BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING
WIRING DIAGRAM

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
FRONT PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 001

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

REFERENCE DOCUMENTS	
TITLE	DOCUMENT NUMBER
OVERALL KEY SINGLE LINE DIAGRAM	123A90–DDL–EL–DG–20158
LIGHTING & SOCKET CIRCUIT DIAGRAM	123A90–DDL–EL–DG–20125
ELECTRICAL POWER & CONTROL CABLE SCHEDULE	123A90–DDL–EL–LIS–20148
ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS	123A90–DDL–EL–DG–20160
ELECTRICAL SINGLE LINE DIAGRAMS DC UPS SYSTEM	123A90–DDL–EL–DG–20161
ELECTRICAL SINGLE LINE DIAGRAMS (DISTRIBUTION BOARDS, AC UPS, DC UPS, ETC.)	123A90–DDL–EL–DG–20162
ELECTRICAL HEAT TRACING (EHT) LAYOUTS	123A90–DDL–EL–DL–20140
SG–100D1 MV SWBD 6600V INCOMER – FUNCTIONAL DIAGRAM	1723002197–EL–DG–00015
SG–100D1 MV SWBD 6600V BESS FEEDER – FUNCTIONAL DIAGRAM	1723002197–EL–DG–00017
SG–100D1 MV SWBD 6600V ELECTROLYSER FEEDER – FUNCTIONAL DIAGRAM	1723002197–EL–DG–00018
SG–100D1 MV SWBD 6600V FUEL CELL FEEDER – FUNCTIONAL DIAGRAM	1723002197–EL–DG–00019
SG–100D1 MV SWBD 6600V TR–200ED1 – FUNCTIONAL DIAGRAM	1723002197–EL–DG–00020
SG–100D1 MV SWBD 6600V TR–200DE1 – FUNCTIONAL DIAGRAM	1723002197–EL–DG–00021
SG–100D1 MV SWBD 6600V BUSBAR METERING – FUNCTIONAL DIAGRAM	1723002197–EL–DG–00016
SG–200D2 FUNCTIONAL DIAGRAM	1723002197–EL–DG–00032
DP–200N1 DB–BOP FUNCTIONAL DIAGRAM	1723002197–EL–DG–00033
TR–100AD1–TERMINATION AND WIRING DIAGRAM	1723001697–EL–DG–00010
TR–200DE1 – TERMINATION AND WIRING DIAGRAM	1723001697–EL–DG–00011
TR–200ED1 – TERMINATION AND WIRING DIAGRAM	1723001697–EL–DG–00012
NAVIGATION AIDS SYSTEM INTERCONNECTION	1724000775–EL–DG–00007
CRANE WIRING DIAGRAM	1724001010–MAC–DG–00012
RR–100D1 TERMINATION AND WIRING DIAGRAM	1723001697–EL–DG–00013
NITROGEN GENERATION PACKAGE WIRING DIAGRAM	1724000437–MAC–DG–00009
A–50003 PACKAGE INTERCONNECTION DIAGRAM	1724000448–EL–DG–00015
NET. & SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS	1724000594–IN–DG–00024
PCS CABINETS WIRING DIAGRAMS AND TERMINAL STRIPS	1724000448–EL–DG–00015
SIS & FGS WIRING DIAGRAMS AND TERMINAL STRIPS	1724000594–IN–DG–00021
FUEL CELL AUXILIARY SLD	K559–2254–CWIWP4202202–C06–001
B100–HSB–001 HVAC INTERCONNECTING DIAGRAM	123A90–1724000049–HV–DA–00026

REFERENCE DOCUMENTS	
TITLE	DOCUMENT NUMBER
B200–HSB–001 HVAC INTERCONNECTING DIAGRAM	123A90–1724000049–HV–DA–00027
B300–HSB–001 HVAC INTERCONNECTING DIAGRAM	123A90–1724000049–HV–DA–00028
B400–HSB–001 HVAC INTERCONNECTING DIAGRAM	123A90–1724000049–HV–DA–00029
INSTRUMENT AIR PACKAGE WIRING DIAGRAM	1724000428–MAC–DG–00009
DC UPS WIRING DIAGRAM & TERMINAL SCHEDULE	1724000372–EL–DG–00008
DC UPS INTERCONNECTION DIAGRAM	1724000372–EL–DG–00010
AC UPS WIRING DIAGRAM & TERMINAL SCHEDULE	1724000372–EL–DG–00009
AC UPS INTERCONNECTION DIAGRAM	1724000372–EL–DG–00011
66KV GIS CIRCUIT AND WIRING DIAGRAM	1723001595–EL–DG–00015
SG–200N1 LV SWBD 400/230V SLD	1723002197–EL–DG–00011
SG–200N1 LV SWBD 400/230V FUNCTIONAL DIAGRAM	1723002197–EL–DG–00030
SG–200D2 LV SWBD 800V FUNCTIONAL DIAGRAM	1723002197–EL–DG–00032
STATRON CONVERTER CONTAINER SCHEMATIC DIAGRAM	10354_23A2007
ICCP POWER SUPPLY SCHEMATICS	SYS–15547–005
NET. & SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS	1724000594–IN–DG–00022
NET. & SERV. CABINETS IN ITER WIRING DIAGRAMS AND TERMINAL STRIPS	1724000594–IN–DG–00023
ELECTRICAL HEAT TRACING SLD	1724001647–EL–DG–00006
02 INSTRUMENT–PCS WIRING DIAGRAM	123A90–DDL–IN–DG–40015
INSTRUMENT–SAFETY SYSTEM WIRING DIAGRAM	123A90–DDL–IN–DG–40016

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
REFERENCE DOCUMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20149

SHEET 002

REV. 02

File Name : 123A90–DDL–EL–DG–20149 Rev. 02

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
02	001	FRONT PAGE	
02	002	REFERENCE DOCUMENTS	
02	003	INDEX	
02	004	INDEX	
02	005	BLANK PAGE	
02	006	GENERAL NOTES	
02	007	BLANK PAGE	
02	008	BLANK PAGE	
02	009	HOLDS	
02	010	IAC CABLE EXTENSION–INTERFACE JB T–CONNECTOR	
02	011	66kV GIS SWGR	
02	012	66KV, 7MVA TRANSFORMER	
02	013	BLANK PAGE	
02	014	BLANK PAGE	
02	015	NEUTRAL–EARTHING RESISTORS	
02	016	6.6KV HV SWITCHGEAR	
02	017	6.6/0.415 KV TRANSFORMER	
02	018	SOLAR PV POWER CABLE JB & LV SWBD 800/460V	
02	019	BLANK PAGE	
02	020	BLANK PAGE	
02	021	LV SWITCHGEAR (SG–200N1)	
02	022	LV SWITCHGEAR (SG–200N1)	
02	023	LV SWITCHGEAR (SG–200N1)	
02	024	LV SWITCHGEAR (SG–200N1)	
02	025	LV SWITCHGEAR (SG–200N1)	
02	026	LV SWITCHGEAR (SG–200N1)	
02	027	LV SWITCHGEAR (SG–200N1)	
02	028	LV SWITCHGEAR (SG–200N1)	
02	029	LV SWITCHGEAR (SG–200N1)	
02	030	LV SWITCHGEAR (SG–200N1)	
02	031	BLANK PAGE	

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
02	032	BLANK PAGE	
02	033	DC UPS DB DP–200F1	
02	034	DC UPS DB & DC UPS NAVAID SYSTEM	
02	035	DC UPS DB & DC UPS NAVAID SYSTEM	
02	036	DC UPS NAVAID SYSTEM NC–200F2	
02	037	DC UPS NAVAID SYSTEM NC–200F2	
02	038	DC UPS NAVAID SYSTEM & AC UPS – PAS DB	
02	039	AC UPS – PAS DB DP–200F3	
02	040	AC UPS – PAS DB DP–200F3	
02	041	AC UPS – PAS DB DP–200F3	
02	042	AC UPS – PAS DB DP–200F3	
02	043	AC UPS – F&G DB (DP–200F4)	
02	044	BLANK PAGE	
02	045	LIGHTING & SMALL POWER DB BOP	
02	046	LIGHTING & SMALL POWER DB BOP	
02	047	LIGHTING & SMALL POWER DB BOP	
02	048	TRACE HEATING PROCESS LINES	
02	049	TRACE HEATING PROCESS LINES	
02	050	TRACE HEATING PROCESS LINES	
02	051	TRACE HEATING PROCESS LINES	
02	052	LIGHTING & SMALL POWER DB BOP	
02	053	LIGHTING & SMALL POWER DB BOP	
02	054	LIGHTING & SMALL POWER DB BOP	
02	055	LIGHTING & SMALL POWER DB BOP	
02	056	LIGHTING & SMALL POWER DB BOP	
02	057	LIGHTING & SMALL POWER DB BOP	
02	058	BLANK PAGE	
02	059	BLANK PAGE	
02	060	IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM	
02	061	AC UPS PAS – CHARGER–A & BATTERY ISOLATOR–A	
02	062	AC UPS PAS – CHARGER–B & BATTERY ISOLATOR–B	

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
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CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20149

SHEET 003

REV. 02

File Name : 123A90–DDL–EL–DG–20149 Rev. 02

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
02	063	AC UPS F&G – CHARGER–A & BATTERY ISOLATOR–A	
02	064	AC UPS F&G – CHARGER–B & BATTERY ISOLATOR–B	
02	065	DC UPS – CHARGER & DC UPS – BATTERY ISOLATOR	
02	066	NAVAID – CHARGER & NAVAID – BATTERY ISOLATOR	
02	067	66KV, 7MVA TRANSFORMER ALARMS PROTECTION	
02	068	66KV, 7MVA TRANSFORMER ALARMS PROTECTION	
02	069	66KV, 7MVA TRANSFORMER TRIP PROTECTION	
02	070	66KV, 7MVA TRANSFORMER OLTC TRIP PROTECTION	
02	071	BLANK PAGE	
02	072	LCP GIS & 6.6KV HV SWITCHGEAR INTER TRIP	
02	073	BLANK PAGE	
02	074	BESS UCP SYNCHRONIZER VOLTAGE FROM 6.6KV	
02	075	6.6KV SWBD AND LV SWBD 800/460V INTER TRIP	
02	076	6.6KV HV SWITCHGEAR & LCP GIS INTERLOCK	
02	077	6.6KV HV SWITCHGEAR & LCP GIS INTERLOCK	
02	078	CP–200DE1A TRANSFORMER ALARMS PROTECTION	
02	079	CP–200DE1A TRANSFORMER TRIP PROTECTION	
02	080	LV SWITCHGEAR & 6.6KV HV SWITCHGEAR INTERLOCKS	
02	081	LV SWITCHGEAR & 6.6KV HV SWITCHGEAR INTERLOCKS	
02	082	CP–200ED1A SOLAR TRANSFORMER ALARMS PROTECTION	
02	083	CP–200ED1A SOLAR TRANSFORMER TRIP PROTECTION	
02	084	INTERLOCKS BETWEEN BESS & 6.6KV HV SWITCHGEAR	
02	085	INTERLOCKS BETWEEN LCP GIS&6.6KV HV SWITCHGEAR	
02	086	SIGNALS FOR CONTROL SYSTEM	
02	087	SIGNALS FOR CONTROL SYSTEM	
02	088	SIGNALS FOR CONTROL SYSTEM	
02	089	SIGNALS FOR CONTROL SYSTEM	
02	090	SIGNALS FOR CONTROL SYSTEM	
02	091	SIGNALS FOR CONTROL SYSTEM	

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
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CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 005

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

GENERAL NOTES:

1. FOR EQUIPMENT AND SYSTEM TAG NUMBERING REFER THE DOCUMENT 123A90-PML-DIG-PRO-00002

2. IDENTIFICATION ABBREVIATIONS FOR CABLES & OTHER ELECTRICAL EQUIPMENTS:

A) IDENTIFICATION COLOR CODE OF THE ELECTRICAL CABLE

BK = BLACK
BN = BROWN
BU = BLUE
GY = GRAY
RD = RED
Y/G = YELLOW AND GREEN

B) IDENTIFICATION CODE OF THE ELECTRICAL EQUIPMENT

TR = TRANSFORMER
NER = NEUTRAL EARTH RESISTOR
JB = JUNCTION BOX
CP = CONTROL PANEL

C) FUNCTION CODE OF THE ELECTRICAL EQUIPMENT

AP = ALARM PANEL
UP = AC UPS & DC UPS
BA = BATTERY
BC = BATTERY CHARGER / RECTIFIER
CB =CIRCUIT BRAKER BOX
CN = CATHODIC PROTECTION
CP = CONTROL PANEL
DP = DISTRIBUTION PANEL
JB = JUNCTION BOX
NC = NAVIGATIONAL AID CENTRAL CONTROL PANEL
RR = RESISTOR (EARTHING)
SB = SWITCHBOARD

D) IDENTIFIER ABBREVIATIONS OF THE ELECTRICAL SYSTEM:

EMCS = ELECTRICAL MONITORING & CONTROL SYSTEM
GIS = GAS INSULATED SWITCHGEAR
HVAC = HEATING, VENTILATION, AIR CONDITIONING
HV = HIGH VOLTAGE
MV = MEDIUM VOLTAGE
LCP = LOCAL CONTROL PANEL
LV = LOW VOLTAGE
UPS = UNINTERRUPTIBLE POWER SUPPLY
BESS = BATTERY ENERGY STORAGE SYSTEM
PAS = PROCESS AUTOMATION SYSTEM

E) IDENTIFIER OF THE LOADED PHASE FOR SINGLE-PHASE EQUIPMENT POWER SUPPLY(LV):

L = LINE
N = NEUTRAL
PE = PROTECTIVE EARTH

F) IDENTIFIER OF THE LOADED PHASE FOR THREE-PHASE EQUIPMENT POWER SUPPLY(MV&LV):

L1 = LINE 1
L2 = LINE 2
L3 = LINE 3

3. RED CONDUCTOR MUST BE COVERED WITH BLUE SLEEVE AT THE ENDS, TO USE IT AS NEUTRAL.

4. THE MINIMUM CABLE LENGTH IS 15 M, THE CABLE CANNOT BE SHORTER.

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
GENERAL NOTES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 006

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

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REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
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CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 007

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

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REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
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CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 008

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

HOLDS:

1) THE MISSING INFORMATION, HIGHLIGHTED WITH THE TEXT "HOLD" WILL BE DEFINED AFTER RECEIVING THE VENDOR DOCUMENTS.

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
HOLDS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 009

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: IAC CABLE EXTENSION - INTERFACE JB T-CONNECTOR
TAG NUMBER: NA

XB2 (Z2)

L1 — BK — T-CONNECTOR — 81001-CEH-L1 — 1C X 240 mm² — T-CONNECTOR — BK — L1

L2 — BK — T-CONNECTOR — 81001-CEH-L2 — 1C X 240 mm² — T-CONNECTOR — BK — L2

L3 — BK — T-CONNECTOR — 81001-CEH-L3 — 1C X 240 mm² — T-CONNECTOR — BK — L3

DESCRIPTION: 66kV SWITCHGEAR (GIS)
TAG NUMBER: HNA6-AFA70

QZ92

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
IAC CABLE EXTENSION–INTERFACE JB T–CONNECTOR

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90–DDL–EL–DG–20149

SHEET 010

REV. 02

File Name : 123A90–DDL–EL–DG–20149 Rev. 02

F.to UNI A3: 420mmx297mm

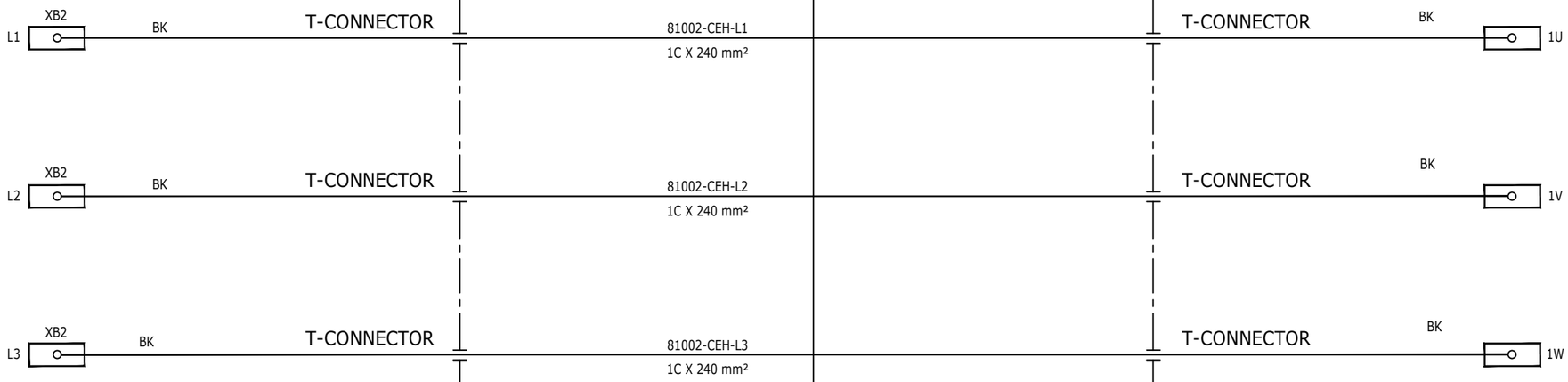
FROM	TO

DESCRIPTION: 66kV SWITCHGEAR (GIS)
TAG NUMBER: HNA6-AFA70

QZ91

DESCRIPTION: 66/6.9 KV, 7MVA TRANSFORMER
TAG NUMBER: TR-100AD1

HV TERMINAL BOX OF
TR-100AD1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
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00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
66kV GIS SWGR

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 011

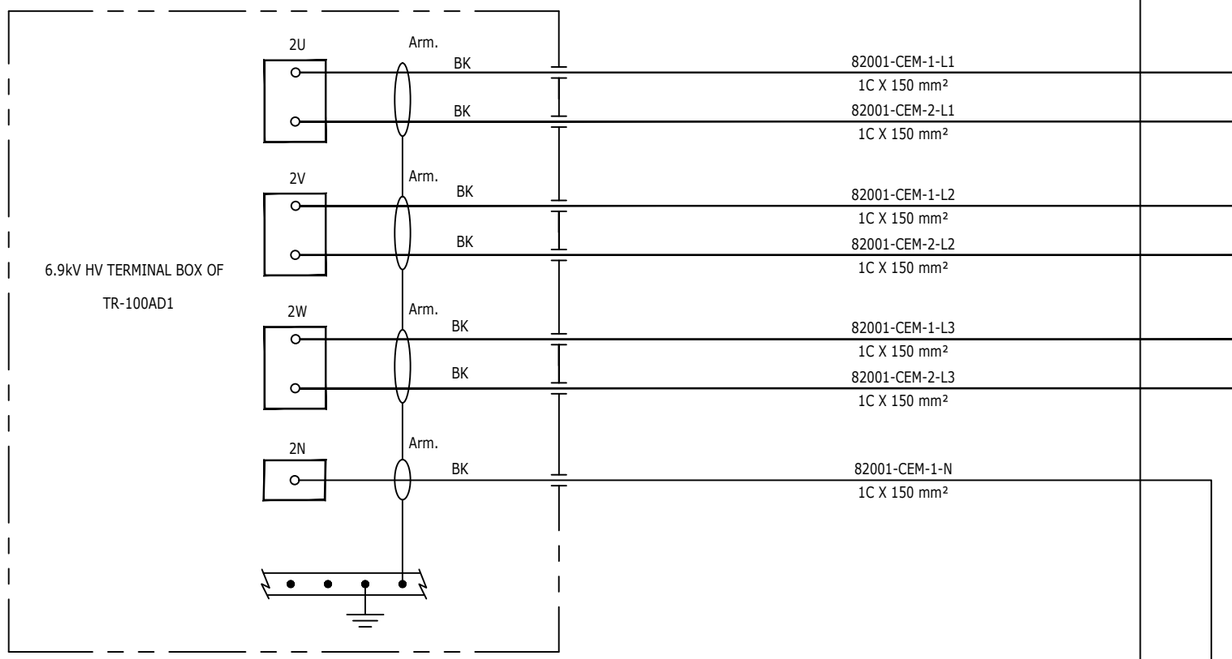
REV. 02

F.to UNI A3: 420mmx297mm

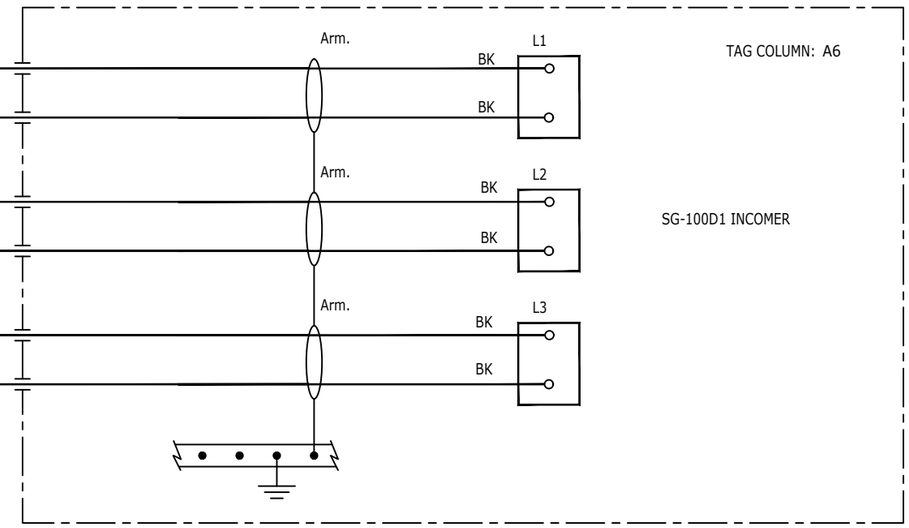
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

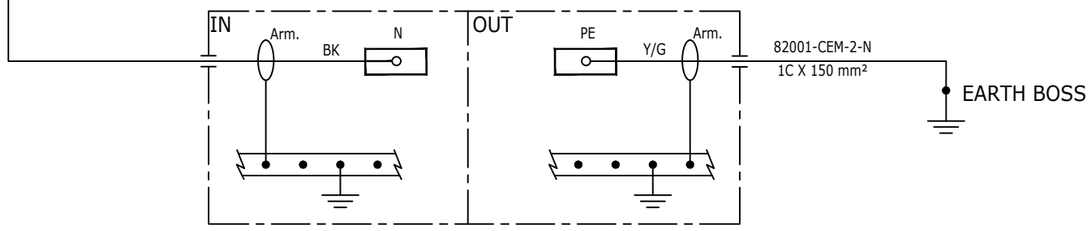
DESCRIPTION: 66/6.9KV, 7MVA TRANSFORMER
TAG NUMBER: TR-100AD1



DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1



DESCRIPTION: NER
TAG NUMBER: RR-100D1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
66KV, 7MVA TRANSFORMER

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 012

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

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REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
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CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 013

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 014

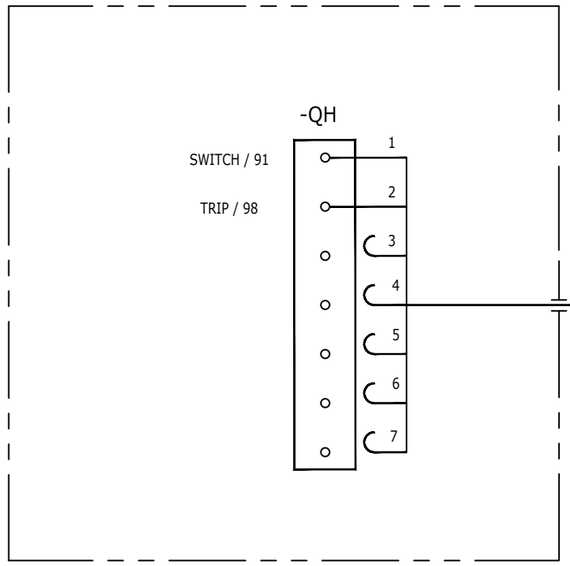
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

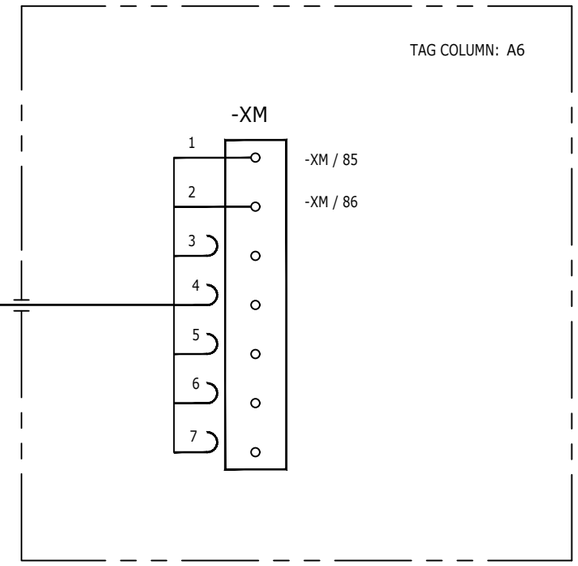
DESCRIPTION: NER (NEUTRAL EARTHING RESISTOR)
TAG NUMBER: RR-100D1



82014-CEC
7C X 1.5 mm²

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

TAG COLUMN: A6



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
NEUTRAL–EARTHING RESISTORS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90–DDL–EL–DG–20149

SHEET 015

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

TAG COLUMN: A4

L1	Arm.	BK	82002-CEM-1-L1 1C X 70 mm²	BK
L2		BK	82002-CEM-1-L2 1C X 70 mm²	BK
L3		BK	82002-CEM-1-L3 1C X 70 mm²	BK

DESCRIPTION: 6.6/0.42 KV, 1.6MVA TRANSFORMER
TAG NUMBER: TR-200DE1

Arm. 1U, 1V, 1W — HV TERMINAL BOX OF TR-200DE1

TAG COLUMN: A7

L1	Arm.	BK	82003-CEM-1-L1 1C X 70 mm²	BK
L2		BK	82003-CEM-1-L2 1C X 70 mm²	BK
L3		BK	82003-CEM-1-L3 1C X 70 mm²	BK

DESCRIPTION: 6.6/0.4 KV, 1.25MVA TRANSFORMER
TAG NUMBER: TA30

Arm. 1U, 1V, 1W — HV TERMINAL BOX OF TA30

TAG COLUMN: A1

L1	Arm.	BK	82004-CEM-1-L1 1C X 150 mm²	BK
L2		BK	82004-CEM-1-L2 1C X 150 mm²	BK
L3		BK	82004-CEM-1-L3 1C X 150 mm²	BK

DESCRIPTION: 6.6/0.4/0.4 KV, 3.15MVA TRANSFORMER
TAG NUMBER: T4

Arm. 1U, 1V, 1W — HV TERMINAL BOX OF T4

TAG COLUMN: A3

L1	Arm.	BK	82005-CEM-1-L1 1C X 70 mm²	BK
L2		BK	82005-CEM-1-L2 1C X 70 mm²	BK
L3		BK	82005-CEM-1-L3 1C X 70 mm²	BK

DESCRIPTION: 6.6/0.62 KV, 1.25MVA TRANSFORMER
TAG NUMBER: 18T1

Arm. 1U, 1V, 1W — HV TERMINAL BOX OF 18T1

TAG COLUMN: A2

L1	Arm.	BK	82006-CEM-1-L1 1C X 70 mm²	BK
L2		BK	82006-CEM-1-L2 1C X 70 mm²	BK
L3		BK	82006-CEM-1-L3 1C X 70 mm²	BK

DESCRIPTION: 6.6/0.8 KV, 0.5MVA TRANSFORMER
TAG NUMBER: TR-200ED1

Arm. 1U, 1V, 1W — HV TERMINAL BOX OF TR-200ED1

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
6.6KV HV SWITCHGEAR

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 016

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: 6.6/0.42 KV TRANSFORMER
TAG NUMBER: TR-200DE1

DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A1/+02

2U	L1	BK	83001-CEL-1-L1 1C X 300 mm²	BK	L1	LINE-1
	L1	BK	83001-CEL-2-L1 1C X 300 mm²	BK	L1	
	L1	BK	83001-CEL-3-L1 1C X 300 mm²	BK	L1	
	L1	BK	83001-CEL-4-L1 1C X 300 mm²	BK	L1	
	L1	BK	83001-CEL-5-L1 1C X 300 mm²	BK	L1	
2V	L2	BK	83001-CEL-1-L2 1C X 300 mm²	BK	L2	LINE-2
	L2	BK	83001-CEL-2-L2 1C X 300 mm²	BK	L2	
	L2	BK	83001-CEL-3-L2 1C X 300 mm²	BK	L2	
	L2	BK	83001-CEL-4-L2 1C X 300 mm²	BK	L2	
	L2	BK	83001-CEL-5-L2 1C X 300 mm²	BK	L2	
2W	L3	BK	83001-CEL-1-L3 1C X 300 mm²	BK	L3	LINE-3
	L3	BK	83001-CEL-2-L3 1C X 300 mm²	BK	L3	
	L3	BK	83001-CEL-3-L3 1C X 300 mm²	BK	L3	
	L3	BK	83001-CEL-4-L3 1C X 300 mm²	BK	L3	
	L3	BK	83001-CEL-5-L3 1C X 300 mm²	BK	L3	
2N	N	BK	83001-CEL-1-N 1C X 300 mm²	BK	N	NEUTRAL
	N	BK	83001-CEL-2-N 1C X 300 mm²	BK	N	
	N	BK	83001-CEL-3-N 1C X 300 mm²	BK	N	
PE	PE	Y/G	83001-CEL-1-E 1C X 150 mm²	Y/G		EARTH BOSS
	PE	Y/G	83001-CEL-2-E 1C X 150 mm²	Y/G		

