Ballard Power Systems Europe A/S
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Denmark

Revision history		
Rev.	**Date.**	**Description**
001	05/06/2024	First Issue

Document Title:	**BLPH Project - Panel Cabinet Layout: UC41 Coolant Skid VFD Cabinet**
Document Number:	K559-2254-CWIWP4202202-E03-005
Revision:	Rev001
Sequence Number:	005
File Name:	K559-2254-CWIWP4202202-E03-005Rev001
Purchaser Job:	K559-2254
Purchase Order:	CWIWP4202202
Code:	E03
Requsition Number:	n/a
Customer:	CrossWind C.V., Rotterdam, The Netherlands

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+UC41

Ballard Power Systems Europe - Technology Solutions

Cabinet: Coolant Skid Inverter Cabinet
Location: Coolant Skid, Middle Rear

Vin = 400VAC, 3ph

Ikmax = 6kA - AC Supply

IP56

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& A01

REVISION INFORMATION
DESCRIPTION
DATE
05-Jun-24

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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Front Page		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 1 / 18

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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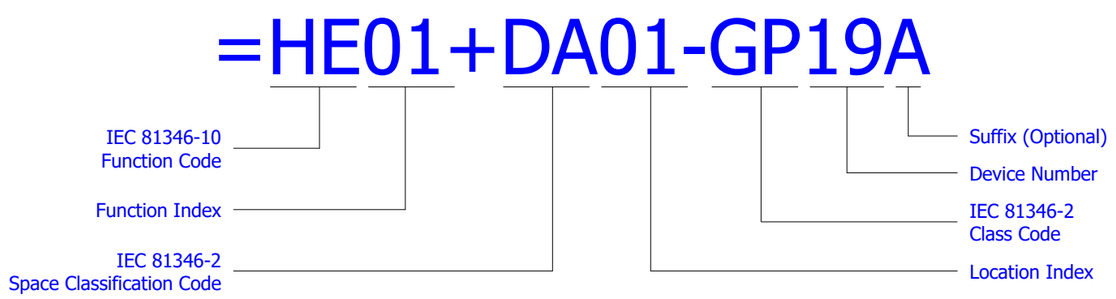
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Standard Wire Colors		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 2 / 18

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	01.P15
EPLAN Project Pages	478
= ++ + UC41 & A01	

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DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Tagging Standard		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 3 / 18

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	UC41	3	Tagging Standard	05-Jun-24
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	UC41	1	Multiline Documentation Intro	05-Jun-24
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	UC41	14	AC Power - TA23	05-Jun-24
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	UC41	4	Terminal-connection diagram =HE01+UC41-X01	05-Jun-24
	UC41	5	Terminal-connection diagram =HE01+UC41-XD40	05-Jun-24

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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Table of contents : +UC41&A01/1 - +UC41&C04/5		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 4 /

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Multiline Documentation

Reference Item Number	Ballard Part # TBD		
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EPLAN Revision	01.P15		
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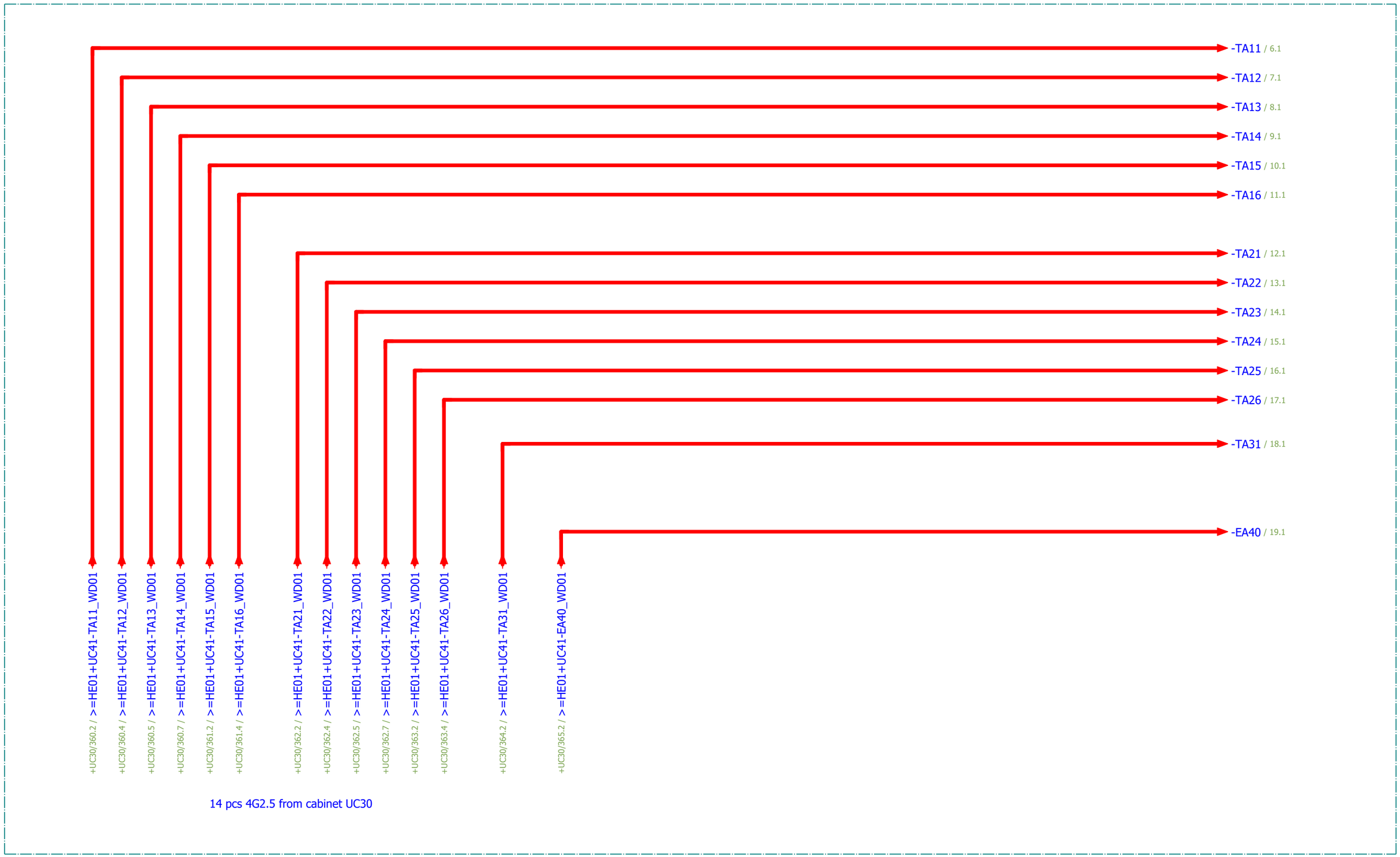
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DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Multiline Documentation Intro		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 1 / 2

0	1	2	3	4	5	6	7	8

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EPLAN Project Pages	478		
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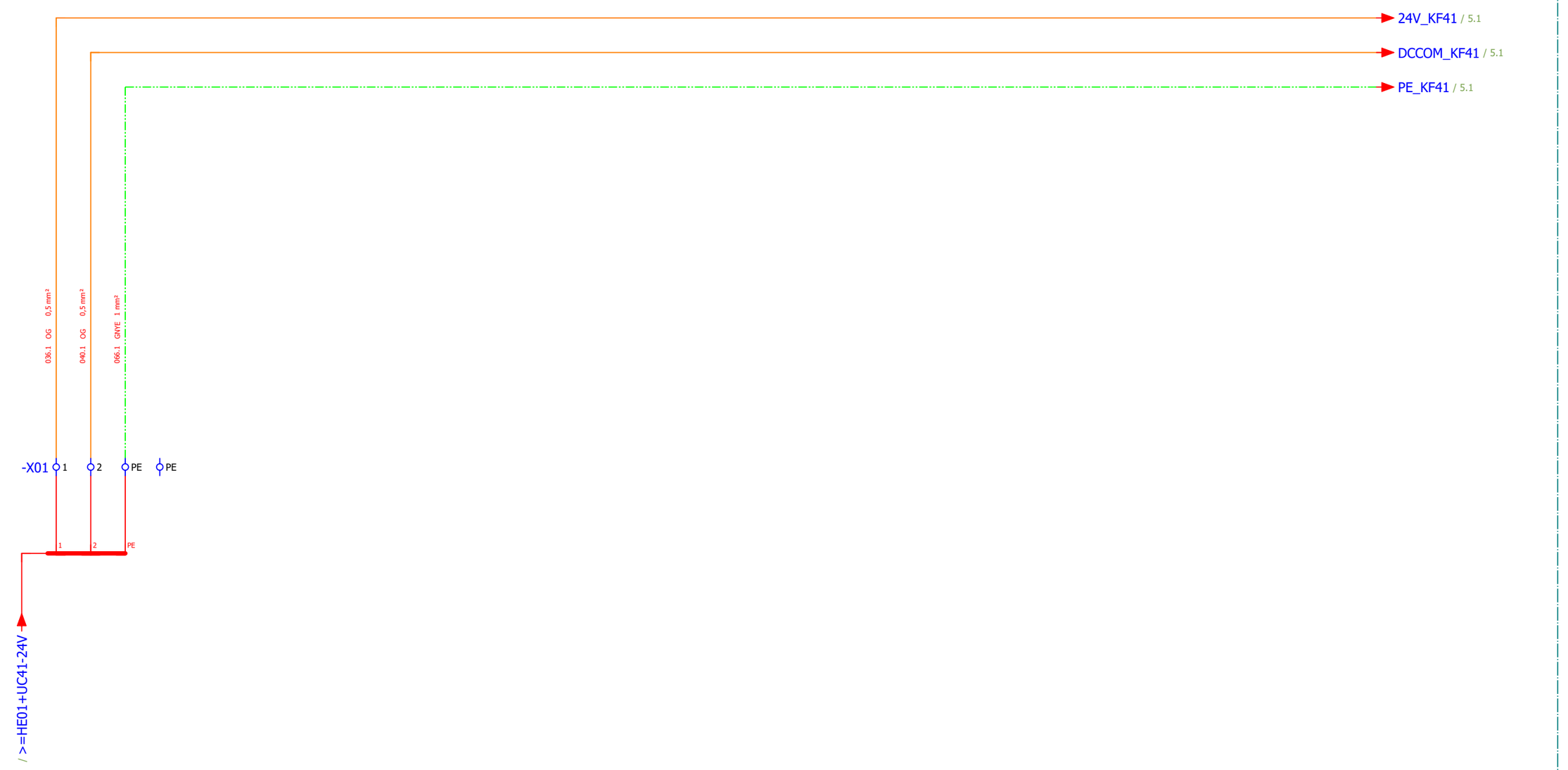
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DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - Incomming		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 2 / 18

