

Coolant System Power Distribution, Container #1 Outside

23.5 / KE12:X1 → 719

23.5 / KE12:4 → 724

726 → KF10:23 / 27.5

727 → KF10:33 / 27.5

KF10

PHOENIX CONTACT

PSR-MC82-5NO-1NC-1DO-24DC-SC

24V, A1, 11, 23, 33, 43, 53, 63

A1, A2

A1, A2

11, 12, 23, 24, 33, 34, 43, 44, 53, 54, 63, 64

M1, A2, 12, 24, 34, 44, 54, 64

19.0 / -X201:1A → 168

19.2 / -X201:-1A → 169

23.5 / KE12:7 → 725

23.5 / KE12:3 → 723

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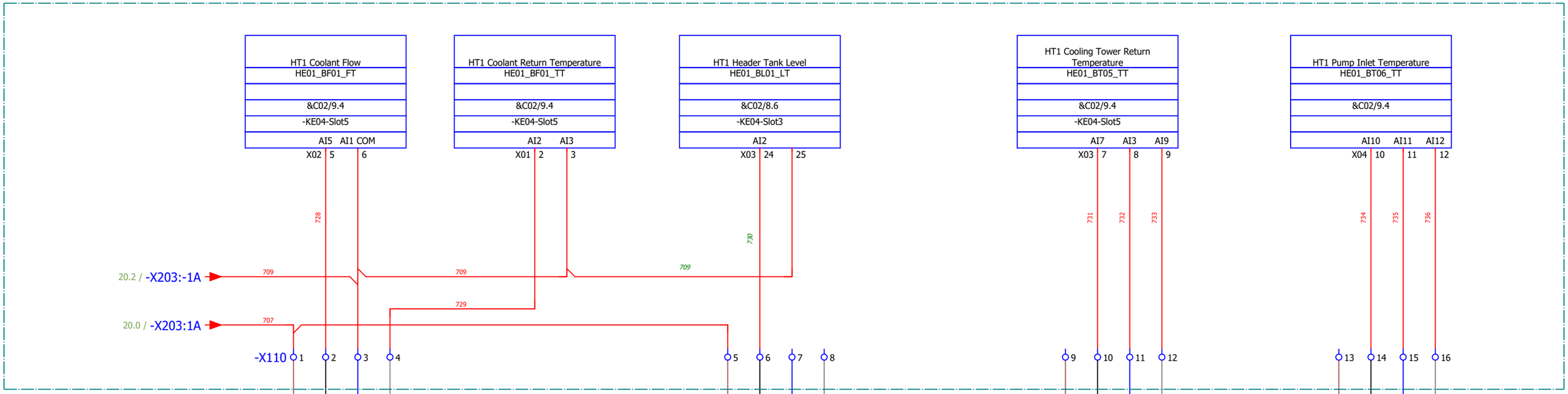
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Safety circuit		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 24 / 82

0	1	2	3	4	5	6	7	8

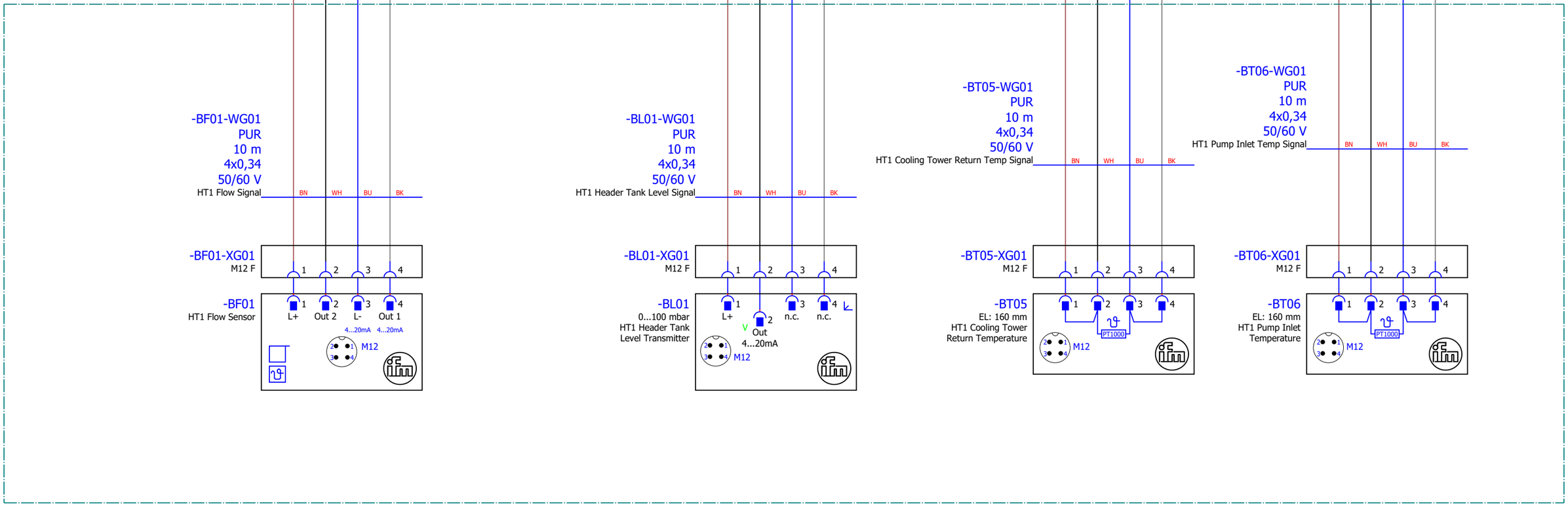
=LA01+UC30

Coolant System Power Distribution, Container #1 Outside



=HE01+DA02

HT#1 Coolant Sensor/Actuator, Coolant Skid



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DATE
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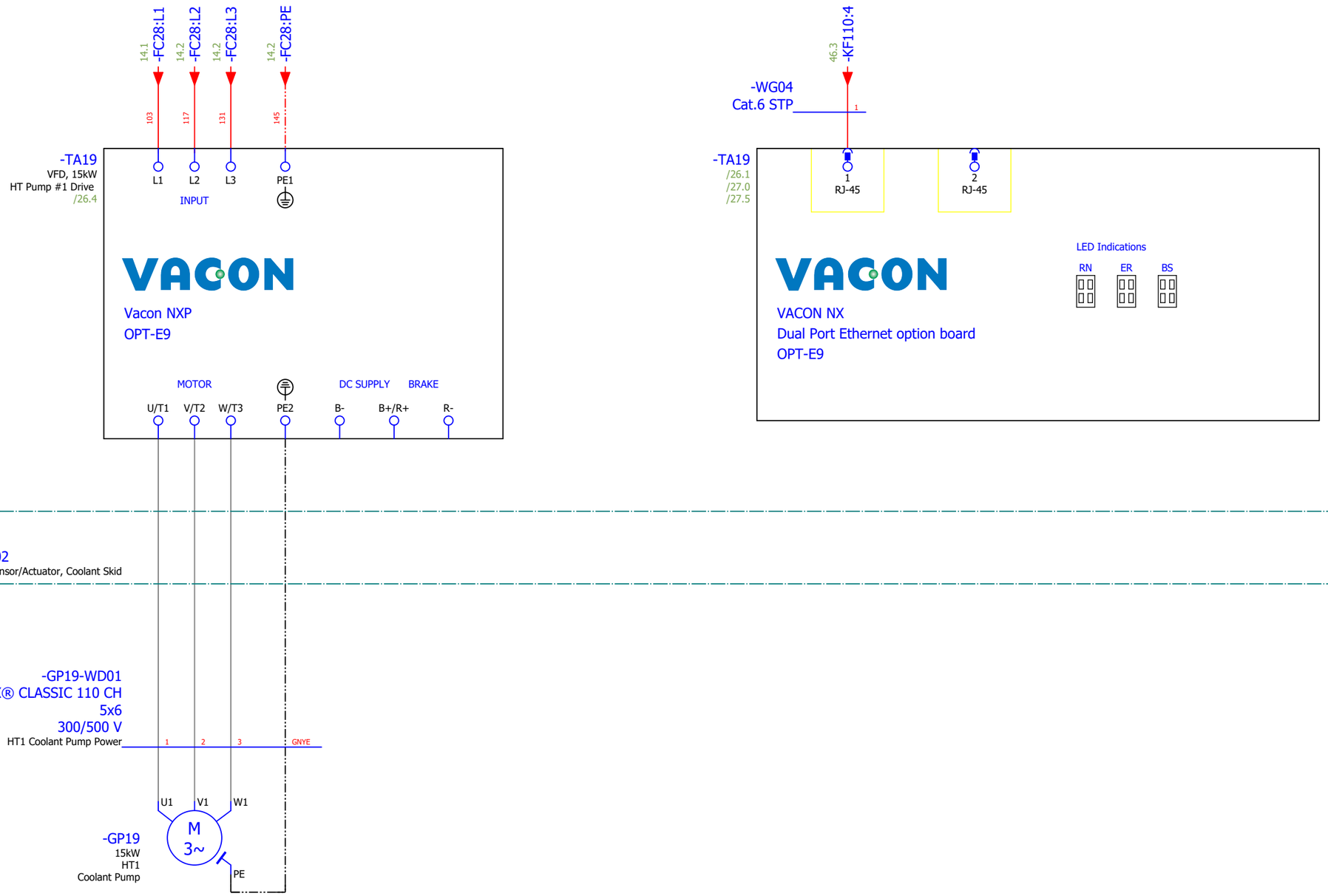
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT #1 Sensors		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 25 / 82

=LA01+UC30
Coolant System Power Distribution, Container #1 Outside



=HE01+DA02
HT#1 Coolant Sensor/Actuator, Coolant Skid

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

REVISION INFORMATION
DESCRIPTION
DATE
03-Sep-25

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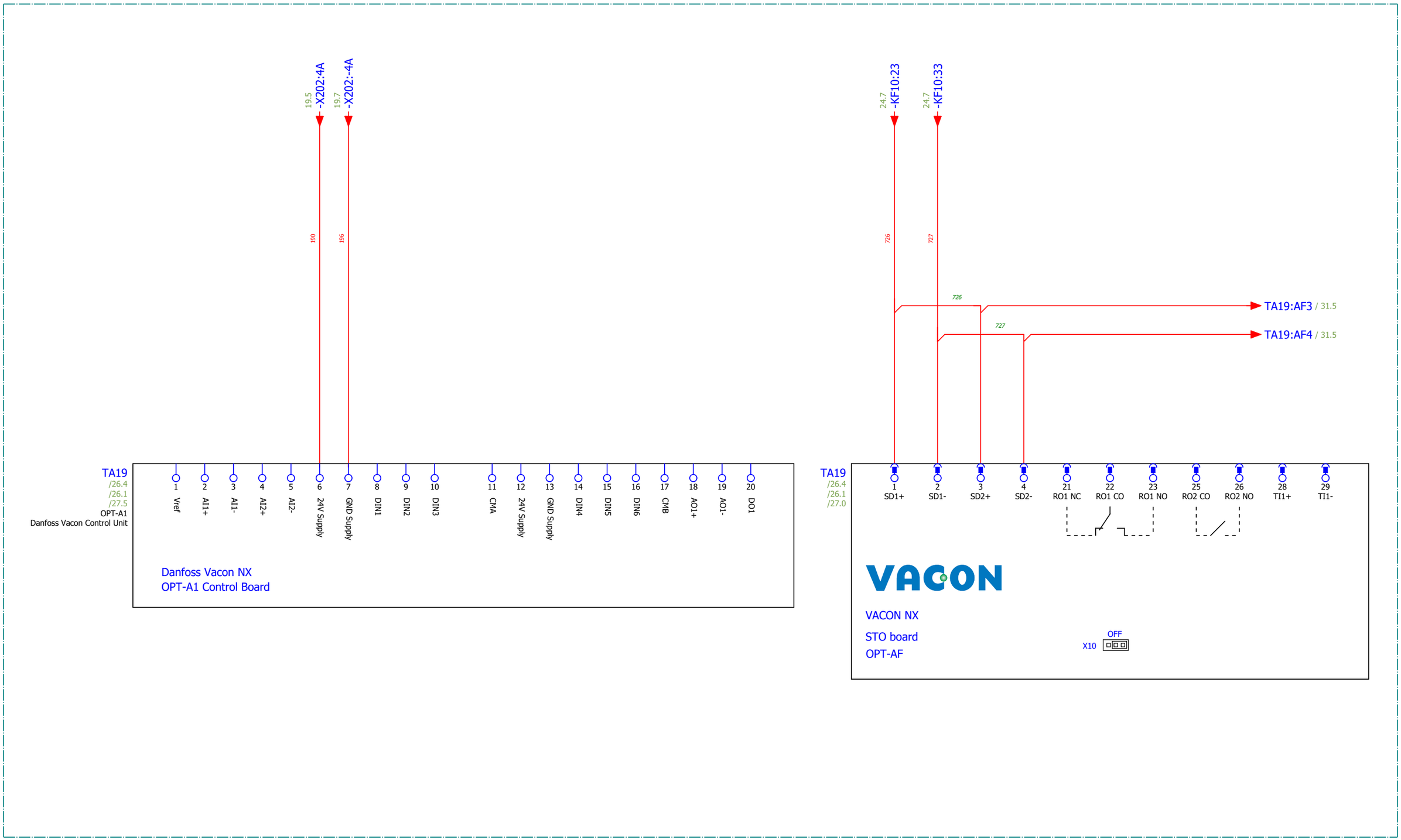
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT #1 Coolant Pump		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 26 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

Coolant System Power Distribution, Container #1 Outside



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

REVISION INFORMATION
DESCRIPTION
DATE
03-Sep-25

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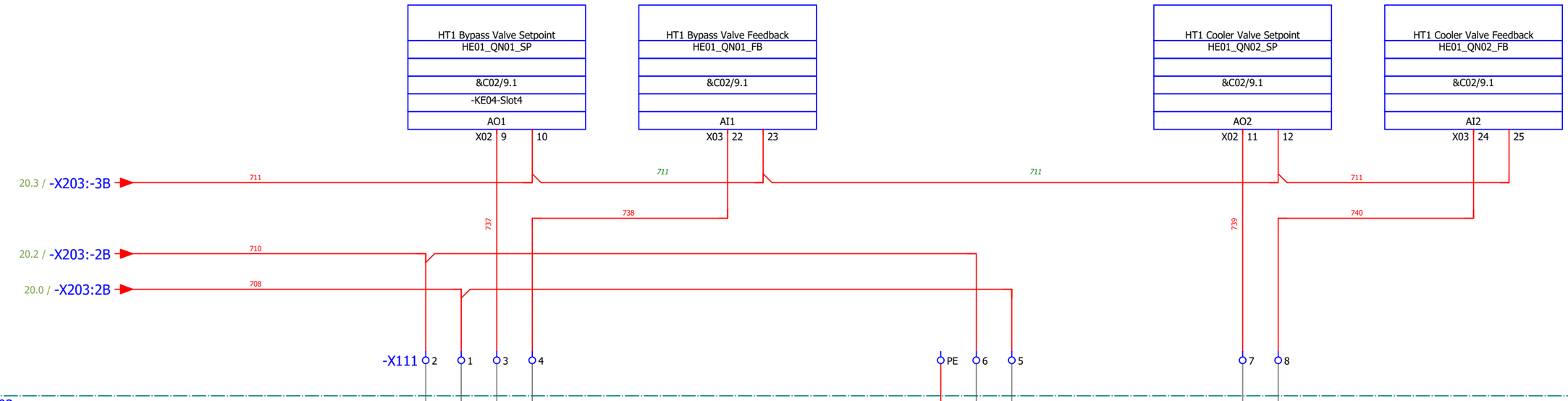
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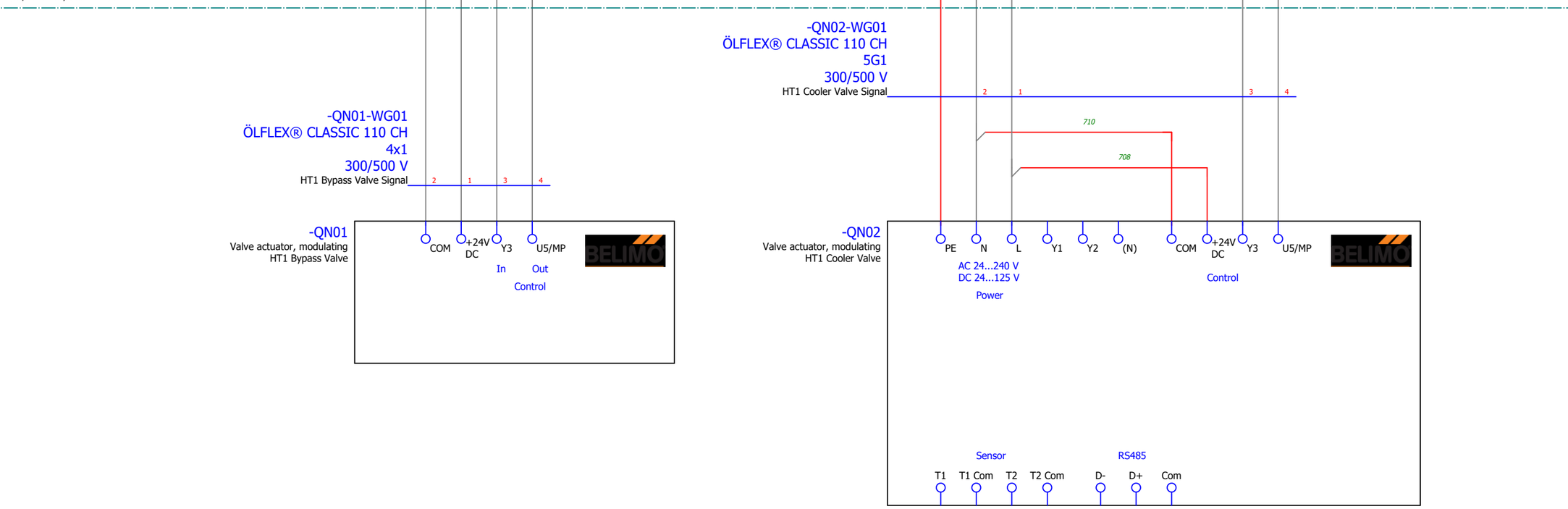
DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT #1 Coolant Pump VFD Interface		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 27 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
Coolant System Power Distribution, Container #1 Outside



=HE01+DA02
HT#1 Coolant Sensor/Actuator, Coolant Skid



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT #1 Mixing Valves		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 28 / 82

FRM5103656/0B

0	1	2	3	4	5	6	7	8

=LA01+UC30
Coolant System Power Distribution, Container #1 Outside

HT2 Coolant Flow
HE02_BF01_FT
&C02/9.4
-KE04-Slot5
AI17
X06 17 18

Main HT Coolant Return Temperature
HE02_BF01_TT
&C02/9.4
-KE04-Slot5
AI14
X05 14 15

HT2 Header Tank Level
HE02_BL01_LT
&C02/8.6
-KE04-Slot3
AI4
X03 28 29

HT2 Cooling Tower Return Temperature
HE02_BT05_TT
&C02/9.4
-KE04-Slot5
AI19
X07 19 20 21