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
6.6/0.415 KV TRANSFORMER

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 017

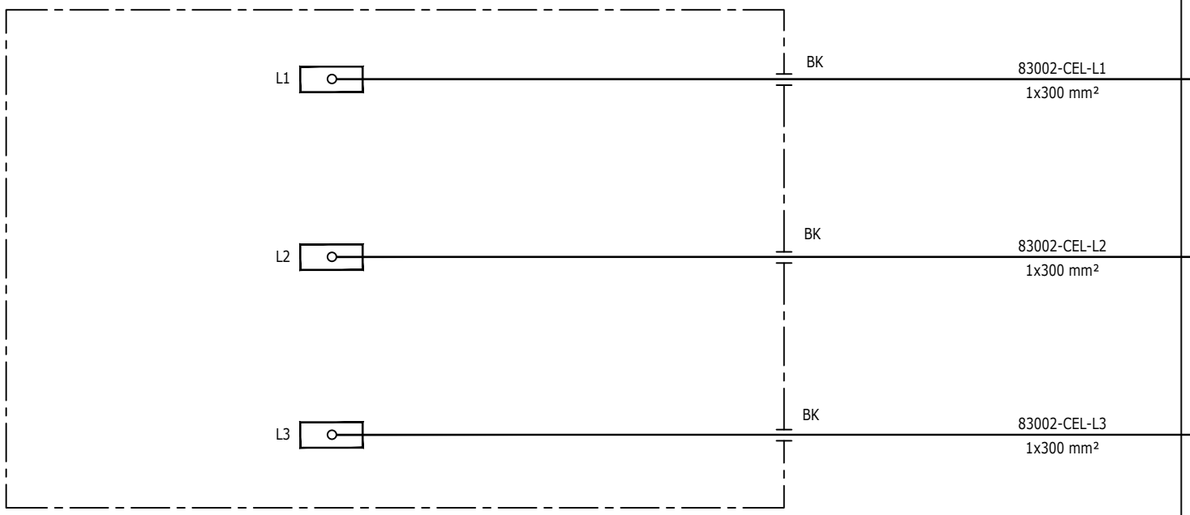
REV. 02

F.to UNI A3: 420mmx297mm

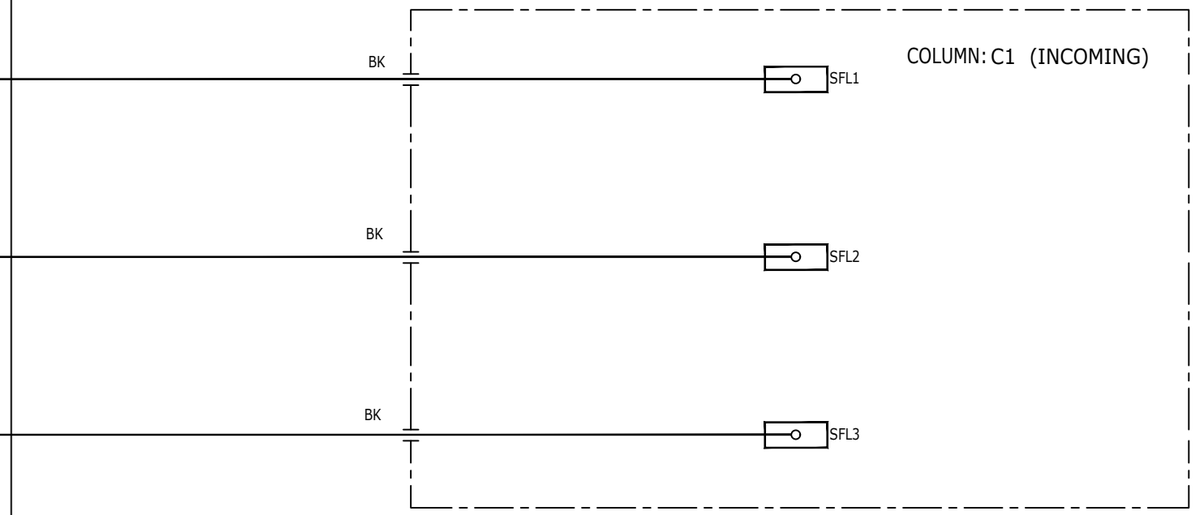
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

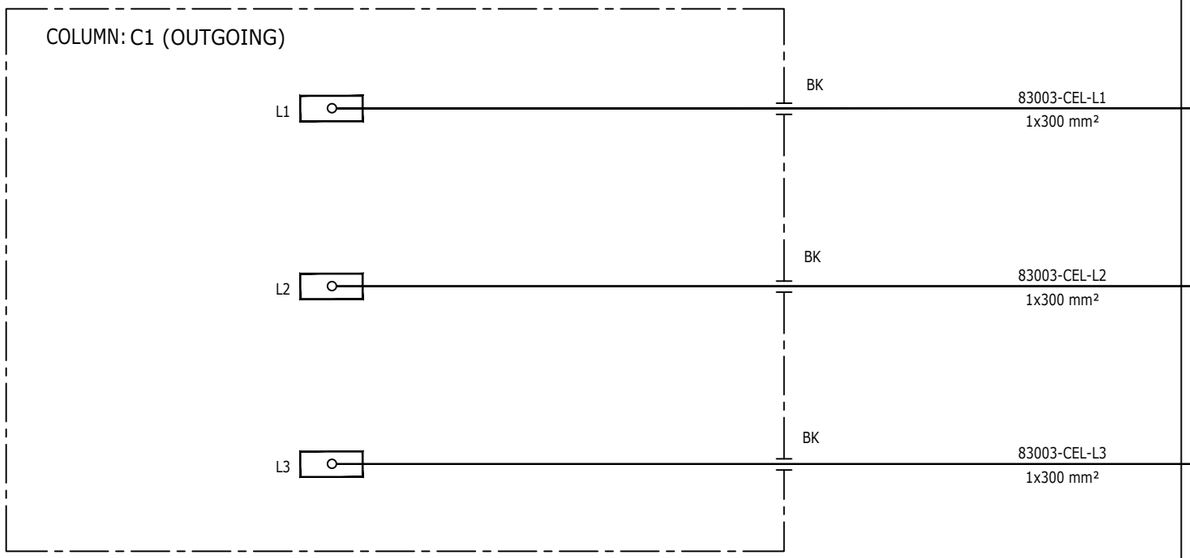
DESCRIPTION: SOLAR PV POWER CABLE JB
TAG NUMBER: JB-200E1



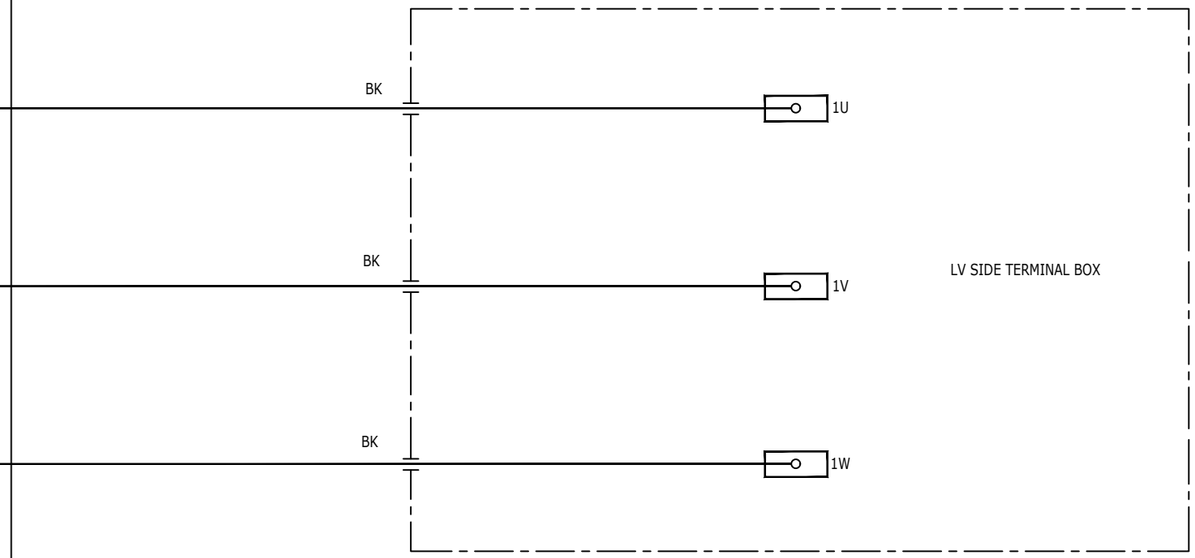
DESCRIPTION: LV SWBD 800/460V
TAG NUMBER: SG-200D2



DESCRIPTION: LV SWBD 800/460V
TAG NUMBER: SG-200D2



DESCRIPTION: 6.6/0.8 KV TRANSFORMER
TAG NUMBER: TR-200ED1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
SOLAR PV POWER CABLE JB & LV SWBD 800/460V

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 018

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

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REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 019

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 020

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A2/+08

L1	BK	83010-CEL-L1 1C X 95 mm²	BK L1
L2	BK	83010-CEL-L2 1C X 95 mm²	BK L2
L3	BK	83010-CEL-L3 1C X 95 mm²	BK L3
N	BK	83010-CEL-N 1C X 95 mm²	BK N
PE	Y/G	83010-CEL-E 1C X 95 mm²	Y/G PE

P.E. BUS BAR

DESCRIPTION: TEMPORARY GENERATOR / MOBILE BATTERY PACK
TAG NUMBER: JB-200E2

INCOMING FROM LV SWITCHGEAR
SG-200N1

P.E. BUS BAR

COLUMN/CUBIC.: A1/+08

L1	BK	83013-CEL-L1 1C X 300 mm²	BK L1
L2	BK	83013-CEL-L2 1C X 300 mm²	BK L2
L3	BK	83013-CEL-L3 1C X 300 mm²	BK L3
N	BK	83013-CEL-N 1C X 300 mm²	BK N
PE	Y/G	83013-CEL-E 1C X 150 mm²	Y/G PE

P.E. BUS BAR

DESCRIPTION: ELECTROLYSER AUXILIARY LOAD
TAG NUMBER: A-20000

P.E. BUS BAR

DESCRIPTION: FUEL CELL AUXILIARY LOAD
TAG NUMBER: A-80000

COLUMN/CUBIC.: A4/+03

L1	BN	83012-CEL 5G16 mm²	-XB01 BN 1 L1
L2	BK		BK 2 L2
L3	GY		GY 3 L3
N	BU		BU 4 N
Y/G	PE		Y/G 5 PE

P.E. BUS BAR

P.E. BUS BAR

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 021

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A4/+04

L1 — BN
L2 — BK
L3 — GY
N — BU

83011-CEL
4C X 10 mm²

DESCRIPTION: BESS PCS CABINET
TAG NUMBER: CP-850E3

-XE

BN	112	-AUX_400V_L1
BK	132	-AUX_400V_L2
GY	152	-AUX_400V_L3
BU	1N2	-AUX_400V_N

02

COLUMN/CUBIC.: A6/+02

L1 — BN
L2 — BK
L3 — GY
N — BU

83014-CEL
4C X 10 mm²

DESCRIPTION: BESS LV1 CABINET (+DISTR 1)
TAG NUMBER: CP-850E1

-XES

BN	1
BK	3
GY	5
BU	N

COLUMN/CUBIC.: A6/+03

L1 — BN
L2 — BK
L3 — GY
N — BU

83015-CEL
4C X 10 mm²

DESCRIPTION: BESS LV2 CABINET (+DISTR 2)
TAG NUMBER: CP-850E2

-XES

BN	1
BK	3
GY	5
BU	N

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 022

REV. 02

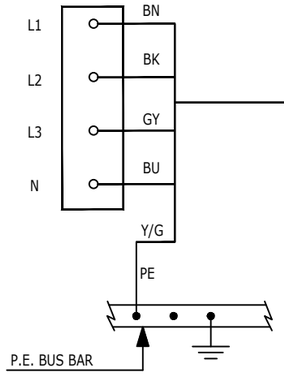
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

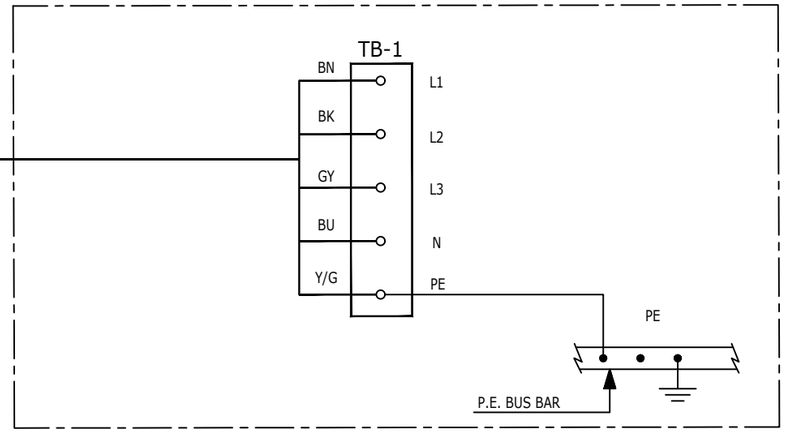
DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1

COLUMN/CUBIC.:A3/+08

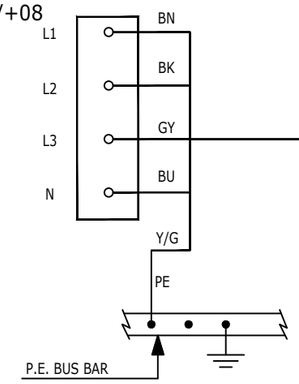


83016-CEL
5G70 mm²

DESCRIPTION: WATER PACKAGE
TAG NUMBER: JB-500E8

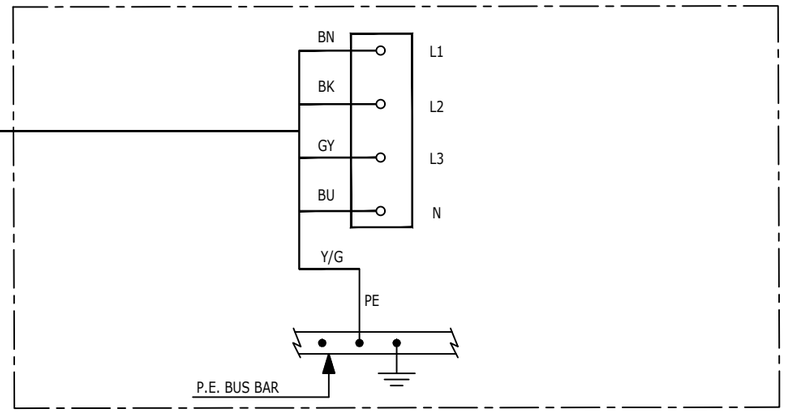


COLUMN/CUBIC.:A4/+08

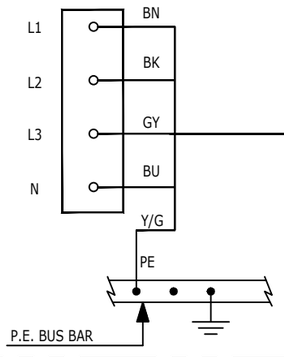


83017-CEL-1
5G70 mm²

DESCRIPTION: INSTRUMENT AIR PACKAGE
TAG NUMBER: K-63001-A

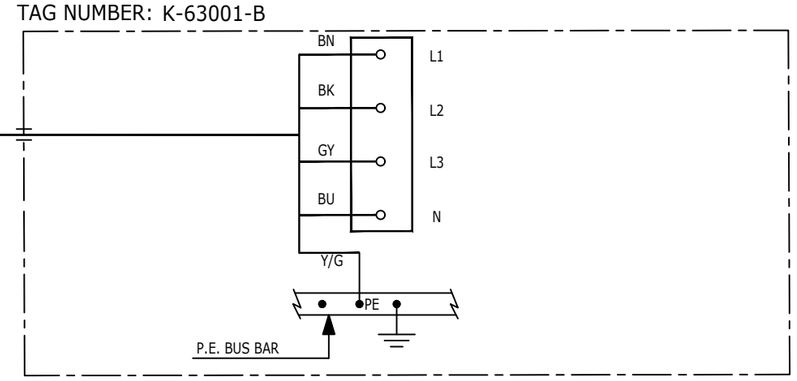


COLUMN/CUBIC.:A5/+08



83017-CEL-2
5G70 mm²

DESCRIPTION: INSTRUMENT AIR PACKAGE
TAG NUMBER: K-63001-B



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 023

REV. 02

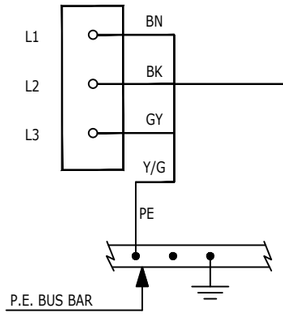
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

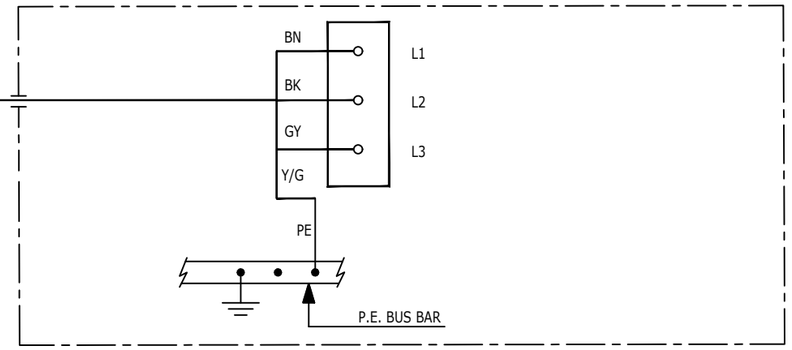
DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A7/+01

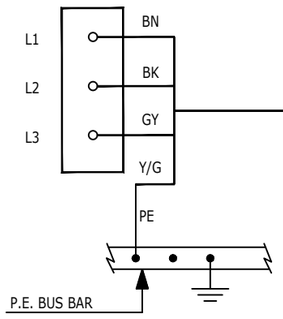


83018-CEL
4G4 mm²

DESCRIPTION: SEA WATER INTAKE PUMP A
TAG NUMBER: PM-50001 A

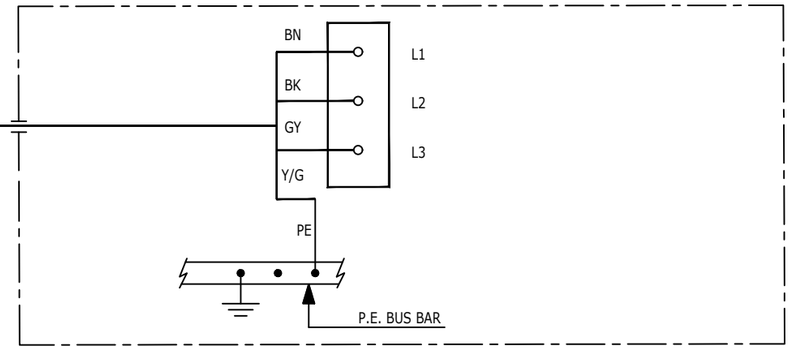


COLUMN/CUBIC.: A6/+01

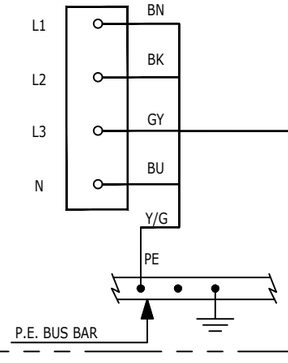


83019-CEL
4G4 mm²

DESCRIPTION: SEA WATER INTAKE PUMP B
TAG NUMBER: PM-50001 B



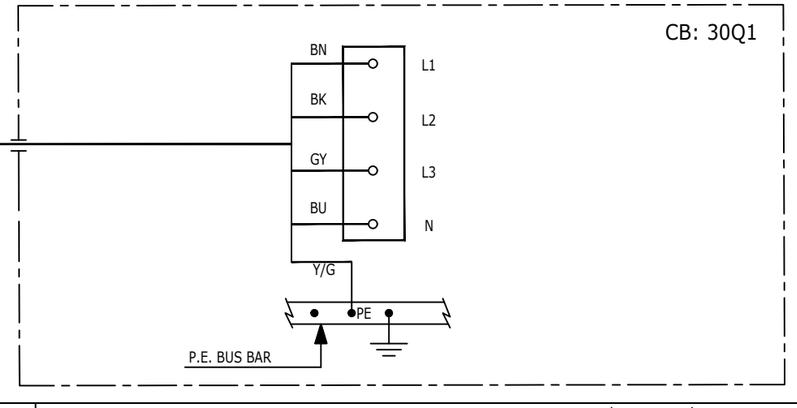
COLUMN/CUBIC.: A3/+04



83020-CEL
5G16 mm²

DESCRIPTION: CRANE
TAG NUMBER: JB-200E3

CB: 30Q1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 024

REV. 02

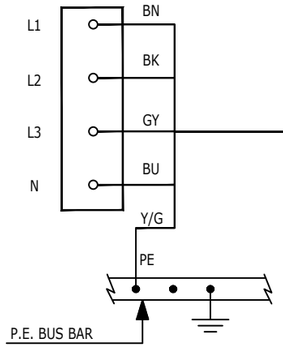
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

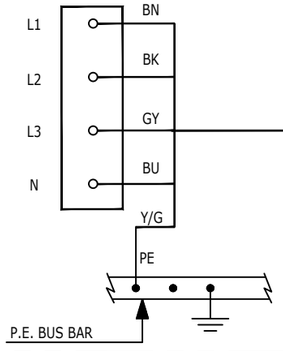
DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A6/+08



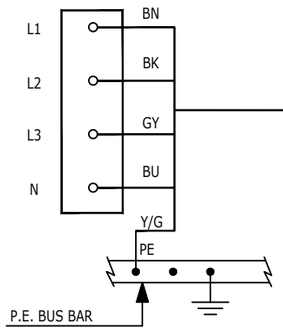
83021-CEL-01
5G50 mm²

COLUMN/CUBIC.: A7/+08



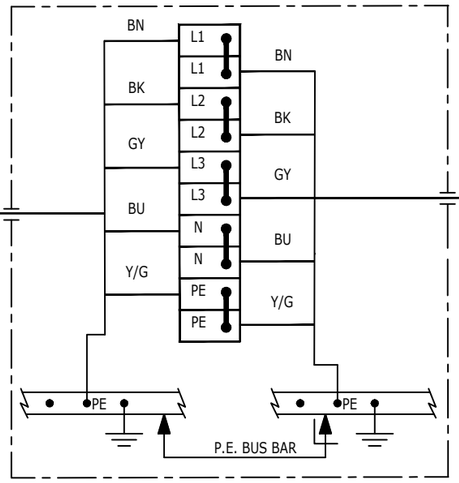
83022-CEL-01
5G50 mm²

COLUMN/CUBIC.: A4/+02



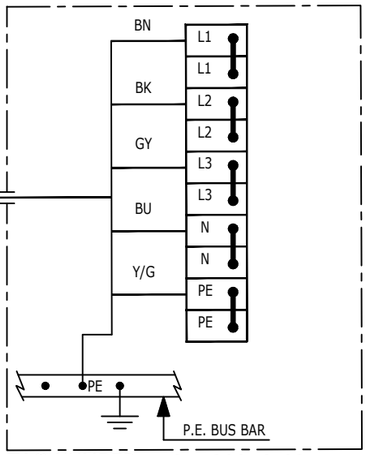
83023-CEL
5G16 mm²

DESCRIPTION: WELDING SOCKETS (TOP DECK)
TAG NUMBER: ESW-200N1-01

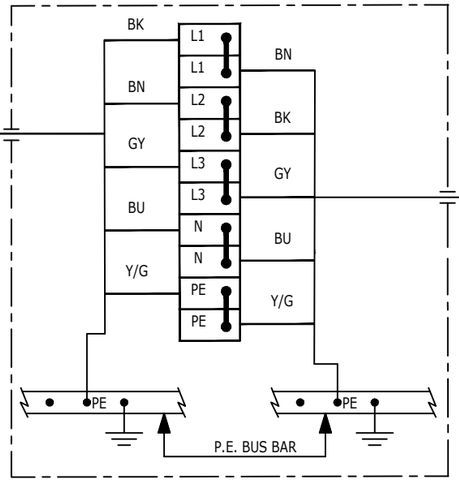


83021-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N1-02

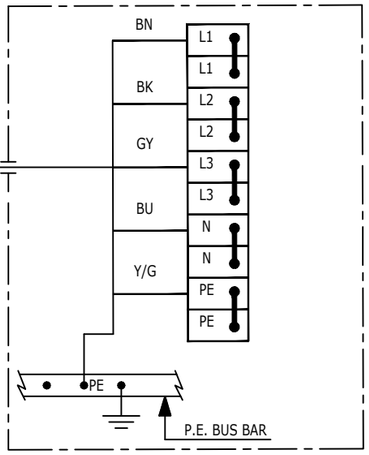


DESCRIPTION: WELDING SOCKET (LOWER DECK)
TAG NUMBER: ESW-200N2-01

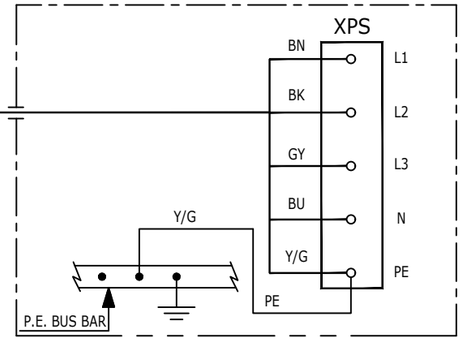


83022-CEL-02
5G50 mm²

TAG NUMBER: ESW-200N2-02



DESCRIPTION: HVAC PANELS - HV ROOM
TAG NUMBER: B100-HSB-001



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 025

REV. 02

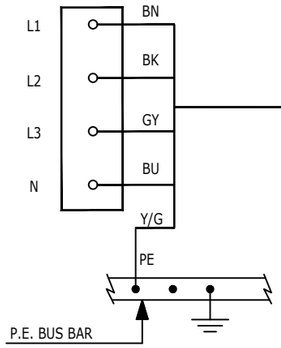
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

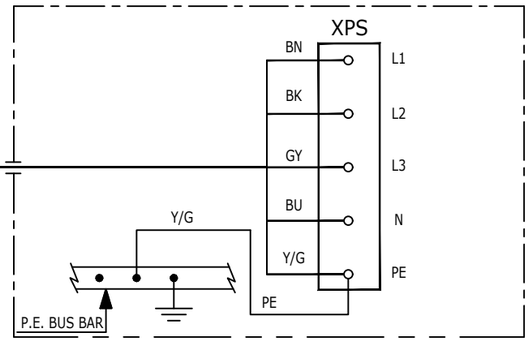
DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A5/+02

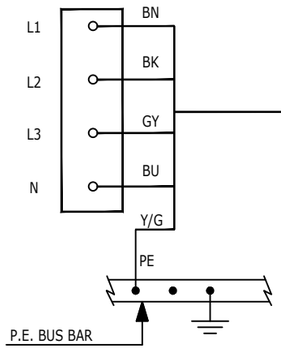


83024-CEL
5G16 mm²

DESCRIPTION: DISTRIBUTION & HVAC PANEL - LV ROOM
TAG NUMBER: B200-HSB-001

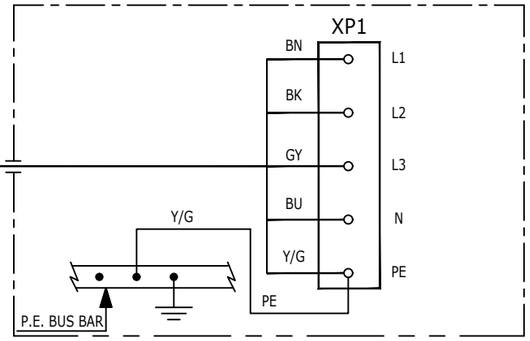


COLUMN/CUBIC.: A5/+03

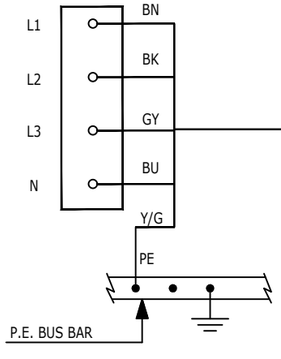


83025-CEL
5G16 mm²

DESCRIPTION: HVAC PANELS - UPS ROOM
TAG NUMBER: B300-HSB-001

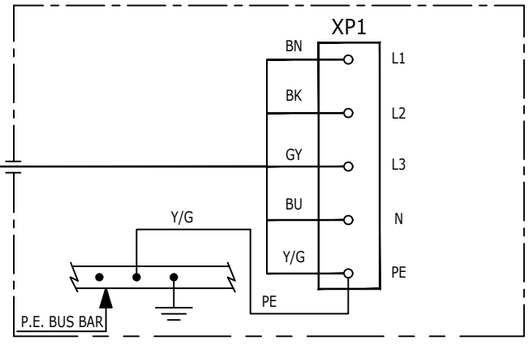


COLUMN/CUBIC.: A5/+04



83026-CEL
5G16 mm²

DESCRIPTION: HVAC PANELS - ITER
TAG NUMBER: B400-HSB-001



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 026

REV. 02

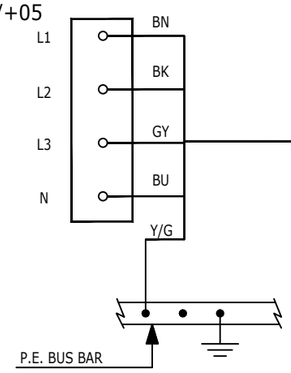
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

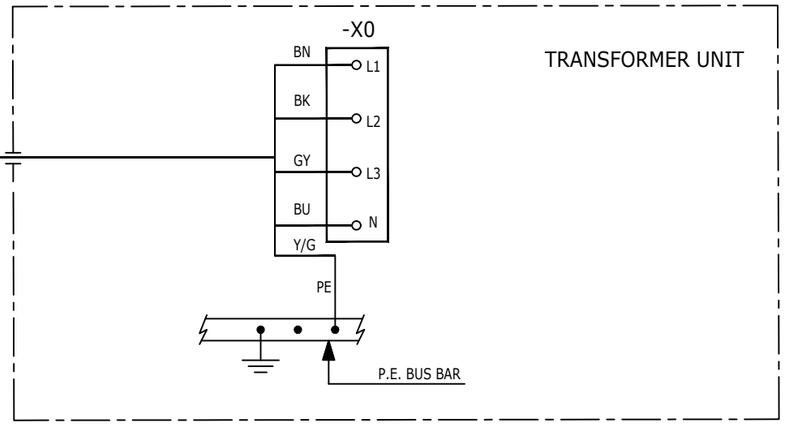
DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A5/+05