=HE01



From Coolant Skid Control Cabinet (UC30)
3G1 - 24V Supply

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DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	DC Supply - Incomming		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 3 / 18

=HE01

-KF41_WG01 / 5.1

-EA40_WG01 / 19.1

-KF41-WG01
Cat.6A PUR
8x24
300 V
VFD Control Net

-EA40-WG01
UNITRONIC® BUS CAN UL/CSA
4x0,5
300 V
Air Chiller RS485 Bus

> =HE01+UC41-WG01 /

> =HE01+UC41-WG02 /

From Coolant Skid Control Cabinet (UC30)
1 pcs Ethernet
1 pcs RS485

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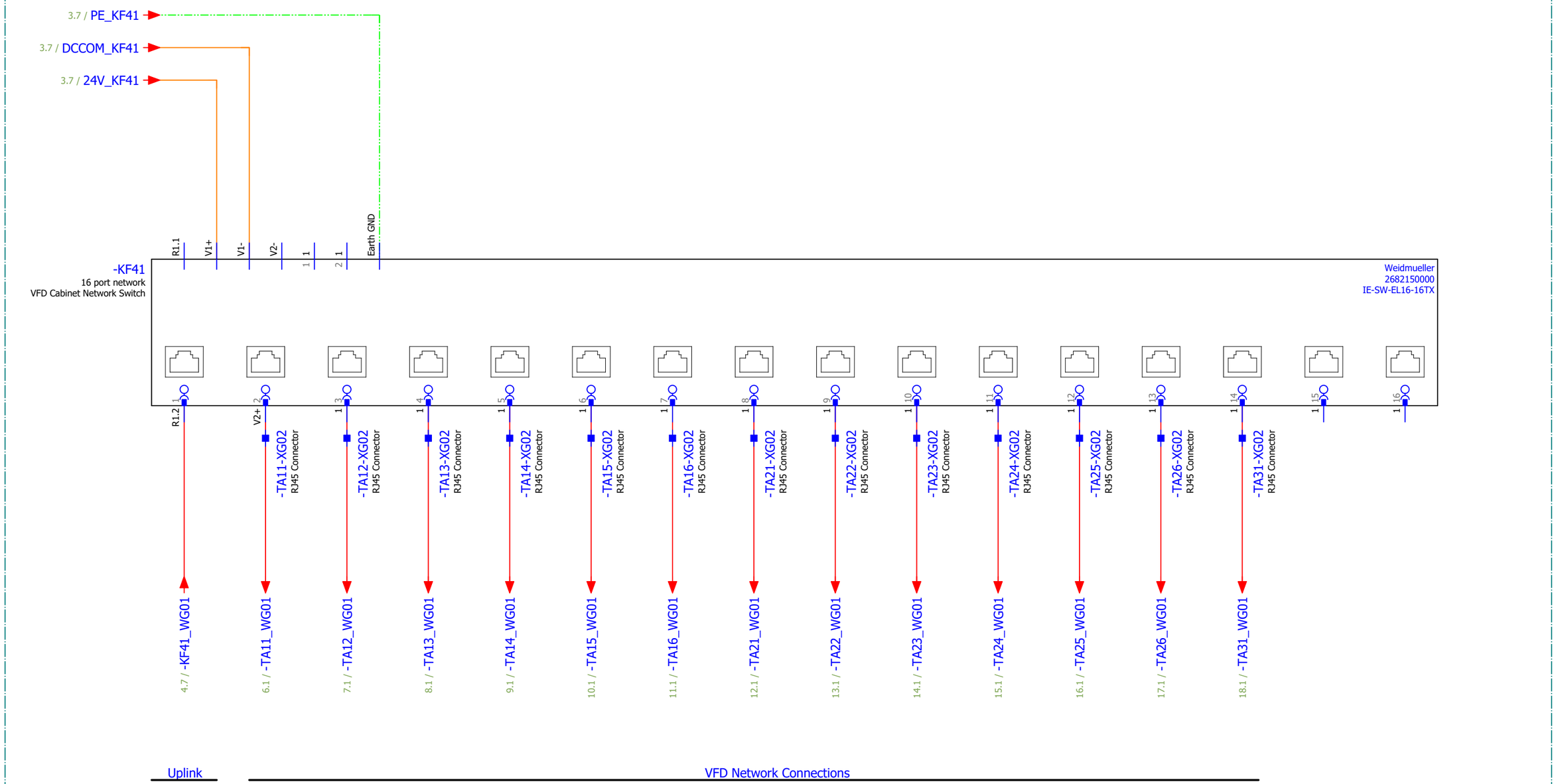
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DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Network - Incomming		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 4 / 18

=HE01



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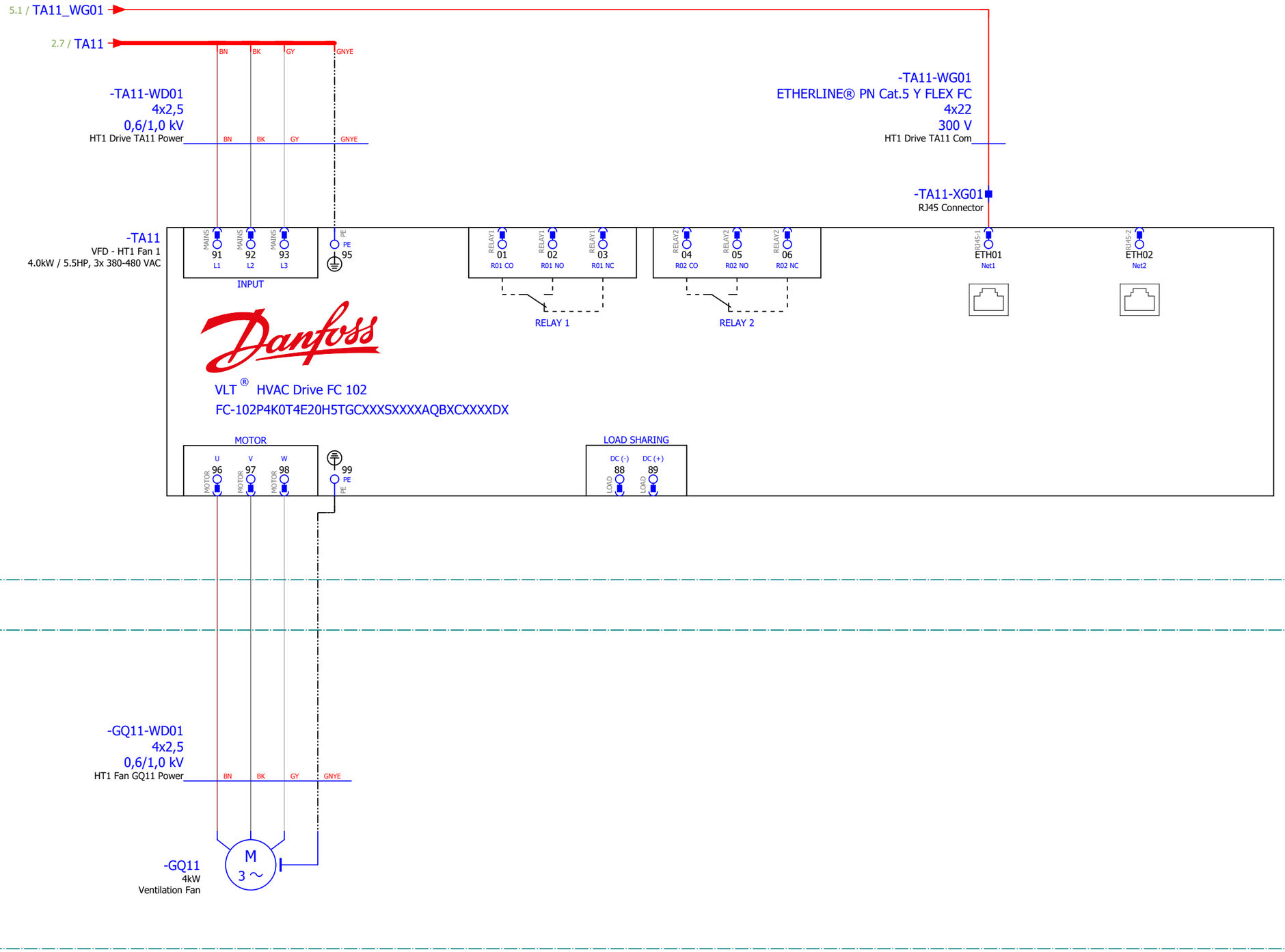
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DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Network - Switch		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 5 / 18