HT2 Pump Inlet Temperature
HE02_BT06_TT
&C02/9.4
AI22
X08 22 23 24

20.6 / -X204:-2B
20.4 / -X204:2B
715
715
715
741
742
743
712
744
745
746
747
748
749

-X112 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

=HE02+DA02
HT#2 Coolant Sensor/Actuator, Coolant Skid

-BF01-WG01
PUR
10 m
4x0,34
50/60 V
HT2 Flow Signal
BN WH BU BK

-BF01-XG01
M12 F
1 2 3 4

-BF01
HT1 Flow Sensor
1 L+
2 Out 2
3 L-
4 Out 1
4...20mA 4...20mA
M12

-BL01-WG01
PUR
10 m
4x0,34
50/60 V
HT2 Header Tank Level Signal
BN WH BU BK

-BL01-XG01
M12 F
1 2 3 4

-BL01
0...100 mbar
HT1 Header Tank
Level Transmitter
1 L+
2 V Out 4...20mA
3 n.c.
4 n.c.
M12

-BT05-WG01
PUR
10 m
4x0,34
50/60 V
HT2 Cooling Tower Return Temp Signal
BN WH BU BK

-BT05-XG01
M12 F
1 2 3 4

-BT05
EL: 160 mm
HT1 Cooling Tower
Return Temperature
1 2 3 4
PT1000
M12

-BT06-WG01
PUR
10 m
4x0,34
50/60 V
HT2 Pump Inlet Temp Signal
BN WH BU BK

-BT06-XG01
M12 F
1 2 3 4

-BT06
EL: 160 mm
HT1 Pump Inlet
Temperature
1 2 3 4
PT1000
M12

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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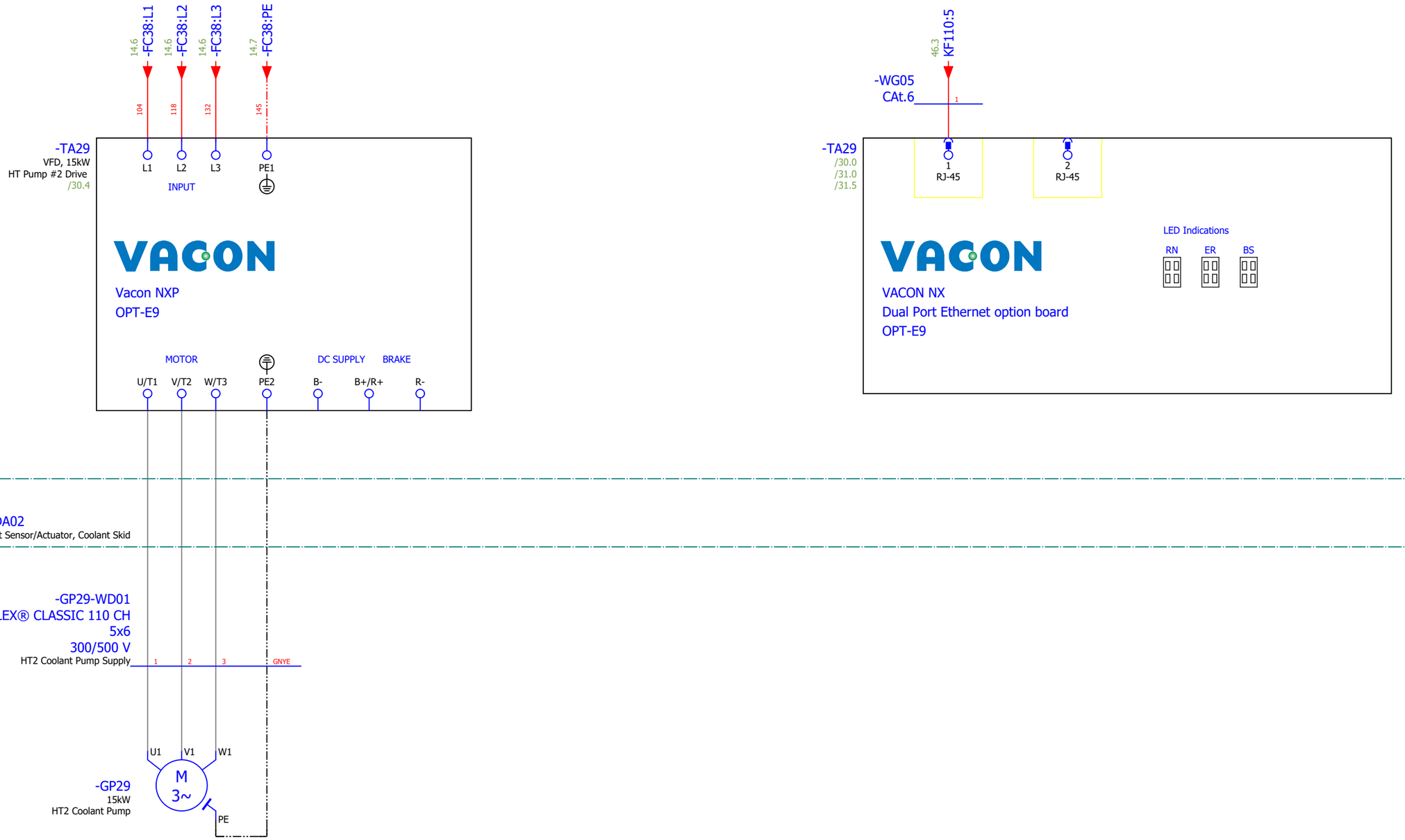
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT #2 Sensors		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 29 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
Coolant System Power Distribution, Container #1 Outside



=HE02+DA02
HT#2 Coolant Sensor/Actuator, Coolant Skid

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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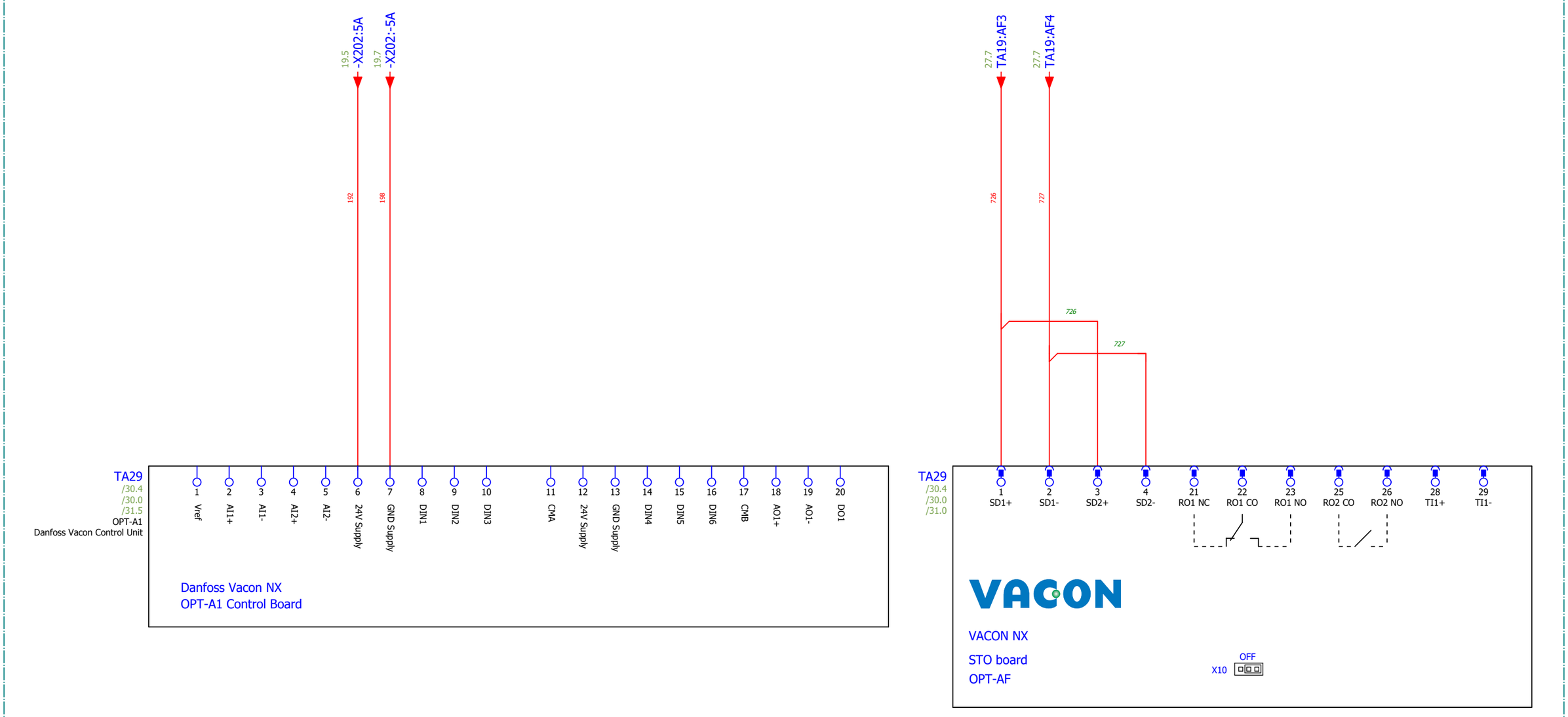
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT #2 Coolant Pump		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 30 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

Coolant System Power Distribution, Container #1 Outside



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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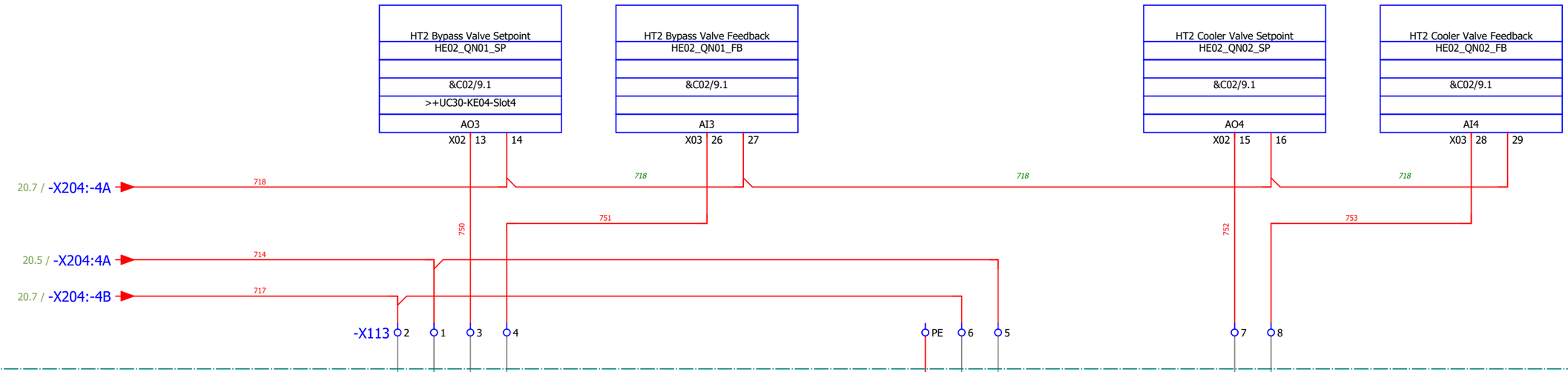
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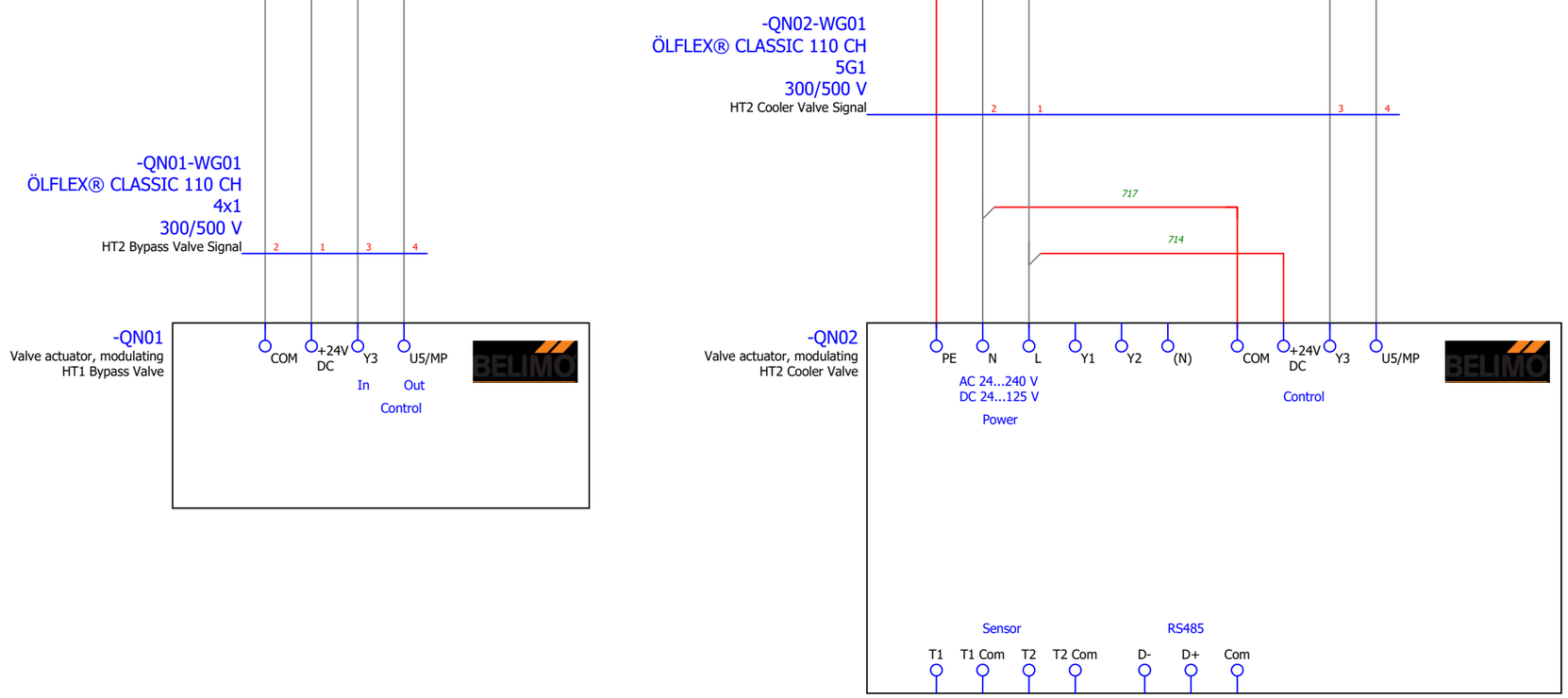
DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT #2 Coolant Pump VFD Interface		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 31 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
Coolant System Power Distribution, Container #1 Outside



=HE02+DA02
HT#2 Coolant Sensor/Actuator, Coolant Skid



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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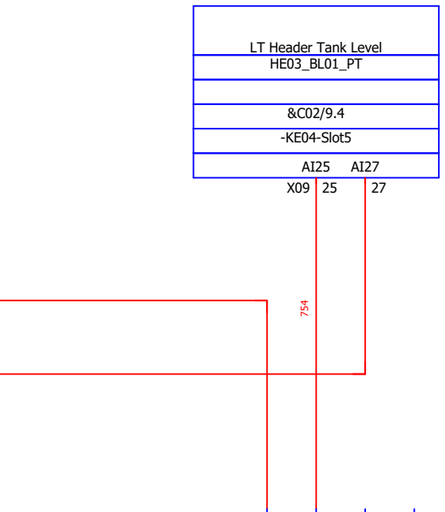
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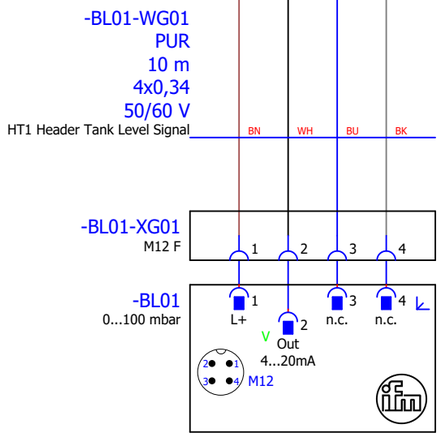
DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT #2 Mixing Valves		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 32 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
Coolant System Power Distribution, Container #1 Outside



=HE03+DA02
LT Header Tank Coolant Sensor/Actuator, Coolant Skid



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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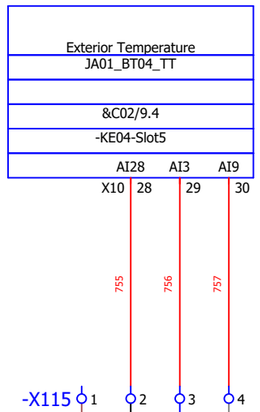
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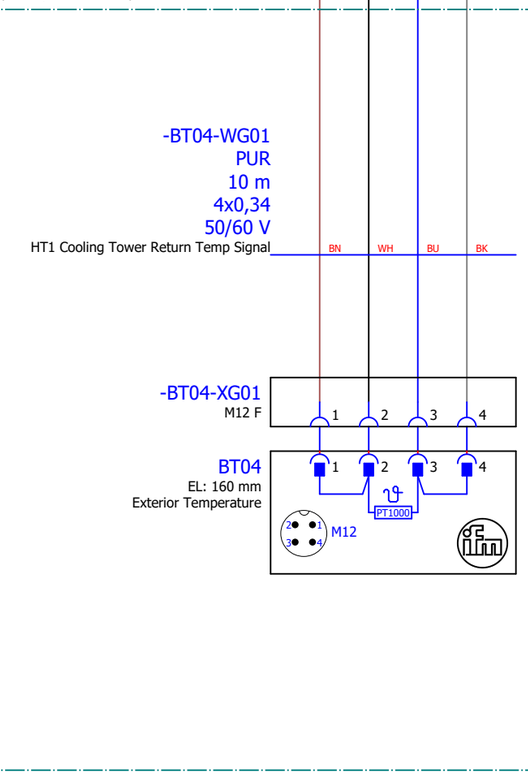
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - LT Header Tank		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 33 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
Coolant System Power Distribution, Container #1 Outside