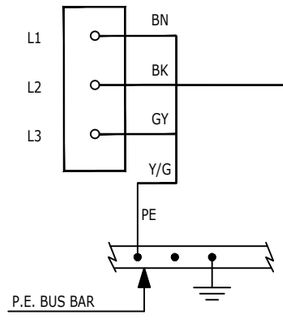


83027-CEL
5G16 mm²

DESCRIPTION: IMPRESSED CURRENT CATHODIC PROTECTION (ICCP) SYSTEM
TAG NUMBER: CN-200N1

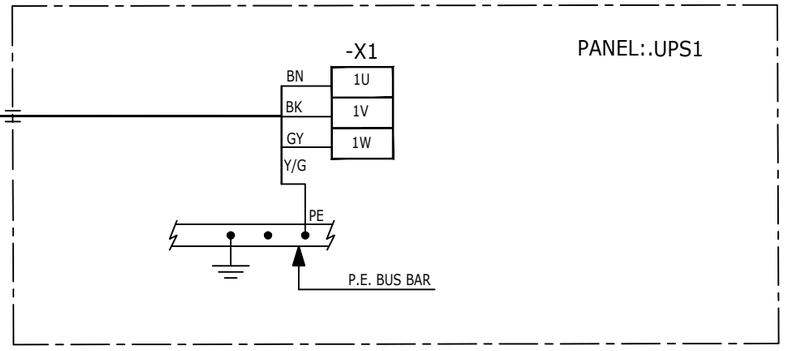


COLUMN/CUBIC.: A3/+01



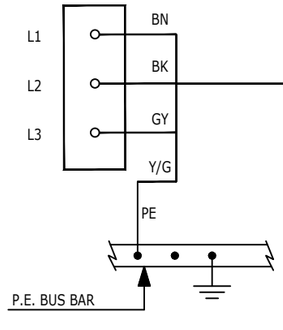
83028-CEL
4G35 mm²

DESCRIPTION: AC UPS PAS - 30MIN - LINE A
TAG NUMBER: UP-200F3

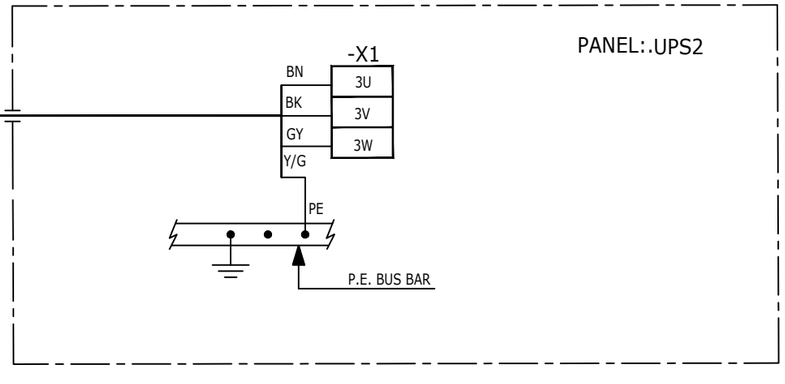


DESCRIPTION: AC UPS PAS - 30MIN - LINE B
TAG NUMBER: UP-200F3

COLUMN/CUBIC.: A4/+01



83029-CEL
4G35 mm²



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 027

REV. 02

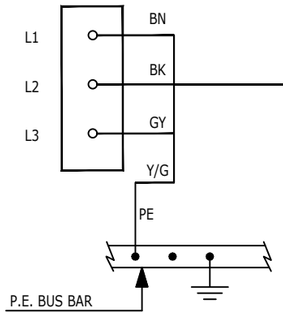
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1

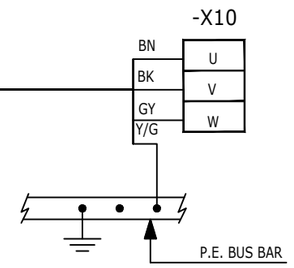
COLUMN/CUBIC.: A7/+02



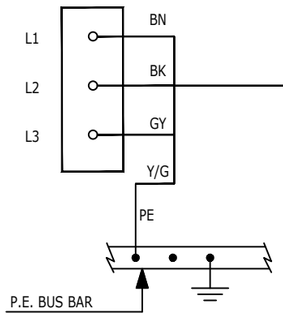
83030-CEL
4G35 mm²

DESCRIPTION: AC UPS PAS - 30MIN - BYPASS
TAG NUMBER: UP-200F3

PANEL:.BYPASS



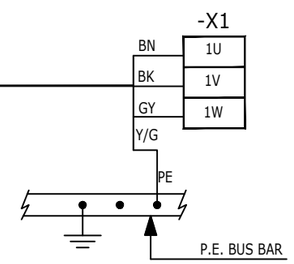
COLUMN/CUBIC.: A6/+05



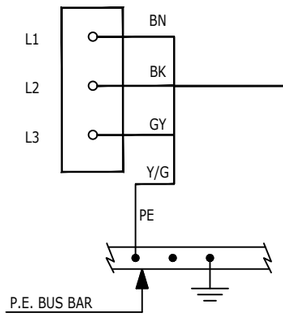
83031-CEL
4G35 mm²

DESCRIPTION: AC UPS F&G - 8H - LINE A
TAG NUMBER: UP-200F4

PANEL:.UPS1

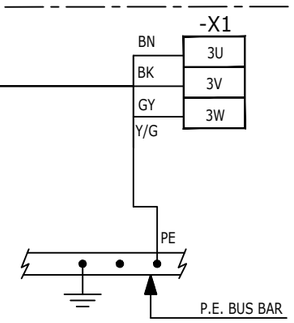


COLUMN/CUBIC.: A6/+06



83032-CEL
4G35 mm²

DESCRIPTION: AC UPS F&G - 8H - LINE B
TAG NUMBER: UP-200F4



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 028

REV. 02

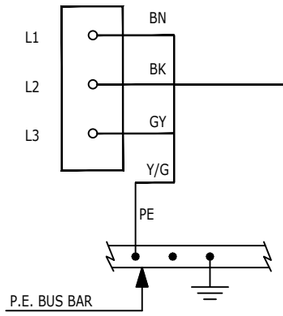
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

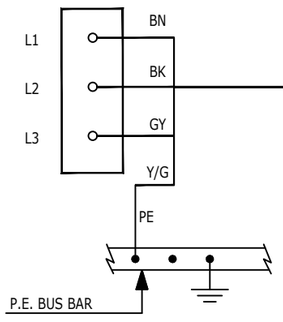
DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A2/+04



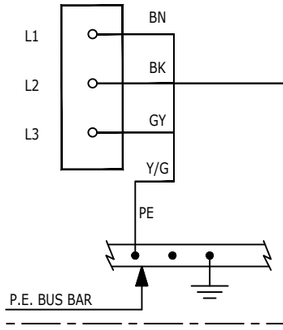
83033-CEL
4G35 mm²

COLUMN/CUBIC.: A7/+03



83034-CEL
4G16 mm²

COLUMN/CUBIC.: A7/+04

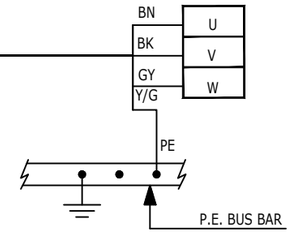


83035-CEL
4G16 mm²

DESCRIPTION: AC UPS F&G - 8H - BYPASS
TAG NUMBER: UP-200F4

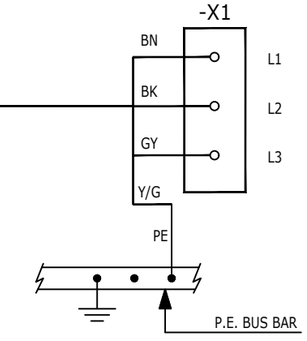
PANEL:.BYPASS

-X10



DESCRIPTION: DC BATTERY SYSTEM - SWITCHGEAR CONTROL - FEEDER A
TAG NUMBER: UP-200F1

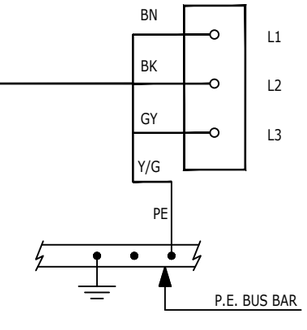
-X1



PANEL:.CHARGER-1

DESCRIPTION: DC BATTERY SYSTEM - SWITCHGEAR CONTROL - FEEDER B
TAG NUMBER: UP-200F1

-X2



PANEL:.CHARGER-2

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 029

REV. 02

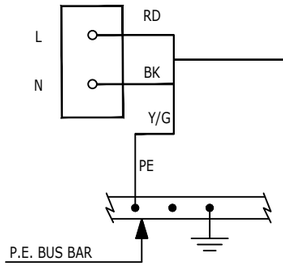
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: LV Switchgear
TAG NUMBER: SG-200N1

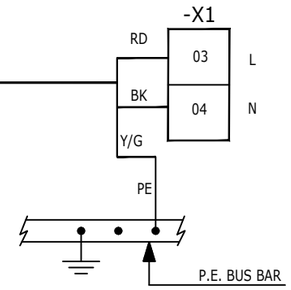
COLUMN/CUBIC.:A7/+05



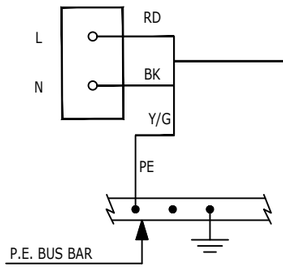
83036-CEL NOTE 3
3G16 mm²

DESCRIPTION: DC UPS NAVAID SYSTEM - FEEDER A
TAG NUMBER: UP-200F2

PANEL:.CHARGER-1



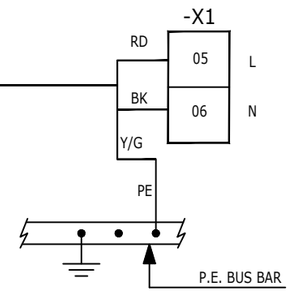
COLUMN/CUBIC.:A7/+06



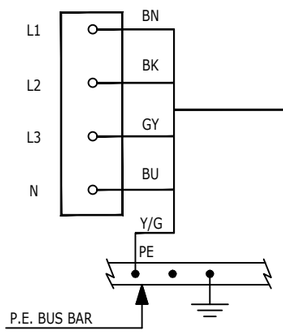
83037-CEL NOTE 3
3G16 mm²

DESCRIPTION: DC UPS - NAVAID SYSTEM - FEEDER B
TAG NUMBER: UP-200F2

PANEL:.CHARGER-2

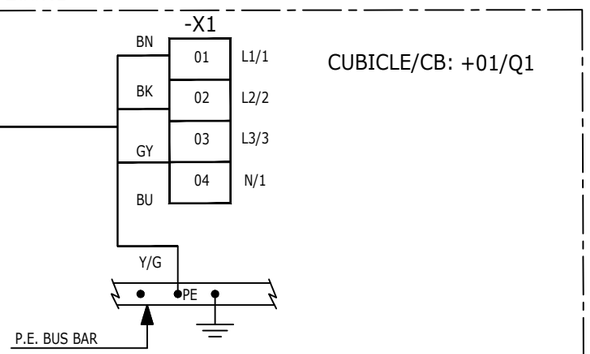


COLUMN/CUBIC.:A3/+03



83043-CEL NOTE 4
5G50 mm²

DESCRIPTION: DB - LIGHTING & SMALL POWER - BOP
TAG NUMBER: DP-200N1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR SG-200N1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 030

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 031

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 032

REV. 02

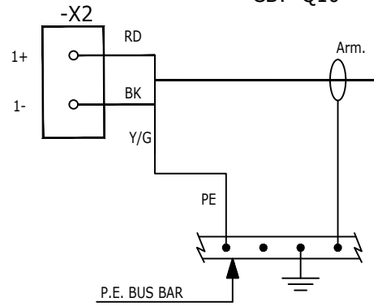
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: DC UPS DB
TAG NUMBER: DP-200F1

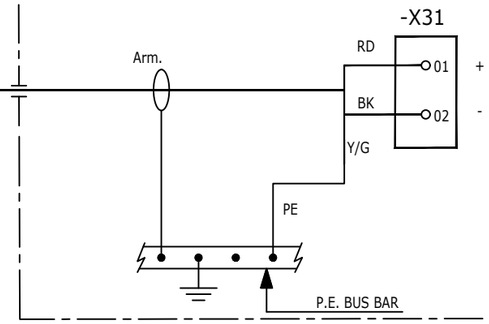
CB: -Q10



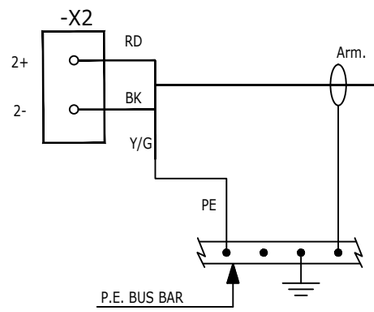
84101-CEL
3G16 mm²

DESCRIPTION: DC CONTROL FOR 66 KV GIS LINE-1
TAG NUMBER: CP-100E1

PANEL: LCP



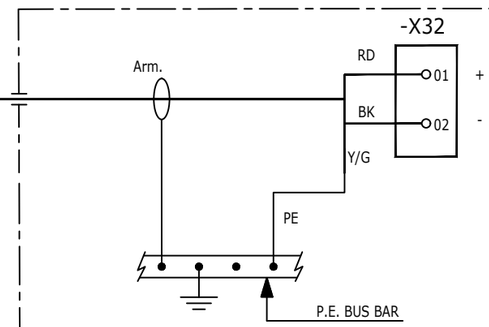
CB: -Q11



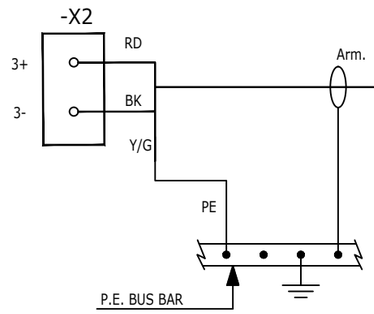
84102-CEL
3G16 mm²

DESCRIPTION: DC CONTROL FOR 66 KV GIS LINE-2
TAG NUMBER: CP-100E1

PANEL: LCP



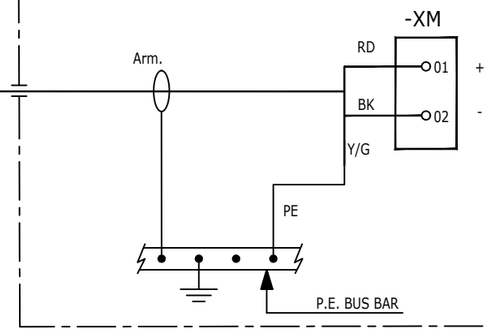
CB: -Q12



84103-CEL
3G16 mm²

DESCRIPTION: DC CONTROL FOR 6,6 KV SWITCHGEAR LINE-A
TAG NUMBER: SG-100D1

COLUMN/CUBIC.: A5



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
DC UPS DB DP-200F1

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 033

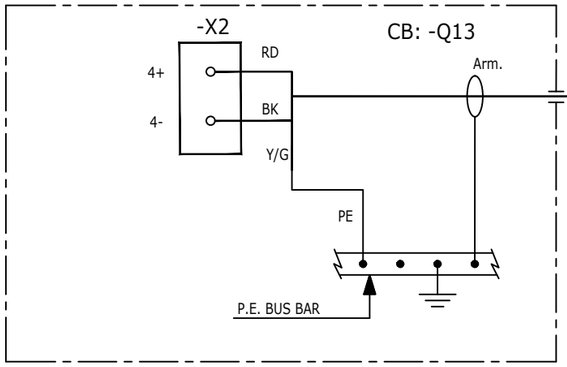
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

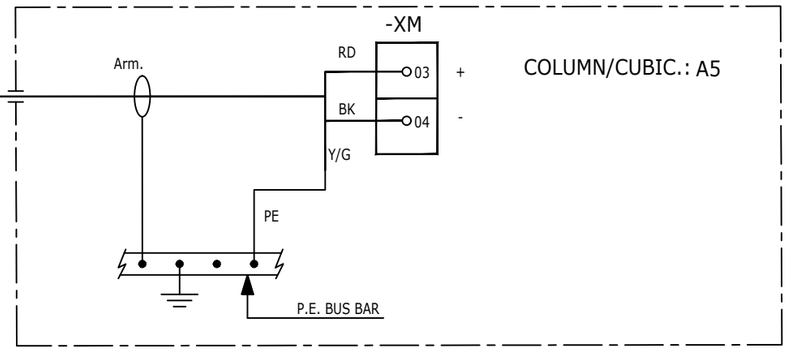
FROM	TO

DESCRIPTION: DC UPS DB
TAG NUMBER: DP-200F1

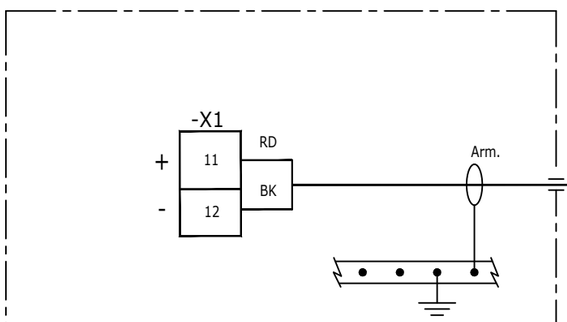


84104-CEL
3G16 mm²

DESCRIPTION: DC CONTROL FOR 6,6 KV SWITCHGEAR LINE-B
TAG NUMBER: SG-100D1

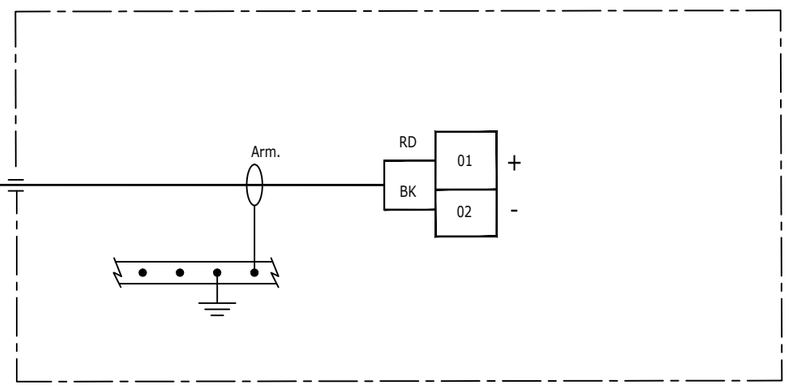


DESCRIPTION: DC UPS NAVAID SYSTEM
TAG NUMBER: NC-200F2

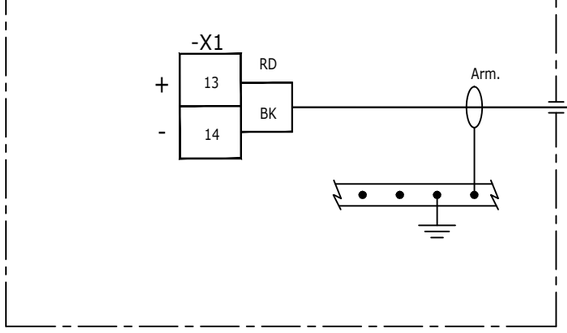


72201-CEL
2C X 2.5 mm²

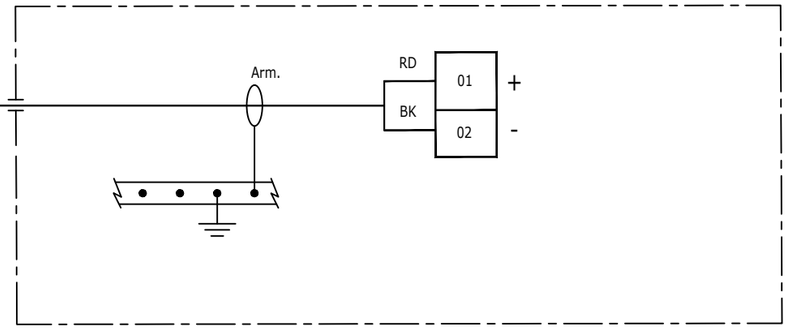
DESCRIPTION: NAV AIDS MAIN YELLOW LANTERNS
TAG NUMBER: EML-200-01



DESCRIPTION: NAV AIDS MAIN YELLOW LANTERNS
TAG NUMBER: EML-200-02



72202-CEL
2C X 2.5 mm²



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
DC UPS DB & DC UPS NAVAID SYSTEM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 034

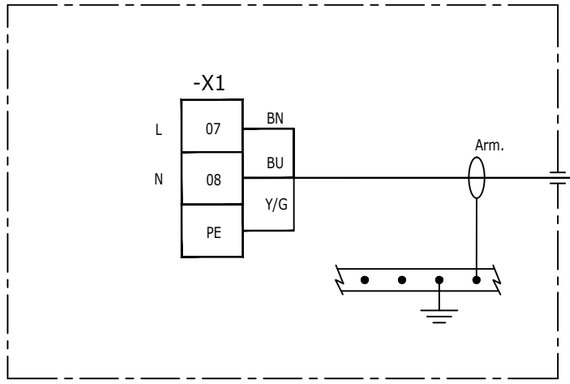
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

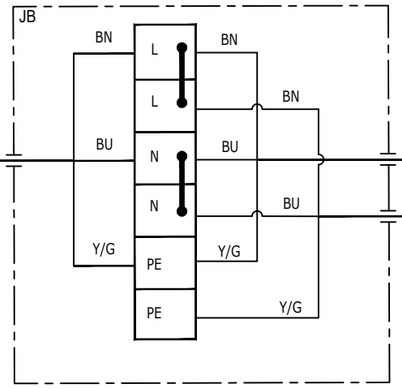
FROM	TO

DESCRIPTION: DC UPS NAVAID SYSTEM
TAG NUMBER: NC-200F2



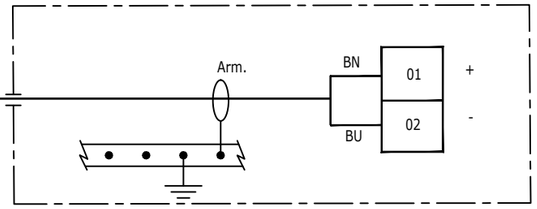
72203-CEL
3G2.5 mm²

DESCRIPTION: TOP OBSTRUCTION LIGHTS JUNCTION BOX
TAG NUMBER: EJB-200F2-01



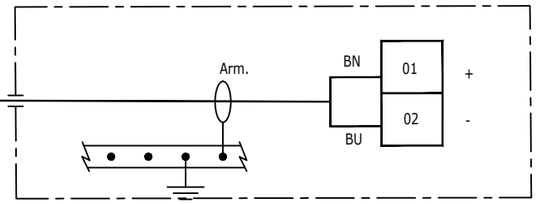
72204-CEL
3G2.5 mm²

DESCRIPTION: TOP OBSTRUCTION RED LIGHTS (MEDIUM INTENSITY)
TAG NUMBER: EOL-200-01

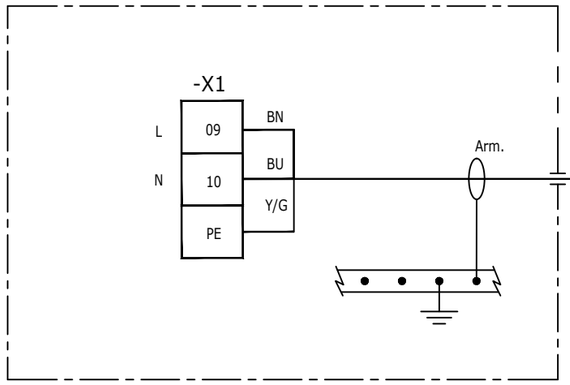


72205-CEL
3G2.5 mm²

DESCRIPTION: TOP OBSTRUCTION RED LIGHTS (MEDIUM INTENSITY)
TAG NUMBER: EOL-200-02

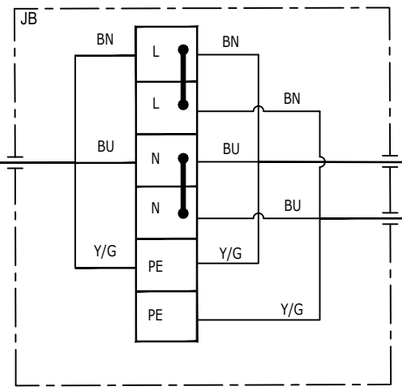


DESCRIPTION: DC UPS NAVAID SYSTEM
TAG NUMBER: NC-200F2



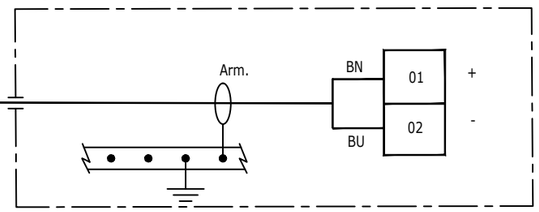
72211-CEL
3G2.5 mm²

DESCRIPTION: INTERMEDIATE OBSTRUCTION LIGHTS JUNCTION BOX
TAG NUMBER: EJB-200F2-02



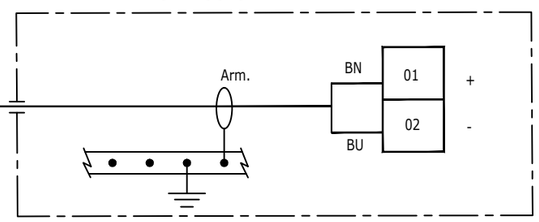
72212-CEL
3G2.5 mm²

DESCRIPTION: INTERMEDIATE OBSTRUCTION RED LIGHTS (MEDIUM INTENSITY)
TAG NUMBER: EOL-200-03



72213-CEL
3G2.5 mm²

DESCRIPTION: INTERMEDIATE OBSTRUCTION RED LIGHTS (MEDIUM INTENSITY)
TAG NUMBER: EOL-200-04



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
DC UPS DB & DC UPS NAVAID SYSTEM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 035

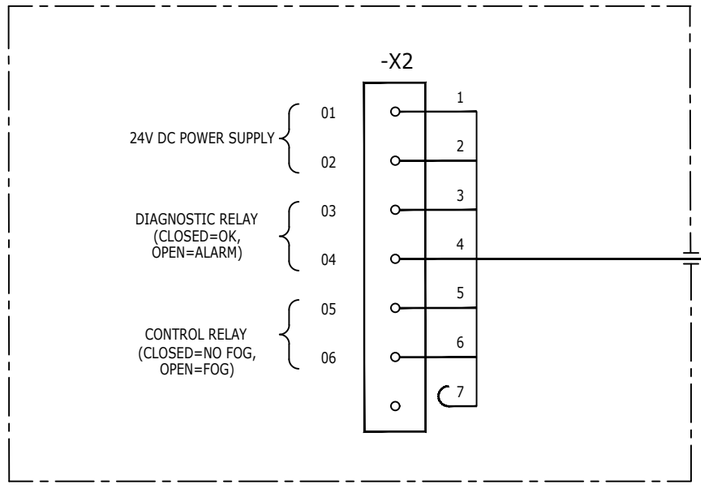
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

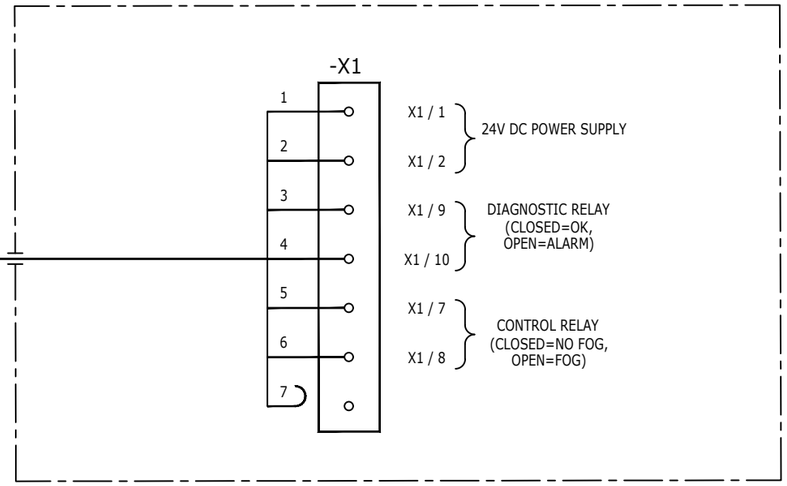
F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: DC UPS NAVAID SYSTEM
TAG NUMBER: NC-200F2



DESCRIPTION: NAV AIDS VISIBILITY METER
TAG NUMBER: EVM-200-01



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
DC UPS NAVAID SYSTEM NC-200F2

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 036

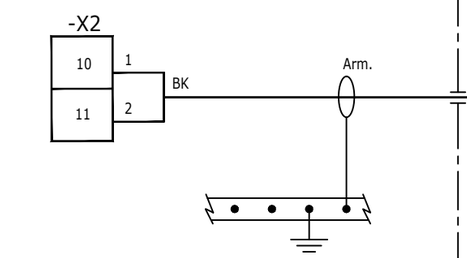
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

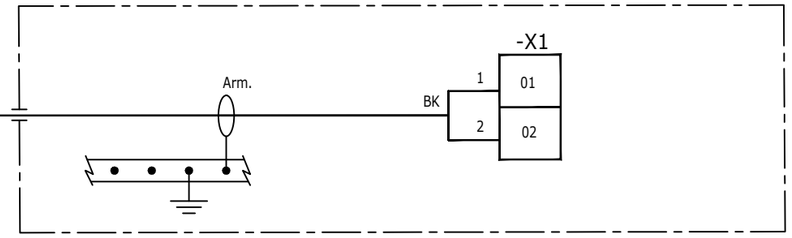
FROM	TO

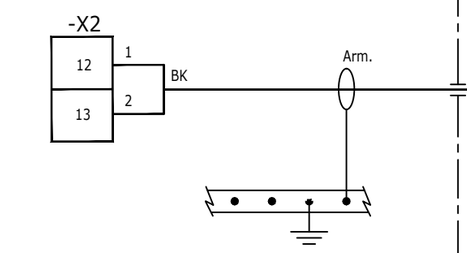
DESCRIPTION: DC UPS NAVAID SYSTEM
TAG NUMBER: NC-200F2



72207-CEC
2C X 2.5 mm²

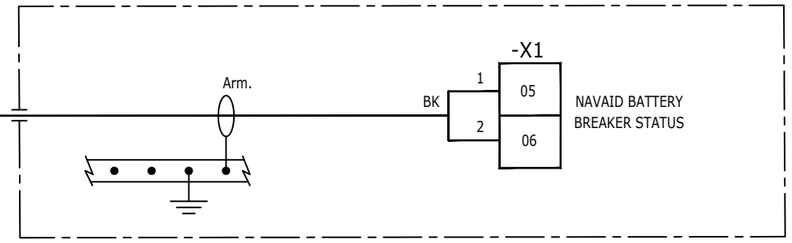
DESCRIPTION: NAV AIDS PHOTOCELL
TAG NUMBER: EPH-200-01



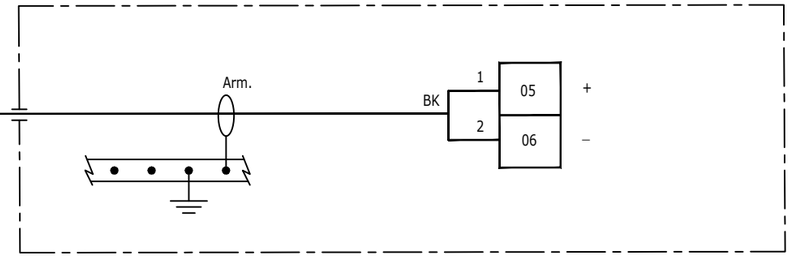


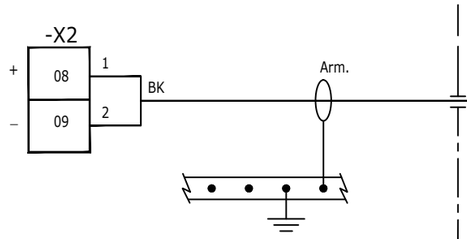
72208-CEC
2C X 2.5 mm²

DESCRIPTION: NAV AIDS BATTERY ISOLATOR
TAG NUMBER: CB-200F2



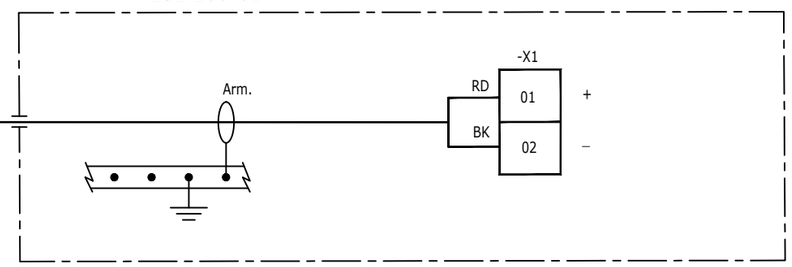
DESCRIPTION: NAV AIDS BATTERY BANK TEMPERATURE PROBE
TAG NUMBER: ETM-200-01

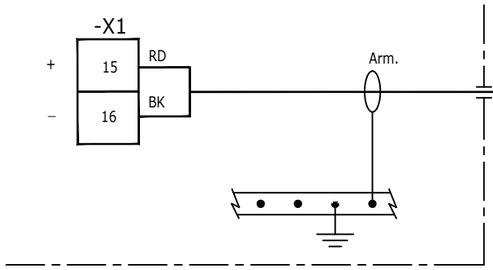




72209-CEC
2C X 2.5 mm²

DESCRIPTION: WAVE OFF STATUS LIGHT
TAG NUMBER: ESL-200-01





72210-CEL
2C X 2.5 mm²

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
DC UPS NAVAID SYSTEM NC-200F2