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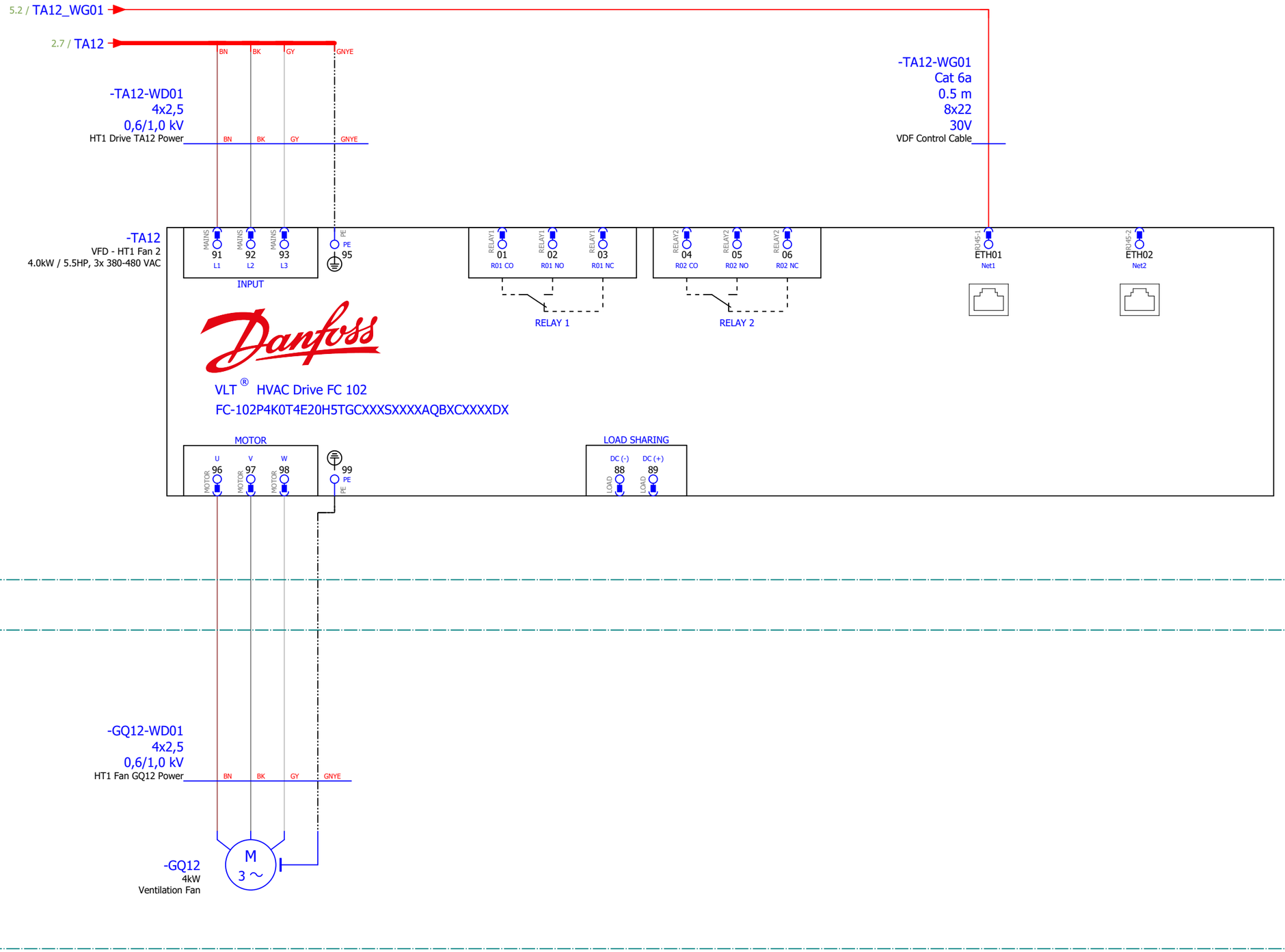
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DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA11		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 6 / 18

0	1	2	3	4	5	6	7	8

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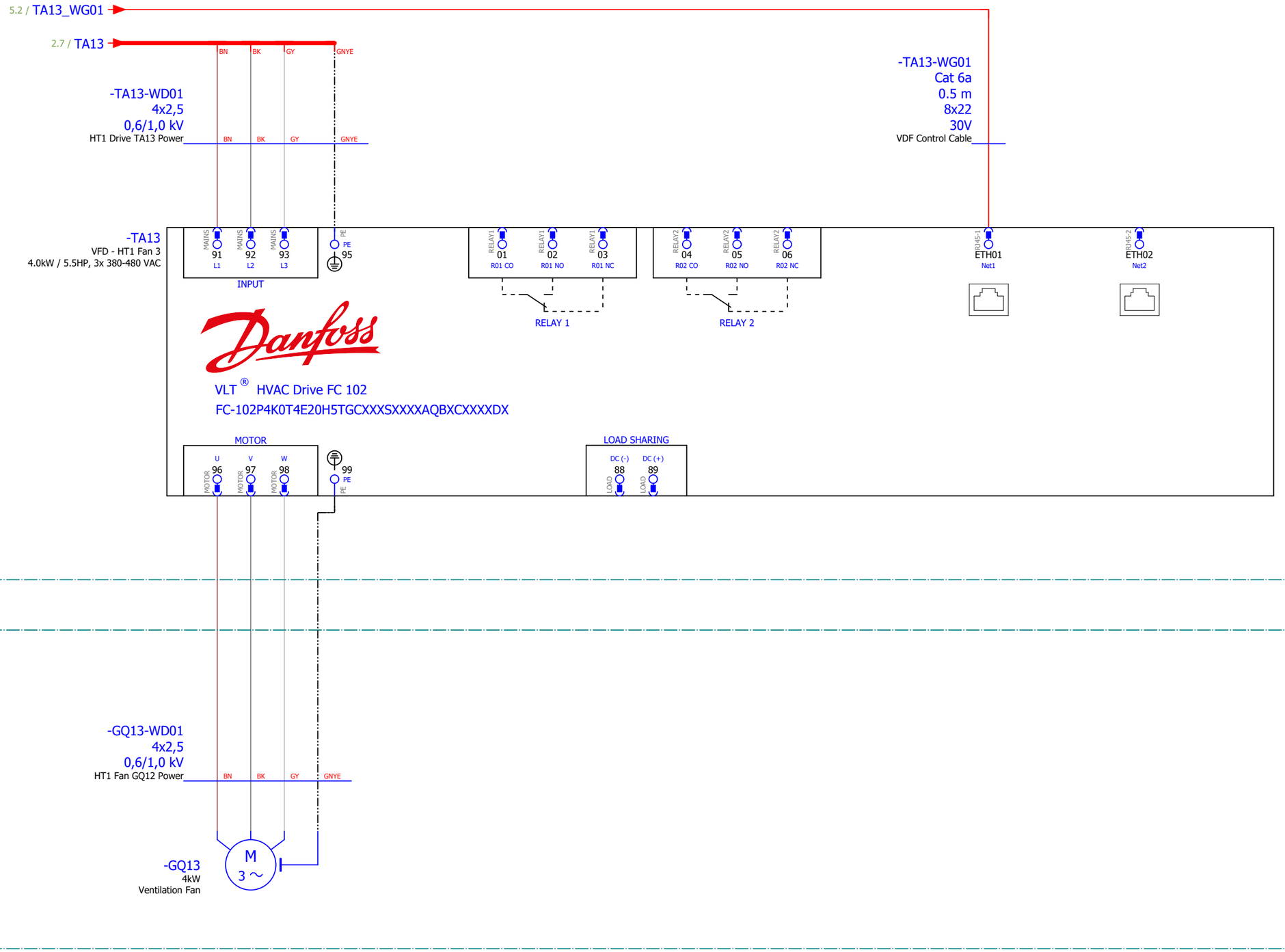
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SHEET TYPE/DESC	AC Power - TA12		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 7 / 18

0	1	2	3	4	5	6	7	8

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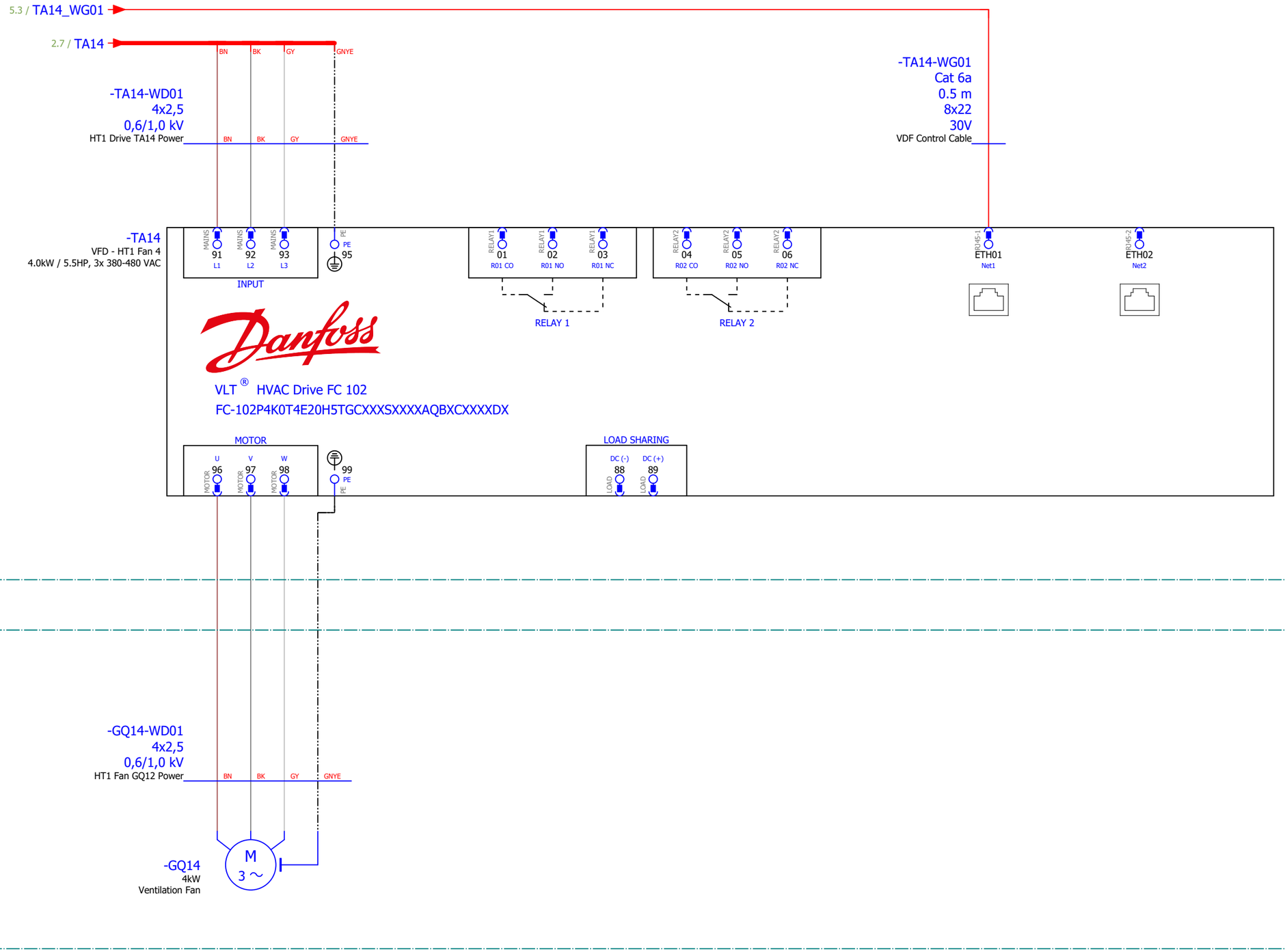
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet		REVISION	01.P15	
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet				
SHEET TYPE/DESC	AC Power - TA13				
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL	8 / 18	