=JA01+DA02
Ventilation systerm, Exterior Temperature



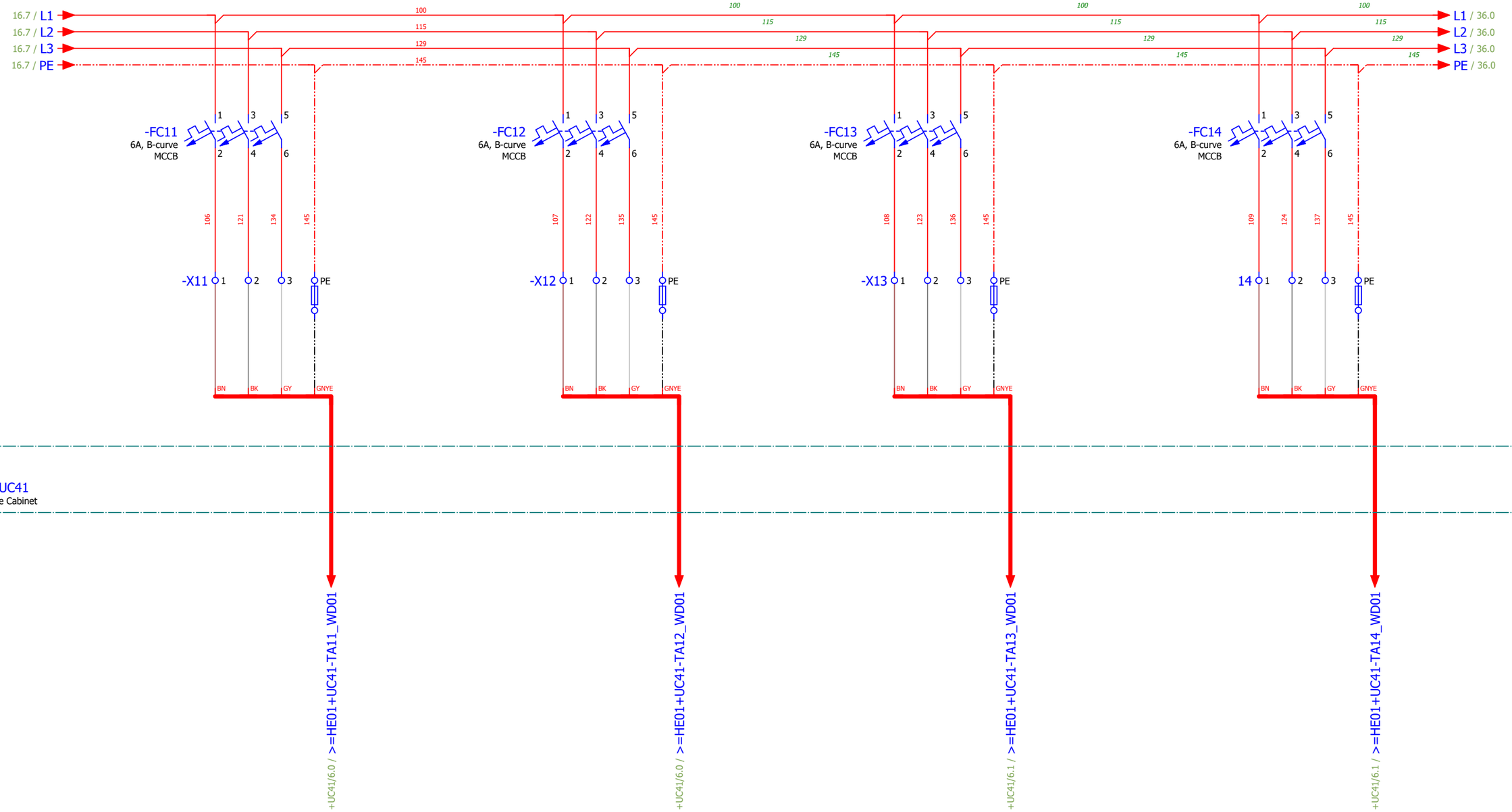
Reference Item Number	Ballard Part # TBD			REVISION INFORMATION	THIS DOCUMENT, SUBMITTED IN CONFIDENCE, CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF BALLARD POWER SYSTEMS INC. OR A RELATED WHOLLY-OWNED SUBSIDIARY OR AFFILIATE.	BALLARD™ CONFIDENTIAL	DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
EPLAN Project Name	601456B - Shell Baseload Power Hub			DESCRIPTION			DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
EPLAN Revision	11					THIS DOCUMENT'S APPROVAL IS MANAGED BY E-SIGNATURE ON FILE IN BALLARD POWER SYSTEMS' PLM SYSTEM	SHEET TYPE/DESC	40ft Coolant Skid - Exterior Temperature		
EPLAN Project Pages	629			DATE			ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 34 / 82
=	++	+ UC30	& C03	03-Sep-25						

FRM5103656/0B

0	1	2	3	4	5	6	7	8

=LA01+UC30

40ft Coolant Skid - Control Cabinet



=HE01+UC41

HT Fan Drive Cabinet

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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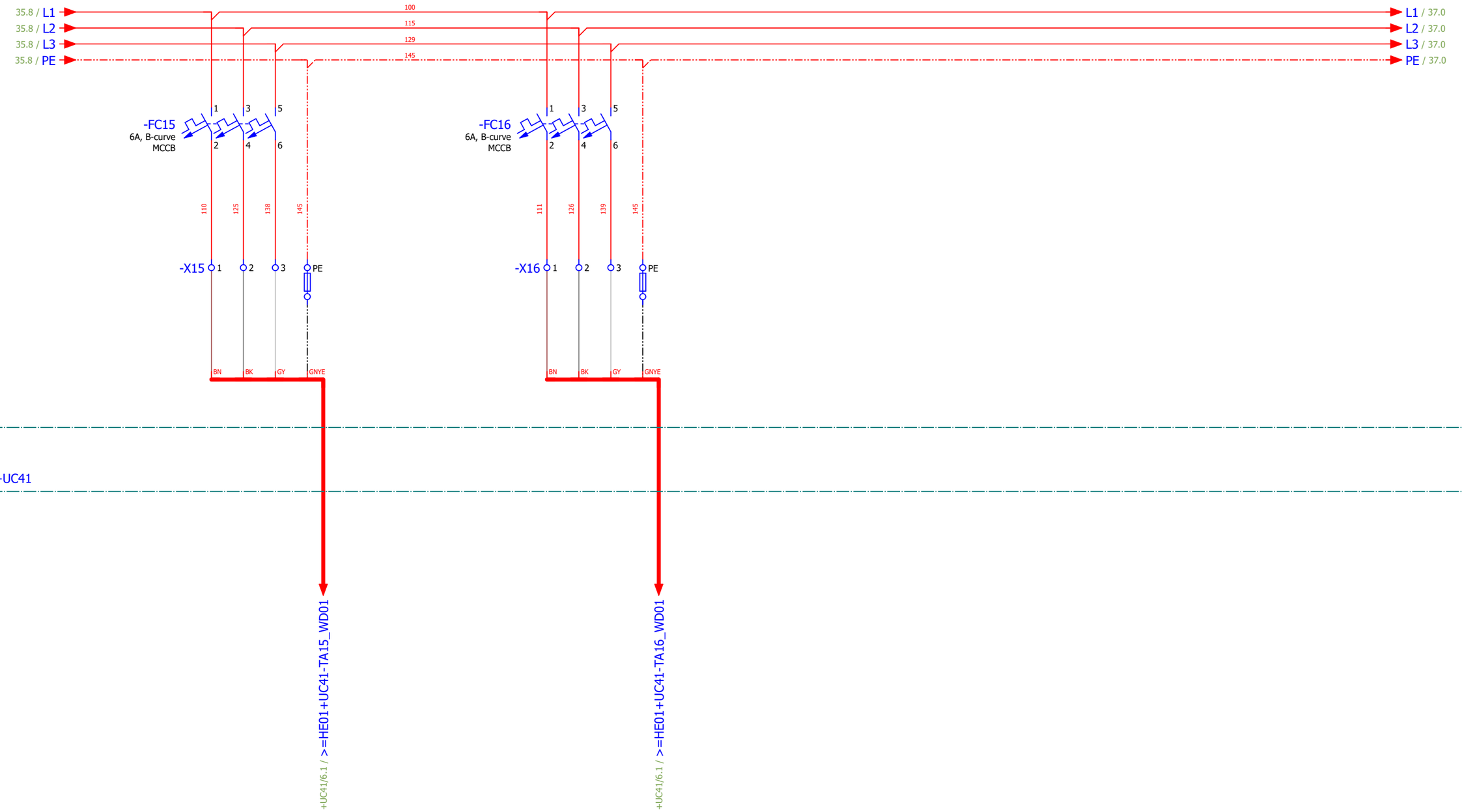
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT Cooler #1 Fan Power 1/2		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 35 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

40ft Coolant Skid - Control Cabinet



=HE01+UC41

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
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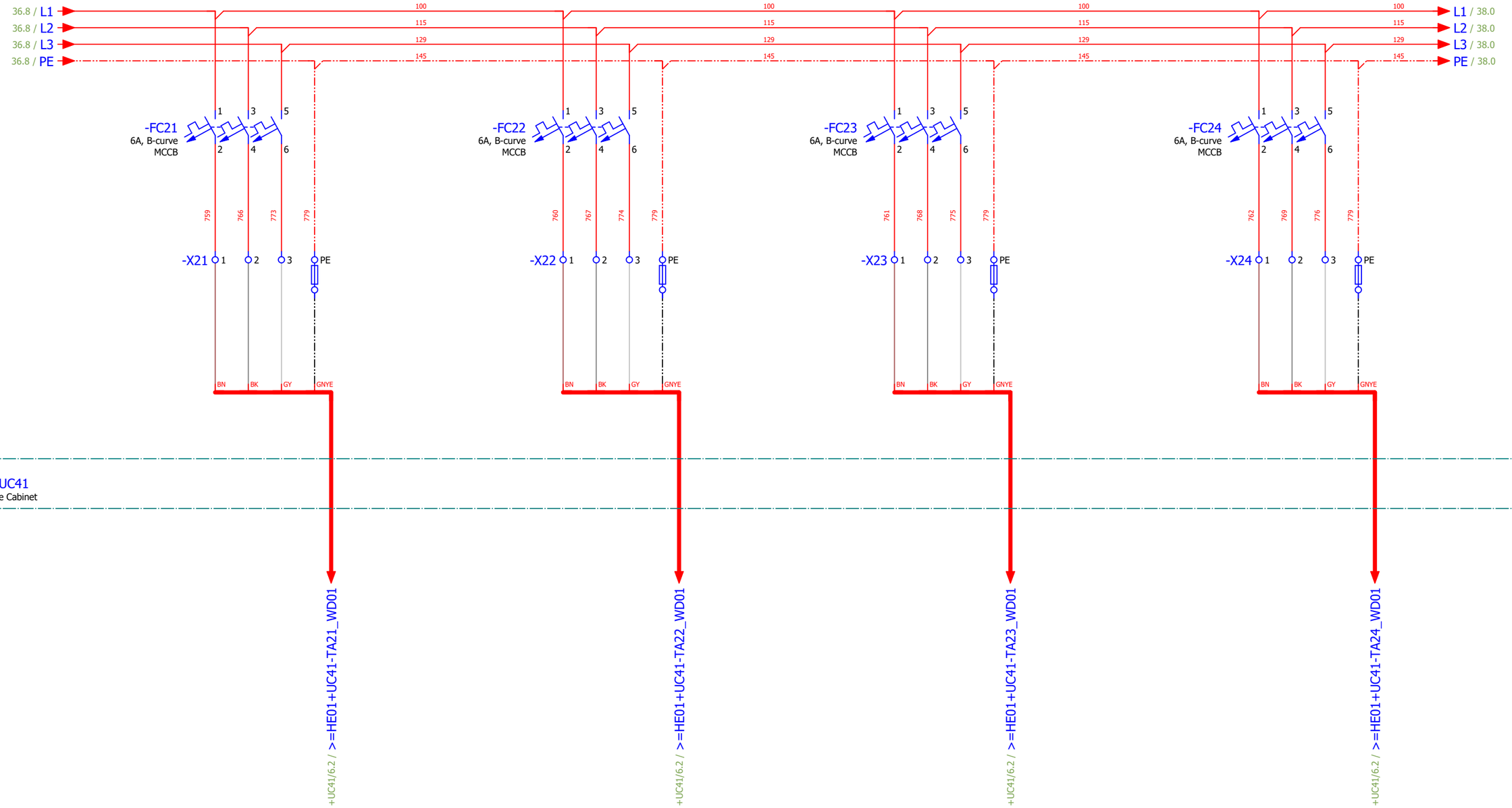
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT Cooler #1 Fan Power 2/2		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 36 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
40ft Coolant Skid - Control Cabinet



=HE01+UC41
HT Fan Drive Cabinet

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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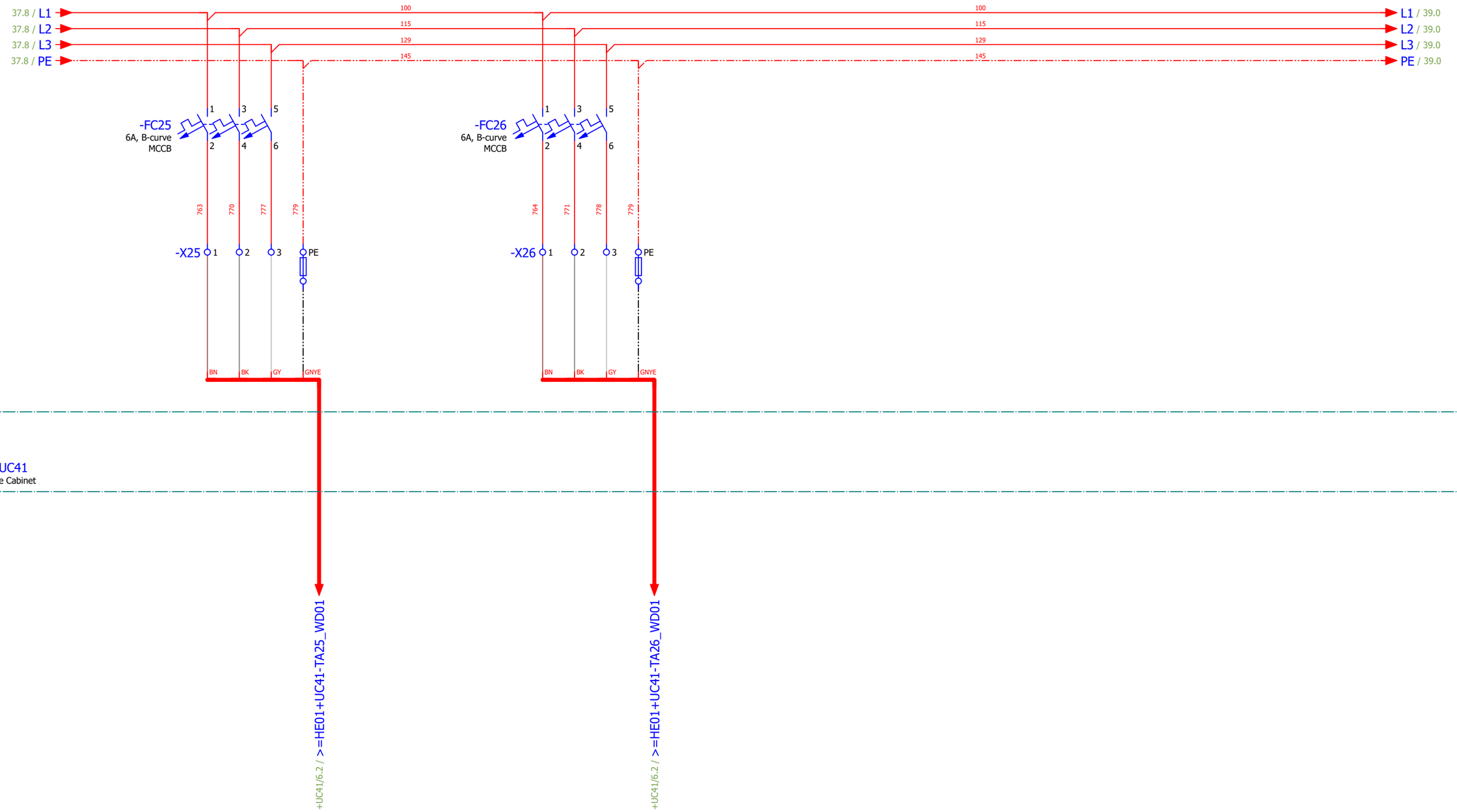
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT Cooler #2 Fan Power 1/2		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 37 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
40ft Coolant Skid - Control Cabinet



=HE01+UC41
HT Fan Drive Cabinet

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - HT Cooler #2 Fan Power 2/2		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 38 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
40ft Coolant Skid - Control Cabinet



=HE01+UC41
HT Fan Drive Cabinet

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

REVISION INFORMATION
DESCRIPTION
DATE
03-Sep-25

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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - LT Cooler Fan Power		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 39 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
40ft Coolant Skid - Control Cabinet



=HE01+UC41
HT Fan Drive Cabinet

+UC41/6.3 / >=HE01+UC41-EA40_WD01

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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DATE
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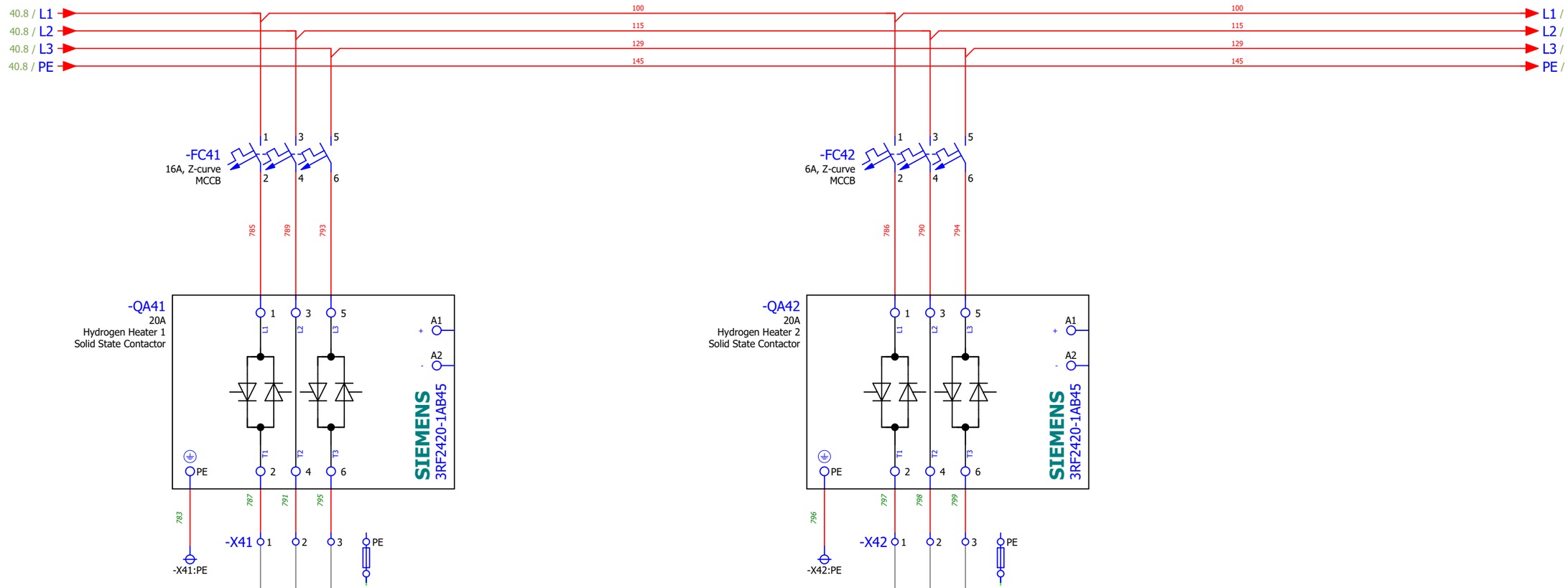
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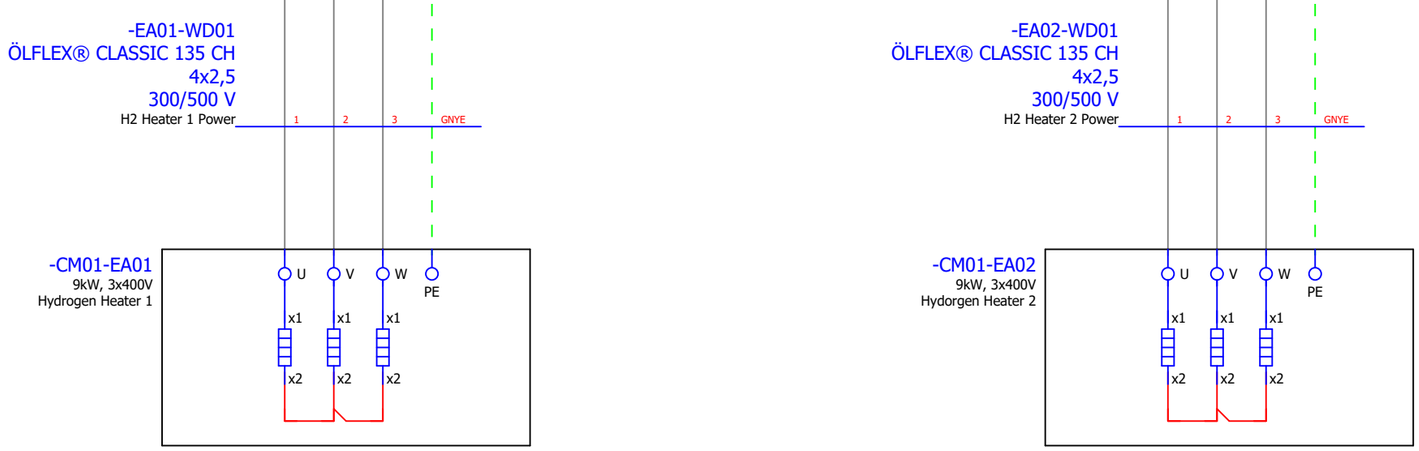
DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - VFD Cabinet Airconditioning		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 40 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
40ft Coolant Skid - Control Cabinet