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 037

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: AC UPS - PAS DB
TAG NUMBER: DP-200F3

-X43

W — BN
N — BU
PE — Y/G
Arm.
PE

84301-CEL
3G2.5 mm²

DESCRIPTION: SIS -CONTROLLER AND I/O CABINET - LINE A
TAG NUMBER: B400-SIS-001

SS 79-00
TB-PS1_S

BN — 1
BU — 2
Y/G — 3
Arm.
PE

-X44

W — BN
N — BU
PE — Y/G
Arm.
PE

84302-CEL
3G2.5 mm²

DESCRIPTION: SIS -CONTROLLER AND I/O CABINET - LINE B
TAG NUMBER: B400-SIS-001

SS 79-00
TB-PS2_S

BN — 1
BU — 2
Y/G — 3
Arm.
PE

-X45

W — BN
N — BU
PE — Y/G
Arm.
PE

84303-CEL
3G2.5 mm²

DESCRIPTION: PCS -CONTROLLER AND I/O CABINET - LINE A
TAG NUMBER: B400-PCS-001

SS 87-10
TB-PS1

BN — 1
BU — 2
Y/G — 3
Arm.
PE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
DC UPS NAVAID SYSTEM & AC UPS – PAS DB

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 038

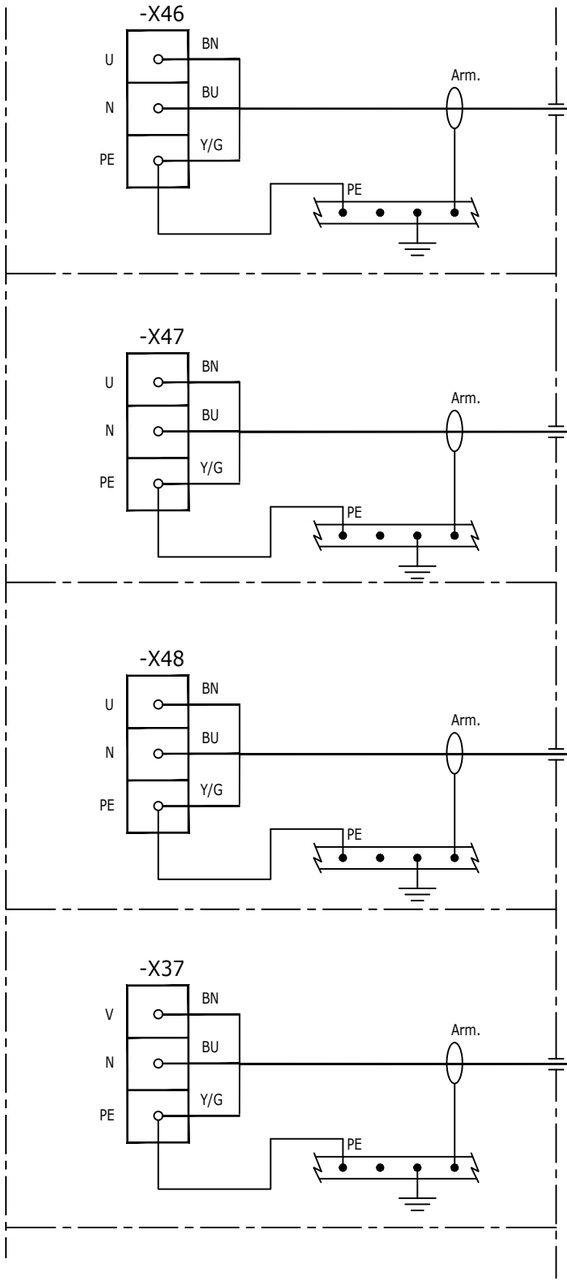
REV. 02

F.to UNI A3: 420mmx297mm

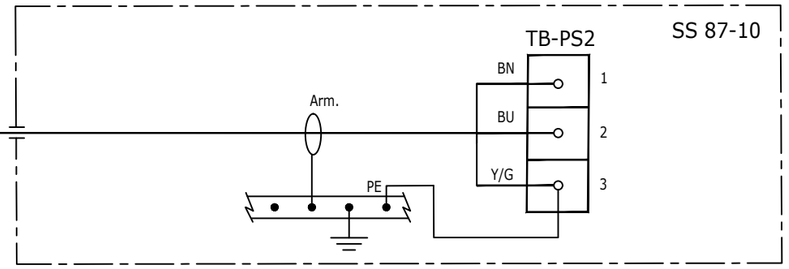
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

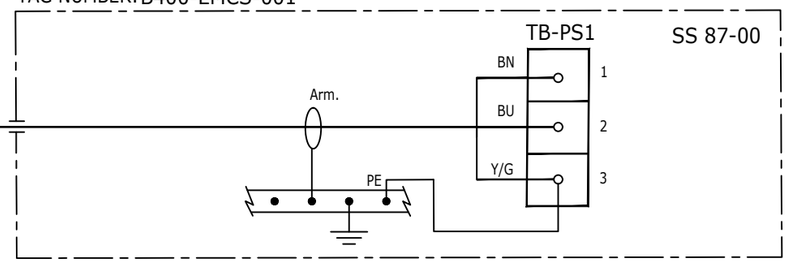
DESCRIPTION: AC UPS - PAS DB
TAG NUMBER: DP-200F3



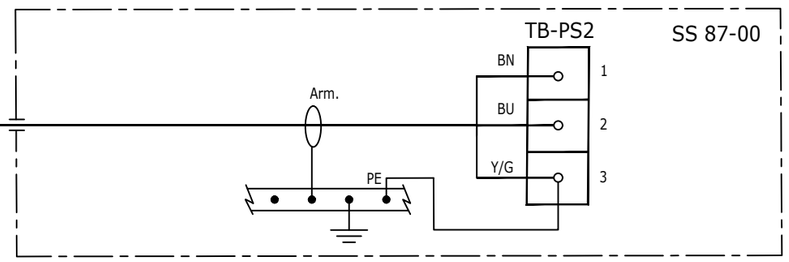
DESCRIPTION: PCS -CONTROLLER AND I/O CABINET - LINE B
TAG NUMBER: B400-PCS-001



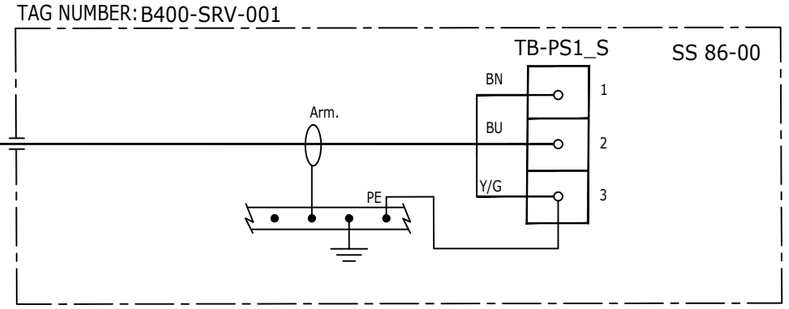
DESCRIPTION: EMCS -CONTROLLER AND I/O CABINET - LINE A
TAG NUMBER: B400-EMCS-001



DESCRIPTION: EMCS -CONTROLLER AND I/O CABINET - LINE B
TAG NUMBER: B400-EMCS-001



DESCRIPTION: SERVER CABINET ITER - LINE A
TAG NUMBER: B400-SRV-001



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS – PAS DB DP-200F3

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 039

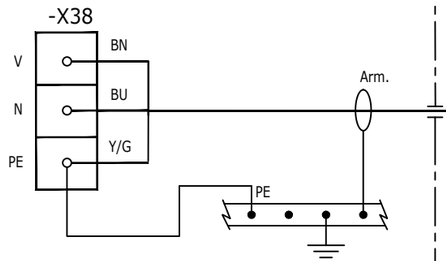
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

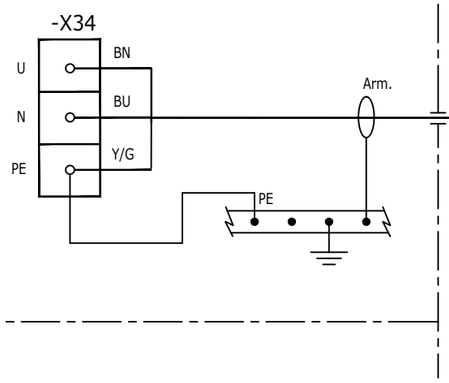
F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: AC UPS - PAS DB
TAG NUMBER: DP-200F3

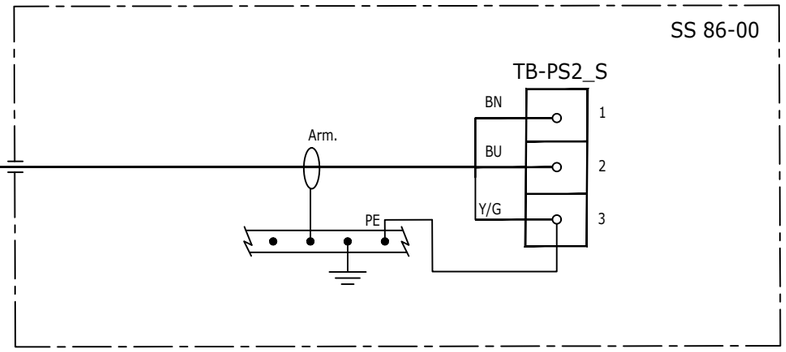


84308-CEL
3G6 mm²

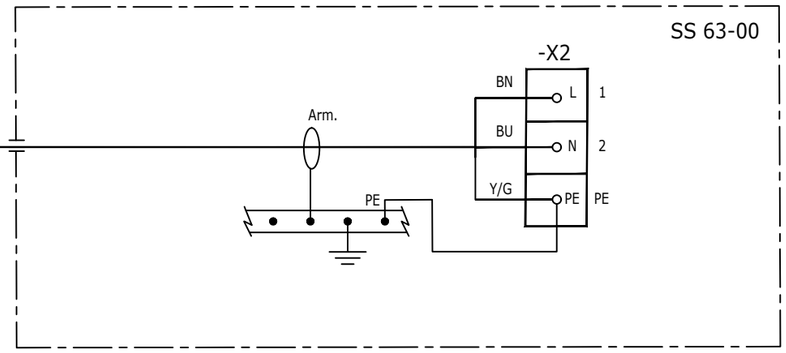


84311-CEL
3G2.5 mm²

DESCRIPTION: SERVER CABINET ITER - LINE B
TAG NUMBER: B400-SRV-001



DESCRIPTION: UCP - INSTRUMENT AIR PACKAGE A-63000
TAG NUMBER: CP-630E1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS – PAS DB DP–200F3

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90–DDL–EL–DG–20149

SHEET 040

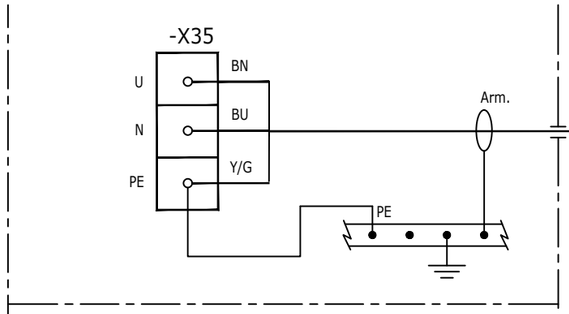
REV. 02

File Name : 123A90–DDL–EL–DG–20149 Rev. 02

F.to UNI A3: 420mmx297mm

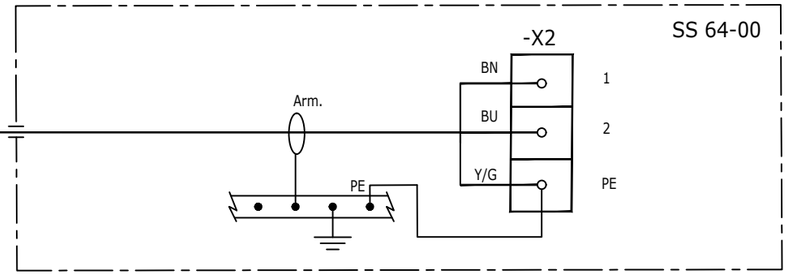
FROM	TO

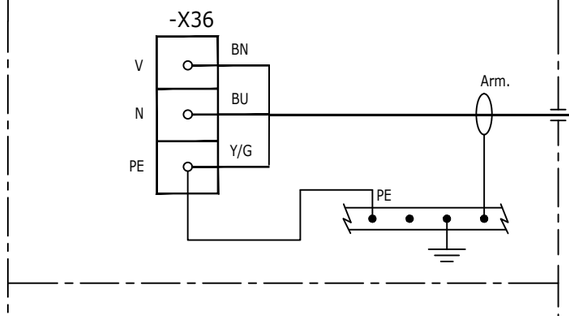
DESCRIPTION: AC UPS - PAS DB
TAG NUMBER: DP-200F3



84312-CEL
3G2.5 mm²

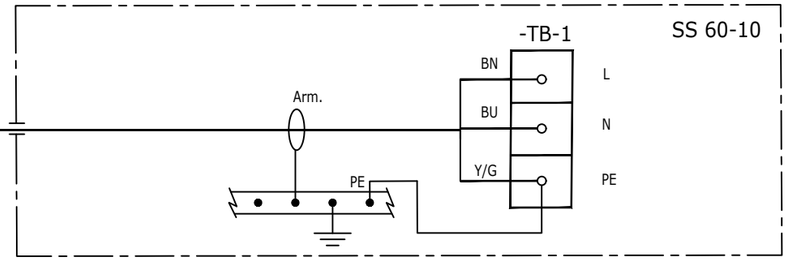
DESCRIPTION: UCP - N2 PACKAGE
TAG NUMBER: CP-640E1



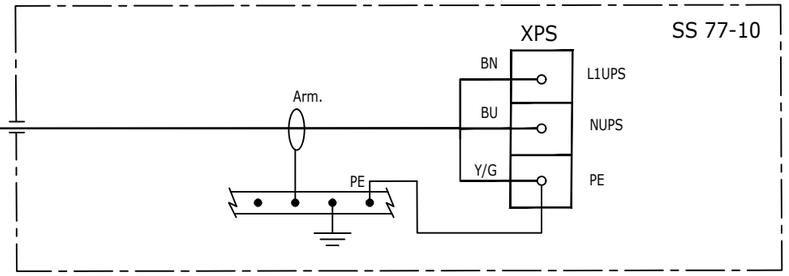


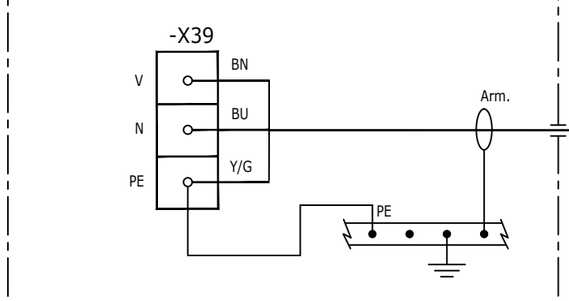
84313-CEL
3G2.5 mm²

DESCRIPTION: UCP - WATER PACKAGE
TAG NUMBER: JB-500F8



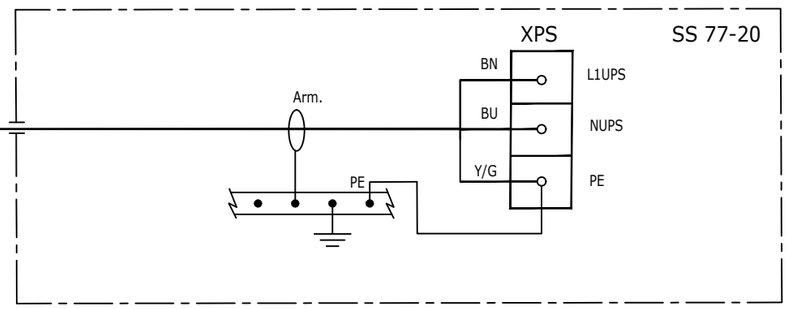
DESCRIPTION: UCP - HVAC HV ROOM
TAG NUMBER: B100-HSB-001

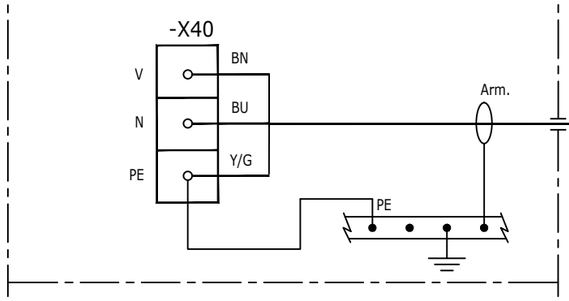




84314-CEL
3G2.5 mm²

DESCRIPTION: UCP - HVAC LV ROOM
TAG NUMBER: B200-HSB-001





REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS – PAS DB DP-200F3

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 041

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: AC UPS - PAS DB
TAG NUMBER: DP-200F3

-X41
W — BN
N — BU
PE — Y/G
Arm.
PE

84316-CEL
3G2.5 mm²

DESCRIPTION: UCP - HVAC UPS ROOM
TAG NUMBER: B300-HSB-001

XUPS
BN — LUPS
BU — NUPS
Y/G — PE
Arm.
PE

-X42
W — BN
N — BU
PE — Y/G
Arm.
PE

84317-CEL
3G2.5 mm²

DESCRIPTION: UCP - HVAC ITER
TAG NUMBER: B400-HSB-001

XUPS
BN — LUPS
BU — NUPS
Y/G — PE
Arm.
PE

-X49
U — BN
N — BU
PE — Y/G
Arm.
PE

84318-CEL
3G2.5 mm²

DESCRIPTION: LV SWITCHBOARD AUXILIARY
TAG NUMBER: SG-200N1

COLUMN: A2/02
-X2
BN — 56
BU — 57
Y/G
Arm.
PE

-X51
V — BN
N — BU
PE — Y/G
Arm.
PE

84319-CEL
3G2.5 mm²

DESCRIPTION: LV SWBD 800/460V AUXILIARY
TAG NUMBER: SG-200D2

-X2
BN — 44
BU — 45
Y/G
Arm.
PE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS – PAS DB DP-200F3

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 042

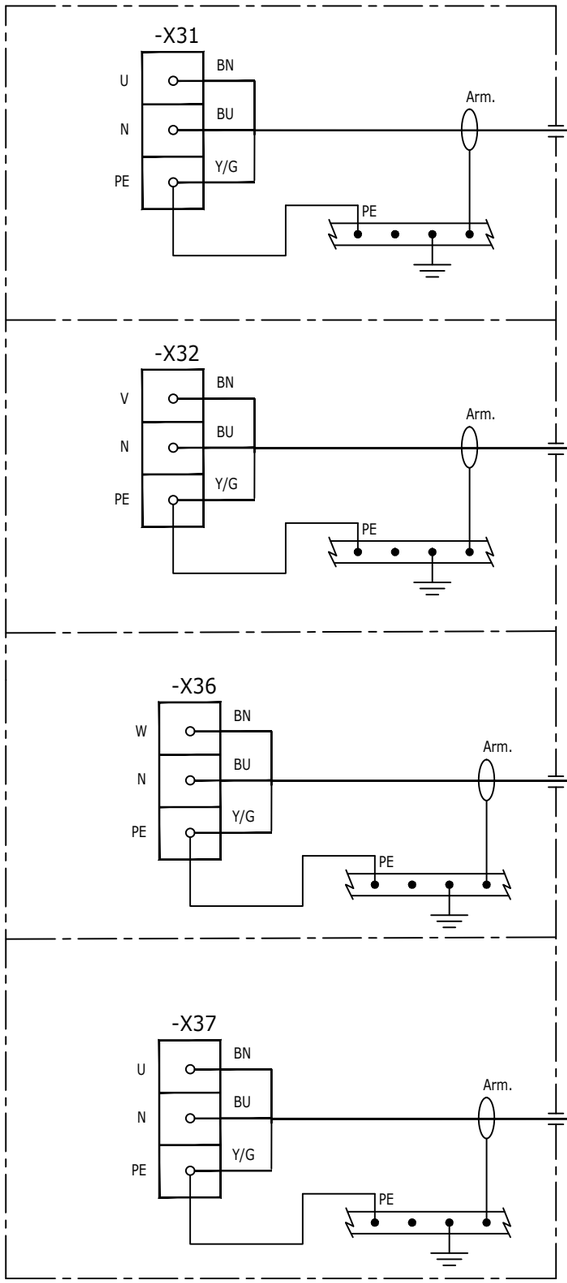
REV. 02

F.to UNI A3: 420mmx297mm

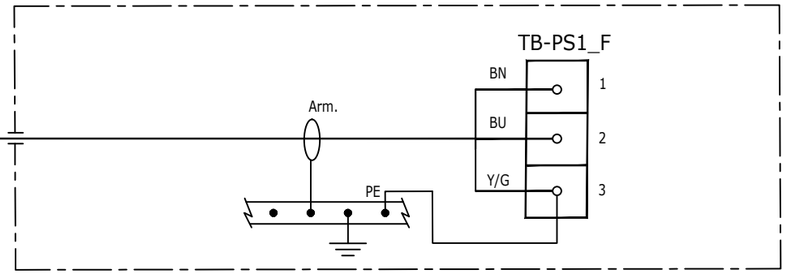
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

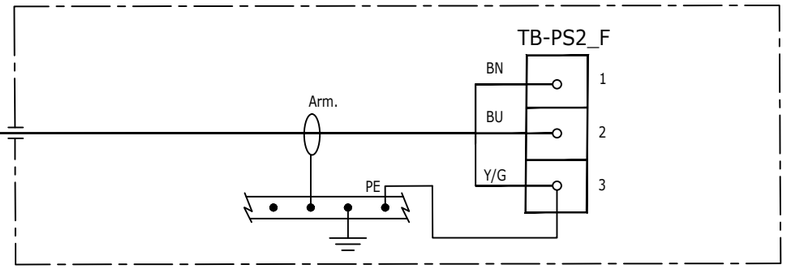
DESCRIPTION: AC UPS - F&G DB
TAG NUMBER: DP-200F4



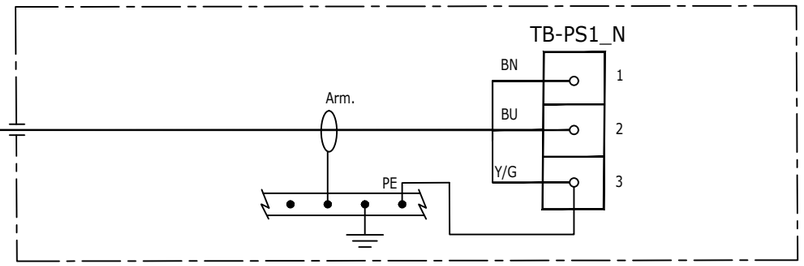
DESCRIPTION: FGS FIRE & GAS PANEL - LINE A
TAG NUMBER: B400-FGS-001



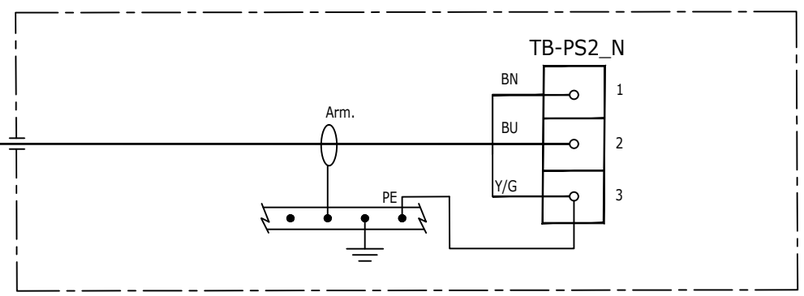
DESCRIPTION: FGS FIRE & GAS PANEL - LINE B
TAG NUMBER: B400-FGS-001



DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - LINE A
TAG NUMBER: B400-NET-001



DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - LINE B
TAG NUMBER: B400-NET-001



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS – F&G DB (DP-200F4)

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 043

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 044

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION:LIGHTING & SMALL POWER DB BOP
TAG NUMBER:DP-200N1

CUBICLE/CB: +01/Q2

-X1

L1/2 — 10 — BN
N/2 — 11 — BU
Y/G
PE

P.E. BUS BAR

P-EJB-200N1-02-L1-01
3G4 mm²

DESCRIPTION:NORMAL LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER:EJB-200N1-02-L1-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +02/Q3

-X1

L2/3 — 12 — BN
N/3 — 13 — BU
Y/G
PE

P.E. BUS BAR

P-EJB-200N1-03-L2-01
3G4 mm²

DESCRIPTION:NORMAL LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER:EJB-200N1-03-L2-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +02/Q4

-X1

L3/4 — 14 — BN
N/4 — 15 — BU
Y/G
PE

P.E. BUS BAR

P-EJB-200N1-04-L3-01
3G4 mm²

DESCRIPTION:NORMAL LIGHTING - STAIRS
TAG NUMBER:EJB-200N1-04-L3-01

BN → L
BU → N
Y/G → PE

CUBICLE/CB: +03/Q5

-X1

L1/5 — 80 — BN
N/5 — 81 — BU
Y/G
PE

P.E. BUS BAR

P-ESO-200N1-05-L1-01
3G10 mm²

DESCRIPTION:SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER:ESO-200N1-05-L1-01

BN: L → BN
BU: N → BU
Y/G: PE → Y/G

P-ESO-200N1-05-L1-02
3G10 mm²

DESCRIPTION:SMALL POWER SOCKET JB(UPPER DECK)
TAG NUMBER:ESO-200N1-05-L1-02

BN → L
BU → N
Y/G → PE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 045

REV. 02

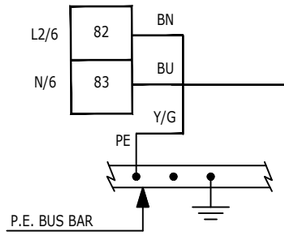
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

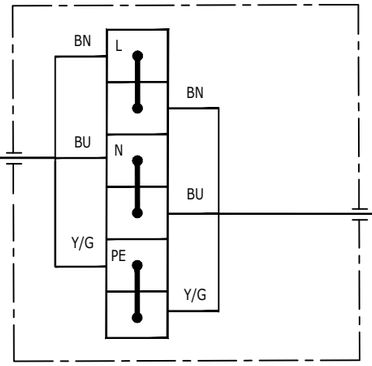
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q6



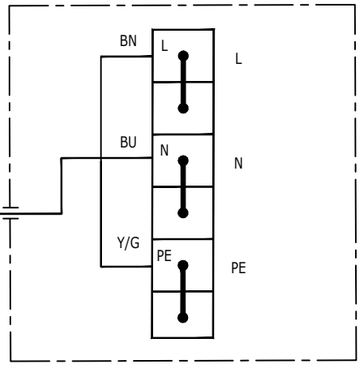
P-ESO-200N1-06-L2-01
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(LOWER DECK)
TAG NUMBER: ESO-200N1-06-L2-01

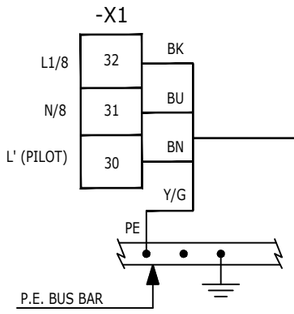


P-ESO-200N1-06-L2-02
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(LOWER DECK)
TAG NUMBER: ESO-200N1-06-L2-02

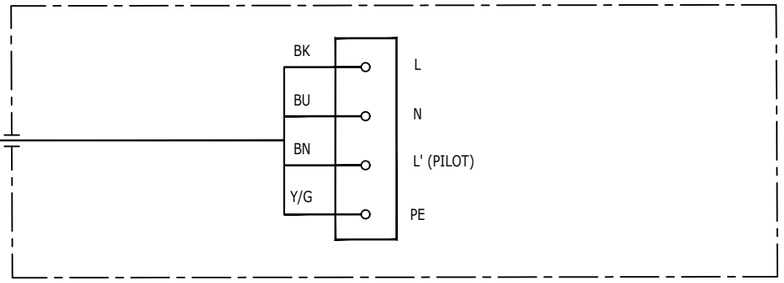


CUBICLE/CB: +01/Q8

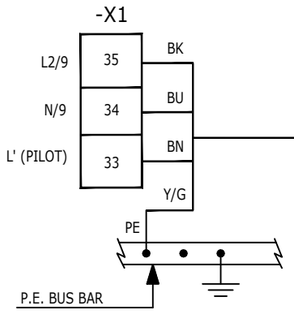


P-EJB-200N1-08-L1-04
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-08-L1-04

