# BASE LOAD POWER HUB (BLPH)

# ELECTRICAL SINGLE LINE DIAGRAMS

# AC UPS SYSTEMS

| REV. | DATE | DRN | CHKD | APPD | DESCRIPTION |
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| 02 | 27/09/24 | SAM | FMA/AMA | FPA/DLO | ACCEPTED FOR CONSTRUCTION (AFC) |
| 01 | 12/04/24 | SAM | FMA/AMA | FPA/DLO | ACCEPTED FOR CONSTRUCTION (AFC) |
| 00 | 14/02/24 | SAM | FMA/AMA | FPA/DLO | ISSUE FOR REVIEW (IFR) |

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
FRONT PAGE

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

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20160

SHEET 001

REV. 02

File Name : 123A90-DDL-EL-DG-20160 Rev. 02

F.to UNI A3: 420mmx297mm

| REV. | SHEET NUMBER | DESCRIPTION | REF. CODE |
|---|---|---|---|
| 01 | 001 | FRONT PAGE | |
| 01 | 002 | SUMMARY / GENERAL NOTES / REFERENCE DOCUMENTS | |
| 01 | 003 | LEGEND | |
| 01 | 004 | AC UPS – PAS SINGLE LINE DIAGRAM (UP–200F3) | |
| 01 | 005 | AC UPS – PAS DISTRIBUTION BOARD SLD (UP–200F3) | |
| 01 | 006 | AC UPS – FIRE & GAS SINGLE LINE DIAGRAM (UP–200F4) | |
| 01 | 007 | AC UPS DISTRIBUTION BOARD FIRE & GAS SLD (UP–200F4) | |

## GENERAL NOTES / REFERENCE DOCUMENTS

### GENERAL NOTES:

1. AC UPS CONFIGURATION SHALL BE AS PER RESPECTIVE TECHNICAL SPECIFICATION & DATA SHEET.
2. FOR ALL LOAD PLEASE REFER ELECTRICAL LOAD LIST & BALANCE (CCS MODE 'IMPORT') (123A90–DDL–EL–LIS–20016).
3. AC UPS COMMUNICATION INTERFACE SHALL BE AS PER RESPECTIVE TECHNICAL SPECIFICATION & DATA SHEET.
4. AC UPS SHALL HAVE A REAL TIME INTERACTIVE OPERATOR INTERFACE USING A MICROPROCESSOR BASED HUMAN MACHINE INTERFACE (HMI) MOUNTED ON THE FRONT DOOR.
5. LVI1 – TYPICAL FOR AC, DC UPS & DISTRIBUTION BOARD INCOMER [REFER 123A90–DDL–EL–DG–20163 ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS (Distribution Boards, AC UPS, DC UPS, etc)].
6. LVO2 – TYPICAL FOR DISTRIBUTION BOARD 1PH OUTGOING WITHOUT EARTH FAULT, LVOE2 – TYPICAL FOR DISTRIBUTION BOARD 1PH OUTGOING WITH EARTH FAULT [REFER 123A90–DDL–EL–DG–20163 ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS (Distribution Boards, AC UPS, DC UPS, etc)].
7. MAINTENANCE BYPASS SWITCH SHALL BE MAKE–BEFORE BREAK TYPE.

### REFERENCE DOCUMENTS:

| DOC. NO. | DESCRIPTION |
|---|---|
| 123A90–DDL–EL–SP–20031 | TECHNICAL SPECIFICATION, IDS AND DDS FOR AC UPS SYSTEM |
| 123A90–DDL–EL–DS–20032 | TECHNICAL DATA SHEET (TDS) FOR AC UPS SYSTEM |
| 123A90–DDL–EL–DG–20158 | OVERALL/KEY SINGLE LINE DIAGRAM |
| 123A90–DDL–EL–DS–LIS–20016 | ELECTRICAL LOAD LIST AND BALANCE(CSS MODE 'IMPORT') |
| 123A90–DDL–EL–DS–LIS–20165 | ELECTRICAL SCHEDULES (Distribution Boards, AC UPS, DC UPS etc.) |
| 123A90–DDL–EL–DG–20163 | ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS (Distribution Boards, AC UPS, DC UPS, etc) |

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TITLE : BASE LOAD POWER HUB (BLPH)
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SUMMARY / GENERAL NOTES / REFERENCE DOCUMENTS

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

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20160

SHEET 002

REV. 02

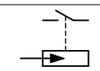
File Name : 123A90–DDL–EL–DG–20160 Rev. 02