=HA01+DA02
Hydrogen Supply System, Outside Container #1



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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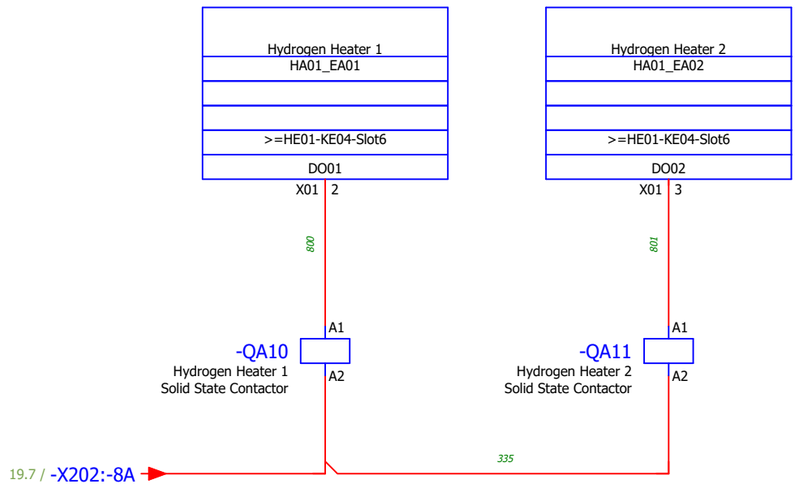
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Hydrogen Heater Power		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 41 / 82

FRM5103656/0B

=LA01+UC30
40ft Coolant Skid - Control Cabinet



=HA01+DA02
Hydrogen Heater

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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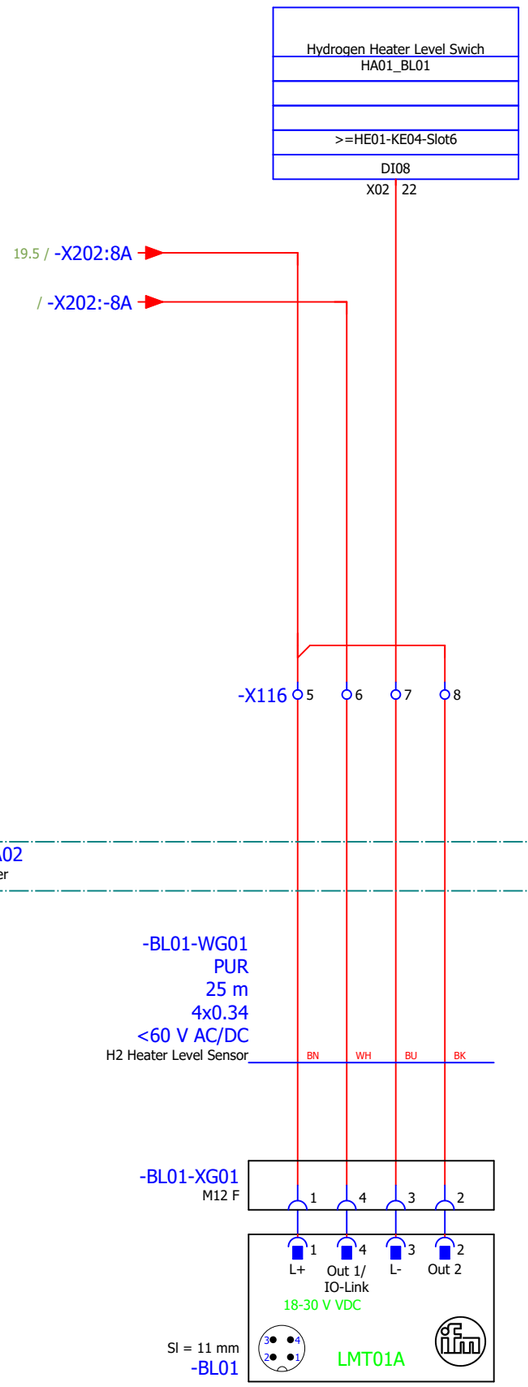
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Hydrogen Heater Control		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 42 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

40ft Coolant Skid - Control Cabinet



=HA01+DA02

Hydrogen Heater

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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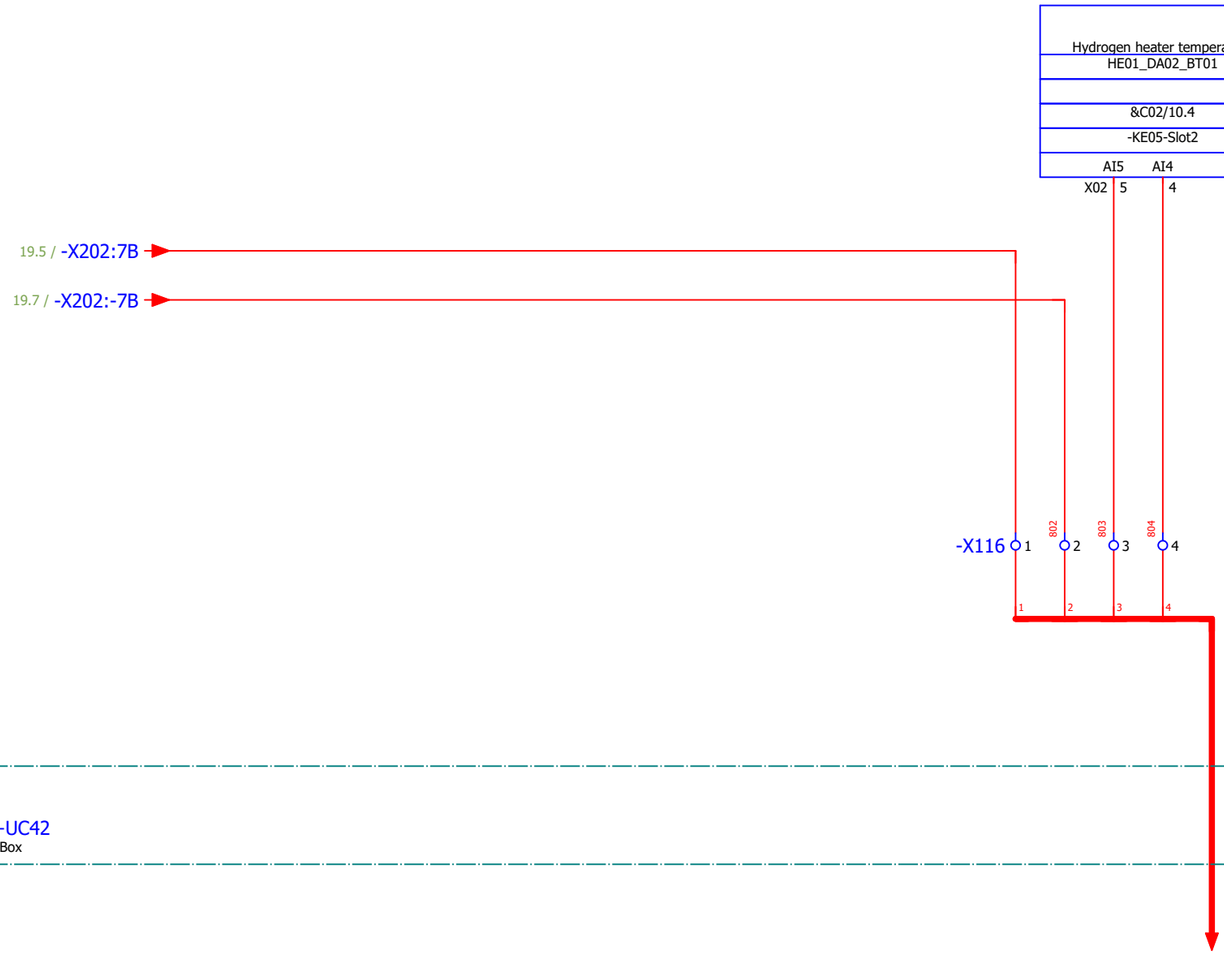
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Hydrogen Heater Control Level		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 43 / 82

=LA01+UC30
40ft Coolant Skid - Control Cabinet



=LA01+UC42
Ex Barrier Box

See document E03-008 for UC42 Ex Barrier Box Details

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Hydrogen Heater Control Temperature		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 44 / 82

=LA01+UC30
40ft Coolant Skid - Control Cabinet

Hydrogen Inlet Pressure
=DA01+DA02+BP01
&C02/10.4
-KE05-Slot2
AI2
3 X01 2

19.5 / -X202:6B
19.7 / -X202:-6B

-X116 9 10 11 12
1 2

>=LA01+UC30-BP01
+UC42/4.6

See document E03-008 for UC42 Ex Barrier Box Details

=HA01+UC42
Ex Barrier Box

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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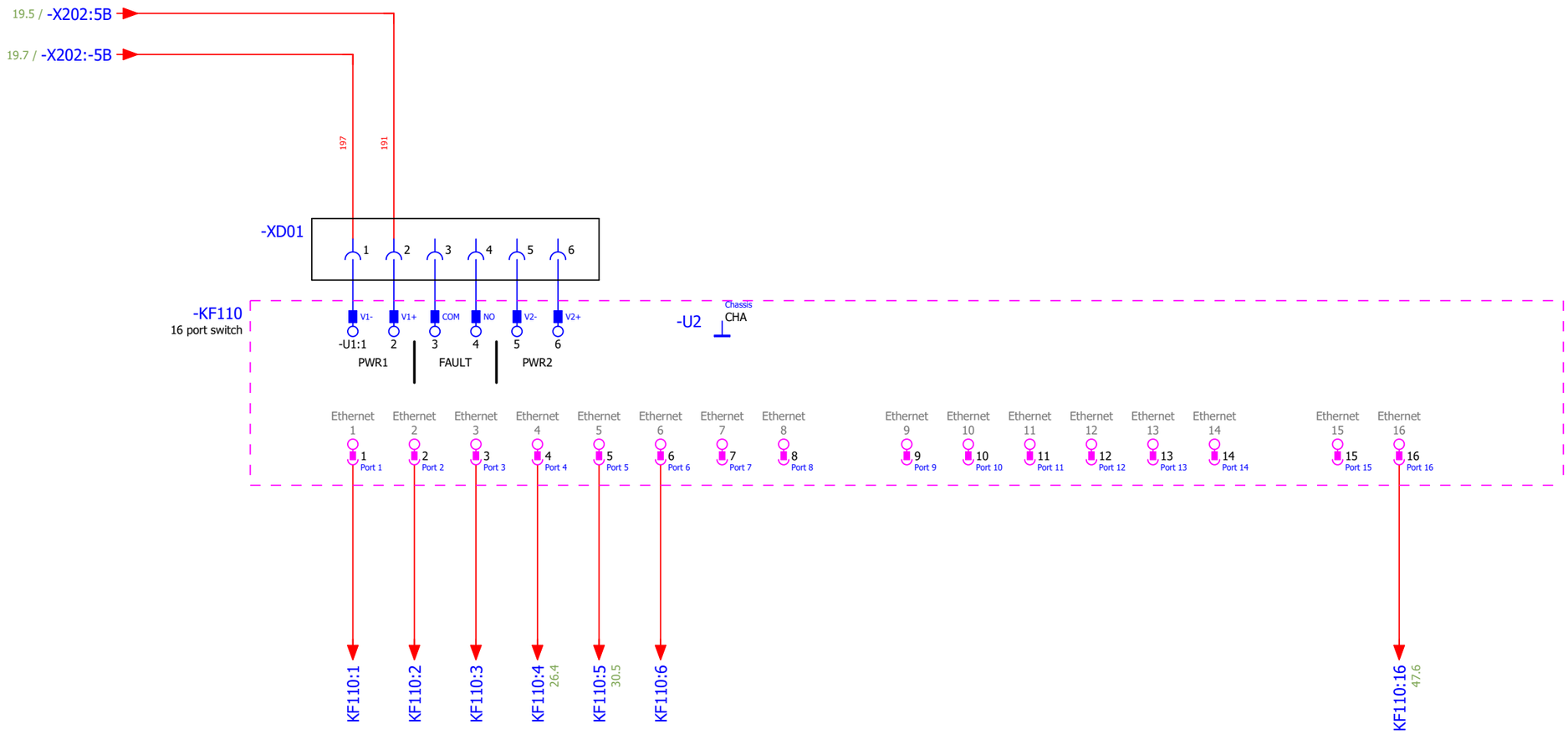
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Hydrogen Manifold pressure		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 45 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30

40ft Coolant Skid - Control Cabinet



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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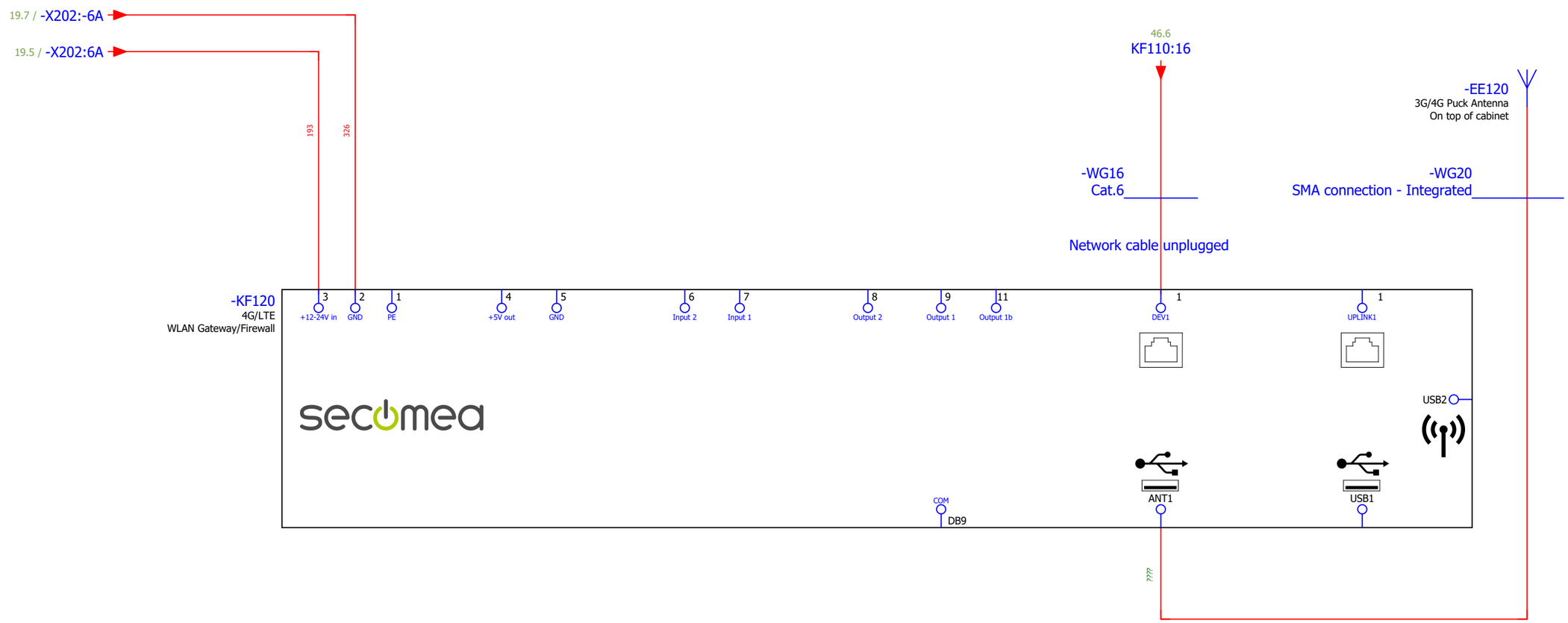
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Newtwork switch		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 46 / 82

0	1	2	3	4	5	6	7	8

=LA01+UC30
40ft Coolant Skid - Control Cabinet



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C03

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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	40ft Coolant Skid - Secomea		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 47 / 82

FRM5103656/0B

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Panel Documentation

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Panel Documentation and Layout		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 48 / 82

FRM5103656/0B

Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
=LA01-14		1	PE	1	0	4	
=LA01-X1		L1	PE	0	0	5	
=LA01-X02		PE	PE	0	0	1	
=LA01-X11		1	PE	1	0	4	
=LA01-X12		1	PE	1	0	4	
=LA01-X13		1	PE	1	0	4	
=LA01-X15		1	PE	1	0	4	
=LA01-X16		1	PE	1	0	4	
=LA01-X21		1	PE	1	0	4	
=LA01-X22		1	PE	1	0	4	
=LA01-X23		1	PE	1	0	4	
=LA01-X24		1	PE	1	0	4	
=LA01-X25		1	PE	1	0	4	
=LA01-X26		1	PE	1	0	4	
=LA01-X31		1	PE	1	0	4	
=LA01-X41		1	PE	1	0	4	
=LA01-X42		1	PE	1	0	4	
=LA01-X50		1	PE	1	0	4	
=LA01-X100		1	X1	0	0	10	
=LA01-X110		1	16	0	0	16	
=LA01-X111		PE	8	0	0	9	
=LA01-X112		1	16	0	0	16	
=LA01-X113		PE	8	0	0	9	
=LA01-X114		1	4	0	0	4	
=LA01-X115		1	4	0	0	4	
=LA01-X116		1	12	0	0	12	
=LA01-X201		1.1	3.6	0	0	18	
=LA01-X201-		1.1	3.6	0	0	18	
=LA01-X202		1.1	3.6	0	0	36	
=LA01-X203		1.1	3.6	0	0	18	
=LA01-X203-		1.1	3.6	0	0	18	
=LA01-X204		1.1	3.6	0	0	18	
=LA01-X204-		1.1	3.6	0	0	18	
=LB02-XD03		1	1	0	0	1	