0	1	2	3	4	5	6	7	8

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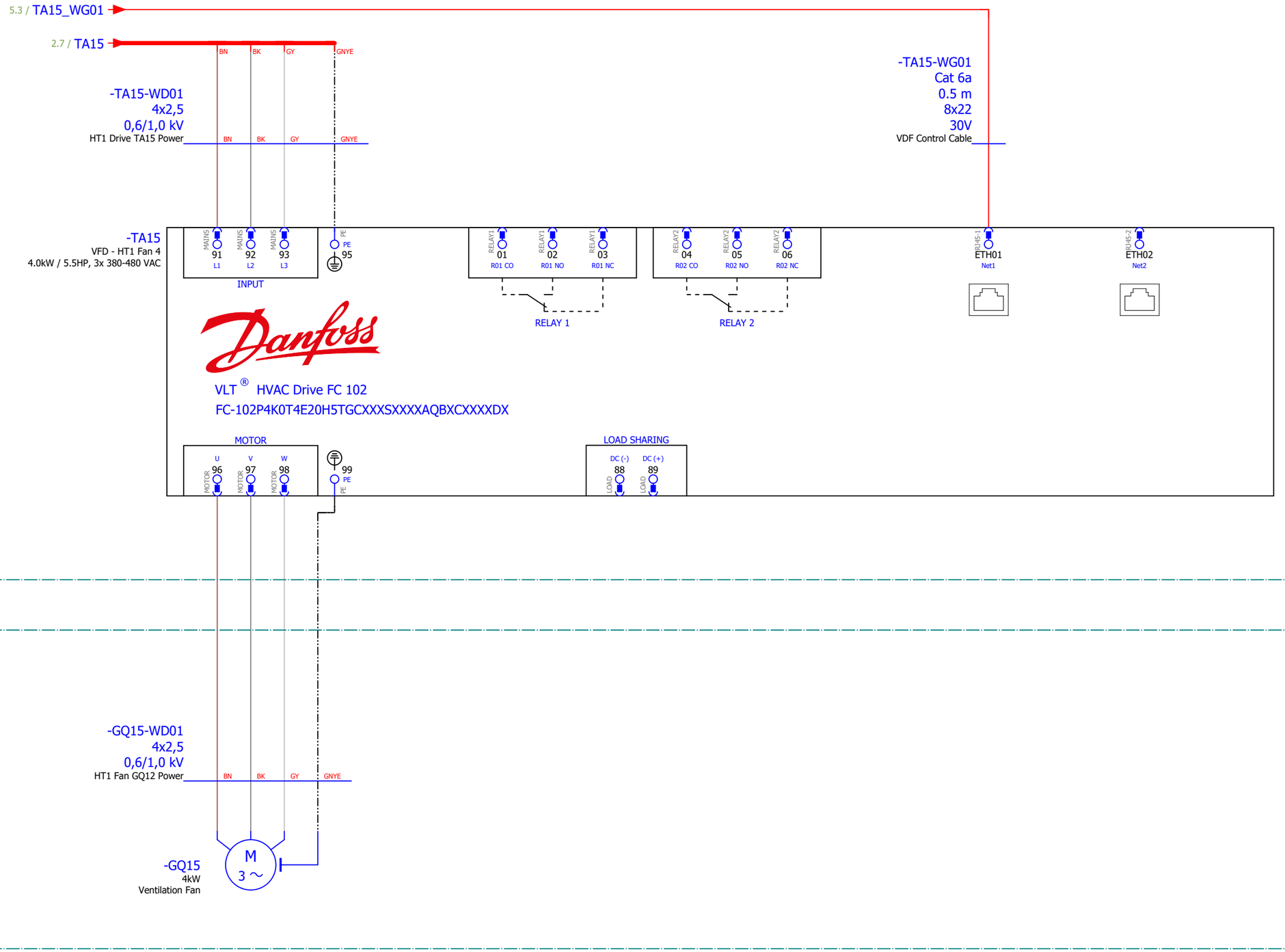
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA14		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 9 / 18

0	1	2	3	4	5	6	7	8

=HE01



=HE01+DA02
HT1 Cooler

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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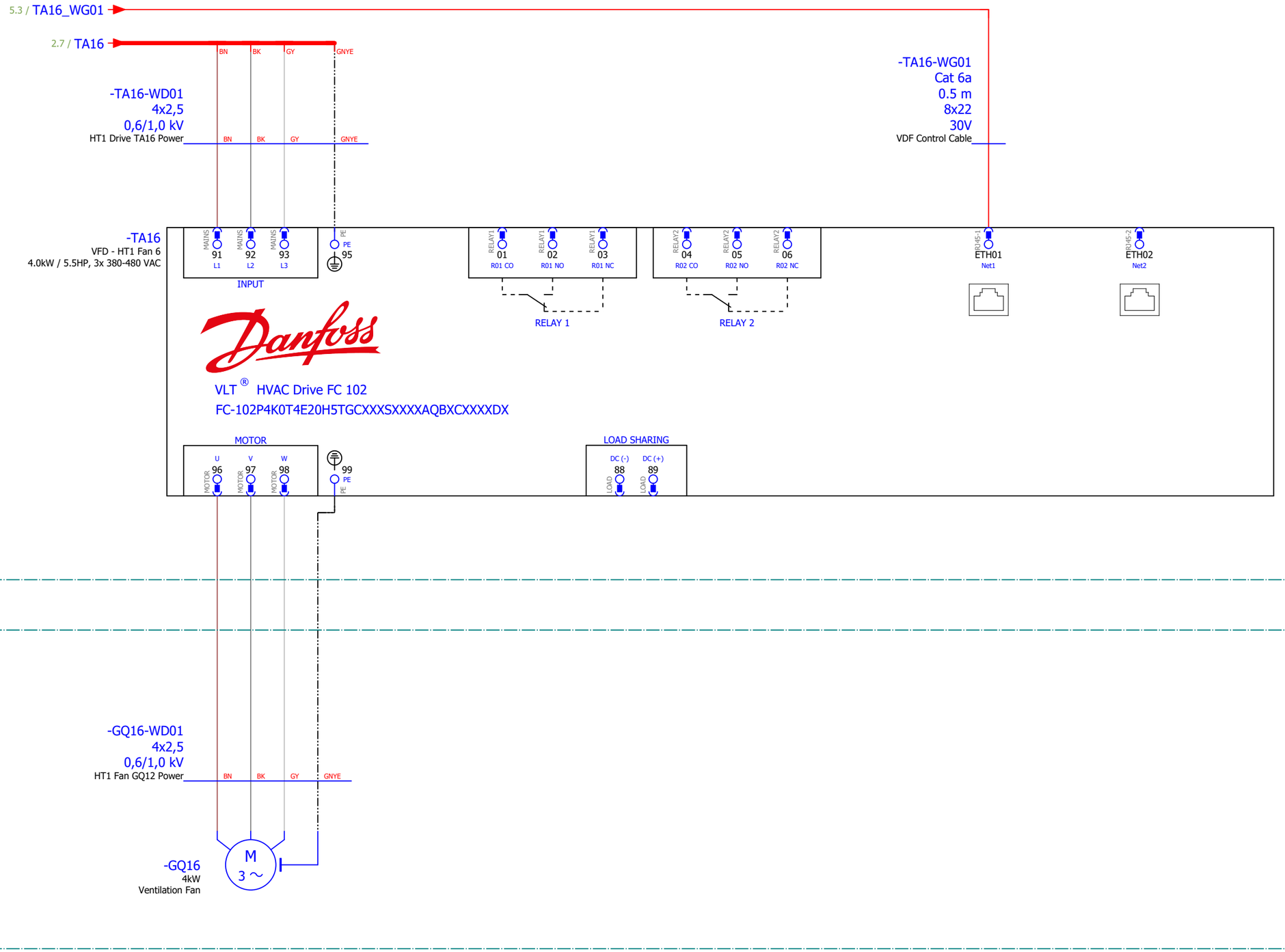
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA15		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 10 / 18

0	1	2	3	4	5	6	7	8

=HE01



=HE01+DA02
HT1 Cooler

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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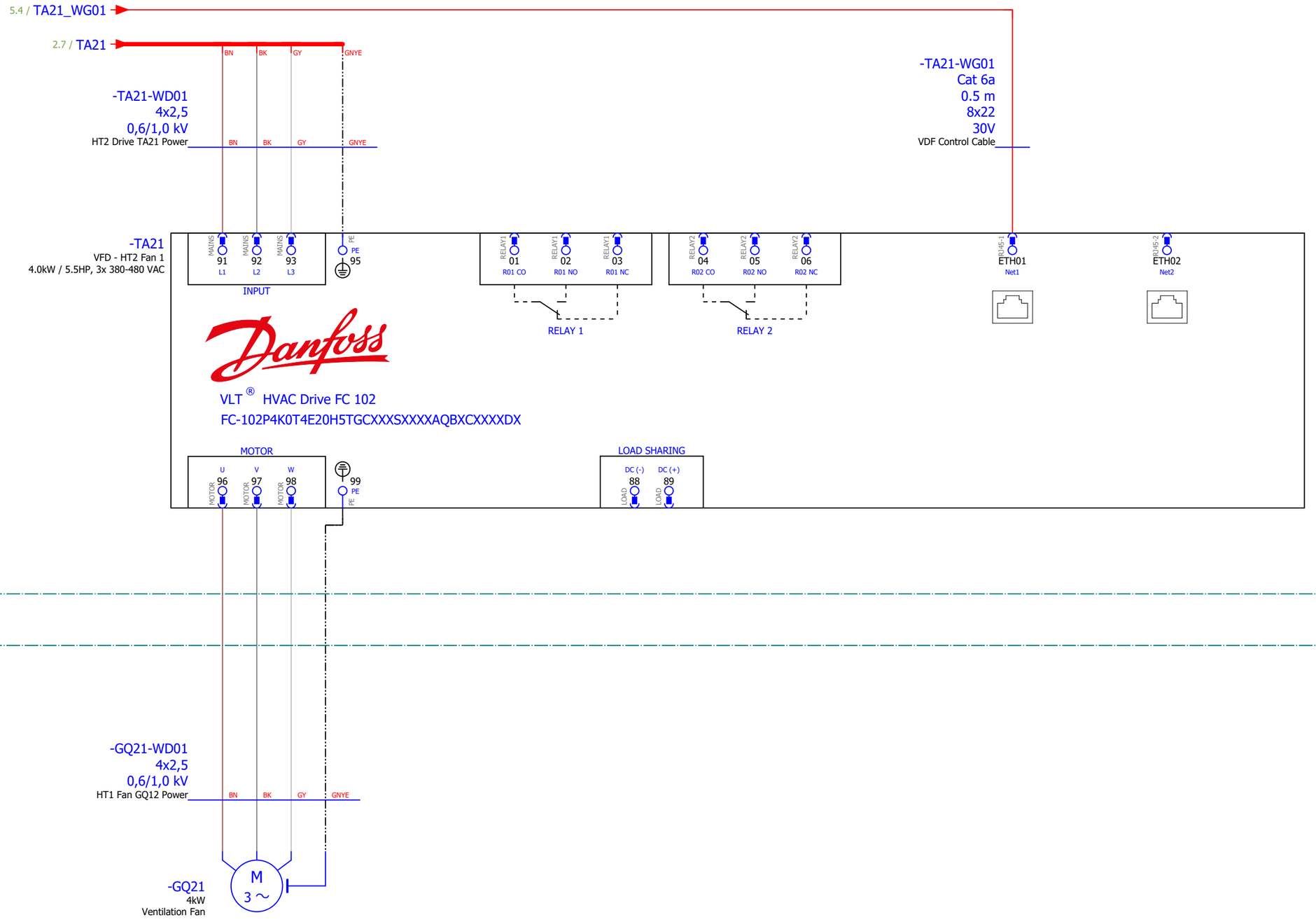
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA16		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 11 / 18