F.to UNI A3: 420mmx297mm

## LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
|  | MOULDED CASE CIRCUIT BREAKER (MCCB) |
|  | SWITCH DICONNECTOR; ON–LAND ISOLATING SWITCH |
|  | MINIATURE CIRCUIT BREAKER (MCB) |
|  | INVERTER (POWER CONVERTER DC/AC) |
|  | RECTIFIER (POWER CONVERTER AC/DC) |
|  | STATIC SWITCH |
|  | CABLE GLAND |
|  | TRANSFORMER |
|  | FUSE |
|  | BATTERY |

## LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| 2P | TWO POLE |
| 4P | FOUR POLE |
|   | RESIDUAL CURRENT CIRCUIT BREAKER WITH OVER CURRENT PROTECTION (RCBO) |
|  | SURGE PROTECTION DEVICE |
| U< | UNDER VOLTAGE RELAY |
|  | EARTH 2 |
| | |
| | |
| | |

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TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
LEGEND

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

SCALE : NTS

A3

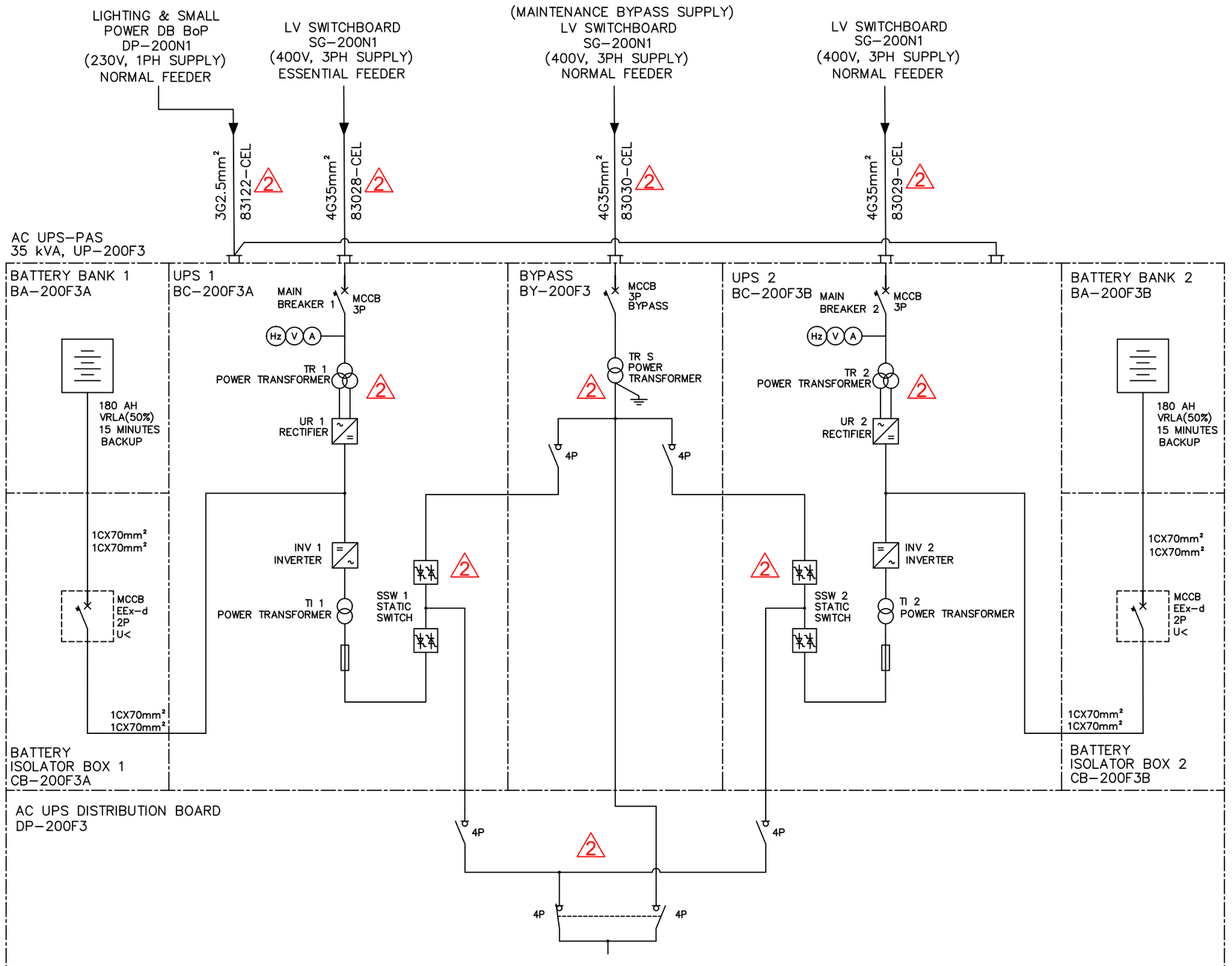
DRAWING NO. 123A90–DDL–EL–DG–20160

SHEET 003

REV. 02

File Name : 123A90–DDL–EL–DG–20160 Rev. 02

F.to UNI A3: 420mmx297mm




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|---|---|---|---|---|---|
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| 00 | 14/02/24 | SAM | FMA/AMA | FPA/DLO | ISSUE FOR REVIEW (IFR) |