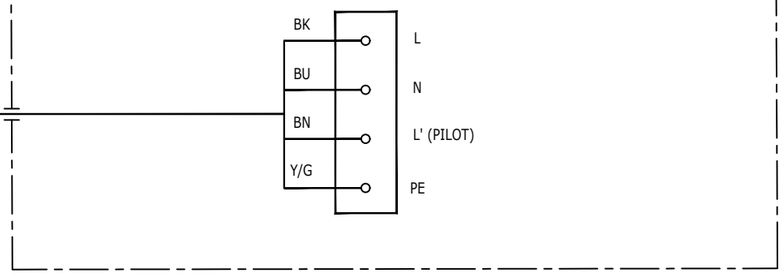


CUBICLE/CB: +01/Q9



P-EJB-200N1-09-L2-01
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-09-L2-01



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 046

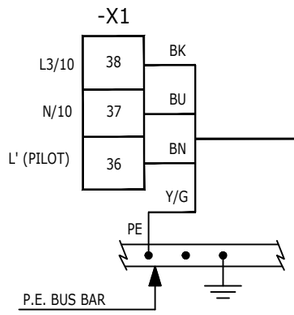
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

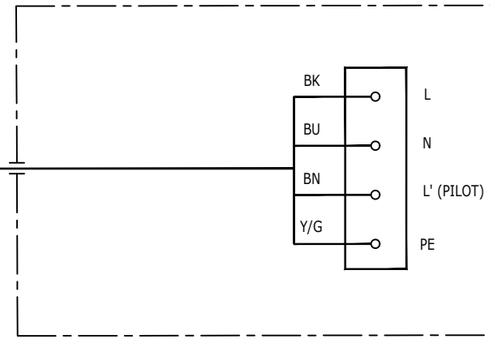
FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q10

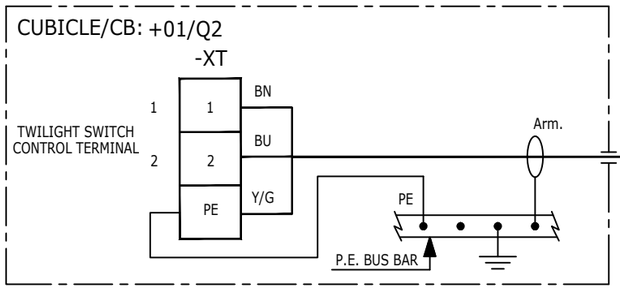


P-EJB-200N1-10-L3-01
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING STAIRS
TAG NUMBER: EJB-200N1-10-L3-01

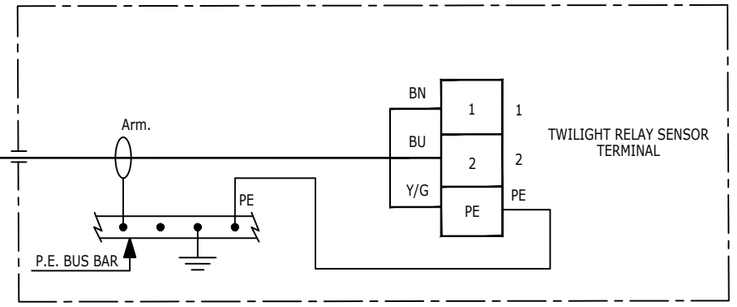


DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +01/Q2

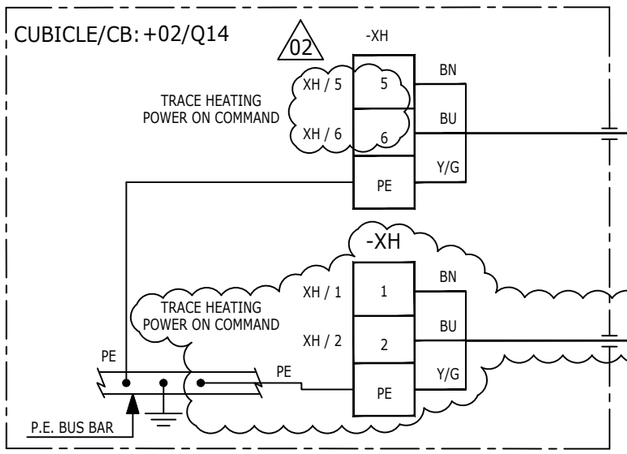


P-EPH-200N1-01
3G4 mm²

DESCRIPTION: TWILIGHT RELAY SENSOR
TAG NUMBER: EPH-200N1-01



DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1
CUBICLE/CB: +02/Q14

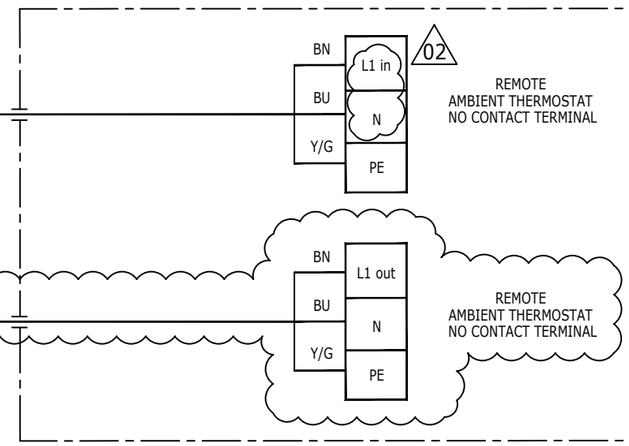


P-EAT-200N1-01
3G2.5 mm²

02

P-EAT-200N1-02
3G2.5 mm²

DESCRIPTION: REMOTE AMBIENT THERMOSTAT
TAG NUMBER: EAT-200N1-01



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 047

REV. 02

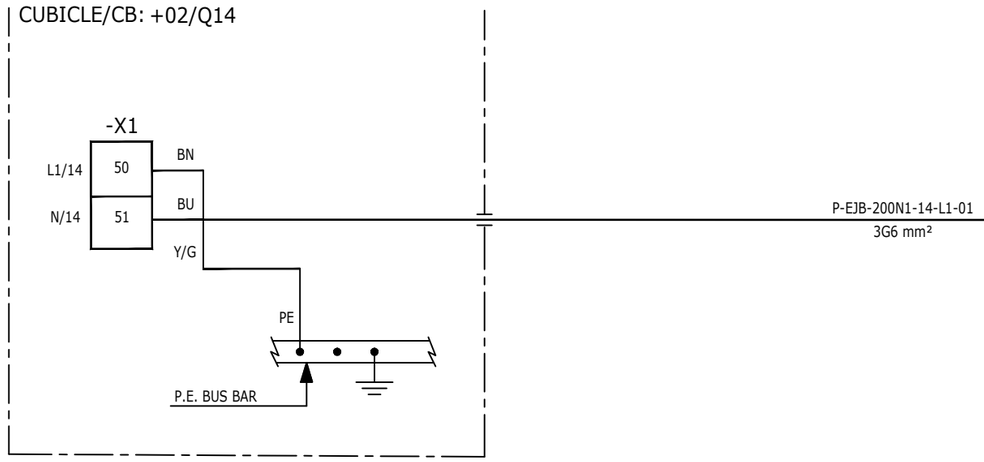
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +02/Q14



DESCRIPTION: TRACE HEATING - PROCESS LINES
- FEEDER 1 (SWS LINES)

TAG NUMBER: EJB-200N1-14-L1-01

TAG NUMBER: ETB-200N1-14-L1-01
FOR PIPE LINE: SWS-35

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
TRACE HEATING PROCESS LINES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 048

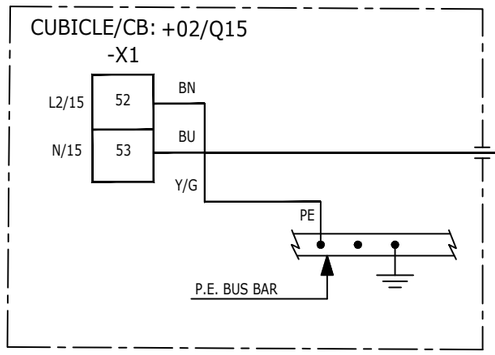
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

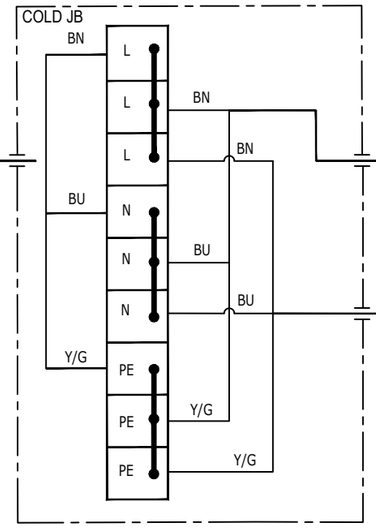
FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1



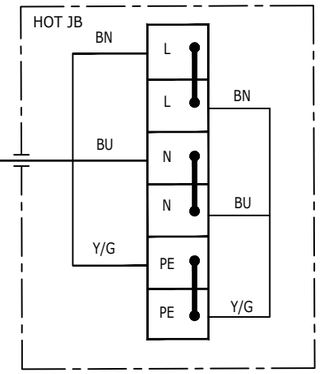
P-EJB-200N1-15-L2-01
3G6 mm²

DESCRIPTION: TRACE HEATING - PROCESS LINES
- FEEDER 2 (CI LINES)
TAG NUMBER: EJB-200N1-15-L2-01



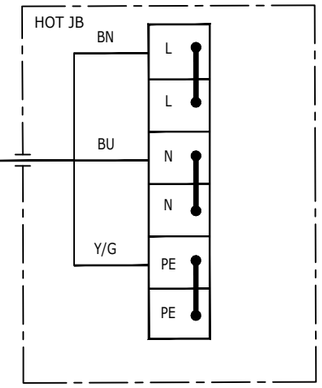
P-ETB-200N1-15-L2-01
3G6 mm²

TAG NUMBER: ETB-200N1-15-L2-01
FOR PIPE LINE: CI-029

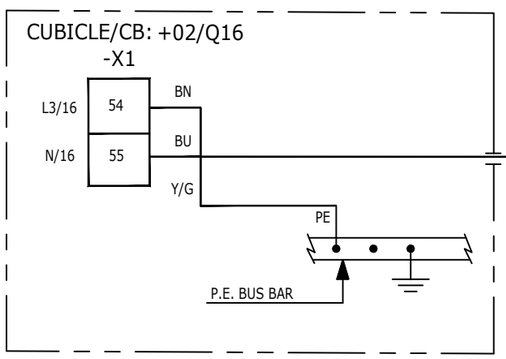


P-ETB-200N1-15-L2-02
3G6 mm²

TAG NUMBER: ETB-200N1-15-L2-02
FOR PIPE LINE: CI-043

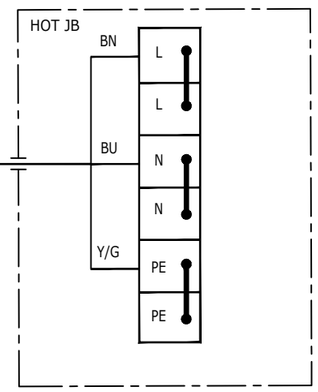


DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1



P-ETB-200N1-16-L3-01
3G6 mm²

DESCRIPTION: TRACE HEATING
PROCESS LINES - FEEDER 3 (DM 001)
TAG NUMBER: ETB-200N1-16-L3-01



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
TRACE HEATING PROCESS LINES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 049

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q17

-X1

L1/17 — 56 — BN
N/17 — 57 — BU
Y/G
PE
P.E. BUS BAR

P-EJB-200N1-17-L1-01
3G6 mm²

DESCRIPTION: TRACE HEATING - PROCESS LINES - FEEDER 4 (WW LINES & LT)
TAG NUMBER: EJB-200N1-17-L1-01

COLD JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

P-ETB-200N1-17-L1-01
3G6 mm²

DESCRIPTION: TRACE HEATING INSTRUMENT - 43-LT-003
TAG NUMBER: ETB-200N1-17-L1-01

HOT JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

P-ETB-200N1-17-L1-02
3G6 mm²

DESCRIPTION: TRACE HEATING PROCESS LINE (WW 202) ##
TAG NUMBER: ETB-200N1-17-L1-02

HOT JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

P-ETB-200N1-17-L1-03
3G6 mm²

DESCRIPTION: TRACE HEATING PROCESS LINE (WW 260)
TAG NUMBER: ETB-200N1-17-L1-03

HOT JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

DESCRIPTION: TRACE HEATING PROCESS LINE (WW 259)
TAG NUMBER: ETB-200N1-17-L1-04

P-ETB-200N1-17-L1-04
3G6 mm²

HOT JB

BN — L — BN
BU — N — BU
Y/G — PE — Y/G

- PIPE LINE WW-202 TRACED FROM NOZZLE N3 UPTO SWAN NECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
TRACE HEATING PROCESS LINES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 050

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q19

-X1

L3/19 — 60 — BN
N/19 — 61 — BU
Y/G
PE
P.E. BUS BAR

P-ETB-200N1-19-L3-01
3G6 mm²

DESCRIPTION: TRACE HEATING - PROCESS LINES - FEEDER 6 (H2 VENT)
TAG NUMBER: ETB-200N1-19-L3-01

HOT JB

BN — L, L
BU — N, N
Y/G — PE, PE

NOTE:
JB SUPPLIED BY
VENDOR OF PACKAGE

CUBICLE/CB: +03/Q20

-X1

L1/20 — 62 — BN
N/20 — 63 — BU
Y/G
PE
P.E. BUS BAR

P-EJB-200N1-20-L1-01
3G6 mm²

DESCRIPTION: TRACE HEATING - PROCESS LINES
- FEEDER 7 (SEA WATER PUMPS)
TAG NUMBER: EJB-200N1-20-L1-01

BN — L, L, L
BU — N, N, N
Y/G — PE, PE, PE

BN, BU, Y/G

P-ETB-200N1-20-L1-01A
3G6 mm²

P-ETB-200N1-20-L1-01B
3G6 mm²

NOTE:
HOT JB SUPPLIED BY
VENDOR OF PACKAGE

TAG NUMBER: ETB-200N1-20-L1-01A

HOT JB

BN — L, L
BU — N, N
Y/G — PE, PE

TAG NUMBER: ETB-200N1-20-L1-01B

HOT JB

BN — L, L
BU — N, N
Y/G — PE, PE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
TRACE HEATING PROCESS LINES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 051

REV. 02

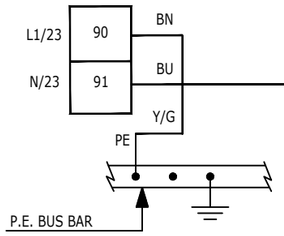
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

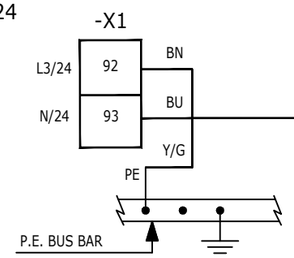
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q23



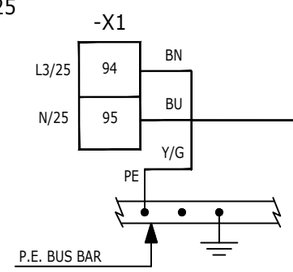
83104-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q24



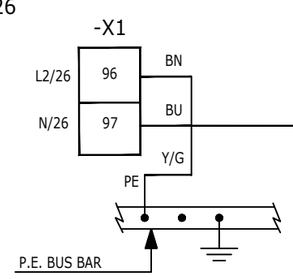
83105-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q25



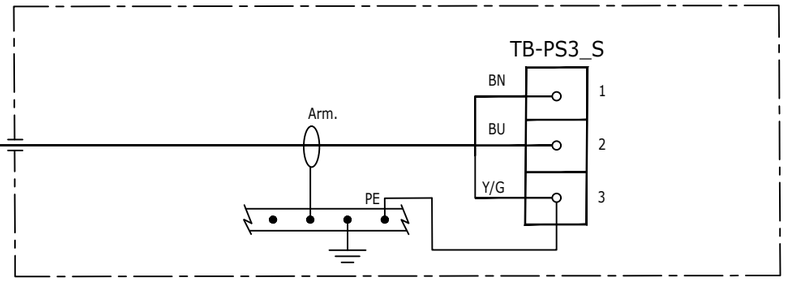
83106-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q26

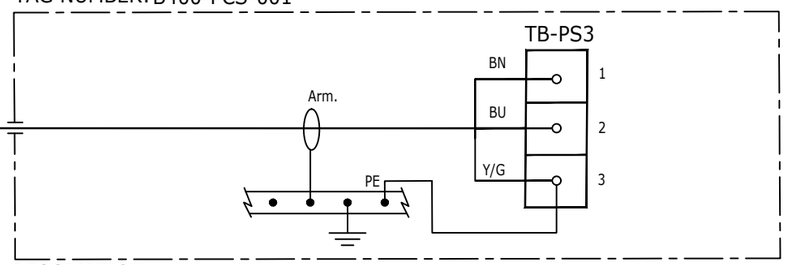


83107-CEL
3G2.5 mm²

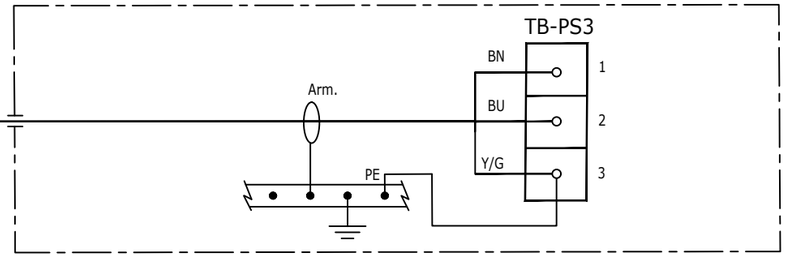
DESCRIPTION: SIS -CONTROLLER AND I/O CABINET - AUXILIARY
TAG NUMBER: B400-SIS-001



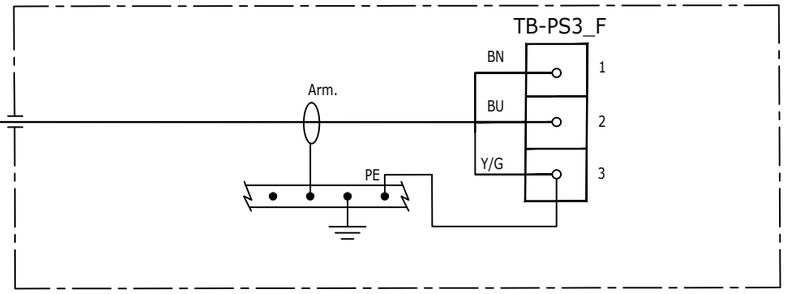
DESCRIPTION: PCS -CONTROLLER AND I/O CABINET - AUXILIARY
TAG NUMBER: B400-PCS-001



DESCRIPTION: EMCS -CONTROLLER AND I/O CABINET - AUXILIARY
TAG NUMBER: B400-EMCS-001



DESCRIPTION: FGS FIRE & GAS PANEL - AUXILIARY
TAG NUMBER: B400-FGS-001



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 052

REV. 02

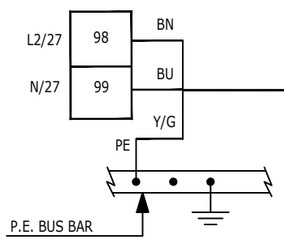
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

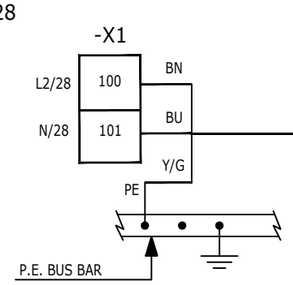
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q27



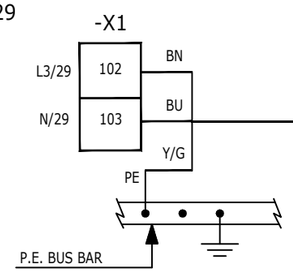
83108-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q28



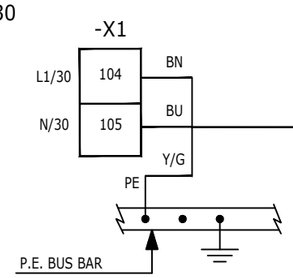
83109-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q29



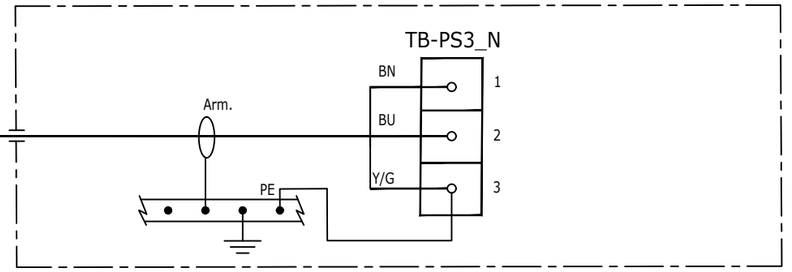
83110-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q30

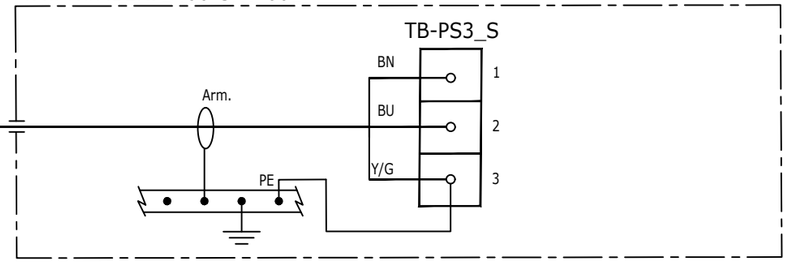


83111-CEL
3G2.5 mm²

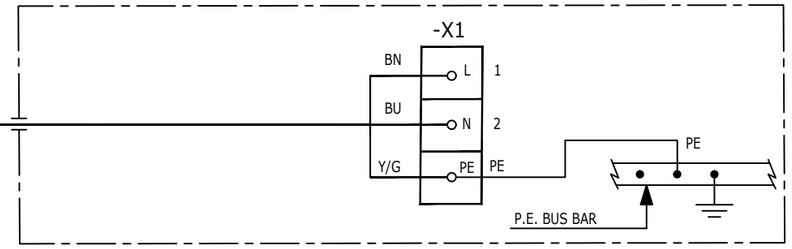
DESCRIPTION: SYSTEM SERVER / NETWORK CABINET - AUXILIARY
TAG NUMBER: B400-NET-001



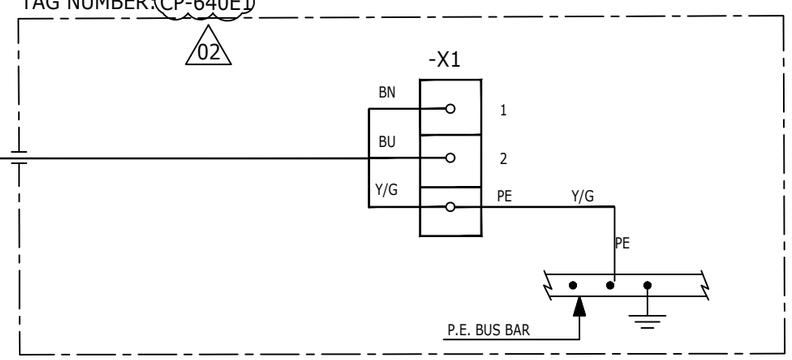
DESCRIPTION: SERVER CABINER ITER - AUXILIARY
TAG NUMBER: B400-SRV-001



DESCRIPTION: UCP - INSTRUMENT AIR PACKAGE -A-63000 - AUXILIARY
TAG NUMBER: CP-630E1



DESCRIPTION: UCP - N2 PACKAGE - AUXILIARY
TAG NUMBER: CP-640E1
02



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 053

REV. 02

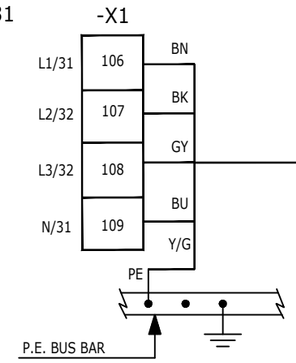
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

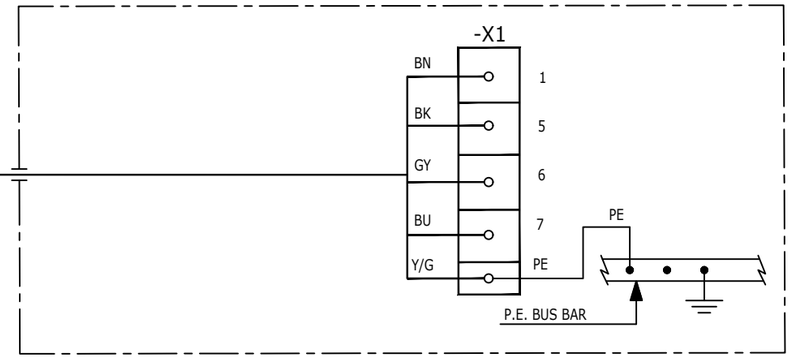
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q31

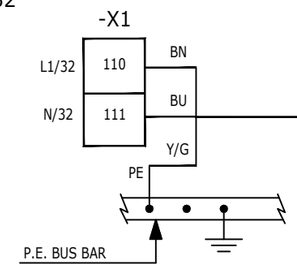


83112-CEL
5G4 mm²

DESCRIPTION: AUXILIARY TRAFO OLTC
TAG NUMBER: CP-100E2

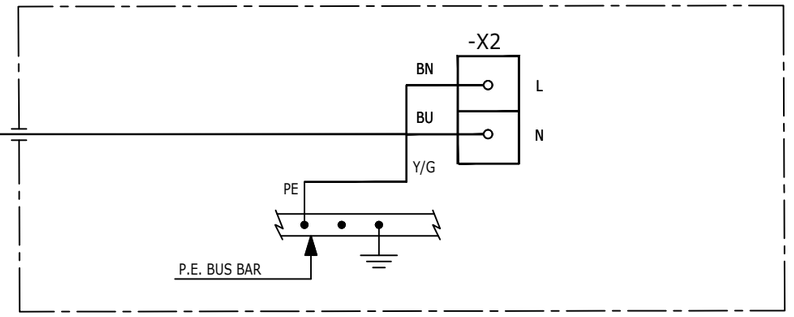


CUBICLE/CB: +03/Q32



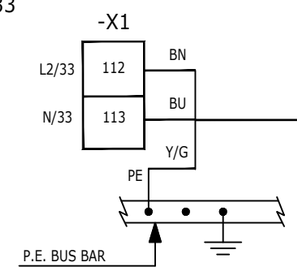
83113-CEL
3G2.5 mm²

DESCRIPTION: AUXILIARY TRAFO AVR
TAG NUMBER: CP-100E3

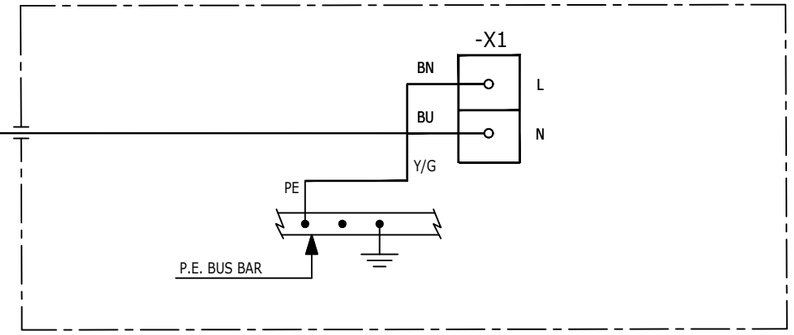


DESCRIPTION: AUXILIARY TRAFO 7MVA
TAG NUMBER: CP-100E4

CUBICLE/CB: +03/Q33



83114-CEL
3G2.5 mm²



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 054

REV. 02

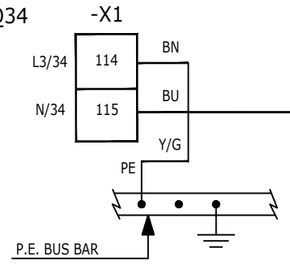
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

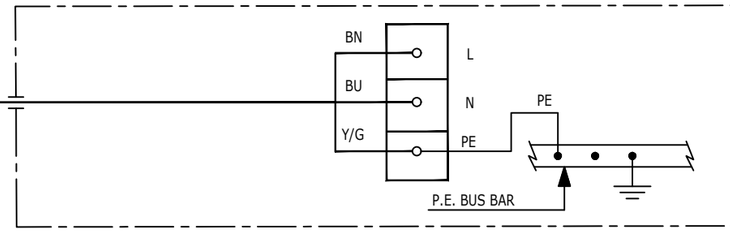
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q34

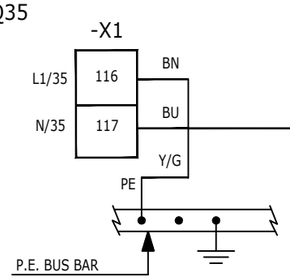


83115-CEL
3G2.5 mm²

DESCRIPTION: AUXILIARY NER
TAG NUMBER: RR-100D1

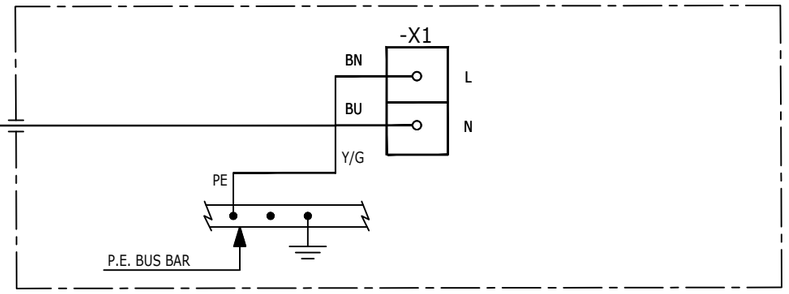


CUBICLE/CB: +03/Q35

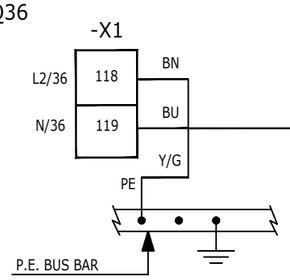


83116-CEL
3G2.5 mm²

DESCRIPTION: AUXILIARY TRAFO 1,6MVA
TAG NUMBER: CP-200E1

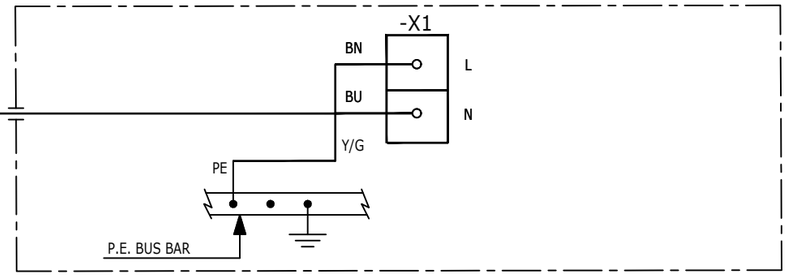


CUBICLE/CB: +03/Q36

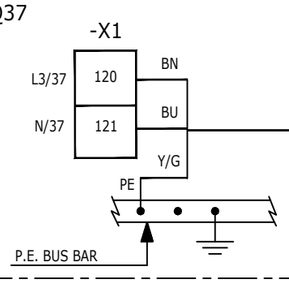


83117-CEL
3G2.5 mm²

DESCRIPTION: AUXILIARY TRAFO SOLAR 0,5MVA
TAG NUMBER: CP-200E2

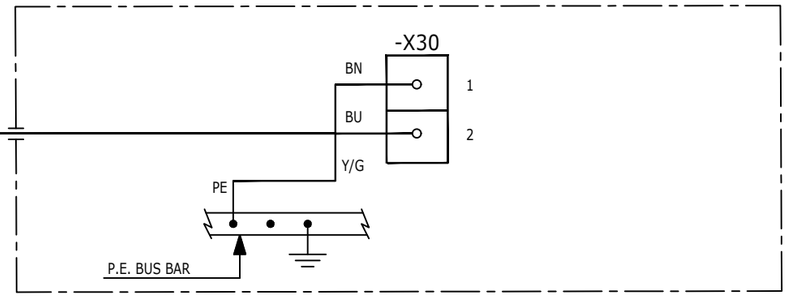


CUBICLE/CB: +03/Q37



83118-CEL
3G6 mm²

DESCRIPTION: AUXILIARY GIS
TAG NUMBER: CP-100E1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 055