0	1	2	3	4	5	6	7	8

=HE01



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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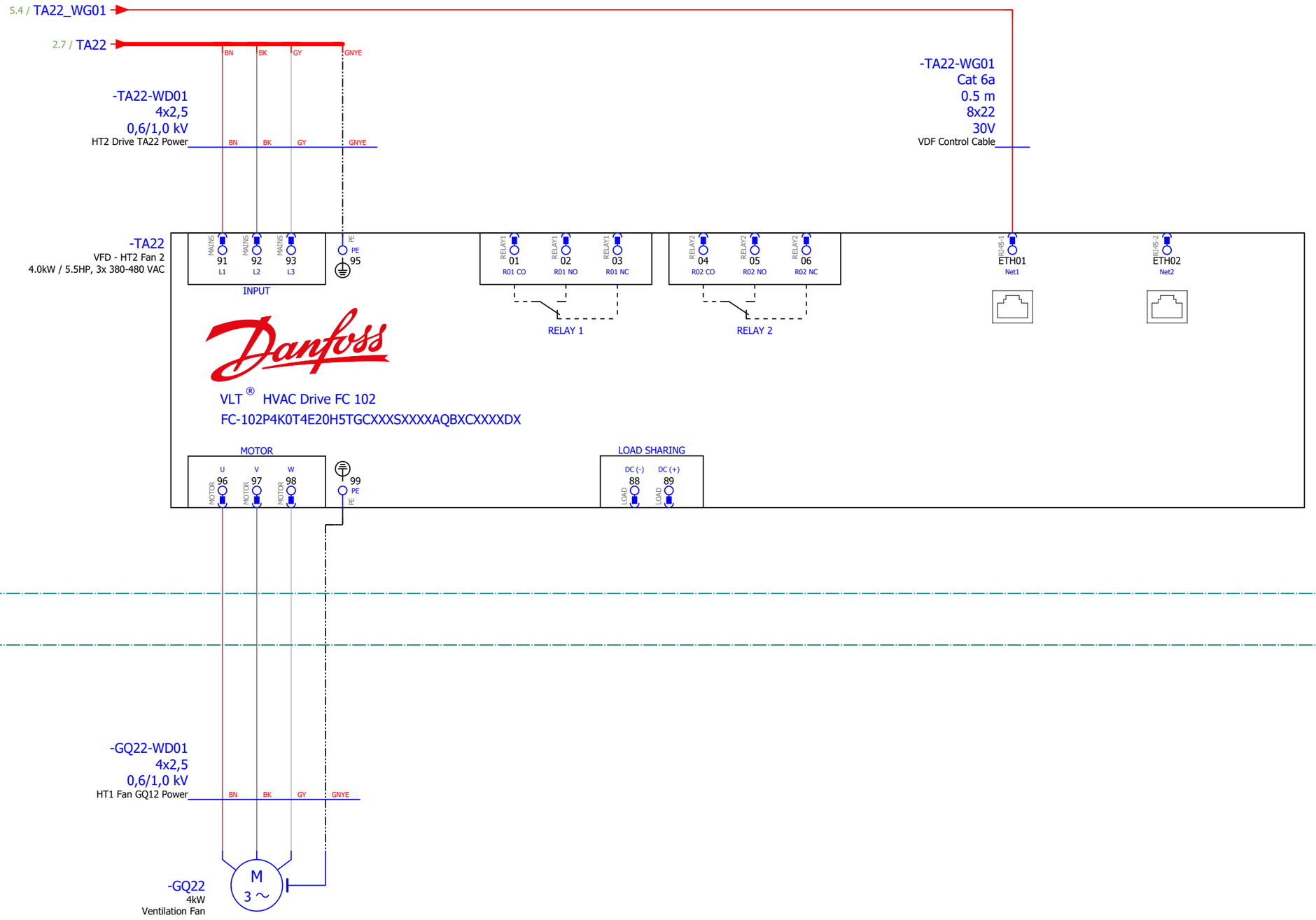
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet		REVISION	01.P15	
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet				
SHEET TYPE/DESC	AC Power - TA21				
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL	12 / 18	

0	1	2	3	4	5	6	7	8

=HE01



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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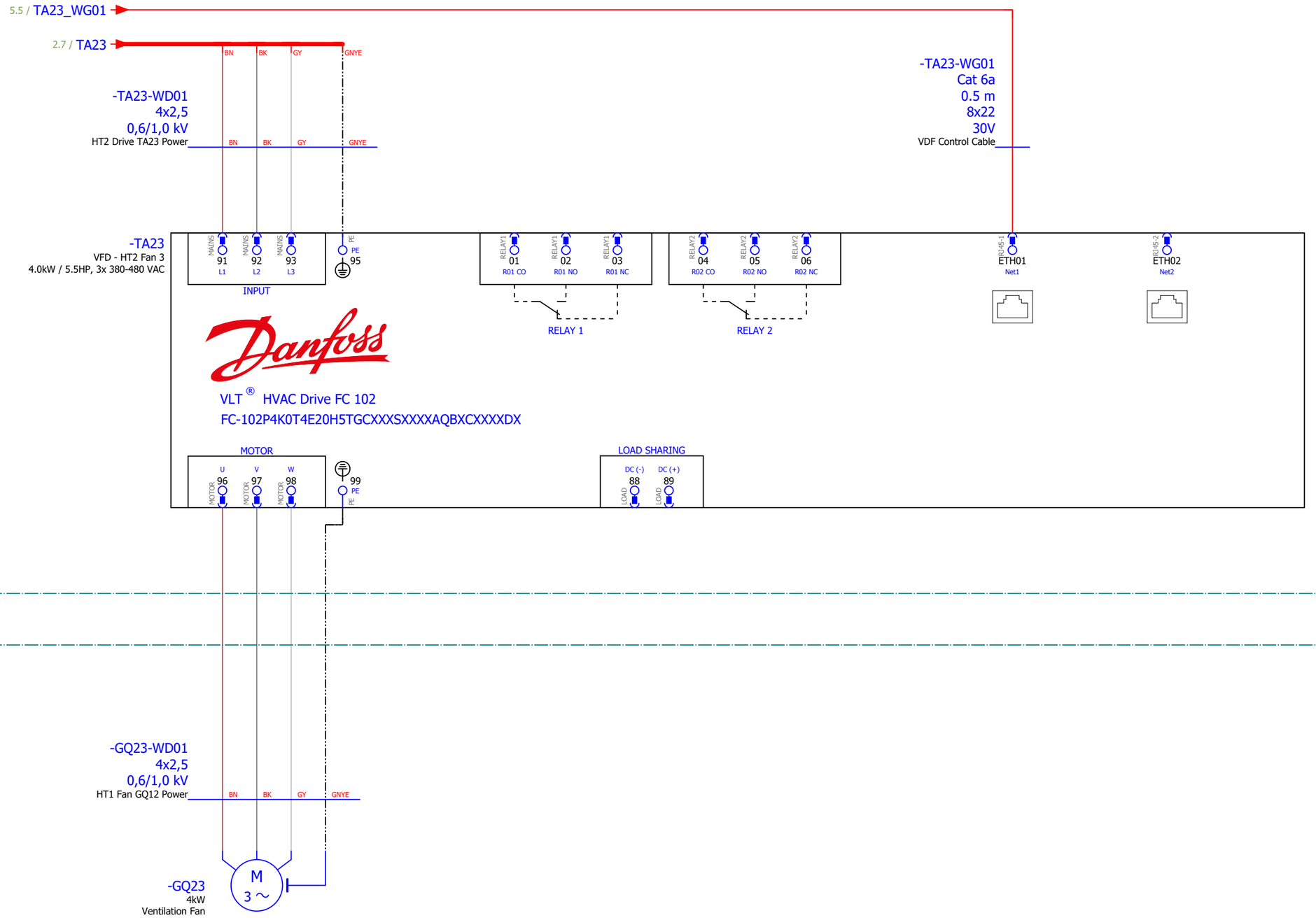
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA22		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 13 / 18