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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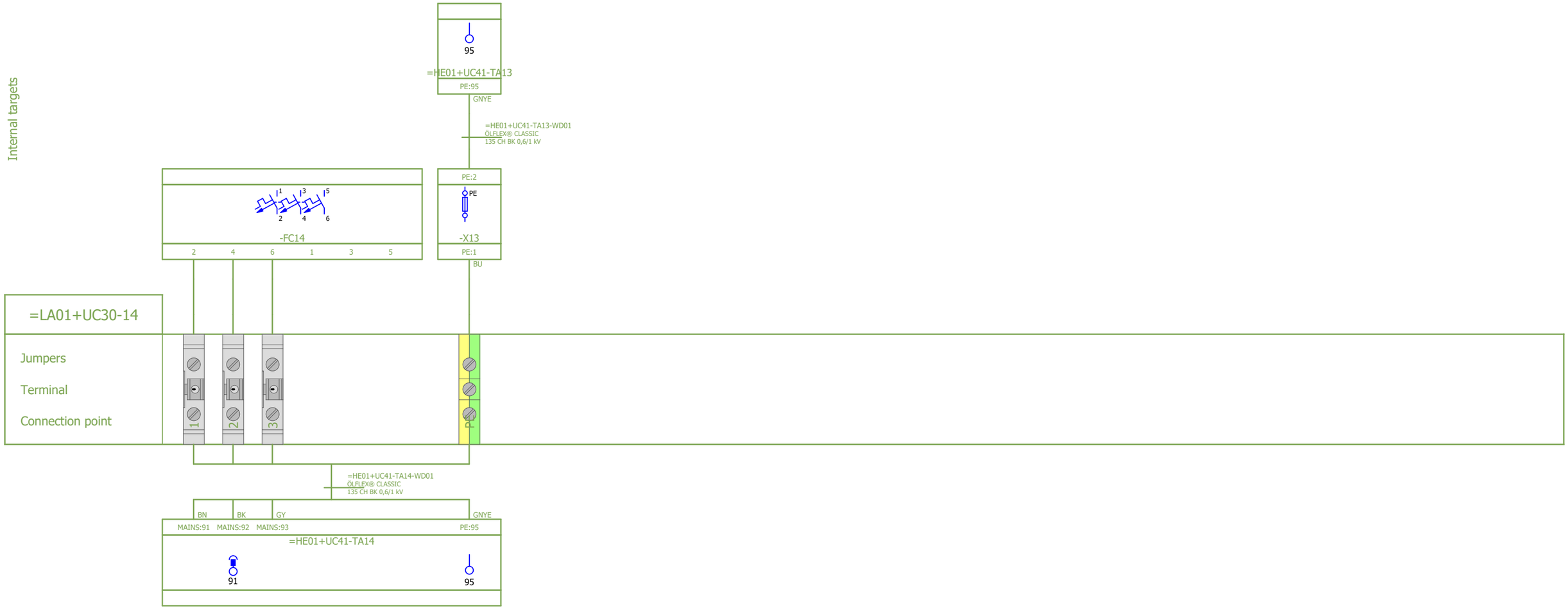
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-strip overview : =LA01+UC30-14 - =LB02+UC30-XD03		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 49 / 82

Terminal-connection diagram

F11_001
PETBLA 09-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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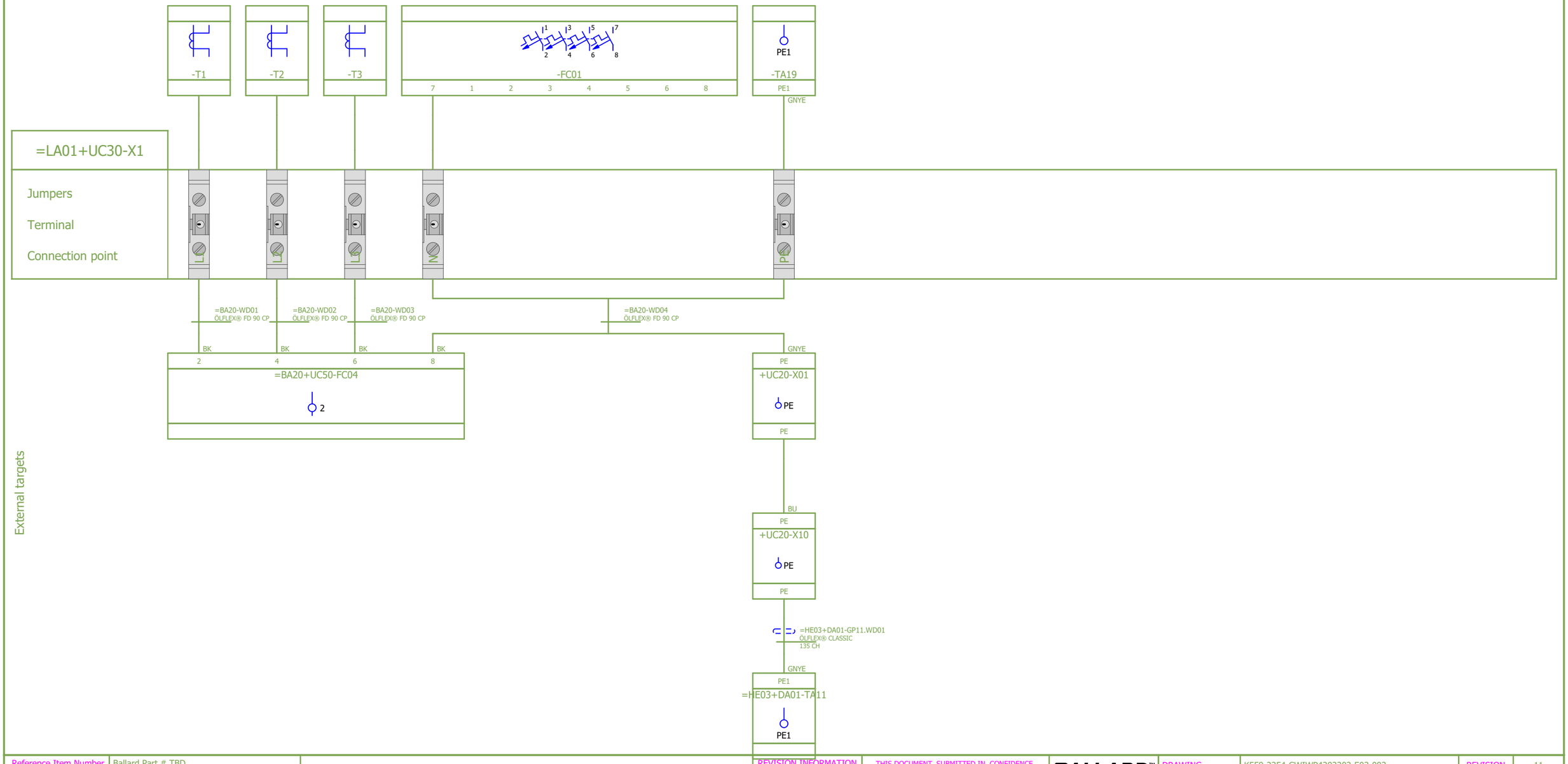
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-14		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 50 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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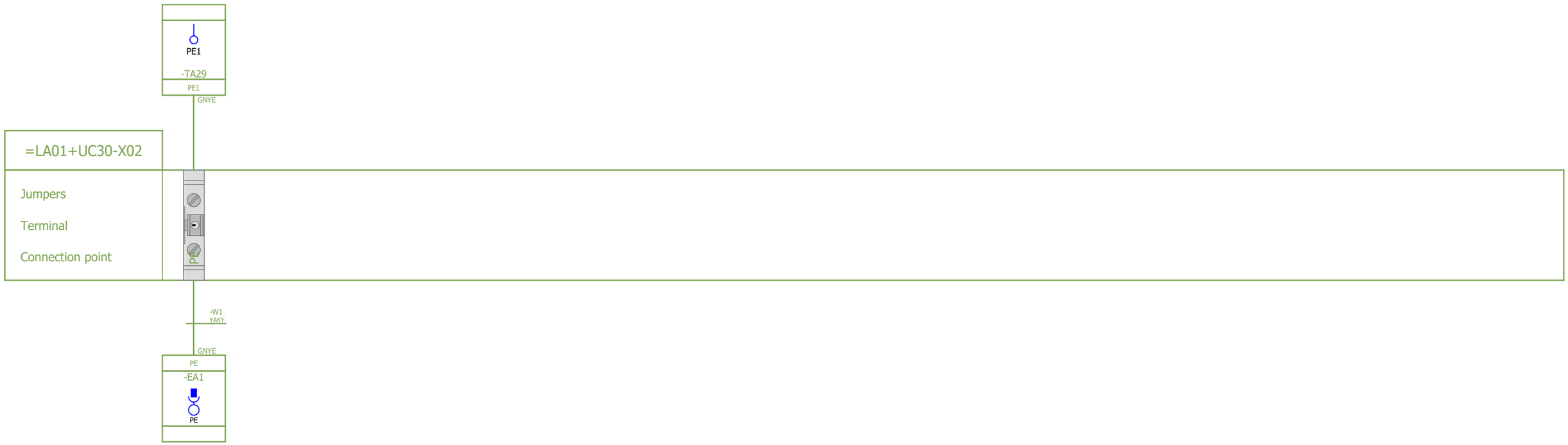
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X1		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 51 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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DESCRIPTION	
DATE	03-Sep-25

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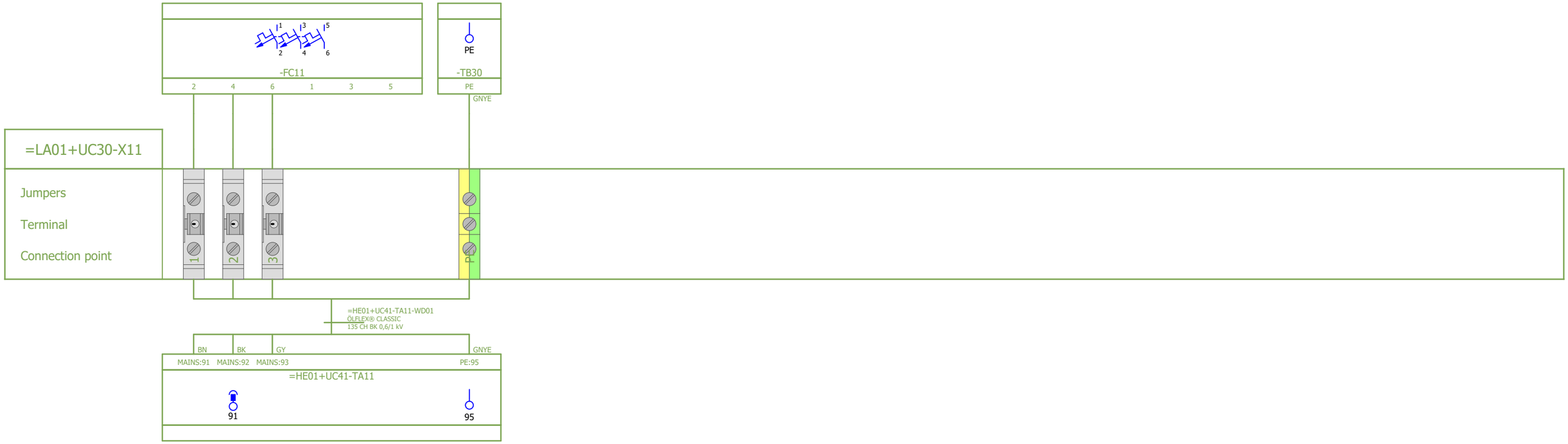
DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X02		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 52 / 82

FRM5103656/0B

Terminal-connection diagram

F11_001
PETBLA 09-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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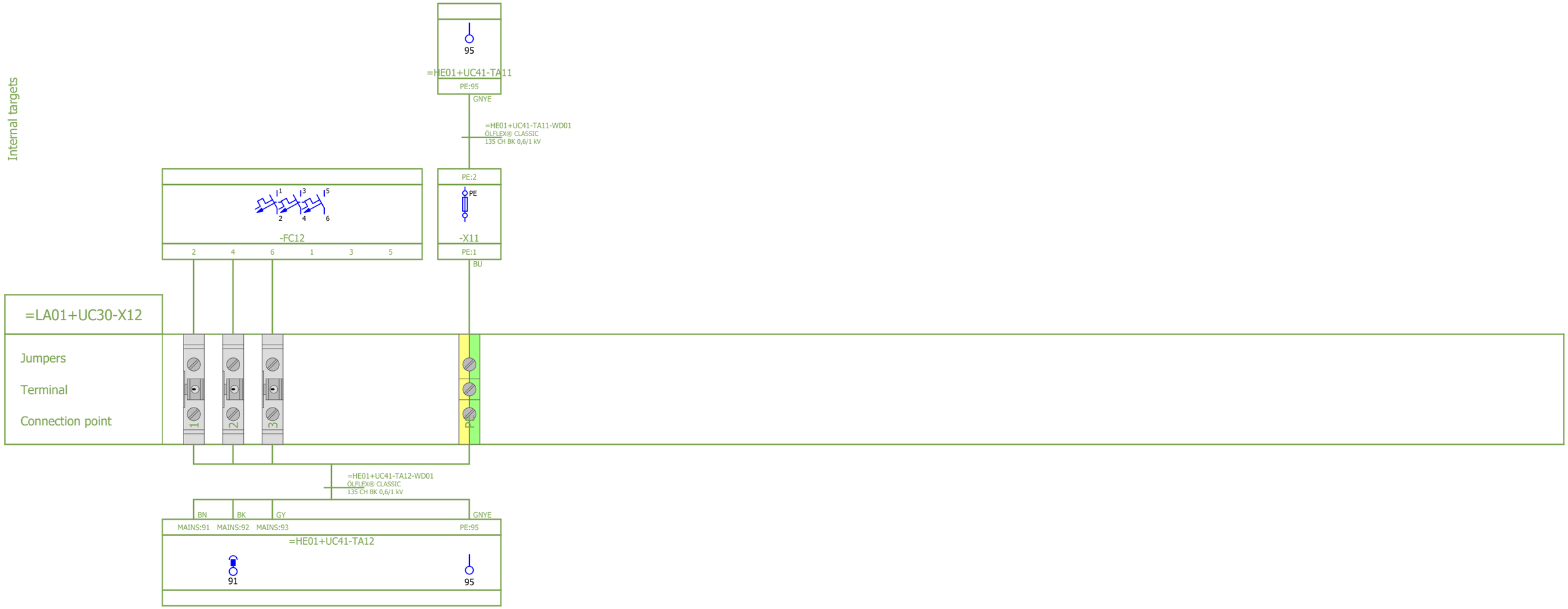
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X11		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 53 / 82

Terminal-connection diagram

F11_001
PETBLA 09-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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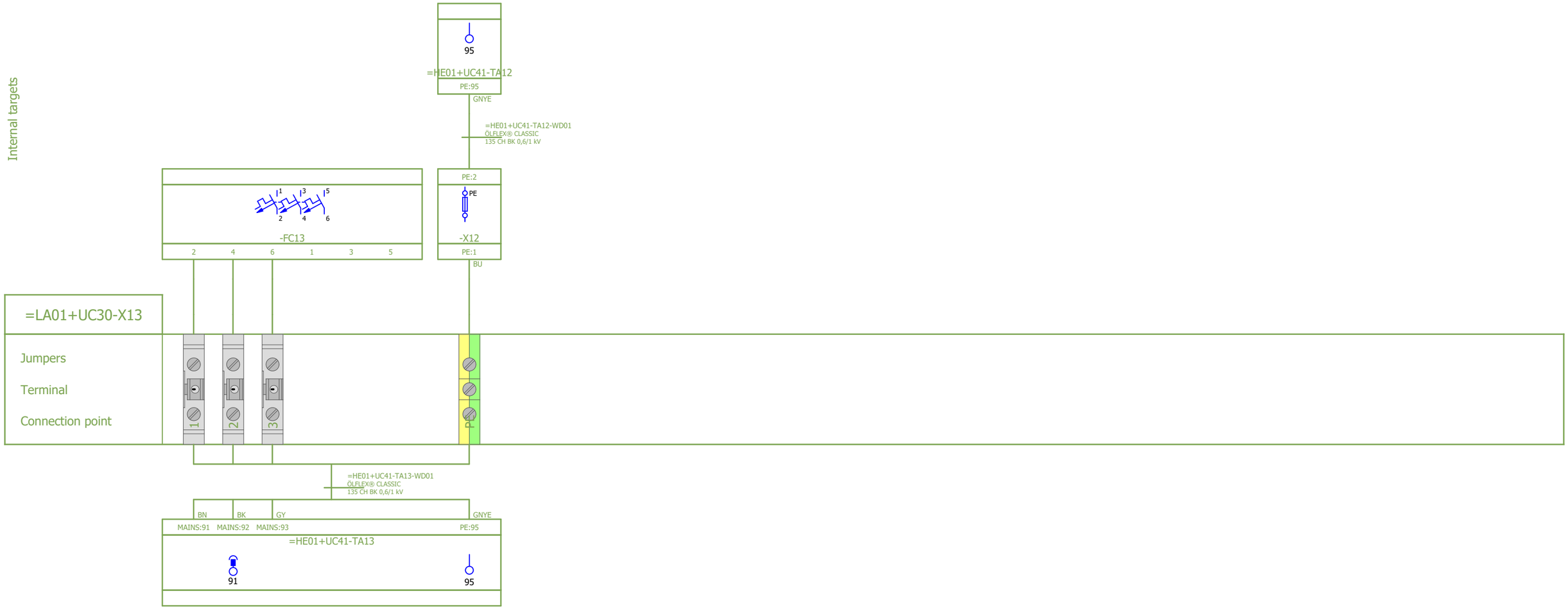
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X12		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 54 / 82