REV. 02

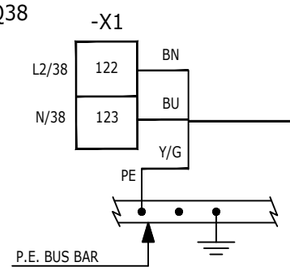
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

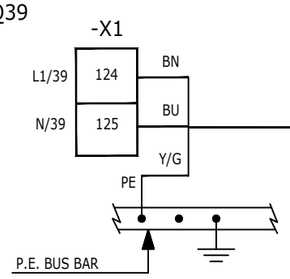
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q38



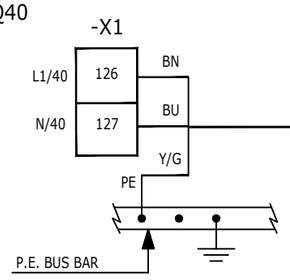
83119-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q39



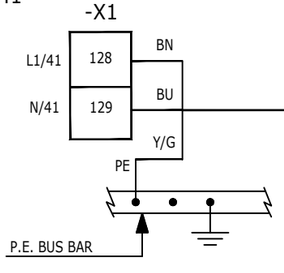
83120-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q40



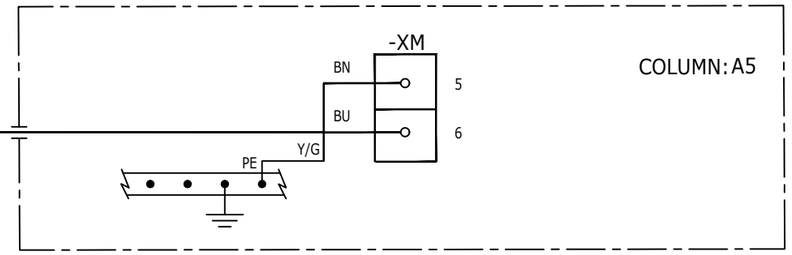
83121-CEL
3G2.5 mm²

CUBICLE/CB: +03/Q41

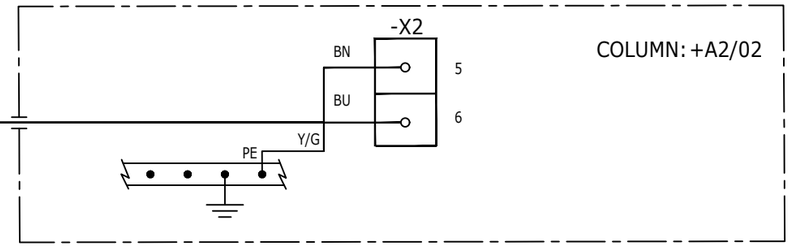


83122-CEL
3G2.5 mm²

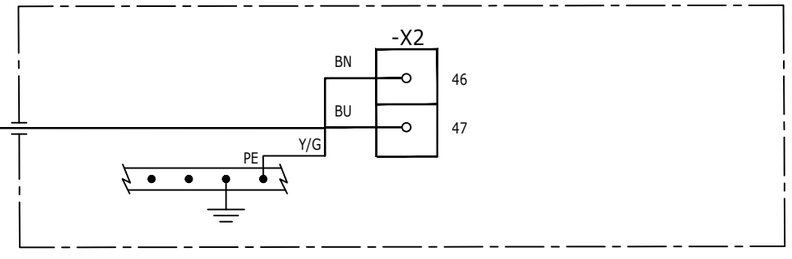
DESCRIPTION: AUXILIARY 6.6KV SWITCHBOARD
TAG NUMBER: SG-100D1



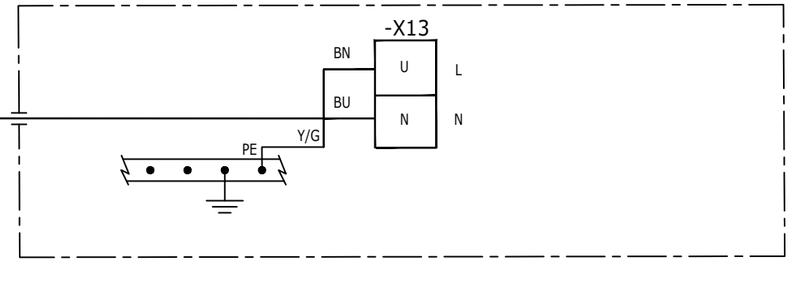
DESCRIPTION: AUXILIARY LV
TAG NUMBER: SG-200N1



DESCRIPTION: LV SWBD 800/460V AUXILIARY
TAG NUMBER: SG-200D2



DESCRIPTION: AC UPS PAS AUXILIARY
TAG NUMBER: UP-200F3



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 056

REV. 02

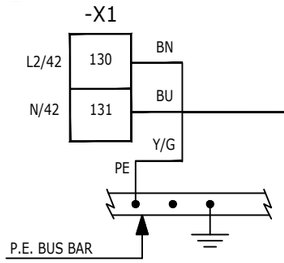
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

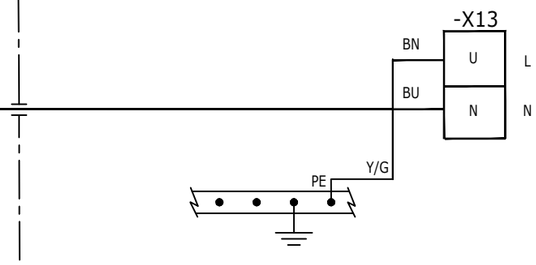
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q42

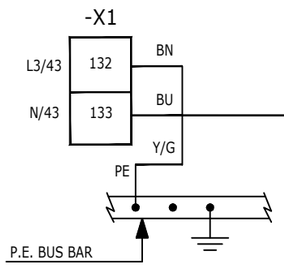


83123-CEL
3G2.5 mm²

DESCRIPTION: AC UPS F&G AUXILIARY
TAG NUMBER: UP-200F4

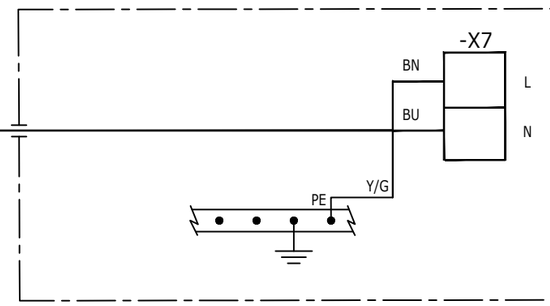


CUBICLE/CB: +03/Q43



83124-CEL
3G2.5 mm²

DESCRIPTION: DC BATTERY SYSTEM AUXILIARY
TAG NUMBER: UP-200F1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 057

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 058

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 059

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: IMPRESSED CURRENT CATHODIC PROTECTION (ICCP) SYSTEM
TAG NUMBER: CN-200N1

-X0

L	191	BN
N	193	BU

5W2.1
2C X 2.5 mm²

DESCRIPTION: ASSEMBLE JUNCTION BOX EXTERNAL SYSTEM
TAG NUMBER: EAJ-200-02

-X1

BN	1	L
BU	2	N

DESCRIPTION: ASSEMBLE JUNCTION BOX INTERNAL SYSTEM
TAG NUMBER: EAJ-200-01

-X0

L	291	BN
N	293	BU

6W2.1
2C X 2.5 mm²

-X3

BN	1	L
BU	2	N

DESCRIPTION: ASSEMBLE JUNCTION BOX EXTERNAL SYSTEM
TAG NUMBER: EAJ-200-02

-X1:1

2	BK	

7WD3
1C X 70 mm²

-X2:1

BK	2	

DESCRIPTION: ASSEMBLE JUNCTION BOX INTERNAL SYSTEM
TAG NUMBER: EAJ-200-01

-X1:2

2	BK	

7WD6.1
1C X 70 mm²

-X4:1

BK	2	

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 060

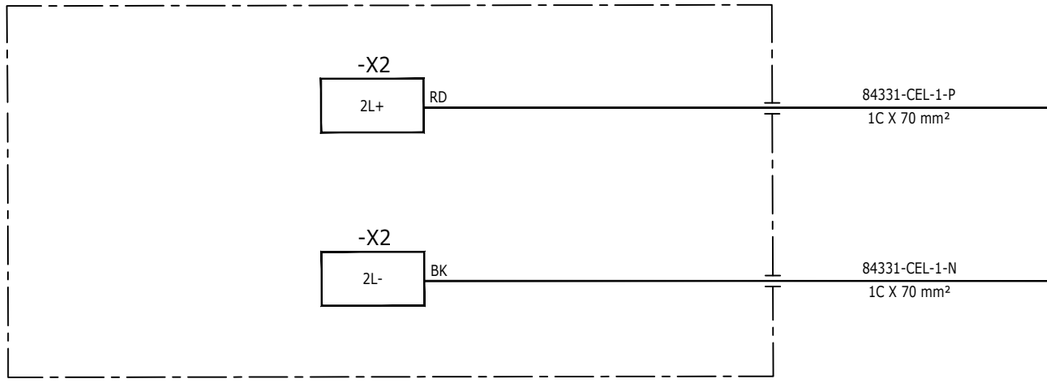
REV. 02

F.to UNI A3: 420mmx297mm

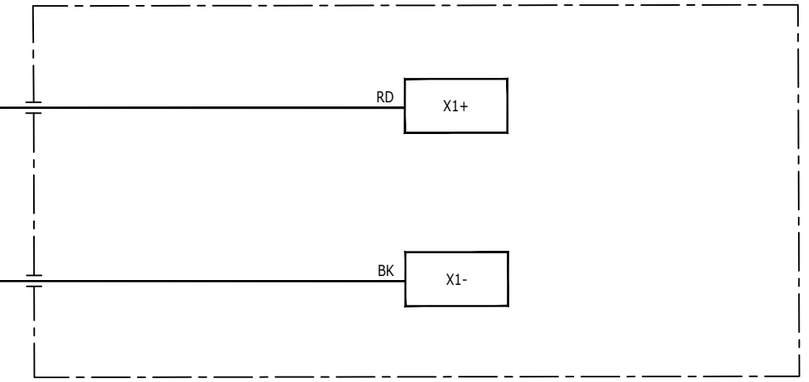
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

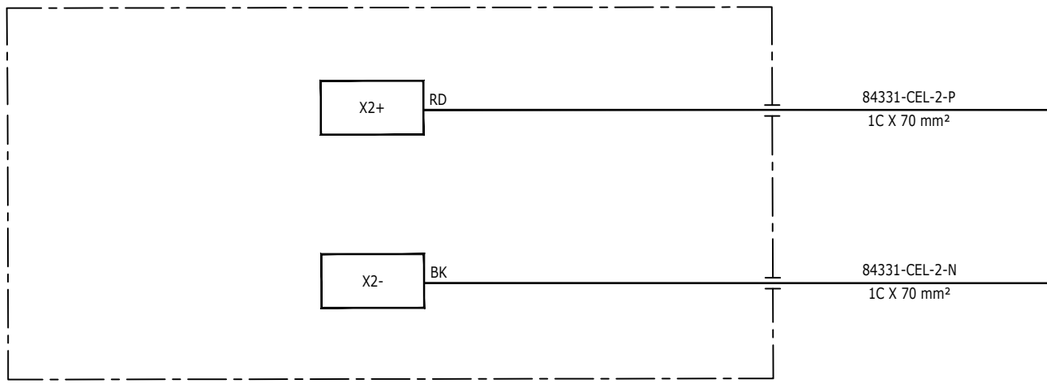
DESCRIPTION: AC UPS PAS - CHARGER-A
TAG NUMBER: BC-200F3A



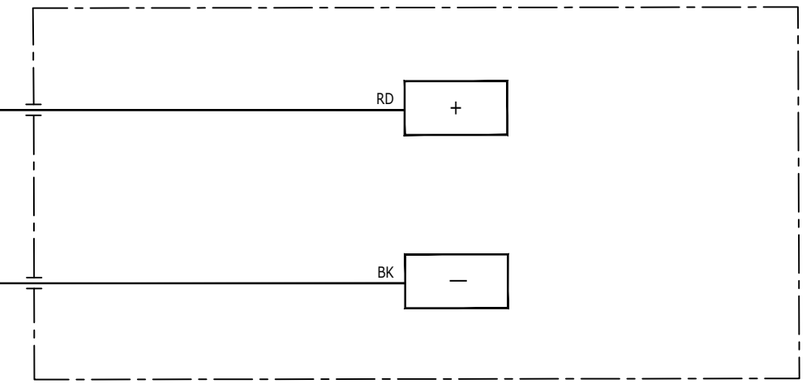
DESCRIPTION: AC UPS PAS - BATTERY ISOLATOR-A
TAG NUMBER: CB-200F3A



DESCRIPTION: AC UPS PAS - BATTERY ISOLATOR-A
TAG NUMBER: CB-200F3A



DESCRIPTION: AC UPS PAS - BATTERY-A
TAG NUMBER: BA-200F3A



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS PAS – CHARGER-A & BATTERY ISOLATOR-A

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 061

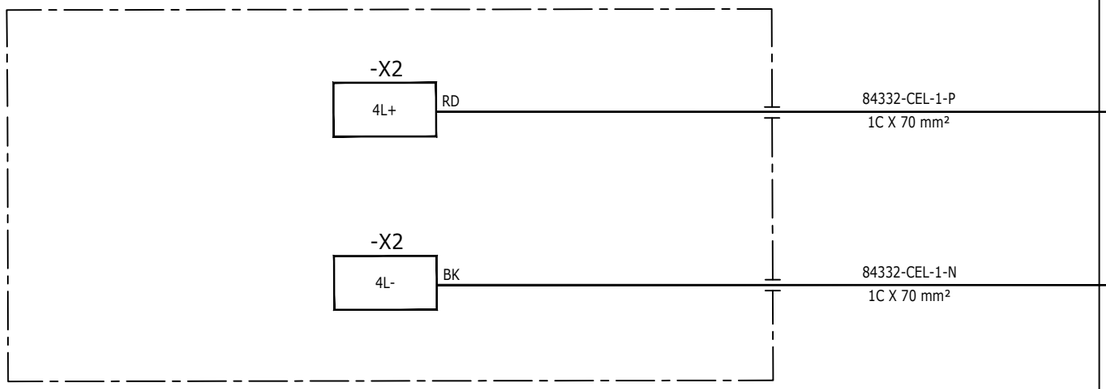
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

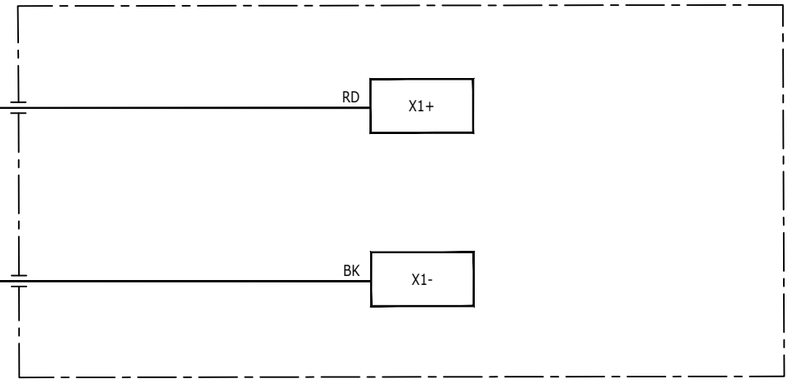
F.to UNI A3: 420mmx297mm

FROM	TO

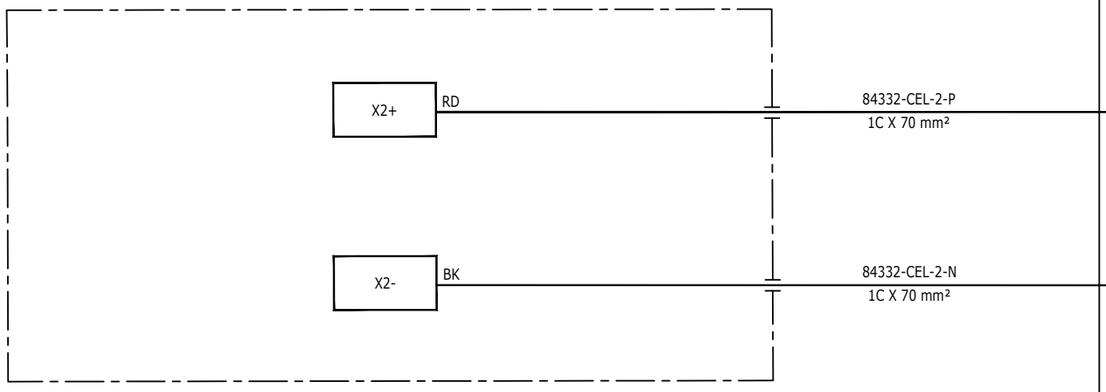
DESCRIPTION: AC UPS PAS- CHARGER-B
TAG NUMBER: BC-200F3B



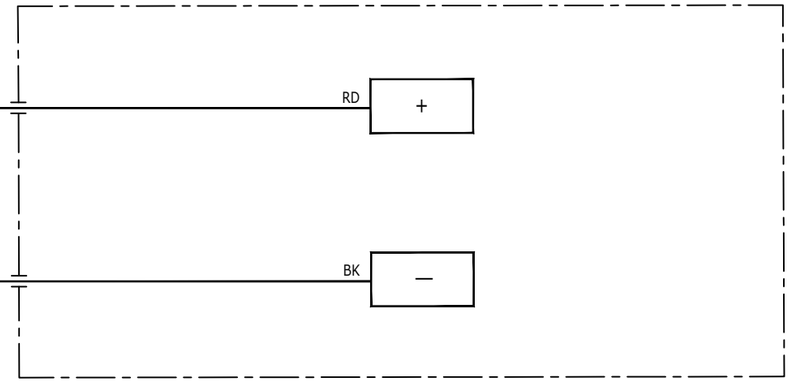
DESCRIPTION: AC UPS PAS - BATTERY ISOLATOR-B
TAG NUMBER: CB-200F3B



DESCRIPTION: AC UPS PAS - BATTERY ISOLATOR-B
TAG NUMBER: CB-200F3B



DESCRIPTION: AC UPS PAS - BATTERY-B
TAG NUMBER: BA-200F3B



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS PAS – CHARGER–B & BATTERY ISOLATOR–B

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90–DDL–EL–DG–20149

SHEET 062

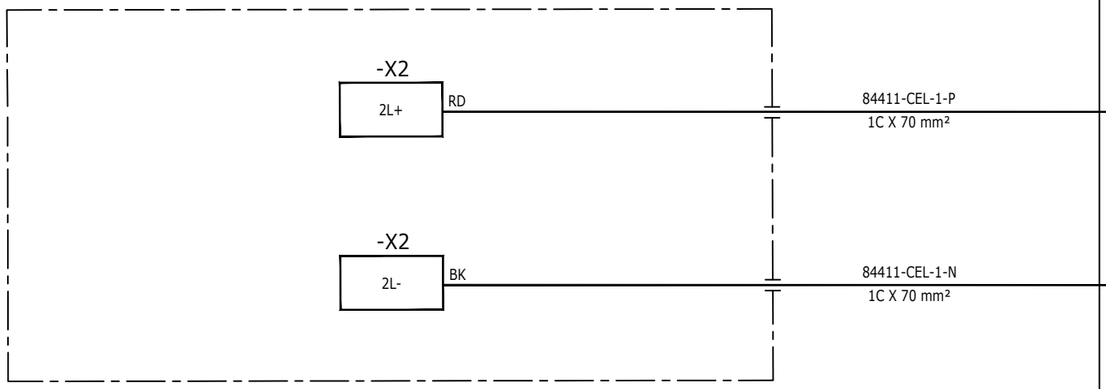
REV. 02

F.to UNI A3: 420mmx297mm

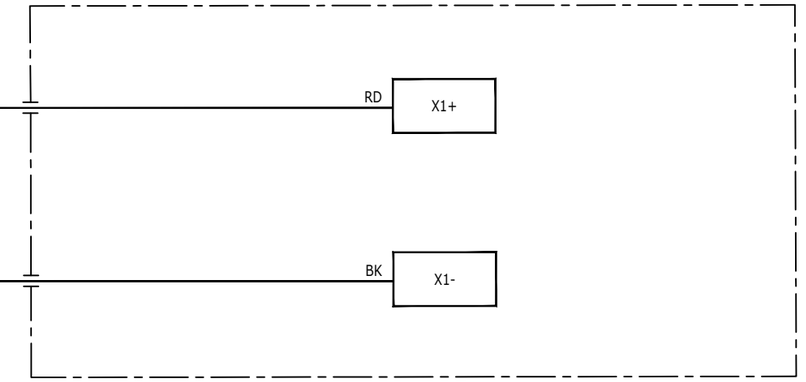
File Name : 123A90–DDL–EL–DG–20149 Rev. 02

FROM	TO

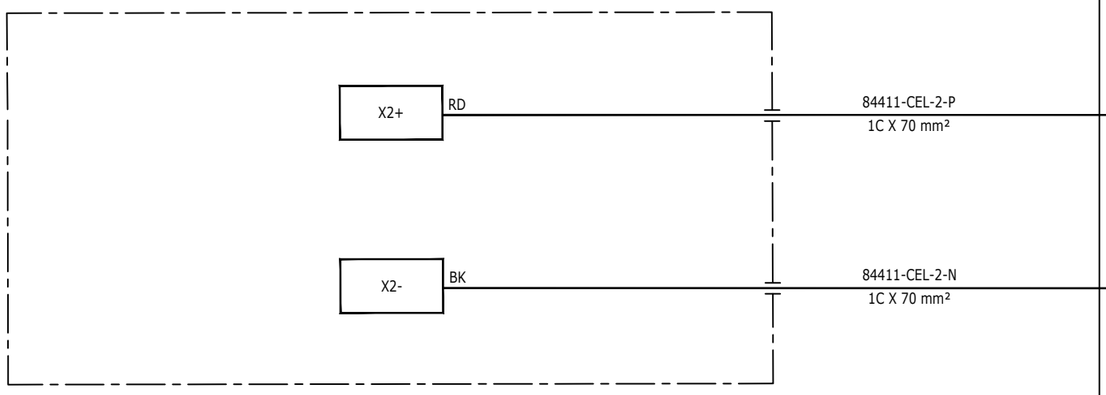
DESCRIPTION: AC UPS F&G - CHARGER-A
TAG NUMBER: BC-200F4A



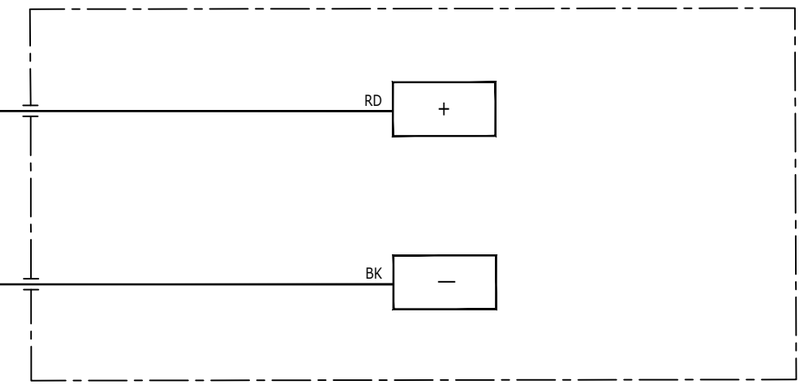
DESCRIPTION: AC UPS F&G - BATTERY ISOLATOR-A
TAG NUMBER: CB-200F4A



DESCRIPTION: AC UPS F&G - BATTERY ISOLATOR-A
TAG NUMBER: CB-200F4A



DESCRIPTION: AC UPS F&G - BATTERY-A
TAG NUMBER: BA-200F4A



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS F&G - CHARGER-A & BATTERY ISOLATOR-A

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 063

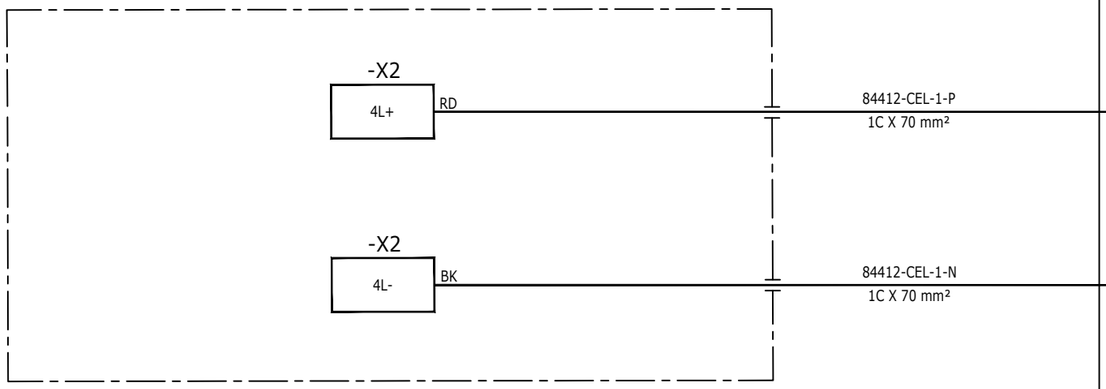
REV. 02

F.to UNI A3: 420mmx297mm

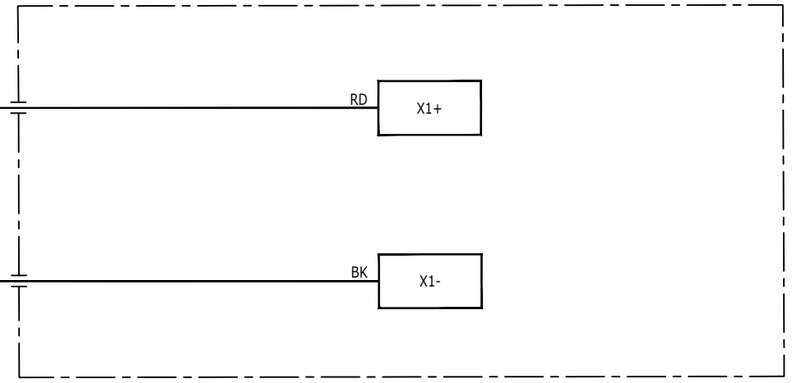
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

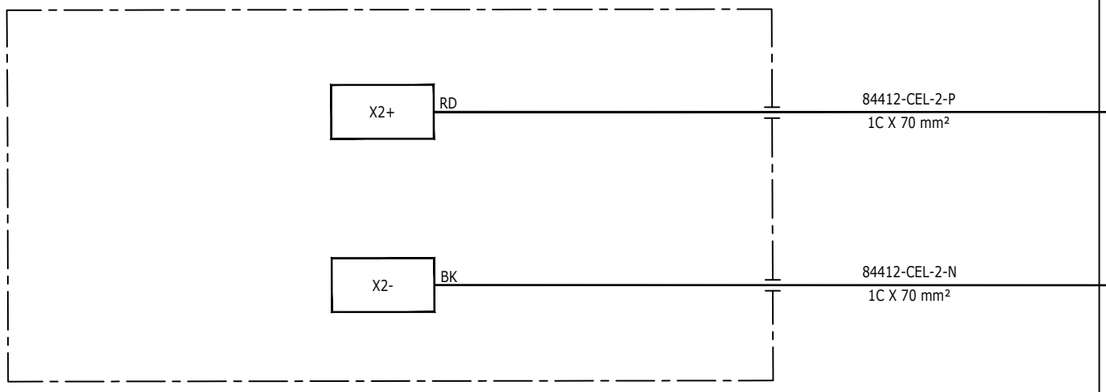
DESCRIPTION: AC UPS F&G - CHARGER-B
TAG NUMBER: BC-200F4B



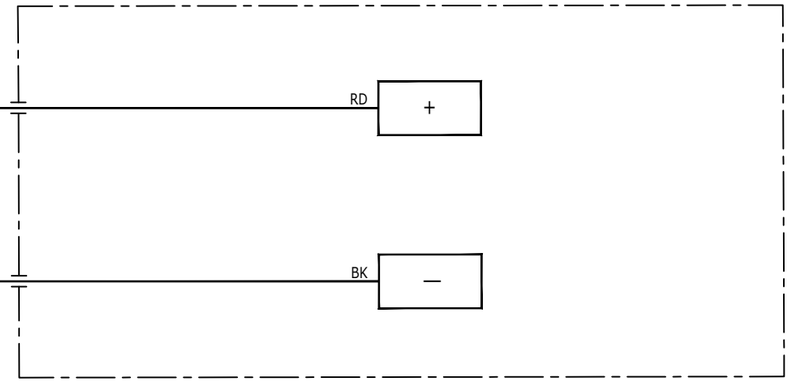
DESCRIPTION: AC UPS F&G - BATTERY ISOLATOR-B
TAG NUMBER: CB-200F4B



DESCRIPTION: AC UPS F&G - BATTERY ISOLATOR-B
TAG NUMBER: CB-200F4B



DESCRIPTION: AC UPS F&G - BATTERY-B
TAG NUMBER: BA-200F4B



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
AC UPS F&G – CHARGER-B & BATTERY ISOLATOR-B