0	1	2	3	4	5	6	7	8

=HE01



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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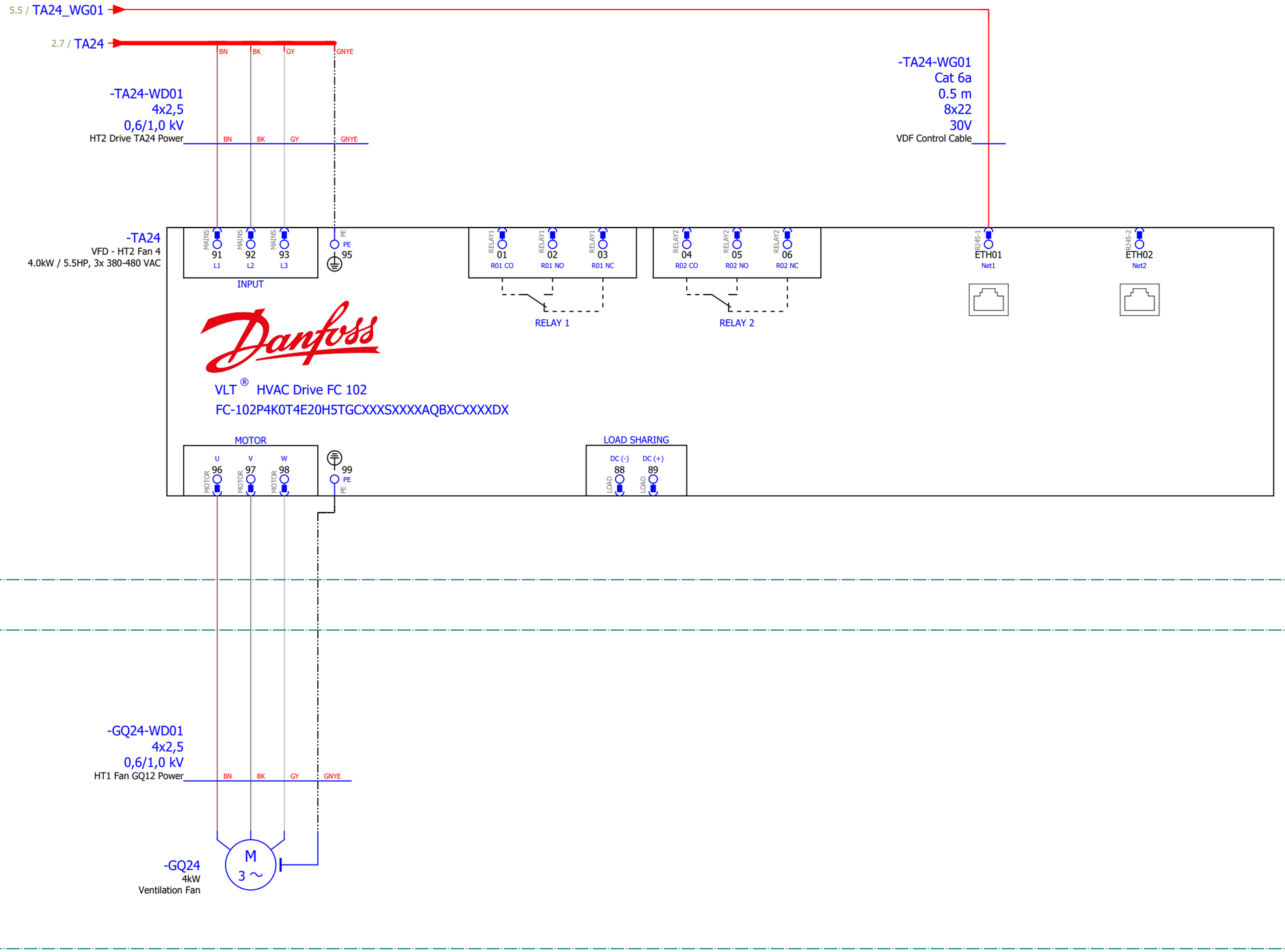
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA23		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 14 / 18

0	1	2	3	4	5	6	7	8

=HE01



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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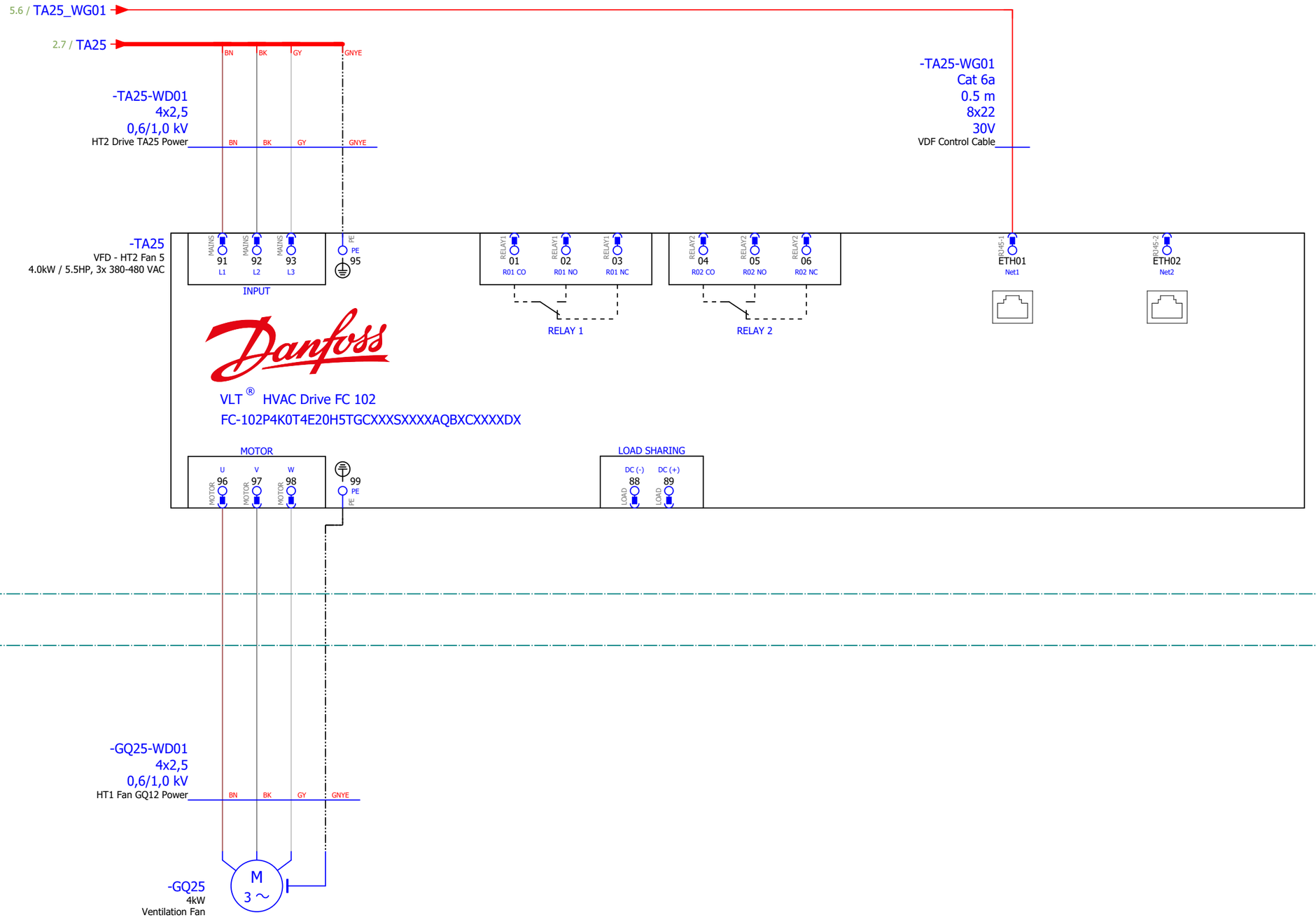
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA24		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 15 / 18

0	1	2	3	4	5	6	7	8

=HE01



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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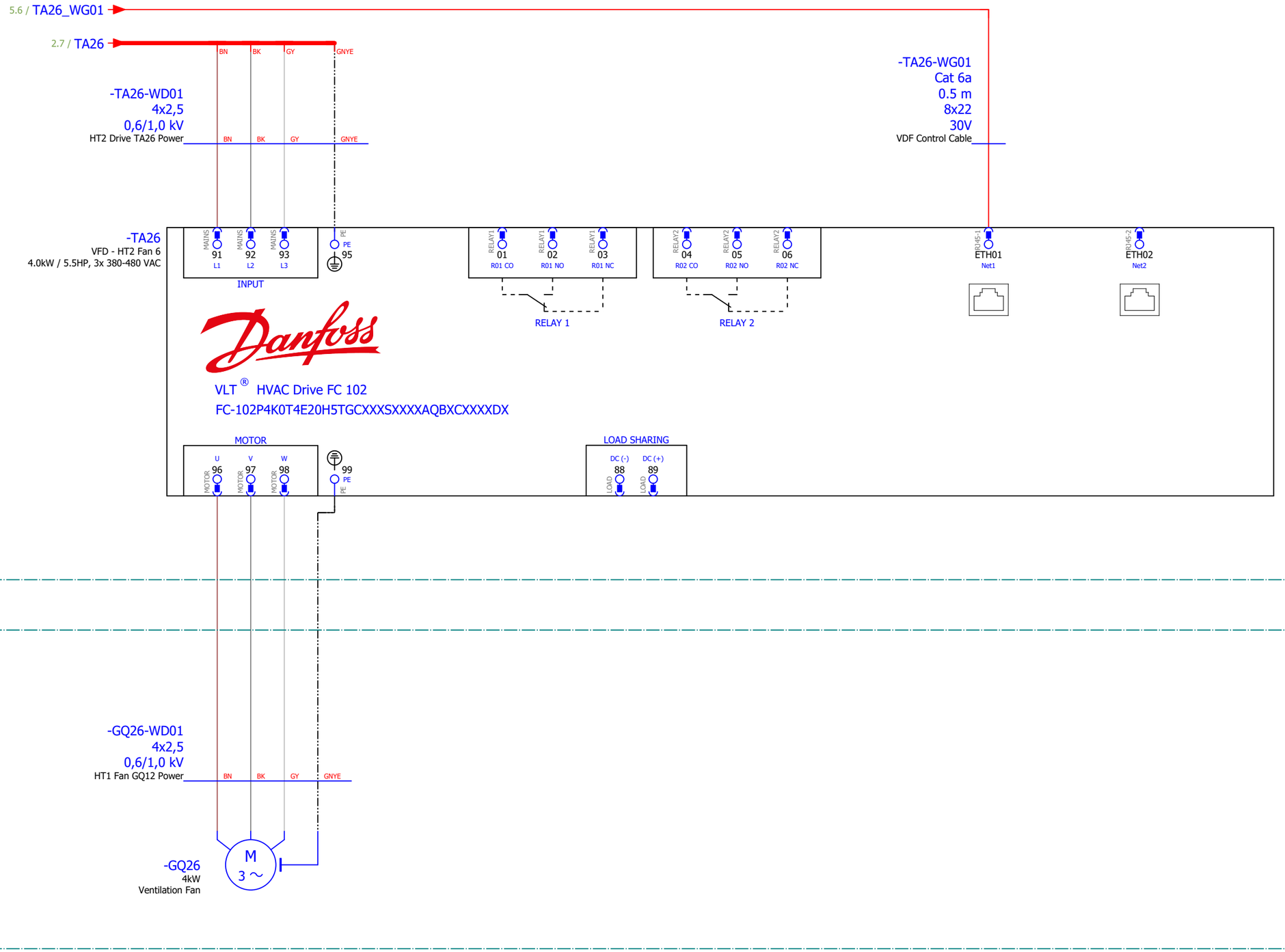
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA25		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 16 / 18