Terminal-connection diagram

F11_001
PETBLA 09-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

REVISION INFORMATION
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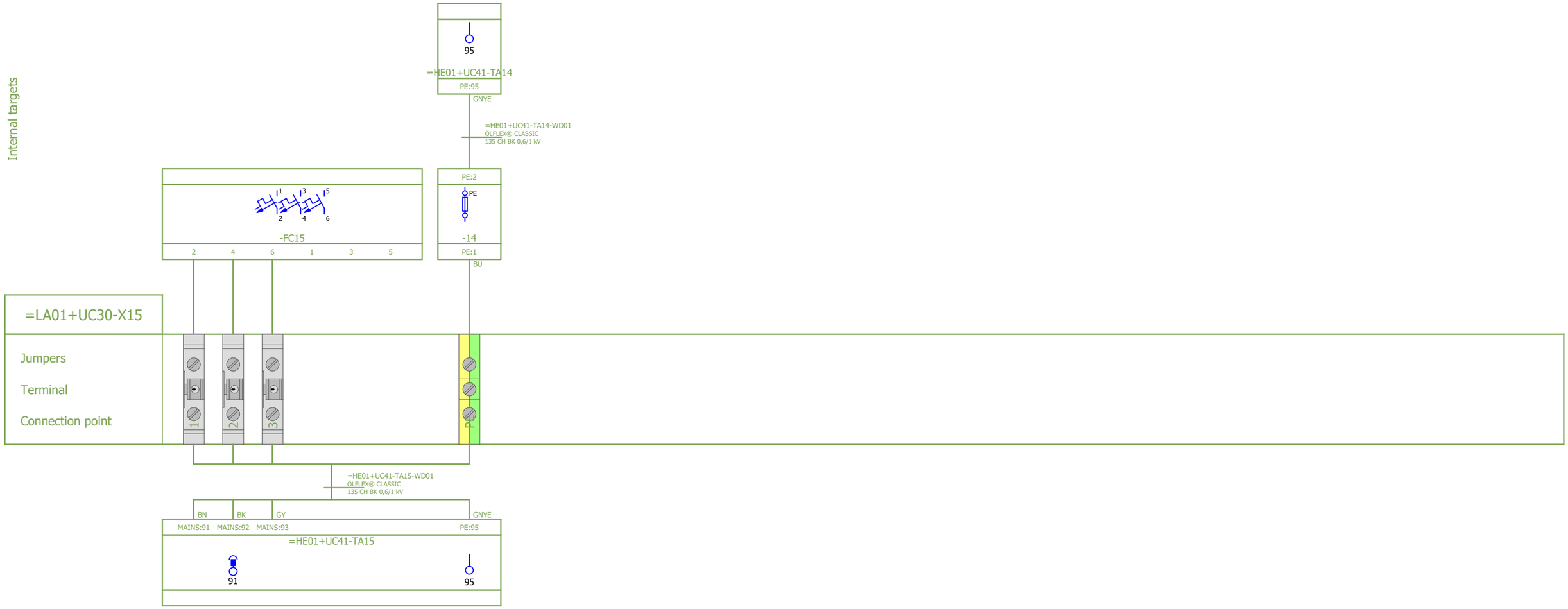
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X13		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 55 / 82

Terminal-connection diagram

F11_001
PETBLA 09-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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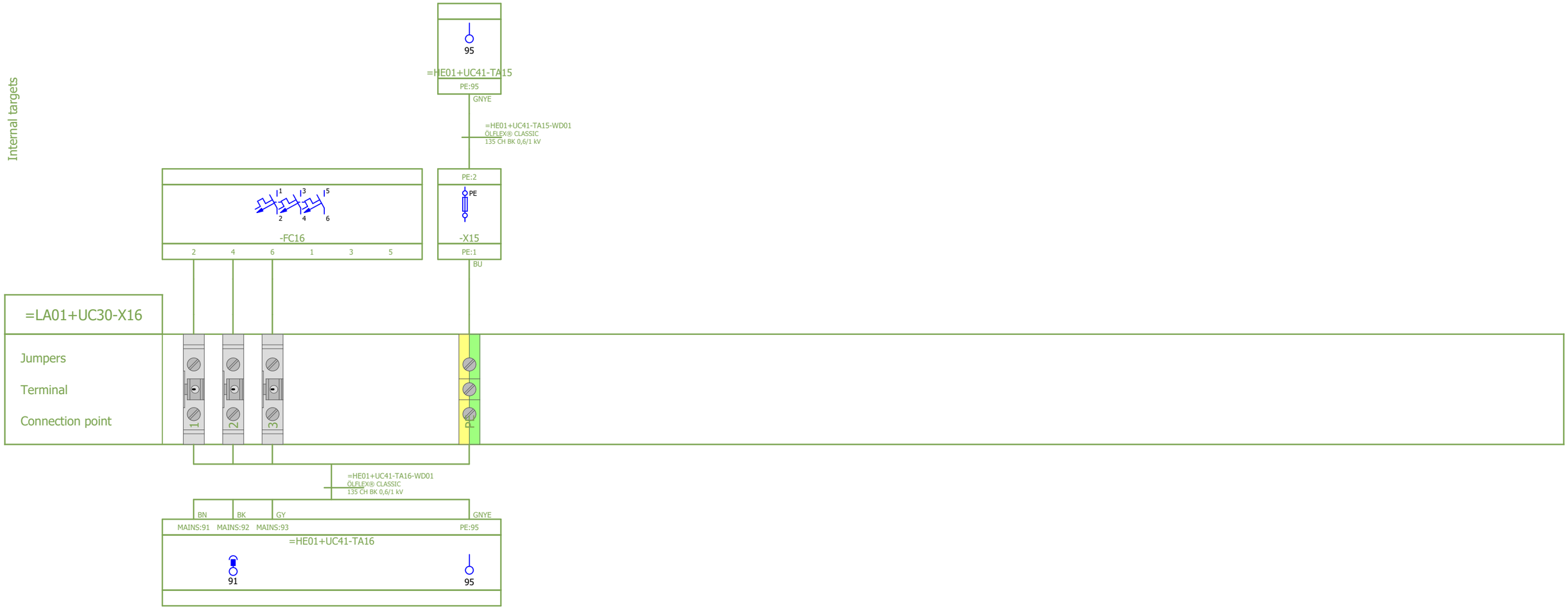
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X15		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 56 / 82

Terminal-connection diagram

F11_001
PETBLA 09-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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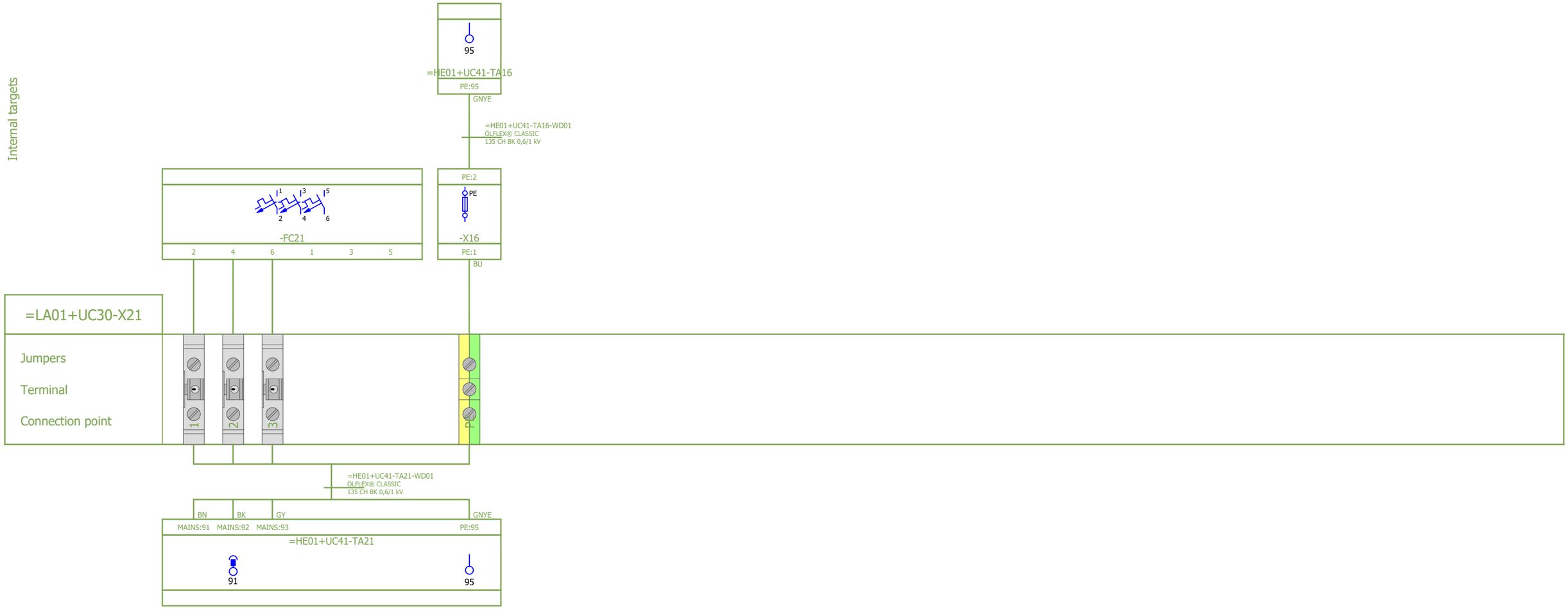
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X16		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 57 / 82

Terminal-connection diagram

F11_001
PETBLA 09-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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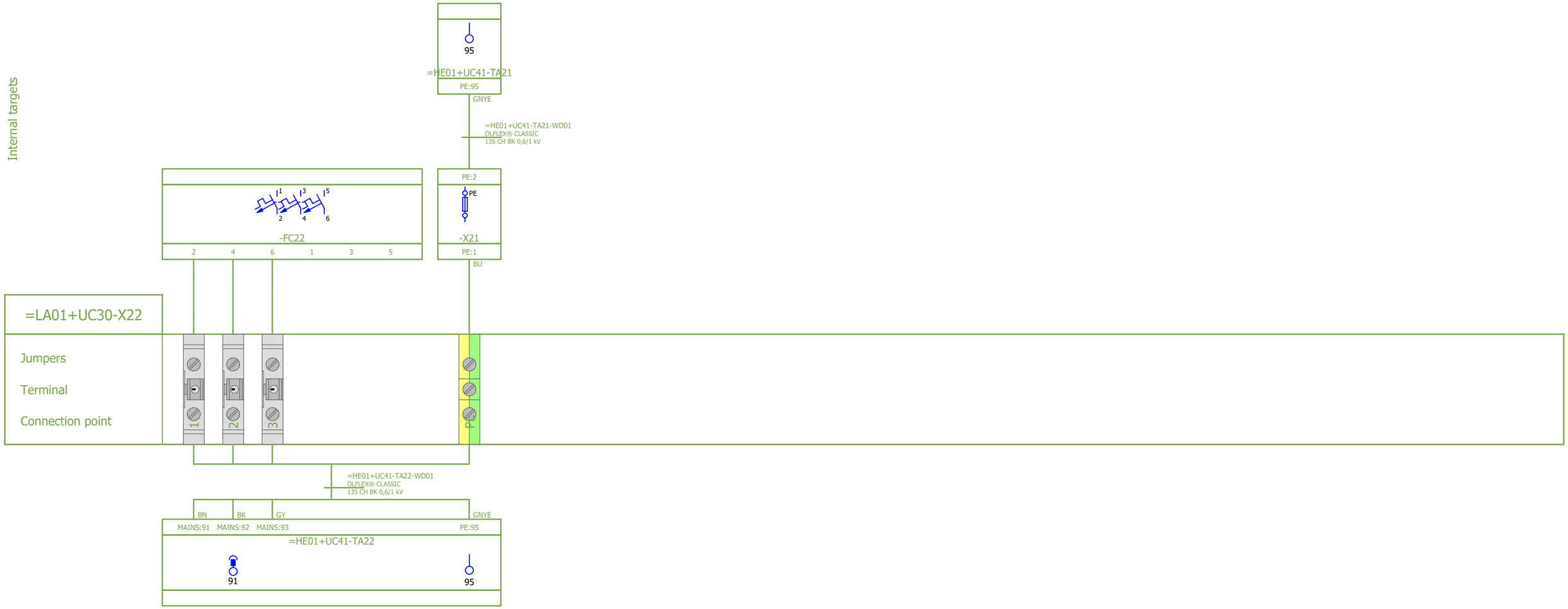
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X21		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 58 / 82

Terminal-connection diagram

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Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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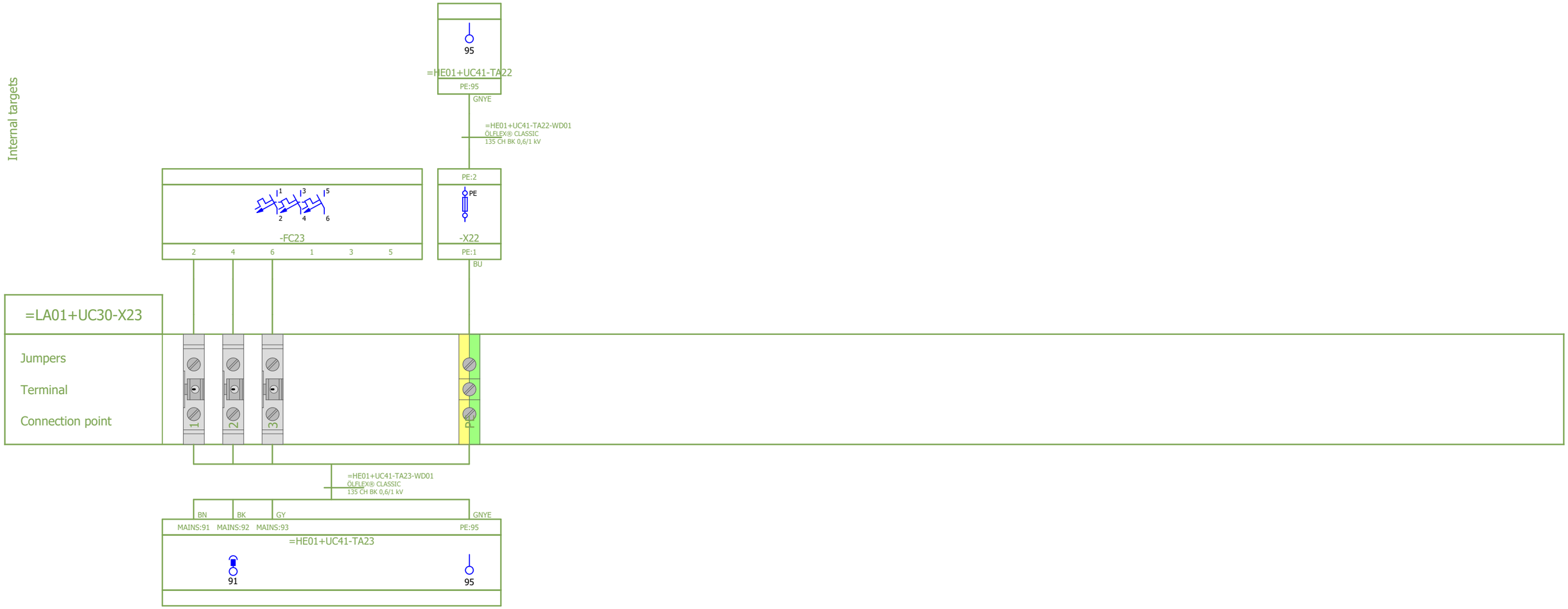
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X22		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 59 / 82

Terminal-connection diagram

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Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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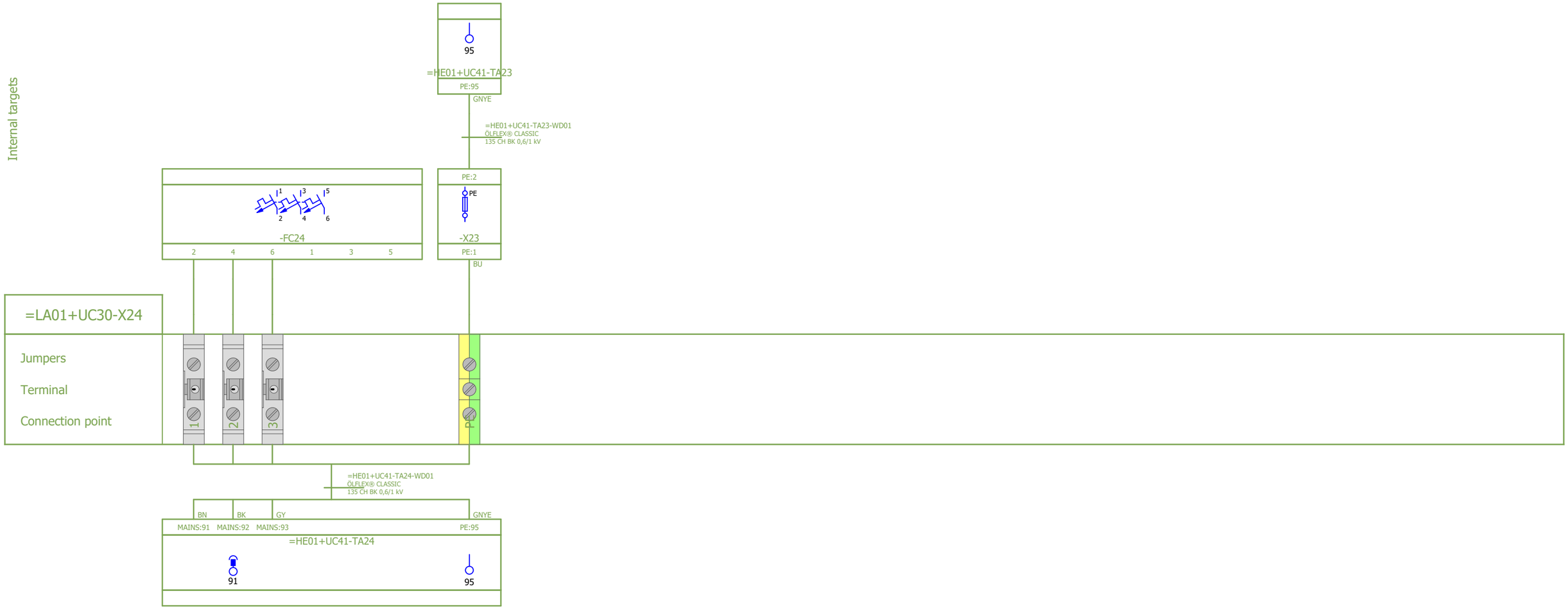
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X23		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 60 / 82

Terminal-connection diagram

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Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
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EPLAN Project Pages	629		
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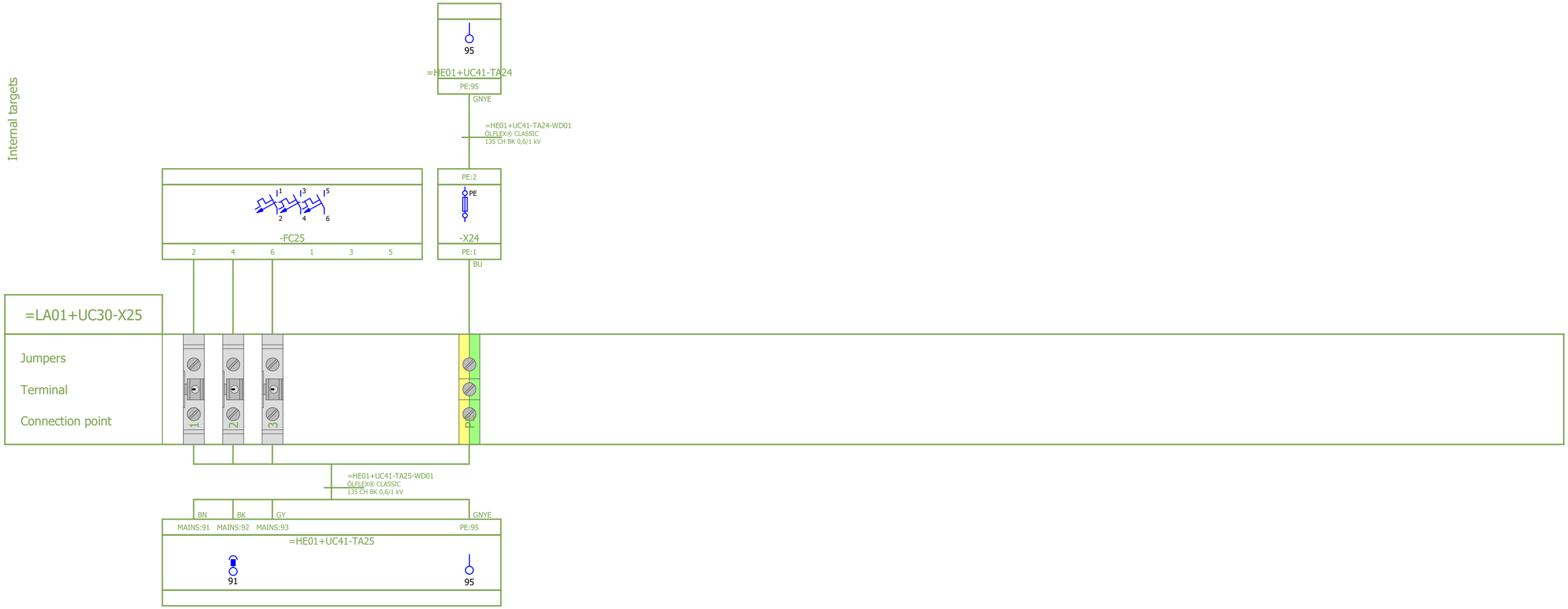
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X24		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 61 / 82