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 064

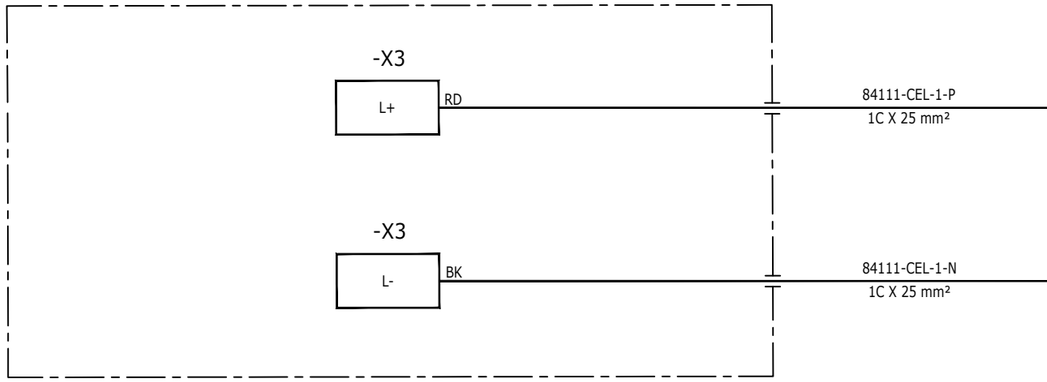
REV. 02

F.to UNI A3: 420mmx297mm

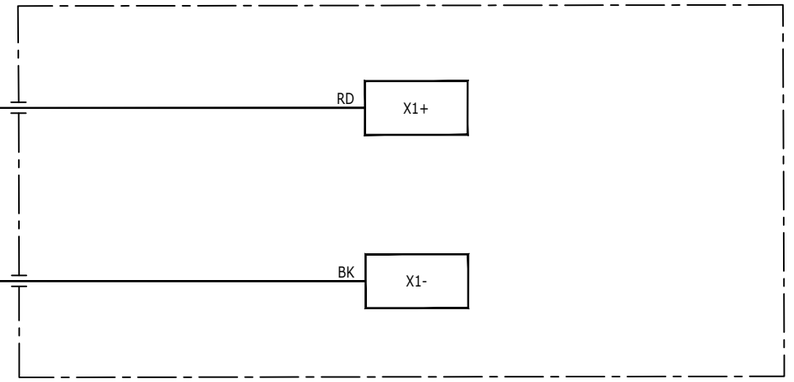
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

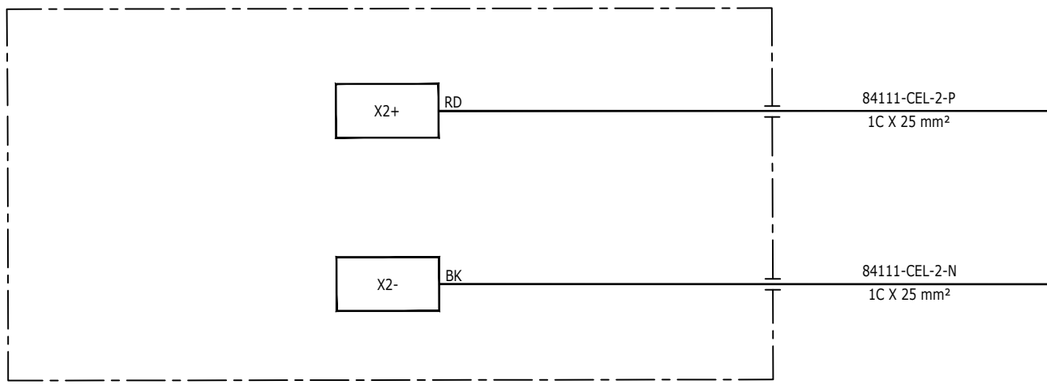
DESCRIPTION: DC UPS - CHARGER
TAG NUMBER: BC-200F1



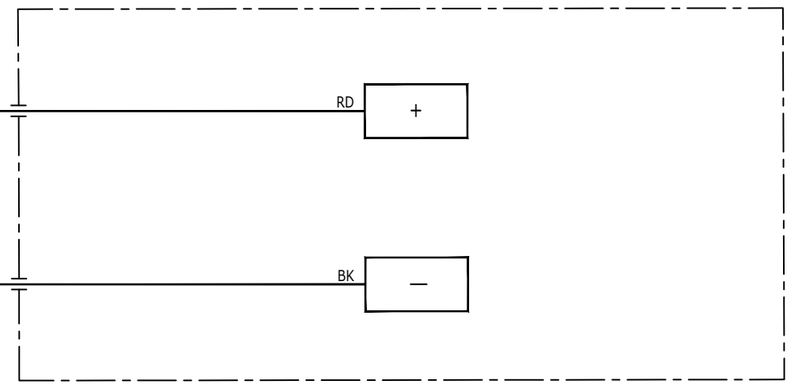
DESCRIPTION: DC UPS - BATTERY ISOLATOR
TAG NUMBER: CB-200F1



DESCRIPTION: DC UPS - BATTERY ISOLATOR
TAG NUMBER: CB-200F1



DESCRIPTION: DC UPS - BATTERY
TAG NUMBER: BA-200F1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
DC UPS – CHARGER & DC UPS – BATTERY ISOLATOR

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 065

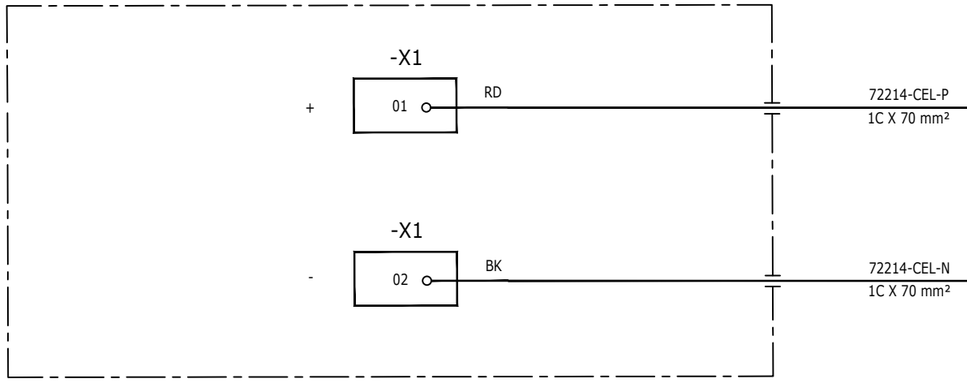
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

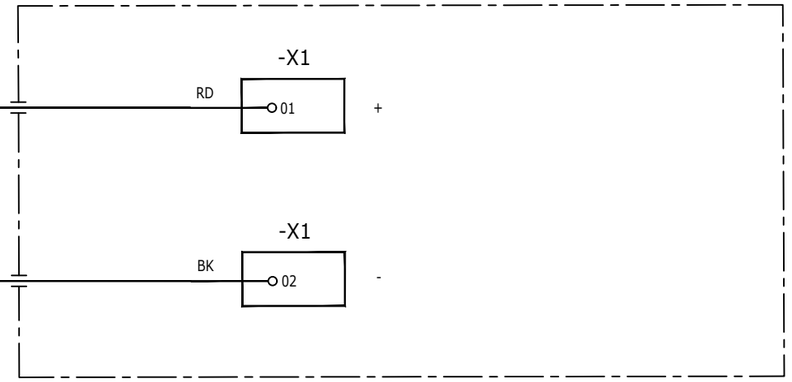
F.to UNI A3: 420mmx297mm

FROM	TO

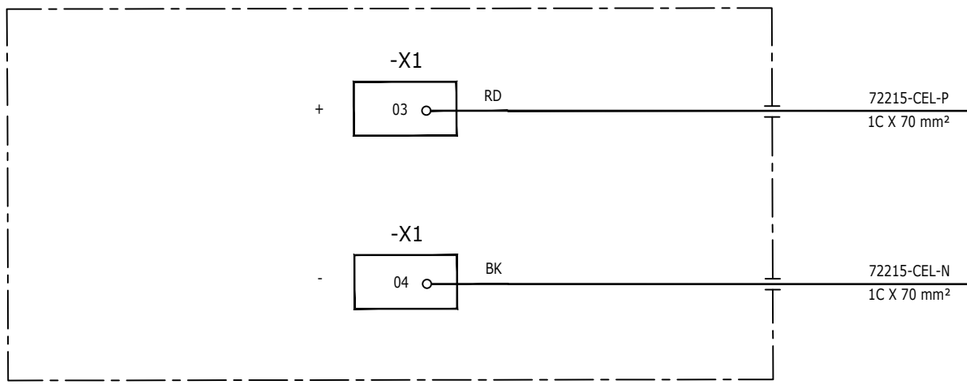
DESCRIPTION: NAVAID - CHARGER
TAG NUMBER: BC-200F2



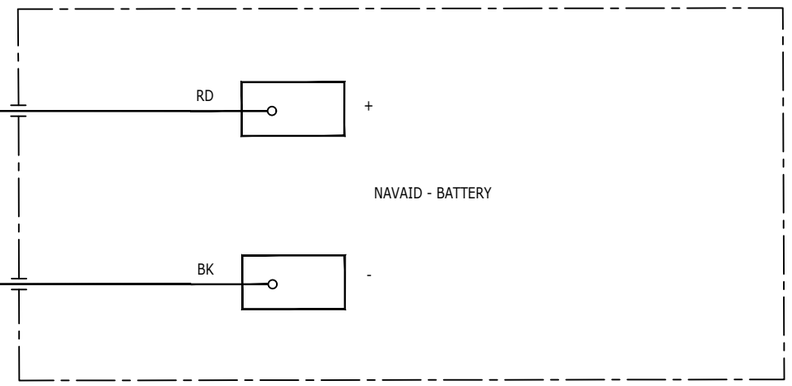
DESCRIPTION: NAVAID - BATTERY ISOLATOR
TAG NUMBER: CB-200F2



DESCRIPTION: NAVAID - BATTERY ISOLATOR
TAG NUMBER: CB-200F2



DESCRIPTION: NAVAID - BATTERY
TAG NUMBER: BA-200F2



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
NAVAID – CHARGER & NAVAID – BATTERY ISOLATOR

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 066

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: 66KV, 7MVA TRANSFORMER
TAG NUMBER: CP-100E4

COLUMN/CUBIC.: -

NEUTRAL CURRENT TRANSFORMER

-X1

X1 / 39 — FROM CT — X1 / 40 — 1, 2, 3, 4 — BK — 81001-CEC 4C X 4 mm² — BK — X41 / 1, X41 / 2 — CT FOR 51G PROTECTION (7SJ85)

-X1

X1 / 41 — FROM CT — X1 / 42 — 1, 2, 3, 4 — BK — 81002-CEC 4C X 4 mm² — BK — X43 / 1, X43 / 2 — CT FOR 87NT PROTECTION (7UT85)

-X1

X1 / 02 — BUCHHOLZ RELAY ALARM
X1 / 03
X1 / 08 — OIL THERMOMETER ALARM
X1 / 09
X1 / 14 — OIL LEVEL (MIN.) ALARM
X1 / 15
1, 2, 3, 4, 5, 6, 7 — BK — 81003-CEC 7C X 1.5 mm² — BK — XM / 61, XM / 62 — ALARM 97T; XM / 47, XM / 48 — ALARM 26OT; XM / 49, XM / 50 — ALARM 71OT

DESCRIPTION: LCP GIS
TAG NUMBER: CP-100E1

COLUMN/CUBIC.: -

-X41

COLUMN/CUBIC.:-

-X43

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

-XM

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
66KV, 7MVA TRANSFORMER ALARMS PROTECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 067

REV. 02

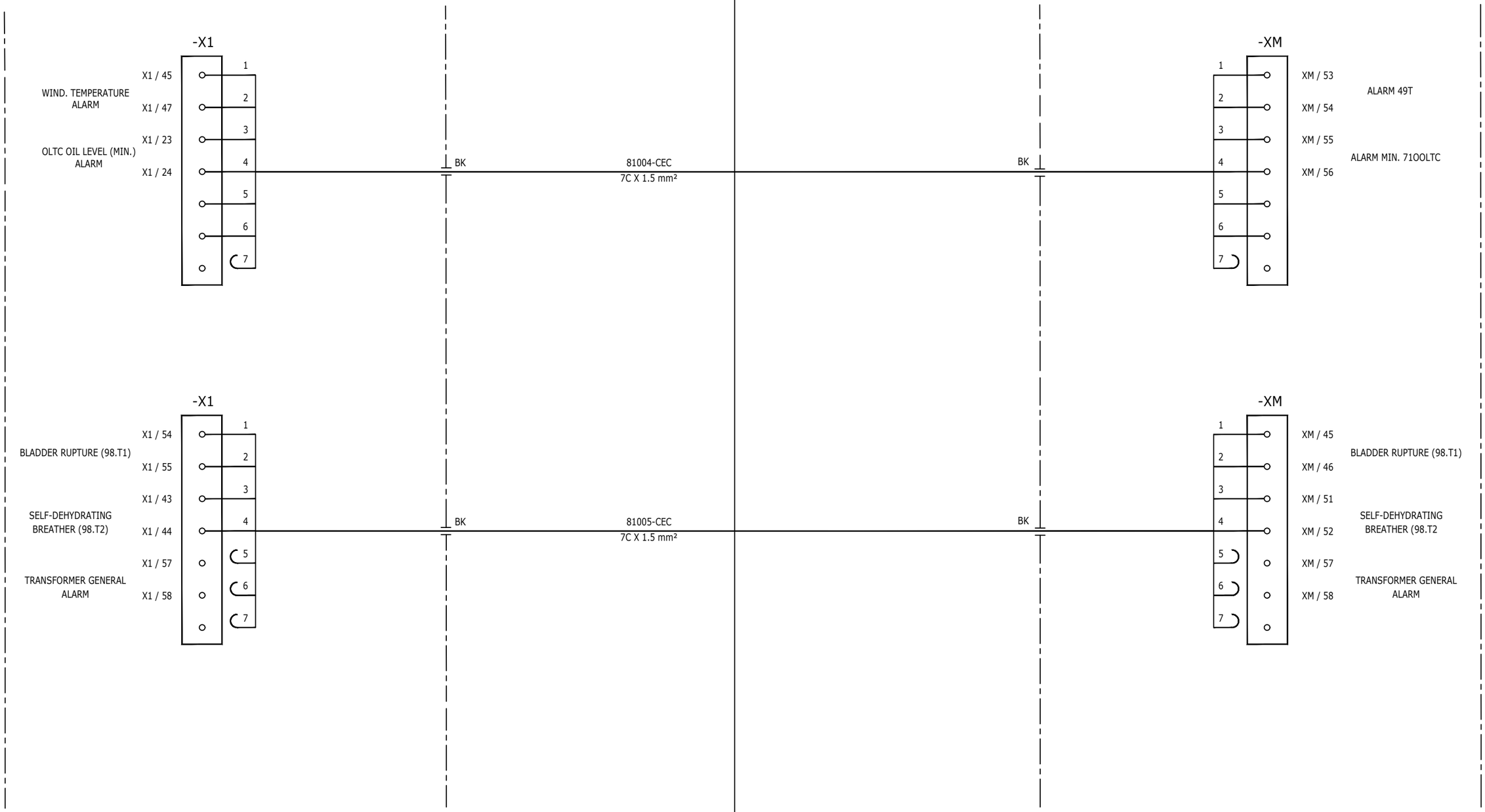
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: 66KV, 7MVA TRANSFORMER
TAG NUMBER: CP-100E4

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
66KV, 7MVA TRANSFORMER ALARMS PROTECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 068

REV. 02

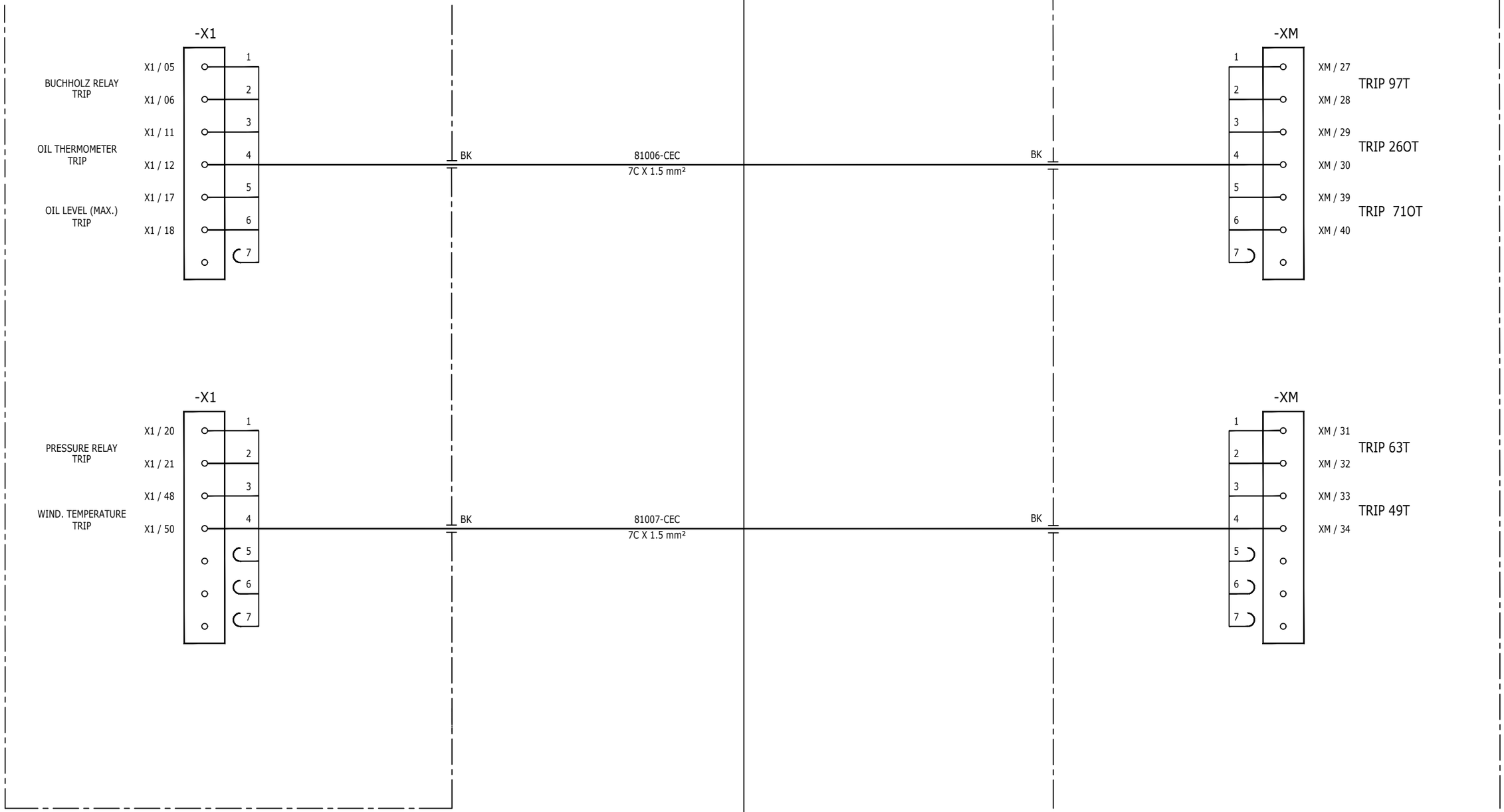
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: 66KV, 7MVA TRANSFORMER
TAG NUMBER: CP-100E4

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
66KV, 7MVA TRANSFORMER TRIP PROTECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 069

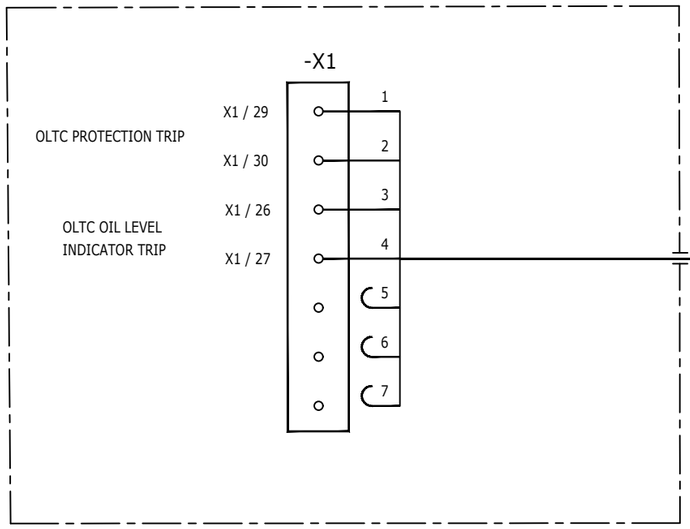
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

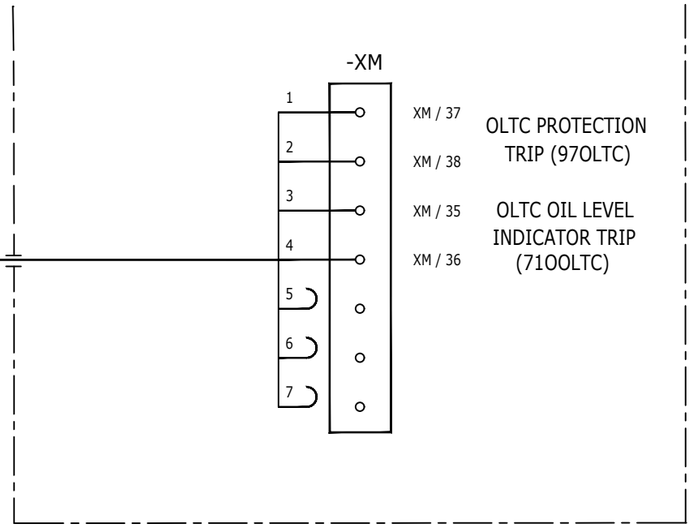
FROM	TO

DESCRIPTION: 66KV, 7MVA TRANSFORMER STEP-UP AVR
TAG NUMBER: CP-100E4



81008-CEC
7C X 1.5 mm²

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
66KV, 7MVA TRANSFORMER OLTC TRIP PROTECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 070

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 071

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: LCP GIS
TAG NUMBER: CP-100E1

COLUMN/CUBIC.:-

-X12B

X12B / 11	1	
X12B / 12	2	
X12B / 15	3	
X12B / 16	4	BK
	5	
	6	
	7	

BK — 81012-CEC, 7C X 1.5 mm² — BK

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN/CUBIC.:A6

-XM

	1	XM / 11 — 66KV SWBD. 86 TRIP
	2	XM / 12
	3	XM / 25 — 66KV SWBD. 86 TRIP
	4	XM / 26
	5	
	6	
	7	

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN/CUBIC.:A6

-X1

X1 / 09	1	
X1 / 10	2	BK
X1 / 11	3	
X1 / 12	4	

CT FOR 87T PROTECTION

BK — 82001-CEC, 4C X 4 mm² — BK

DESCRIPTION: LCP GIS
TAG NUMBER: CP-100E1

COLUMN/CUBIC.:-

-X42

	1	X42 / 1
	2	X42 / 3
	3	X42 / 5
	4	X42 / 6

DESCRIPTION: 6.6/0.415 KV, 7MVA TRANSFORMER
TAG NUMBER: CP-100E3

COLUMN/CUBIC.:A5

-XM

XM / 15	1	
XM / 16	2	BK
	3	02
	4	

BK — 82002-CEC, 4C X 4 mm² — BK

COLUMN/CUBIC.:-

-X7

	1	X7 / 3
	2	X7 / 4
02	3	
02	4	

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LCP GIS & 6.6KV HV SWITCHGEAR INTER TRIP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 072

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

BLANK PAGE

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BLANK PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 073

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN/CUBIC.:A6

-XM

VT INCOMING FOR SYNCHRONIZER

XM / 1	L1
XM / 2	L2
XM / 3	L3
XM / 4	N

BK

82006-CEC
4C X 4 mm²

BK

DESCRIPTION: BESS UCP
TAG NUMBER: A85000

COLUMN/CUBIC.:-

+CTRL_2.1
-XE3

L1	1	PHASE VOLTAGE FROM 6.6KV
L2	2	
L3	3	
N	4	

COLUMN/CUBIC.:A5

-XM

VT BUSBAR FOR SYNCHRONIZER

XM / 11	L1
XM / 12	L2
XM / 13	L3
XM / 14	N

BK

82007-CEC
4C X 4 mm²

BK

+CTRL_2.1
-XE3

L1	5	PHASE VOLTAGE FROM 6.6KV
L2	6	
L3	7	
N	8	

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
BESS UCP SYNCHRONIZER VOLTAGE FROM 6.6KV

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 074

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN/CUBIC.:A2

-XM

INTER TRIP	XM / 53	1
	XM / 54	2
	XM / 55	3
TRIP	XM / 56	4
	XM / 57	5
CB OPEN POSITION	XM / 58	6
		7

BK — 82008-CEC 7C X 1.5 mm² — BK

DESCRIPTION: LV SWBD 800/460V
TAG NUMBER: SG-200D2

COLUMN/CUBIC.:CL01/+03

-XM

1	X2 / 3	INTERTRIP FROM 6.6 KV SWBD.
2	X2 / 4	
3	X2 / 5	TRIP FROM 6.6 KV SWBD.
4	X2 / 6	
5	X2 / 7	CONSENT TO CLOSE FROM 6.6KV SWBD.
6	X2 / 8	
7		

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
6.6KV SWBD AND LV SWBD 800/460V INTER TRIP

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 075

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN/CUBIC.:A6

PERMISSIVES FROM 6.6KV TO GIS CB & EARTHING SWITCH

-XM

CB STATUS OPENED	XM / 65	1
CB CONNECTED SERVICE POSITION	XM / 66	2
EARTHING SWITCH OPENED	XM / 67	3
	XM / 68	4
CB OPEN	XM / 91	5
	XM / 92	6
		7

BK — 82010-CEC 7C X 1.5 mm² — BK

DESCRIPTION: LCP GIS
TAG NUMBER: CP-100E1

COLUMN/CUBIC.:-

-X13

1	X13 / 15
2	X13 / 16
3	X13 / 29
4	X13 / 30
5	X13 / 33
6	X13 / 34
7	

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
6.6KV HV SWITCHGEAR & LCP GIS INTERLOCK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 076

REV. 02

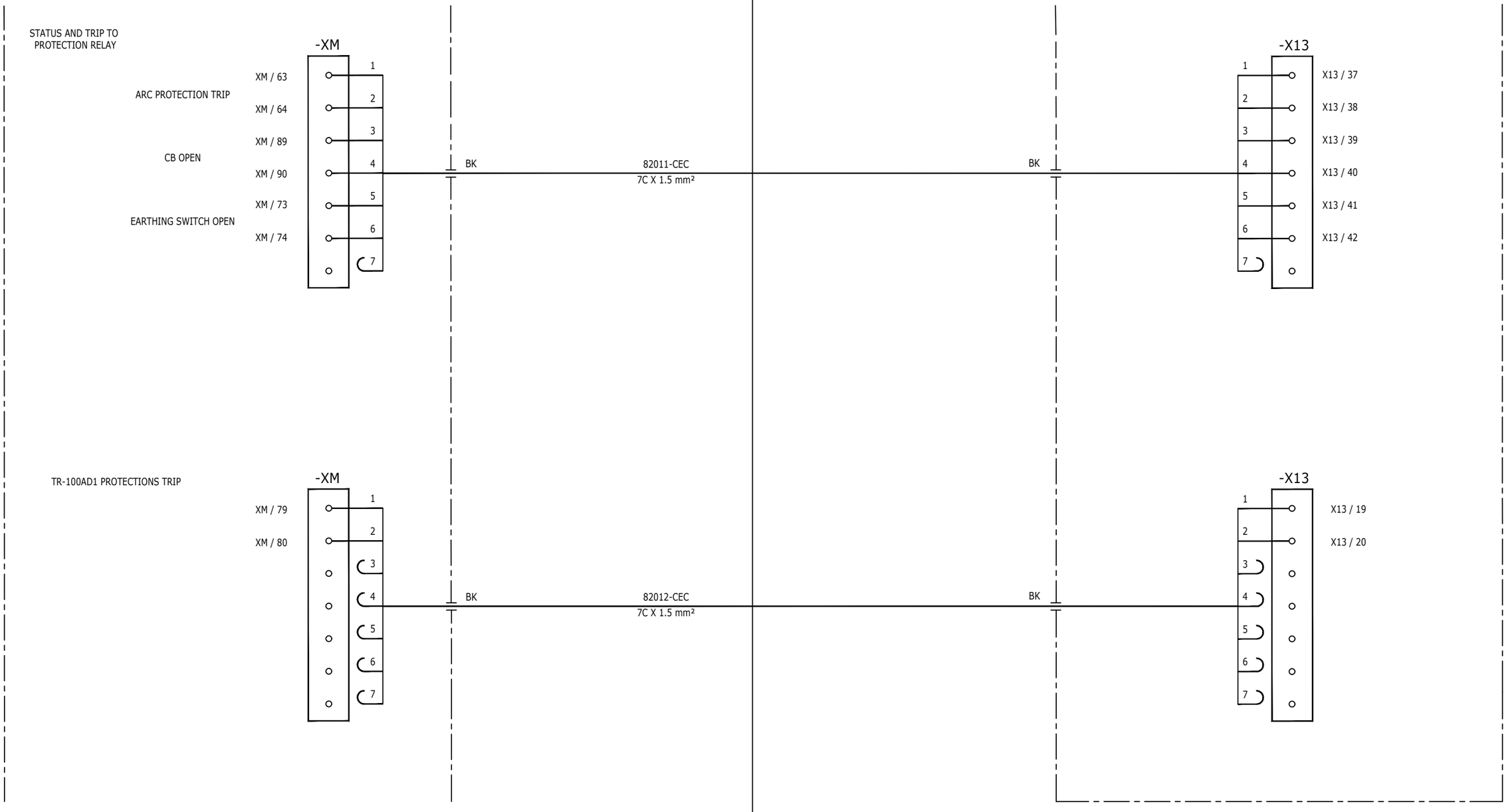
File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

DESCRIPTION: LCP GIS
TAG NUMBER: CP-100E1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
6.6KV HV SWITCHGEAR & LCP GIS INTERLOCK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 077

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

INTERTRIP AND 86 TRIP TO LV INCOMING

COLUMN: A4

-XM

XM / 49	1	
XM / 50	2	
XM / 51	3	
XM / 52	4	BK
XM / 53	5	
XM / 54	6	
	7	

82013-CEC
7C X 1.5 mm²

DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A1/02

-X2

1	X2 / 15	
2	X2 / 16	
3	X2 / 17	
4	X2 / 18	BK
5	X2 / 19	
6	X2 / 20	
7		

DESCRIPTION: 6.6/0.415 KV TRANSFORMER
TAG NUMBER: CP-200DE1A

COLUMN/CUBIC.: -

ALARMS 97T, 26OT, 71OT
TO PROTECTION

-X1

BUCHHOLZ RELAY ALARM	X1 / 02	1	
	X1 / 03	2	
	X1 / 08	3	
OIL THERMOMETER ALARM	X1 / 09	4	BK
	X1 / 14	5	
OIL LEVEL (MIN.) ALARM	X1 / 15	6	
		7	