0	1	2	3	4	5	6	7	8

=HE01



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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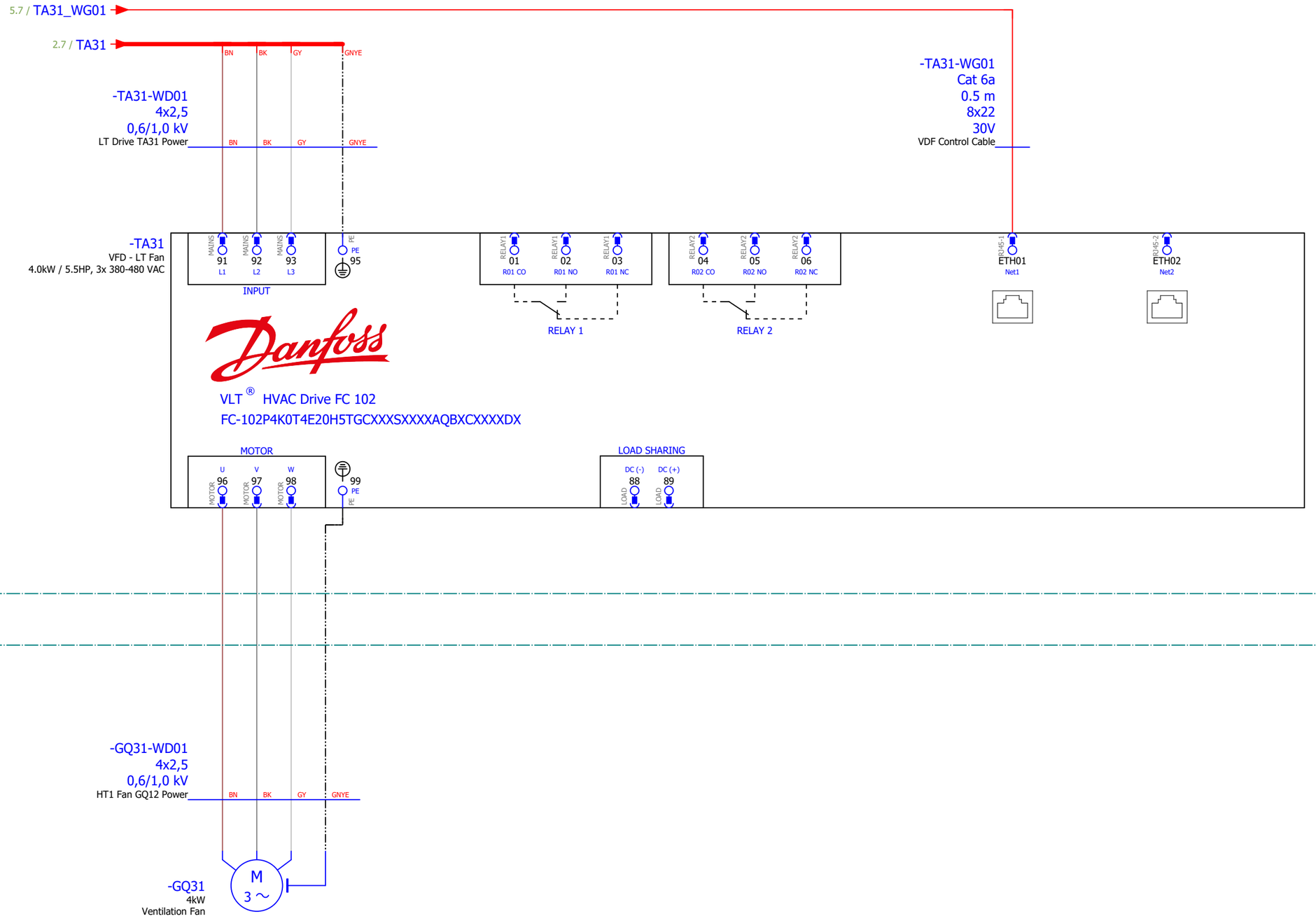
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA26		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 17 / 18

0	1	2	3	4	5	6	7	8

=HE01



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

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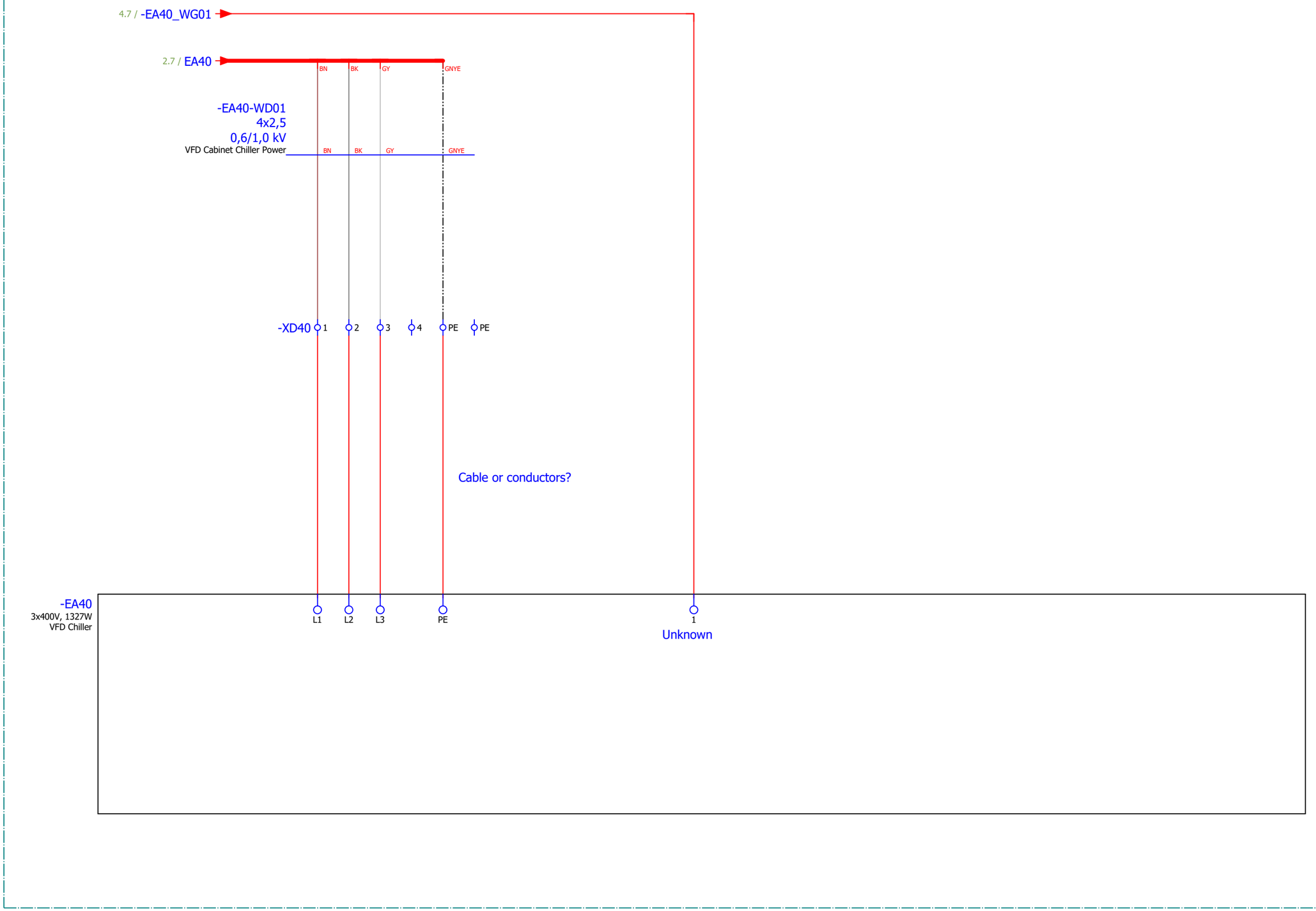
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - TA31		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 18 / 18

0	1	2	3	4	5	6	7	8

=HE01



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C03

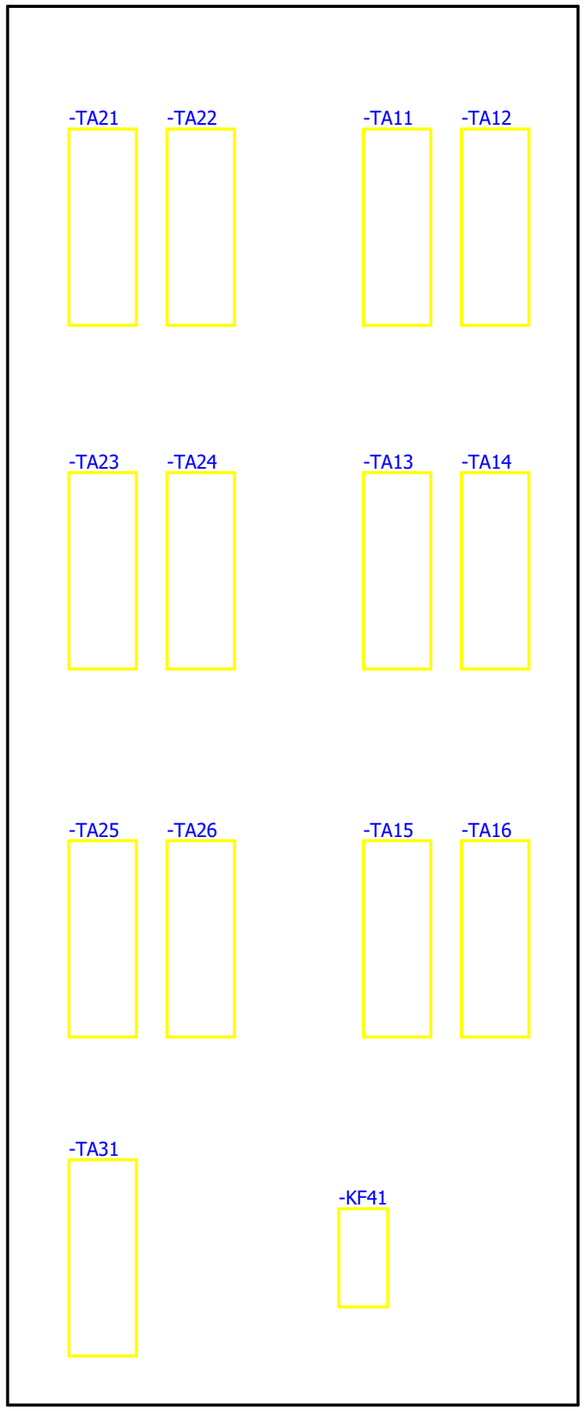
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	AC Power - Chiller		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 19 / 18