Terminal-connection diagram

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Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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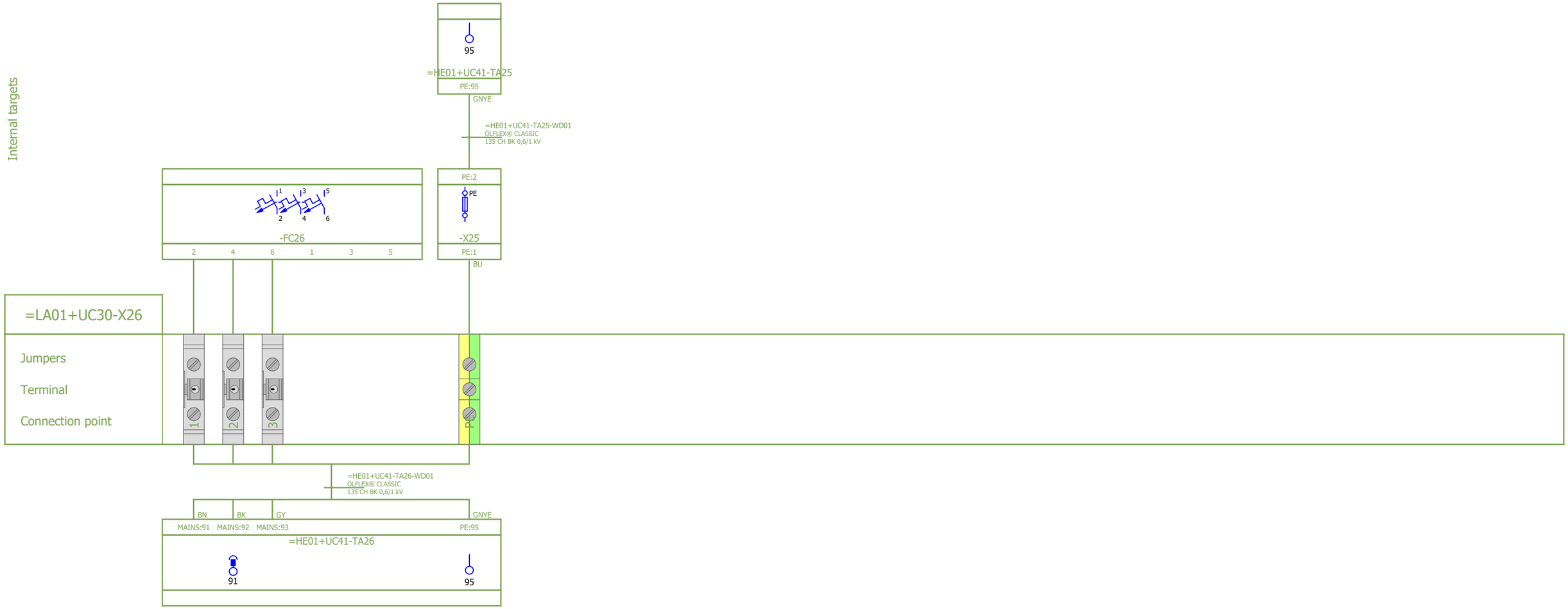
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X25		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 62 / 82

Terminal-connection diagram

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Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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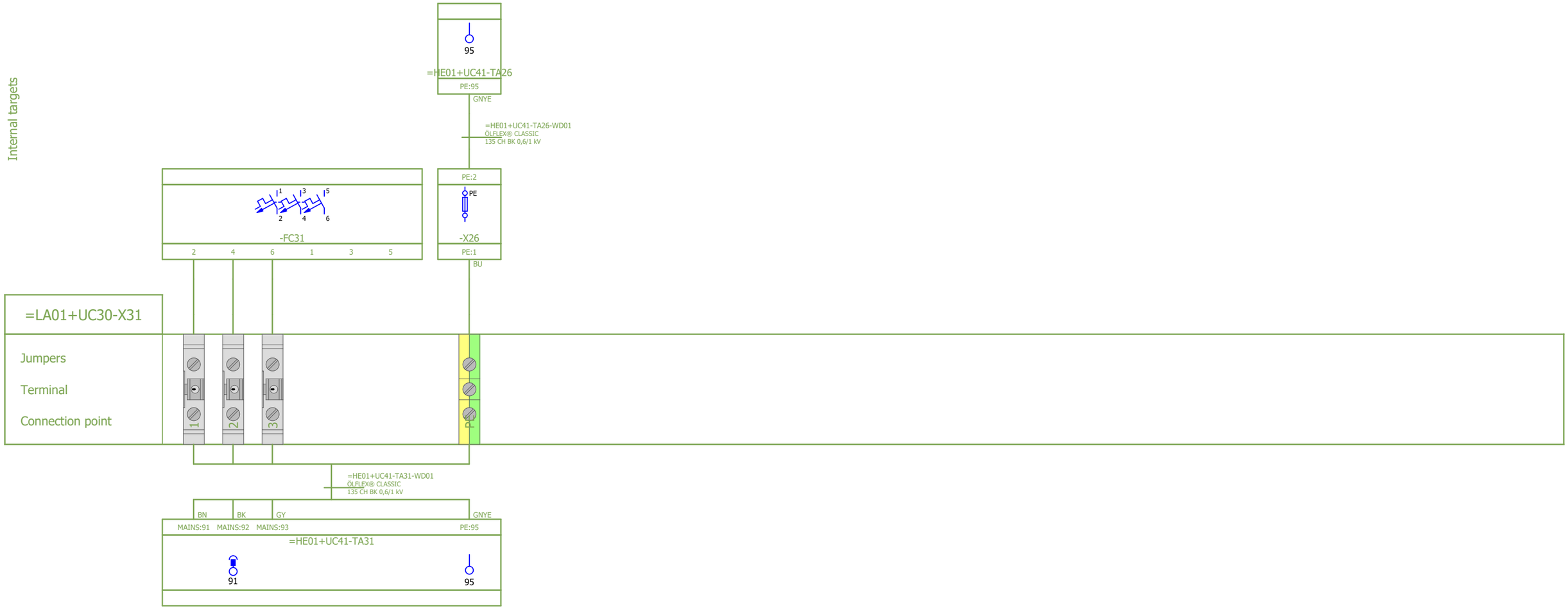
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X26		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 63 / 82

Terminal-connection diagram

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Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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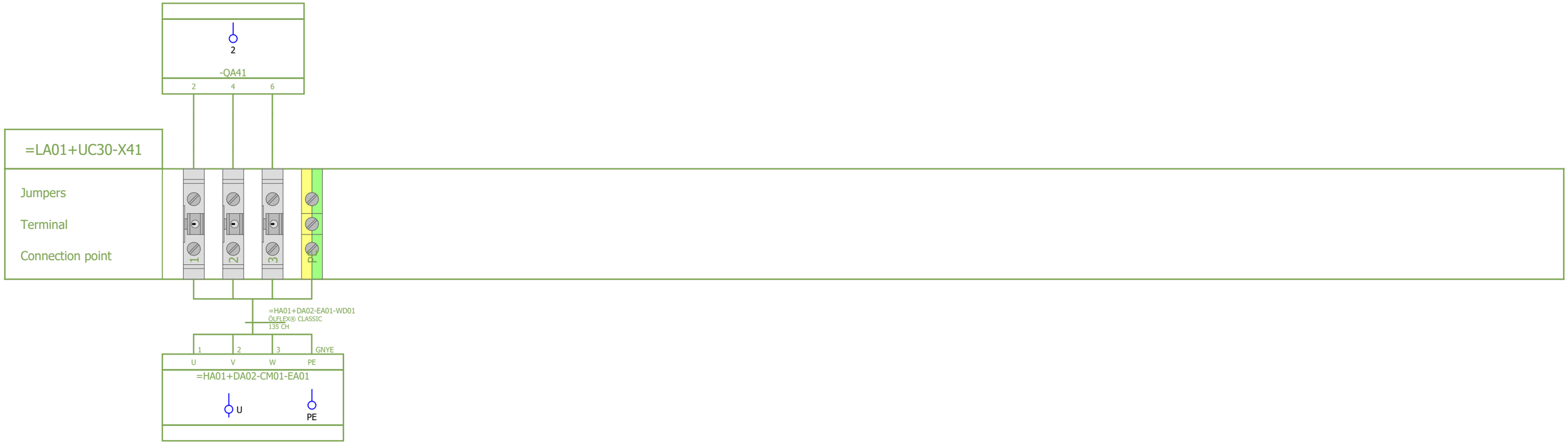
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X31		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 64 / 82

Terminal-connection diagram

F11_001
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Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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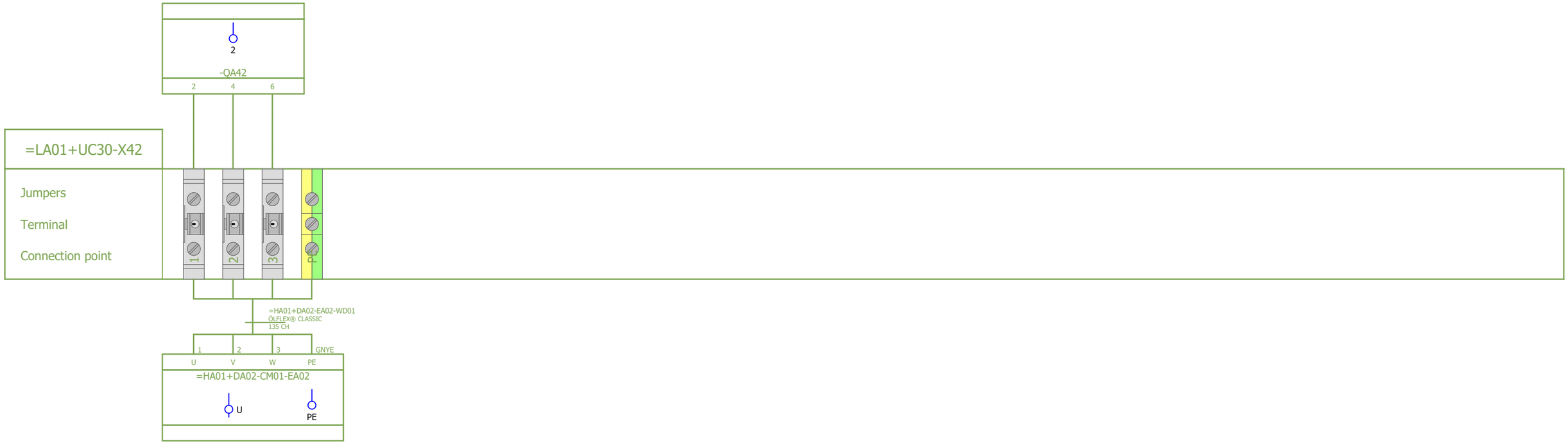
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X41		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 65 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
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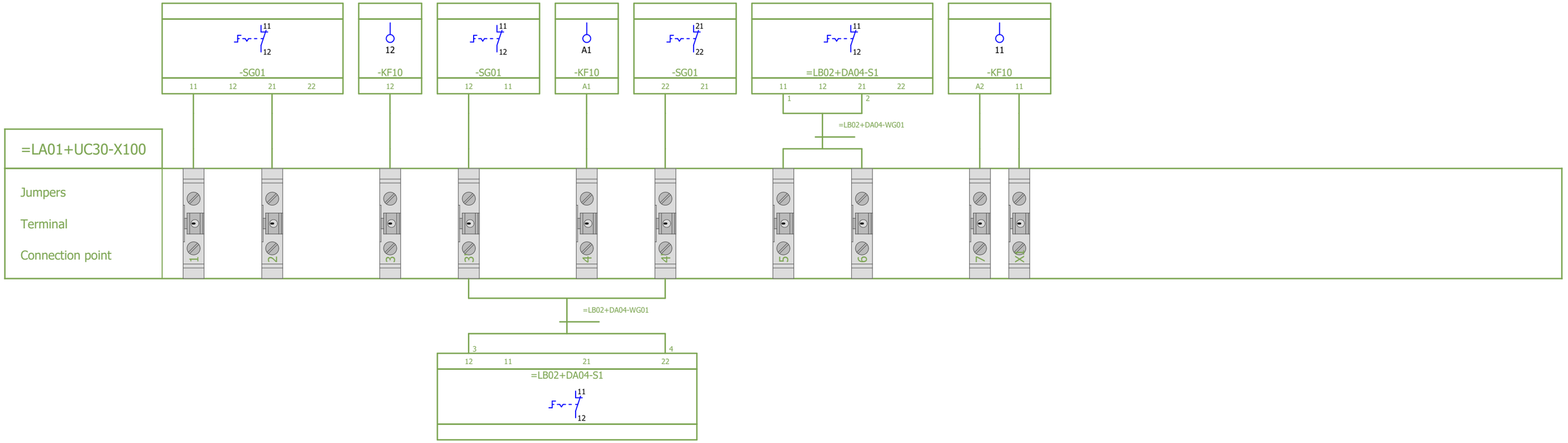
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X42		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 66 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
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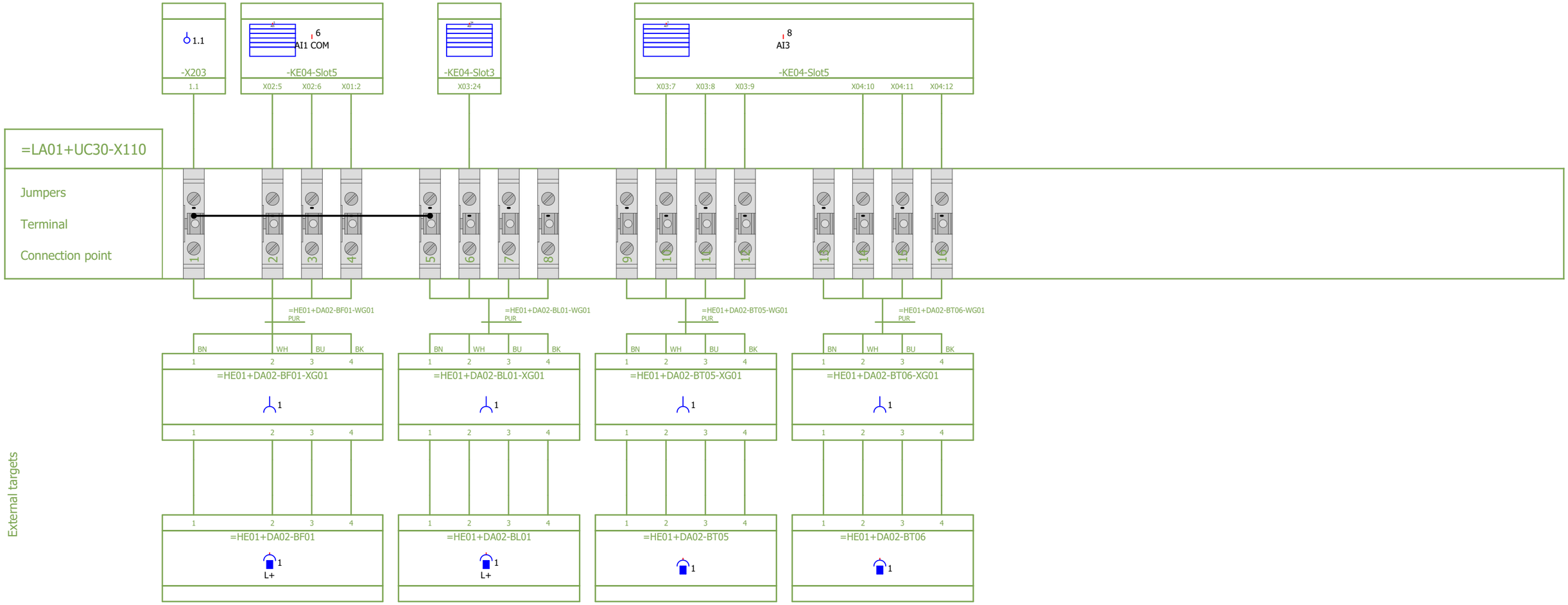
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X100		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 67 / 82