83001-CEC
7C X 1.5 mm²

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN/CUBIC.: A4

-XM

1	XM / 29	
2	XM / 30	ALARM 97T
3	XM / 31	
4	XM / 32	ALARM 26OT
5	XM / 33	
6	XM / 34	ALARM 71OT
7		

BK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
CP-200DE1A TRANSFORMER ALARMS PROTECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 078

REV. 02

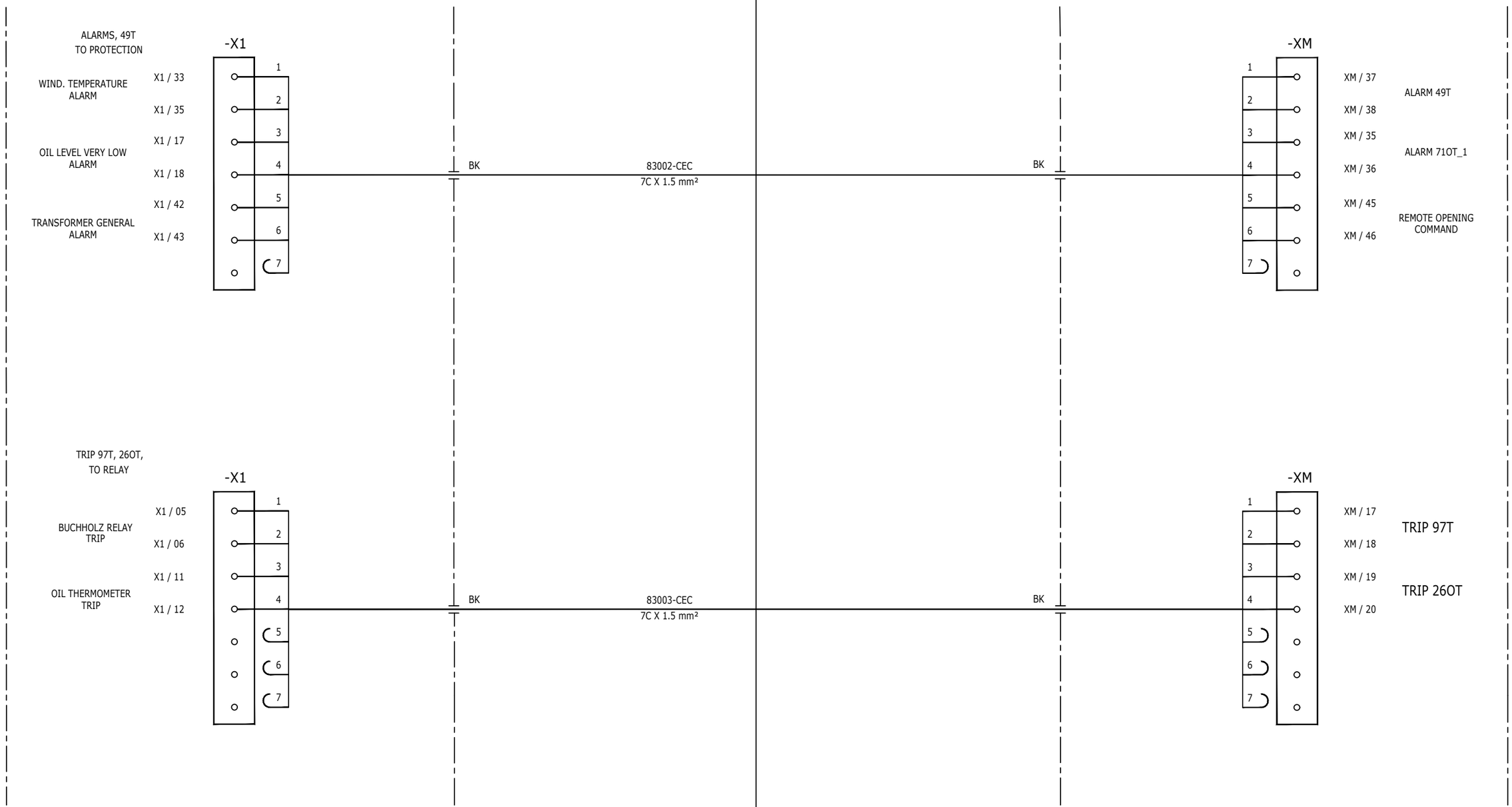
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: 6.6/0.415 KV TRANSFORMER
TAG NUMBER: CP-200E1

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
CP-200DE1A TRANSFORMER TRIP PROTECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 079

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: 6.6/0.415 KV TRANSFORMER
TAG NUMBER: CP-200E1

TRIP 63T, 49T TO RELAY

-X1

WIND. TEMPERATURE TRIP	X1 / 36	1
	X1 / 38	2
		3
PRESSURE RELAY TRIP	X1 / 20	
	X1 / 21	4
		5
		6
		7

BK — 83004-CEC 7C X 1.5 mm² — BK

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

-XM

1	XM / 23	WIND. TEMPERATURE TRIP
2	XM / 24	
3	XM / 21	
4	XM / 22	PRESSURE RELAY TRIP
5		
6		
7		

DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1

COLUMN/CUBIC.: A2/08

PERMISSIVES FROM LV TO 6.6KV FEEDER CB AND EARTHING SWITCH

-X2

X2 / 21	1	
X2 / 22	2	
X2 / 23	3	
X2 / 24	4	
X2 / 25	5	
X2 / 26	6	
	7	

BK — 83005-CEC 7C X 1.5 mm² — BK

-XM

1	XM / 27	CB OPENED FROM LV SWBD
2	XM / 28	
3	XM / 39	CB IN TEST POSITION FROM LV SWBD
4	XM / 40	
5	XM / 41	FROM LV SWBD TRIPPED
6	XM / 42	
7		

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR & 6.6KV HV SWITCHGEAR INTERLOCKS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 080

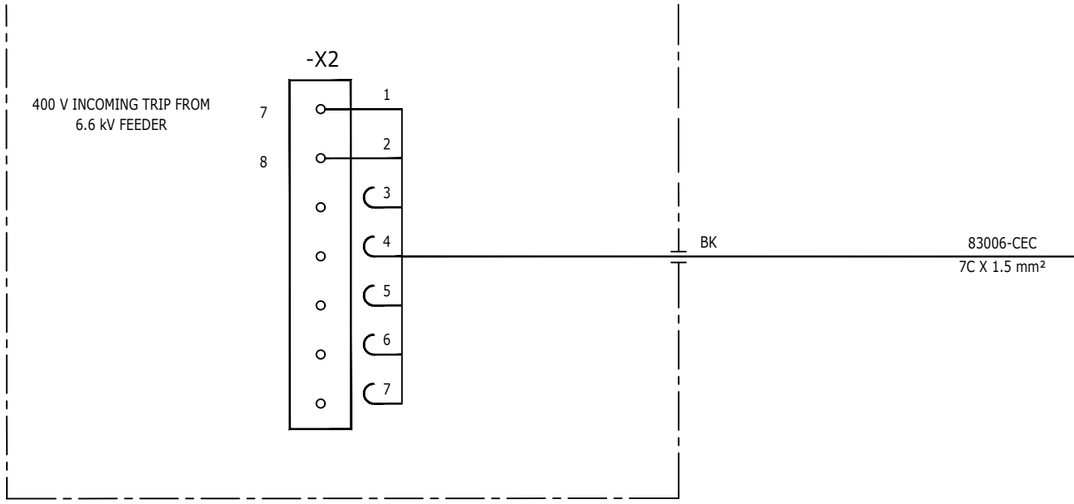
REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

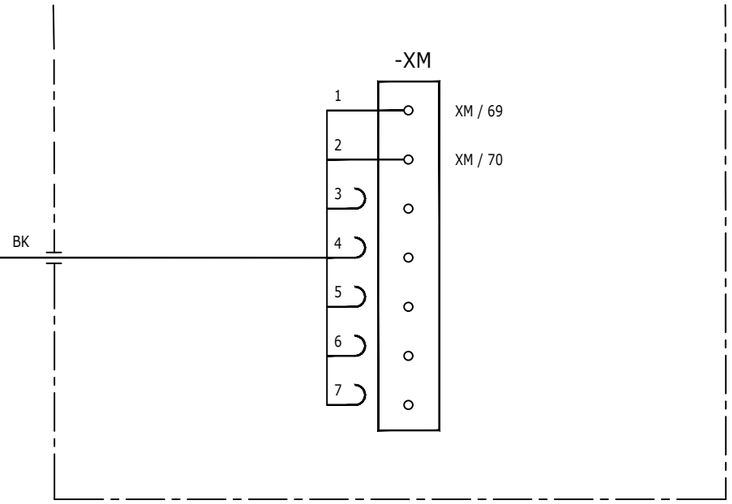
F.to UNI A3: 420mmx297mm

FROM	TO

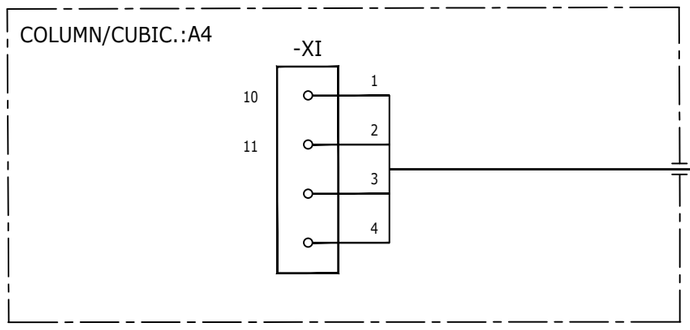
DESCRIPTION: LV SWITCHGEAR
TAG NUMBER: SG-200N1



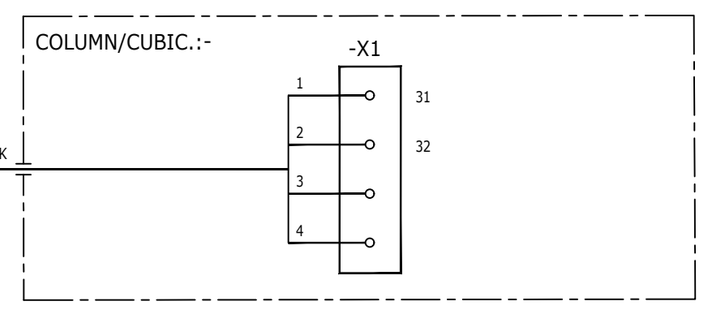
DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1



DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1



DESCRIPTION: 6.6/0.415 kV, 1.6MVA Transformer
TAG NUMBER: CP-200E1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LV SWITCHGEAR & 6.6KV HV SWITCHGEAR INTERLOCKS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 081

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: SOLAR TRANSFORMER
TAG NUMBER: CP-200E2

COLUMN/CUBIC.: -

ALARMS 97T, 26OT, 71OT TO PROTECTION

-X1

BUCHHOLZ RELAY ALARM	X1 / 02	1
	X1 / 03	2
	X1 / 08	3
OIL THERMOMETER ALARM	X1 / 09	4
	X1 / 14	5
OIL LEVEL (MIN.) ALARM	X1 / 15	6
		7

BK — 83011-CEC — 7C X 1.5 mm² — BK

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN/CUBIC.: A2

-XM

1	XM / 33	ALARM 97T
2	XM / 34	
3	XM / 35	ALARM 26OT
4	XM / 36	
5	XM / 37	ALARM 71OT
6	XM / 38	
7		

ALARMS, 49T TO PROTECTION

-X1

WIND. TEMPERATURE ALARM	X1 / 31	1
	X1 / 33	2
	X1 / 17	3
OIL LEVEL VERY LOW ALARM	X1 / 18	4
	X1 / 40	5
TRANSFORMER GENERAL ALARM	X1 / 41	6
		7

BK — 83012-CEC — 7C X 1.5 mm² — BK

-XM

1	XM / 41	ALARM 49T
2	XM / 42	
3	XM / 39	ALARM 71OT_1
4	XM / 40	
5	XM / 49	REMOTE OPENING COMMAND
6	XM / 50	
7		

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
CP-200ED1A SOLAR TRANSFORMER ALARMS PROTECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 082

REV. 02

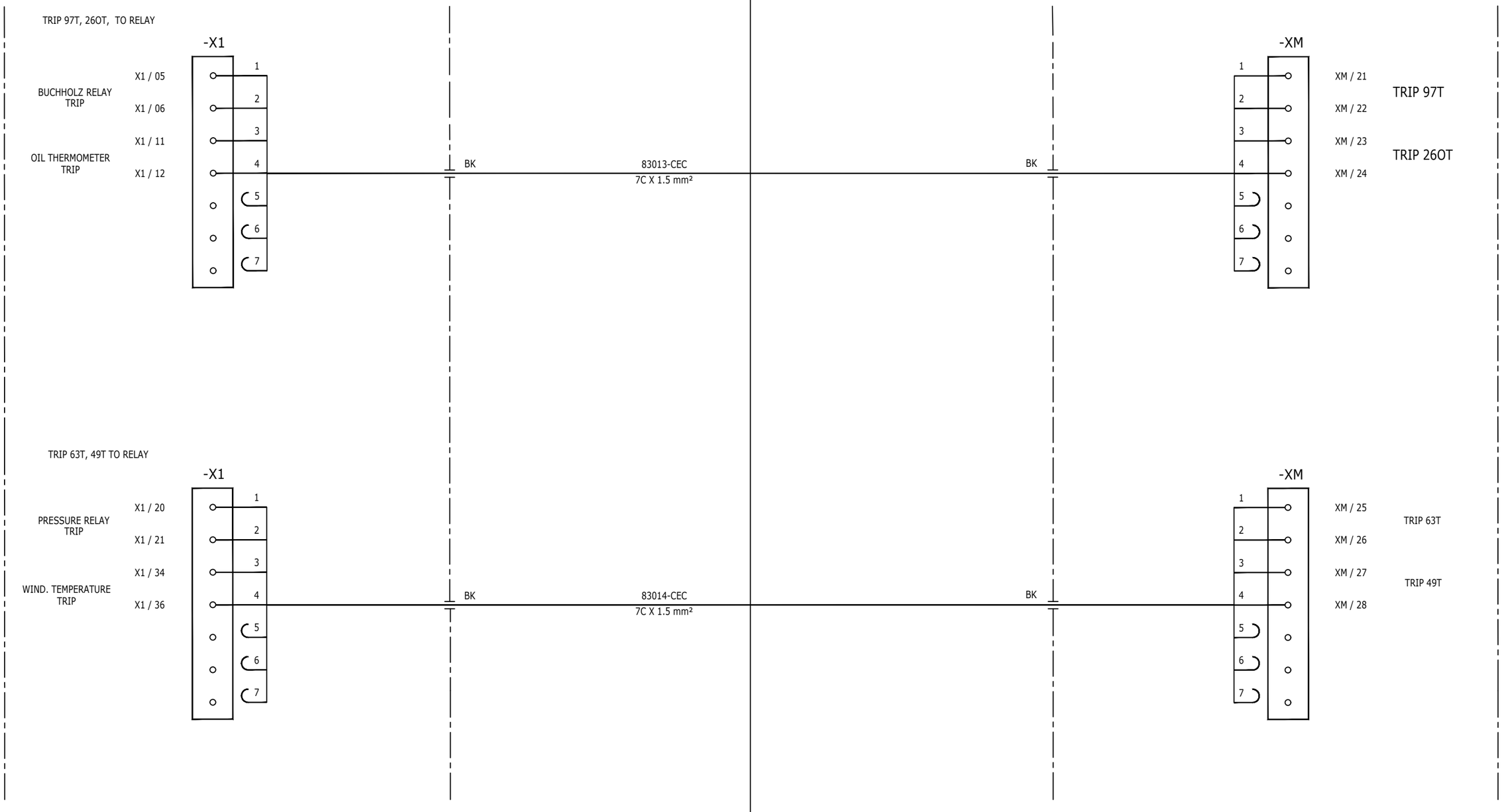
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: SOLAR TRANSFORMER
TAG NUMBER: CP-200E2

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
CP-200ED1A SOLAR TRANSFORMER TRIP PROTECTION

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 083

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: LV SWBD 800/460V
TAG NUMBER: SG-200D2

COLUMN: -

PERMISSIVES FROM SOLAR LV TO 6.6KV FEEDER CB AND EARTHING SWITCH

-X2

CB OPEN	X2 / 27	1
	X2 / 28	2
	X2 / 29	3
CB ISOLATED / TEST POSITION	X2 / 30	4
	X2 / 31	5
CB TRIPPED	X2 / 32	6
		7

BK — 83015-CEC 7C X 1.5 mm² — BK

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

-XM

1	XM / 31	CB OPENED FROM LV SWBD 800/460V
2	XM / 32	
3	XM / 43	CB IN TEST POSITION FROM LV SWBD 800/460V
4	XM / 44	
5	XM / 45	FROM LV SWBD 800/460V TRIPPED
6	XM / 46	
7		

DESCRIPTION: BESS
TAG NUMBER: A-85000

COLUMN: -

-XT1

INCOMING CB IS OPEN	17	1
	18	2
PHASE IN SYNC	13	3
	14	4
		5
		6
		7

BK — 85001-CEC 7C X 1.5 mm² — BK

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN: A6

-XM

1	XM / 59	CLOSING COMMAND BY SYNCHRO
2	XM / 60	
3	XM / 87	ISLAND SIGNAL
4	XM / 88	
5		
6		
7		

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
INTERLOCKS BETWEEN BESS & 6.6KV HV SWITCHGEAR

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 084

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: EMCS
TAG NUMBER: B400-EMCS-001

COLUMN: -

-TB-DI

TB-DI / 25	1	
TB-DI / 26	2	
	3	
	4	
	5	
	6	
	7	

BK — 85002-CEC, 7C X 1.5 mm²

DESCRIPTION: BESS
TAG NUMBER: A-85000

COLUMN: -

-XT1

1	XT1 / 19	PERMISSIVE - BESS TO SWITCH TO GRID FORMING MODE
2	XT1 / 20	
3		
4		
5		
6		
7		

BK

DESCRIPTION: LCP GIS
TAG NUMBER: CP-100E1

COLUMN: -

-X1

X1 / 39	1	
X1 / 40	2	
X1 / 41	3	ISLAND SIGNAL
X1 / 42	4	
X1 / 43	5	
X1 / 44	6	
	7	

BK — 81013-CEC, 7C X 1.5 mm²

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN: A6

-XM

1	XM / 43	66 KV CB OPEN STATUS
2	XM / 44	
3	XM / 81	66 KV CB OPEN STATUS FOR ELECTROLYZER FEEDER
4	XM / 82	
5	XM / 83	66 KV CB OPEN STATUS FOR BESS
6	XM / 84	
7		

BK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
INTERLOCKS BETWEEN LCP GIS&6.6KV HV SWITCHGEAR

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 085

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: ELECTROLYSER
TAG NUMBER: A-20000

COLUMN: -

SPARE FOR PERMISSIVES AND INTERLOCKS

1 2 3 4 5 6 7

BK — 20001-CEC 7C X 1.5 mm² — BK

DESCRIPTION: 6.6KV HV SWITCHGEAR
TAG NUMBER: SG-100D1

COLUMN: A1

1 2 3 4 5 6 7

SPARE FOR PERMISSIVES AND INTERLOCKS

DESCRIPTION: SIGNALS FOR CONTROL SYSTEM
TAG NUMBER: SG-200D2

-X2

MCB HEALTY ON SG-200D2 — X2 / 42
X2 / 43
MCB HEALTY ON SG-200N1 — X2 / 13
X2 / 14

1 2 3 4 5 6 7

BK — 83016-CEC 7C X 1.5 mm² — BK

DESCRIPTION: AUXILIARY LV
TAG NUMBER: SG-200N1

COLUMN: +A2/02

-X2

1 2 3 4 5 6 7

X2 / 66
X2 / 67
X2 / 45
X2 / 46

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
SIGNALS FOR CONTROL SYSTEM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 086

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

COLON./CUBIC.:-

-XS

SURGE ARRESTERS
FAULT ON DP-200N1

XS / 1	1
XS / 2	2
	3
	4
	5
	6
	7

BK — 83125-CEC — 7C X 1.5 mm² — BK

DESCRIPTION: AUXILIARY LV
TAG NUMBER: SG-200N1

COLUMN: +A2/02

-X2

1	X2 / 70
2	X2 / 71
3	
4	
5	
6	
7	

-XT

NORMAL AND EMERGENCY LIGHT IN AUTO.

LIGHT ACTIVATED

NORMAL AND EMERGENCY LIGHT MCBs CLOSED

XT / 3	1
XT / 4	2
XT / 5	3
XT / 6	4
XT / 7	5
XT / 8	6
	7

BK — 83126-CEC — 7C X 1.5 mm² — BK

COLUMN: +A2/02

-X2

1	X2 / 72
2	X2 / 73
3	X2 / 74
4	X2 / 75
5	X2 / 76
6	X2 / 77
7	

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
SIGNALS FOR CONTROL SYSTEM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 087

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm

FROM	TO

DESCRIPTION: SIGNALS FOR CONTROL SYSTEM
TAG NUMBER: DP-200N1

COLUMN: -

-XH/XP

HEAT TRACING ACTIVATED	-XH / 5	1
	-XH / 6	2
HEAT TRACING MCBs CLOSED	-XH / 7	3
	-XH / 8	4
DP-200N1 MCBs CLOSED	-XP / 1	5
	-XP / 2	6
		7

BK — 83127-CEC — 7C X 1.5 mm²

DESCRIPTION: AUXILIARY LV
TAG NUMBER: SG-200N1

COLUMN: +A2/02

-X2

	1	X2 / 78
	2	X2 / 79
	3	X2 / 80
	4	X2 / 81
	5	X2 / 82
	6	X2 / 83
	7	

BK

DESCRIPTION: DC UPS - CHARGER
TAG NUMBER: BC-200F1B (UP-200F1B)

COLUMN: -

-X32

BATTERY BREAKER STATUS	X32 / 3	1
	X32 / 4	2
		3
		4
		5
		6
		7

BK — 84110-CEC — 7C X 1.5 mm²

DESCRIPTION: DC UPS - CHARGER
TAG NUMBER: BC-200F1A

COLUMN: -

-X32

	1	X32 / 1
	2	X32 / 2
	3	
	4	
	5	
	6	
	7	

BATTERY BREAKER STATUS

BK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
SIGNALS FOR CONTROL SYSTEM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 088

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

DESCRIPTION: DC UPS - BATTERY ISOLATOR
TAG NUMBER: CB-200F1

COLUMN: -

-X3

BATTERY BREAKER STATUS	X3 / 1	1
	X3 / 3	2
BATTERY BREAKER STATUS	X3 / 5	3
	X3 / 4	4
		5
		6
		7

BK — 84111-CEC — 7C X 1.5 mm² — BK

DESCRIPTION: DC UPS - CHARGER
TAG NUMBER: BC-200F1B (UP-200F1B)

COLUMN: -

-X32

1	X32 / 1	BATTERY BREAKER STATUS
2	X32 / 2	
3	X32 / 3	BATTERY BREAKER STATUS
4	X32 / 4	
5		
6		
7		

DESCRIPTION: AC UPS PAS - BATTERY ISOLATOR-A
TAG NUMBER: CB-200F3A

COLUMN: -

-X3

BATTERY BREAKER STATUS	X3 / 1	1
	X3 / 3	2
		3
		4
		5
		6
		7

BK — 84330-CEC — 7C X 1.5 mm² — BK

DESCRIPTION: AC UPS PAS - CHARGER-A
TAG NUMBER: BC-200F3A

COLUMN: -

-X15

1	X15 / 4	BATTERY BREAKER STATUS
2	X15 / 5	
3		
4		
5		
6		
7		

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
SIGNALS FOR CONTROL SYSTEM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 089

REV. 02

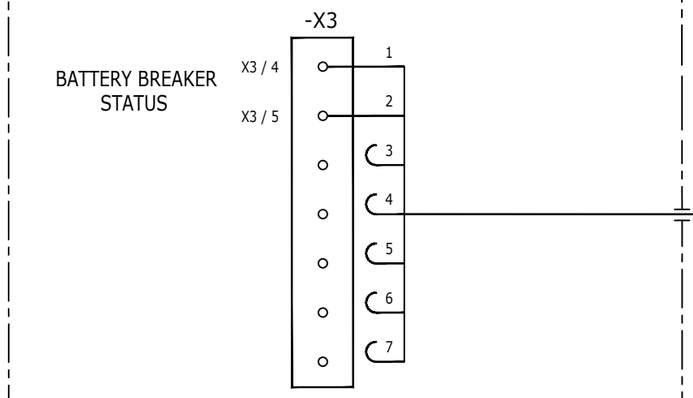
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

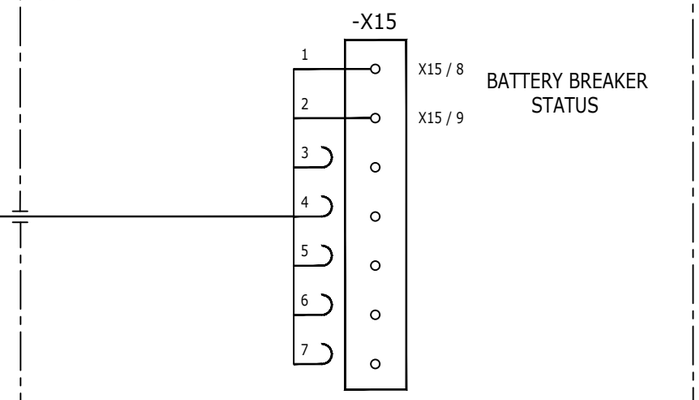
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TAG NUMBER: CB-200F3B

COLUMN: -



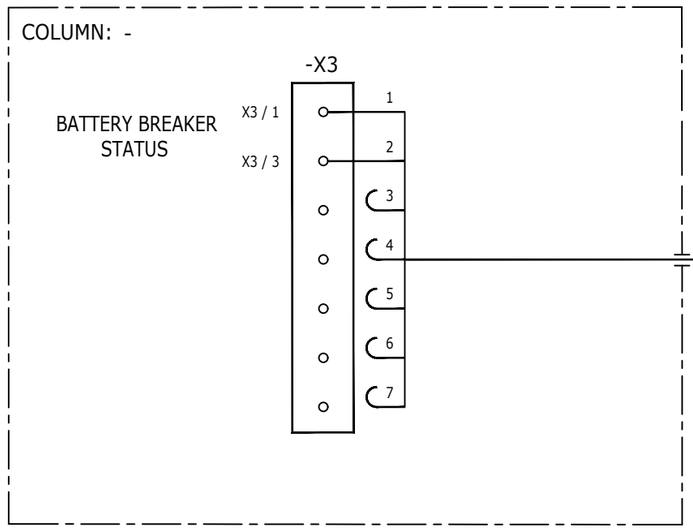
DESCRIPTION: AC UPS PAS - CHARGER-B
TAG NUMBER: BC-200F3B

COLUMN: -



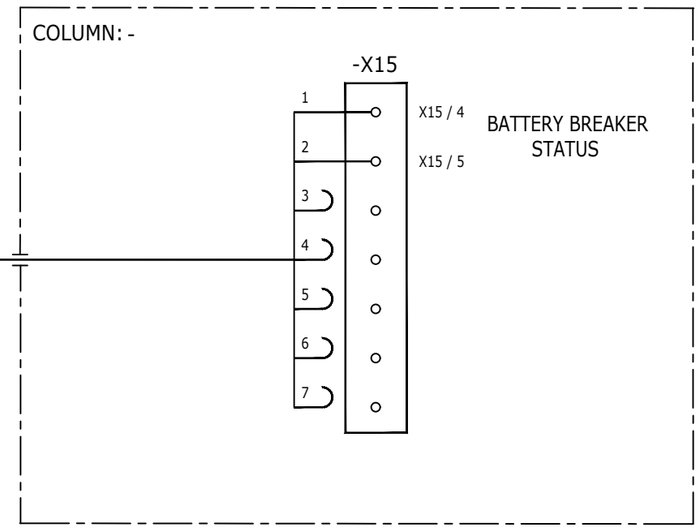
DESCRIPTION: AC UPS F&G - BATTERY ISOLATOR-A
TAG NUMBER: CB-200F4A

COLUMN: -



DESCRIPTION: AC UPS F&G - CHARGER-A
TAG NUMBER: BC-200F4A

COLUMN: -



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
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SIGNALS FOR CONTROL SYSTEM

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SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 090

REV. 02

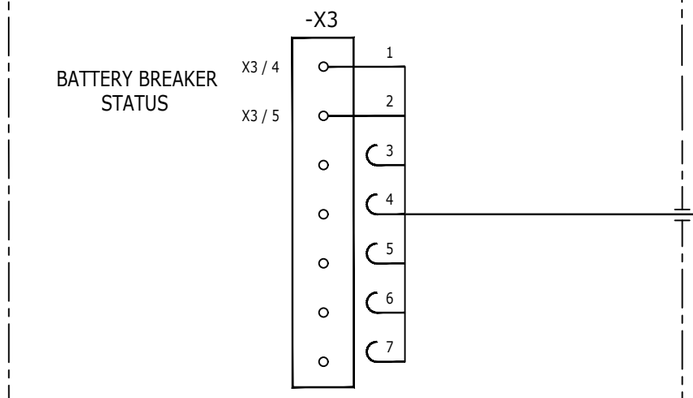
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

FROM	TO

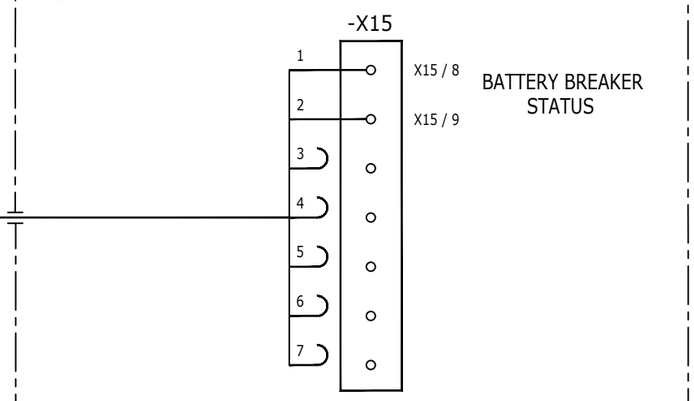
DESCRIPTION: AC UPS F&G - BATTERY ISOLATOR-B
TAG NUMBER: CB-200F4B

COLUMN: -



DESCRIPTION: AC UPS F&G - CHARGER-B
TAG NUMBER: BC-200F4B

COLUMN: -



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
SIGNALS FOR CONTROL SYSTEM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : 1:X

A3

DRAWING NO. 123A90-DDL-EL-DG-20149

SHEET 091

REV. 02

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

F.to UNI A3: 420mmx297mm