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C04

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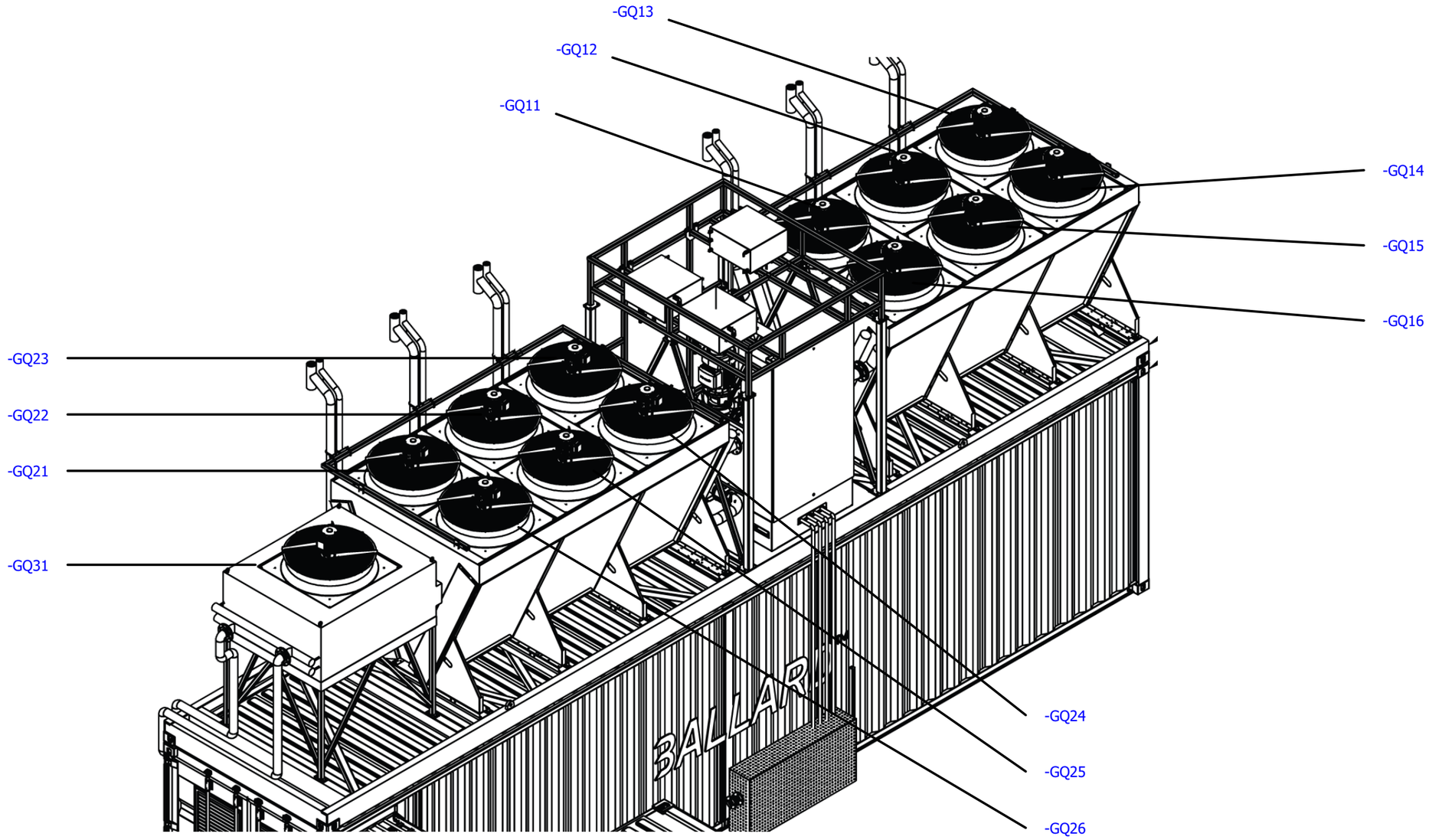
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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Front Page		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 1 / 18

FRM5103656/0B



Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C04

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DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Fan Overview		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 2 / 18

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	
=HE01-X01		1	PE	2	0	4	
=HE01-XD40		1	PE	2	0	6	

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
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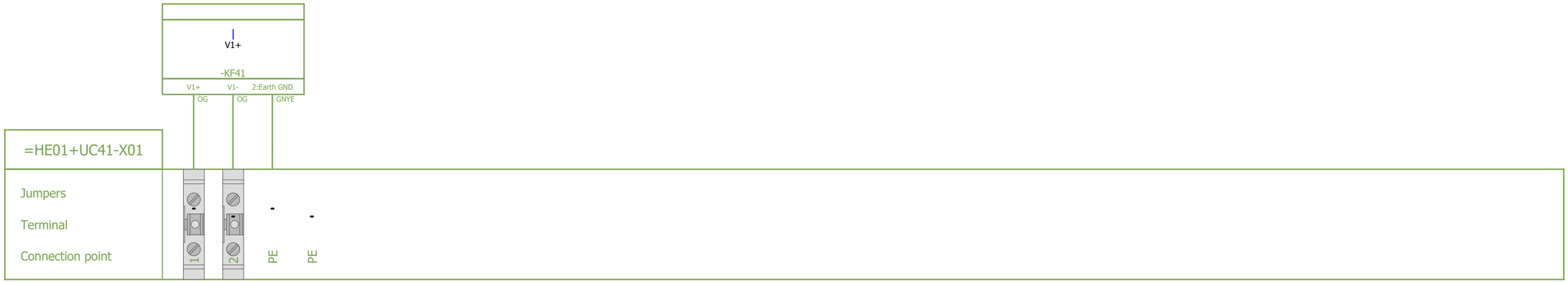
DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Terminal-strip overview : =HE01+UC41-X01 - =HE01+UC41-XD40		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 3 /

FRM5103656/0B

Terminal-connection diagram

F11_001
PBL 05-Jun-24

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
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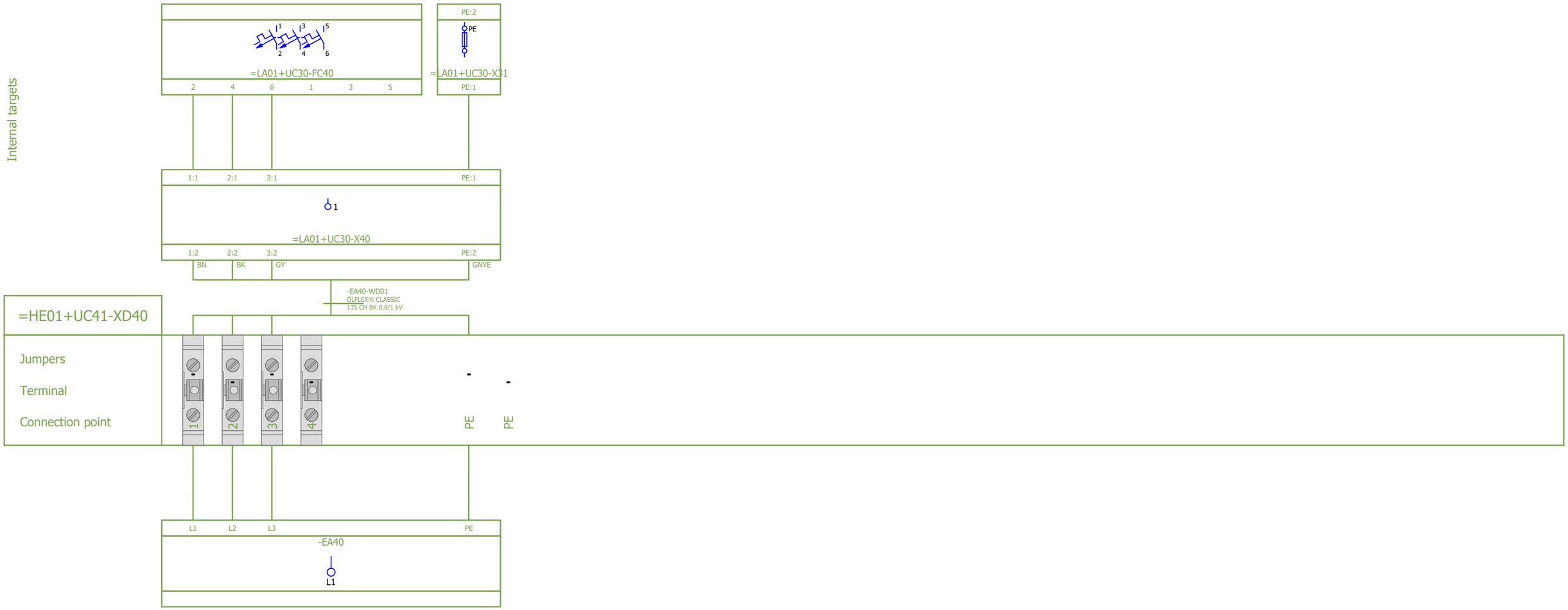
DRAWING	601456B UC41 Coolant Skid VFD Cabinet	REVISION	01.P15
DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =HE01+UC41-X01		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 4 /

FRM5103656/0B

Terminal-connection diagram

F11_001
PBL 05-Jun-24

Internal targets



External targets

Reference Item Number	Ballard Part # TBD		
EPLAN Project Name	601456B - Shell Baseload Power Hub		
EPLAN Revision	01.P15		
EPLAN Project Pages	478		
=	++	+ UC41	& C04

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DRAWING TITLE	Crosswind UC41 Coolant Skid VFD Cabinet		
SHEET TYPE/DESC	Terminal-connection diagram =HE01+UC41-XD40		
ALL SHEETS ARE THE SAME REVISION STATUS	SIZE A3	LANGUAGE EN	SHEET/TOTAL 5 /

FRM5103656/0B