Terminal-connection diagram

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PETBLA 03-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
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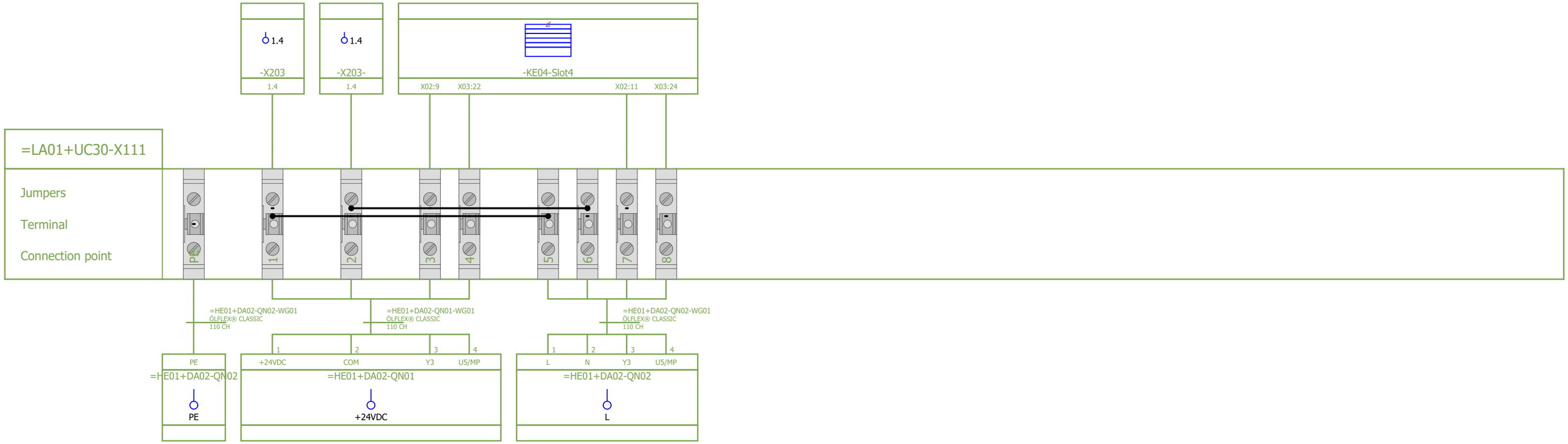
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X110		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 68 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
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DATE
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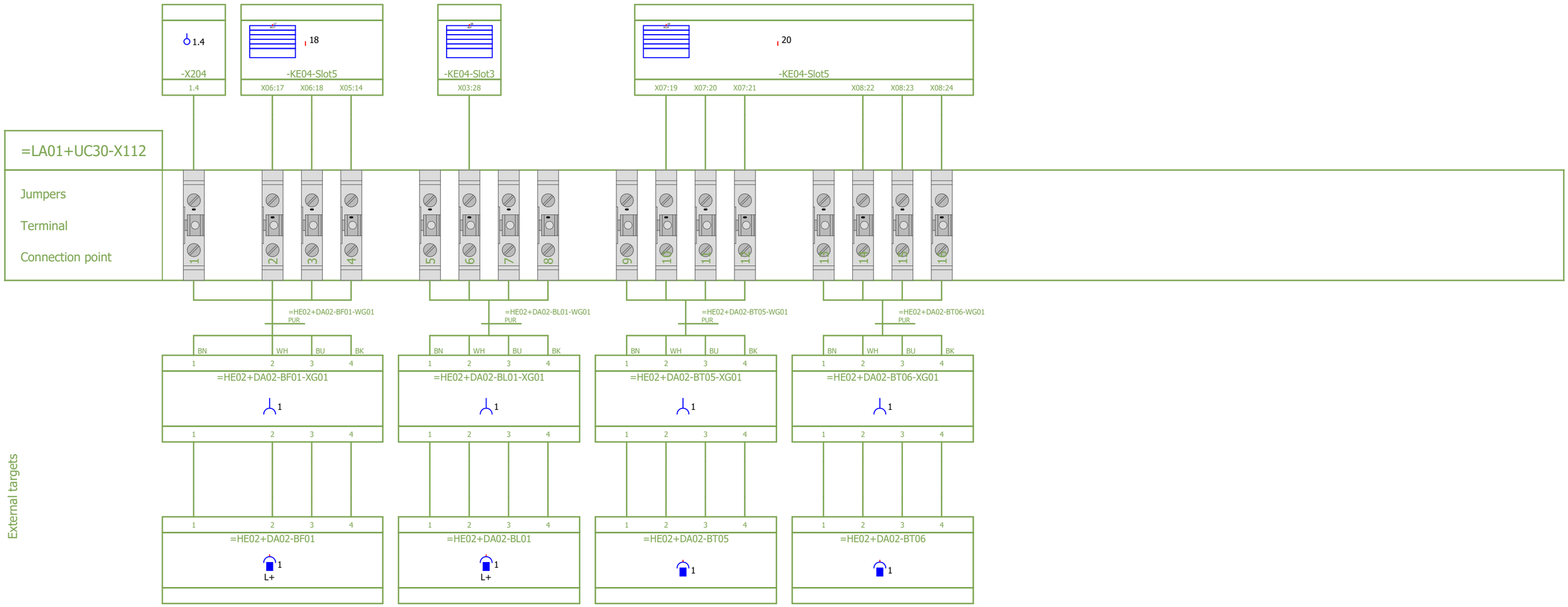
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DRAWING	K559-2254-CWIWP4202202-E03-003	REVISION	11
DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X111		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 69 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

REVISION INFORMATION
DESCRIPTION
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03-Sep-25

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SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X112		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 70 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets

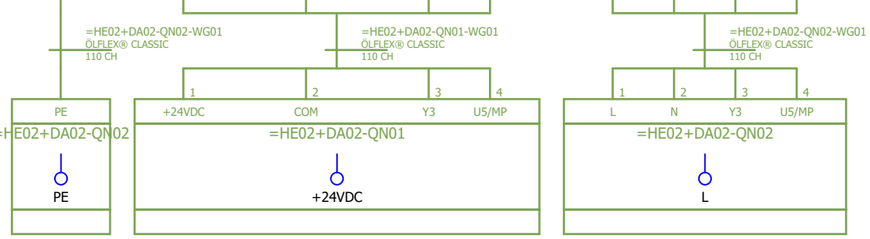
=LA01+UC30-X113

Jumpers

Terminal

Connection point





External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
EPLAN Project Pages	629		
=	++	+ UC30	& C04

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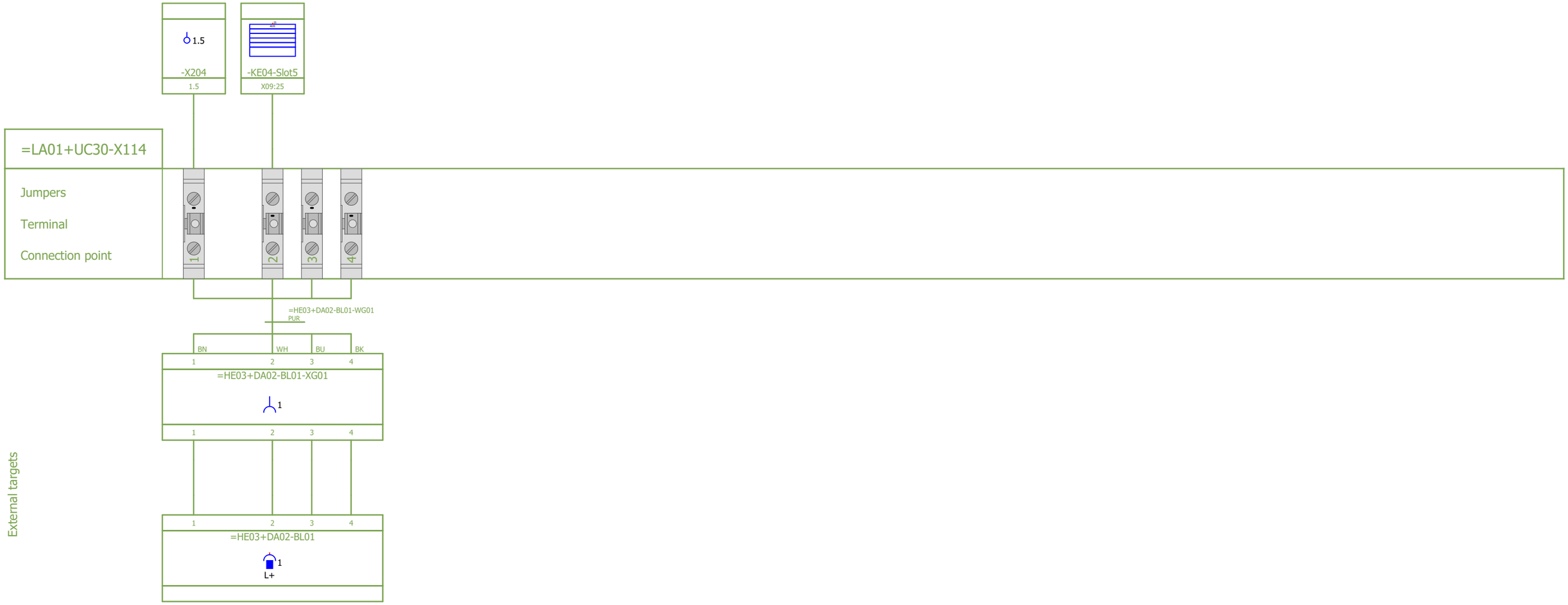
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X113		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 71 / 82

FRM5103656/0B

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

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EPLAN Revision	11		
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=	++	+ UC30	& C04

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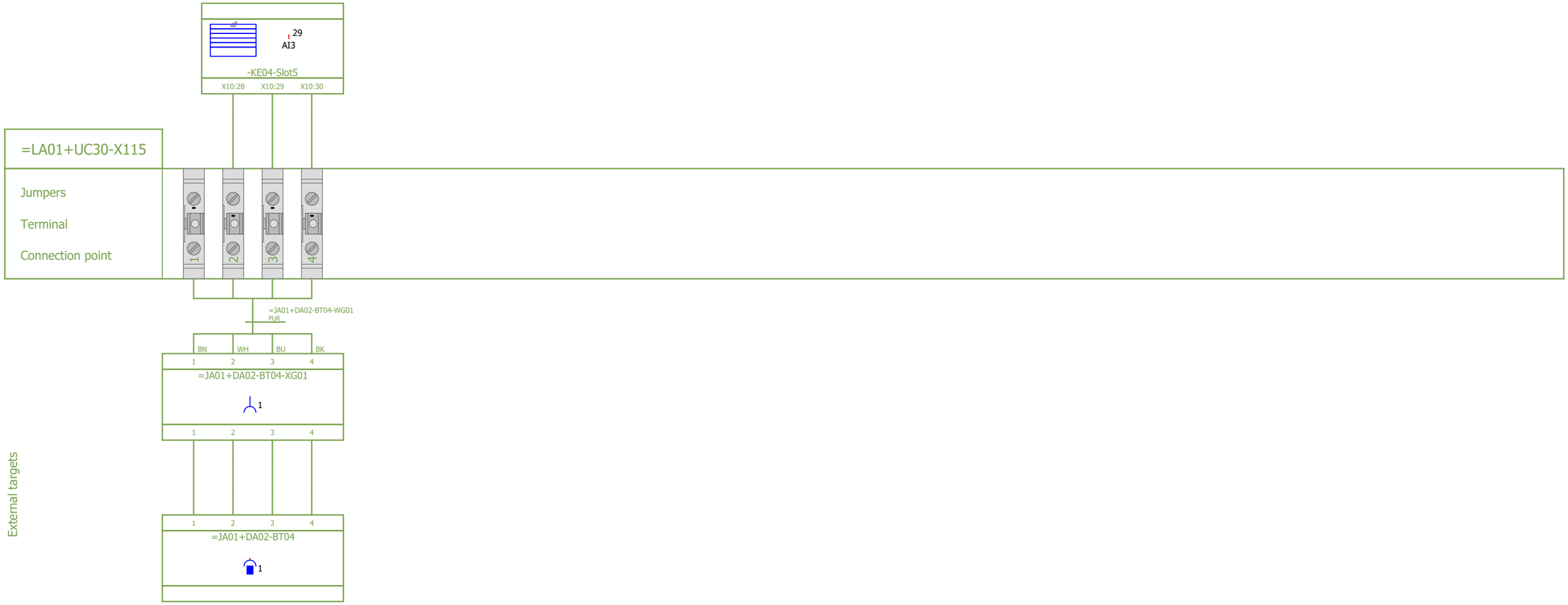
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ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 72 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
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EPLAN Revision	11		
EPLAN Project Pages	629		
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DRAWING TITLE	Crosswind UC30 Coolant Skid Control Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X115		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 73 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets

OUT1
-FC201
OUT1

=LA01+UC30-X201

Jumpers
Terminal
Connection point



24
-KF10
24

External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	11		
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ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 74 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets

0V1
-FC201
0V1

=LA01+UC30-X201-

Jumpers
Terminal
Connection point



34
-KF10
34

External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
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EPLAN Project Pages	629		
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SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X201-		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 75 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets

=LA01+UC30-X202

Jumpers

Terminal

Connection point

-FC202 (OUT1 / 0V1)

-FC200 (13 / 14)

-FC11 (12 / 14 / 11)

-RB30 (1)

-KF110-U1 (2) — U1:2 / U1:1

-XD01 (2) — 2 / 1 — 2:V1+ / 1:V1-

+UC42-TF01 (32) — 32 / 31

-X116 (1) — 1:3 / 2:4 — 1:2 / 2:1

External targets

-FC31 (12 / 14 / 11) — 11 / 12 / 14

=HE01-KE04-Slot3 (21) — X03:21

-FC21 (12 / 14 / 11) — 11 / 12 / 14

-TA19 (6) — 6 / 7

-TA29 (6) — 6 / 7

-KF120 (3) — X01:3 / X01:2

-X116 (5) — 5:2 / 5:3

=HA01+DA02-BL01-WG01
PUR
BN

=HA01+DA02-BL01-XG01 (1) — 1 / 1

=HA01+DA02-BL01 (1) — 1 — L+

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
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=	++	+ UC30	& C04

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ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 76 / 82

FRM5103656/0B

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

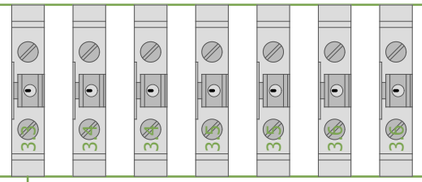
Internal targets

=LA01+UC30-X202

Jumpers

Terminal

Connection point



A2 A1

-QA10

A1

A2

External targets

Reference Item Number	Ballard Part # TBD		
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ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 77 / 82

FRM5103656/0B

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets

+24VDC
=HE01+DA02-QN01
+24VDC
1

=HE01+DA02-QN01-WG01
ÖLFLEX® CLASSIC
110 CH

OUT1
-FC203
OUT1

1:3
1
-X111
1:2

=LA01+UC30-X203

Jumpers
Terminal
Connection point

External targets

1:2
-X110
1
1:3

=HE01+DA02-BF01-WG01
PUR
BN

1
=HE01+DA02-BF01-XG01
1
1

1
=HE01+DA02-BF01
1
L+

Reference Item Number	Ballard Part # TBD		
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=	++	+ UC30	& C04

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SHEET TYPE/DESC	Terminal-connection diagram =LA01+UC30-X203		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 78 / 82

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets

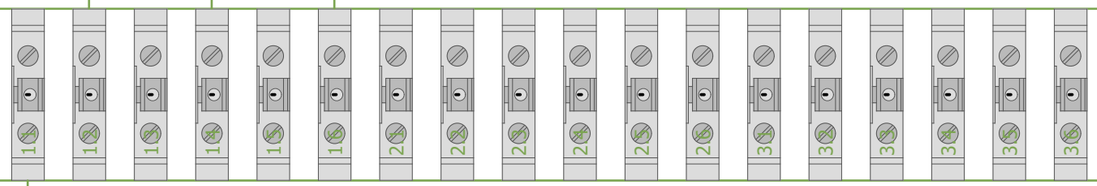
COM
=HE01+DA02-QN01
COM
2

=HE01+DA02-QN01-WG01
ÖLFLEX® CLASSIC
110 CH

0V1	2:4	2	10
-FC203	-X111		-KE04-Slot4
0V1	2:1		X02:10

=LA01+UC30-X203-

Jumpers
Terminal
Connection point



External targets

3:2
-X110
3
3:3

=HE01+DA02-BF01-WG01
PUR
BU

3
=HE01+DA02-BF01-XG01
3
3

3
=HE01+DA02-BF01
3
L-

Reference Item Number	Ballard Part # TBD		
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FRM5103656/0B

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets

1
1
=HE02+DA02-BF01-XG01
1
BN
=HE02+DA02-BF01-WG01
PUR

OUT1
-FC204
OUT1

1:3
1
-X112
1:2

=LA01+UC30-X204

Jumpers
Terminal
Connection point

11 11 11 11 11 11 21 21 21 21 21 21 31 31 31 31 31 31

External targets

1:2
-X114
1
1:3

1:2
-X113
1
1:3

=HE03+DA02-BL01-WG01
PUR
=HE02+DA02-QN01-WG01
ÖLFLEX® CLASSIC
110 CH

BN
1
=HE03+DA02-BL01-XG01
1
1

1
+24VDC
=HE02+DA02-QN01
+24VDC

1
=HE03+DA02-BL01
1
L+

Reference Item Number	Ballard Part # TBD		
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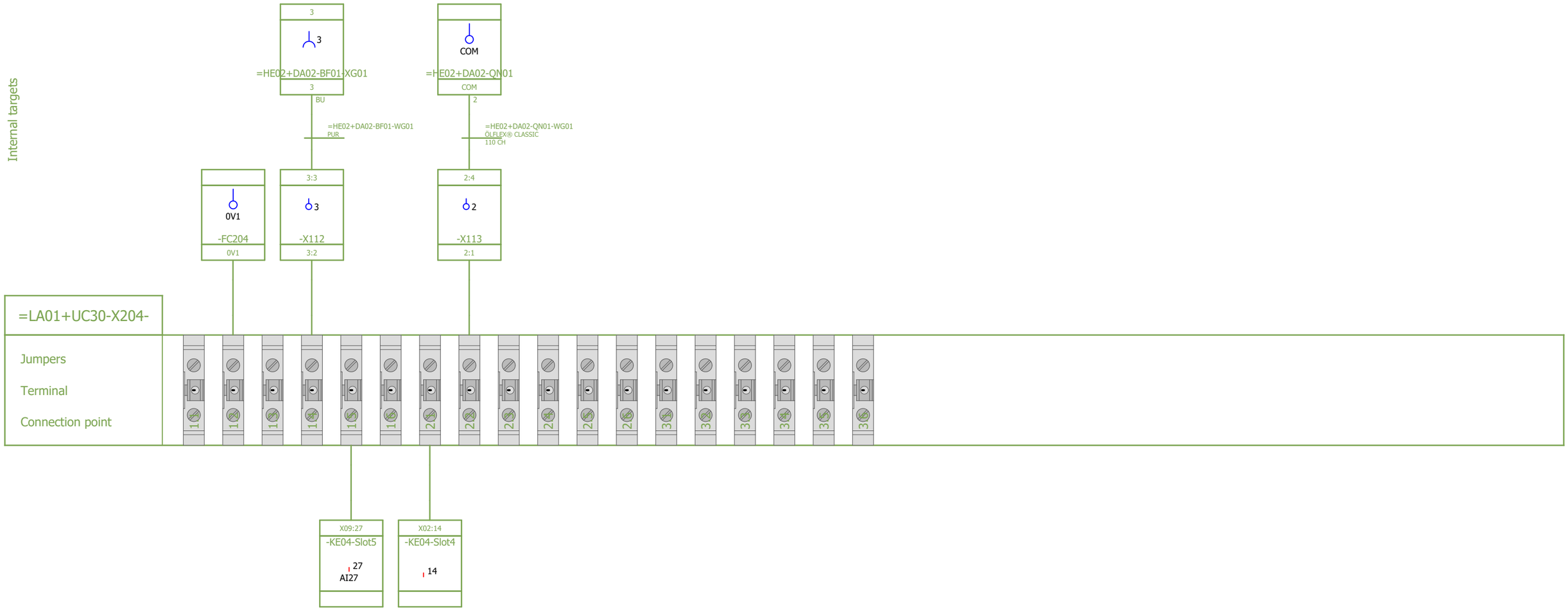
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Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



External targets

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FRM5103656/0B

Terminal-connection diagram

F11_001
PETBLA 03-Sep-25

Internal targets



=HKN70-WG03

=LB02+UC30-XD03

Jumpers	
Terminal	
Connection point	1

External targets

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EPLAN Revision	11					THIS DOCUMENT'S APPROVAL IS MANAGED BY E-SIGNATURE ON FILE IN BALLARD POWER SYSTEMS' PLM SYSTEM		SHEET TYPE/DESC	Terminal-connection diagram =LB02+UC30-XD03		
EPLAN Project Pages	629						ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 82 / 82
=	++	+ UC30	& C04	DATE						
				03-Sep-25						

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