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ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
AC UPS – PAS SINGLE LINE DIAGRAM(UP–200F3)

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

SCALE : 1:X

A3

DRAWING NO. 123A90–DDL–EL–DG–20160

SHEET 004

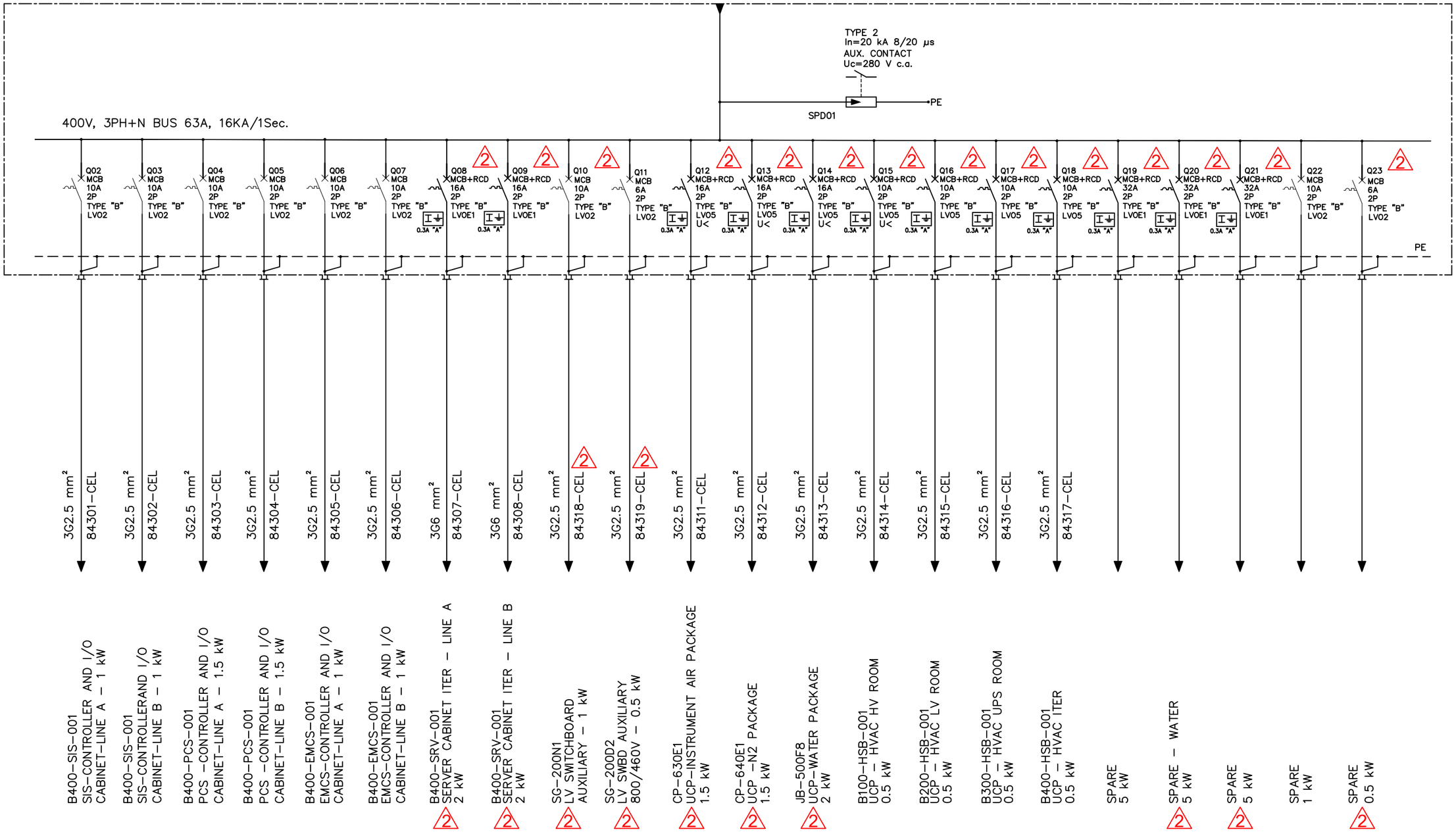
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20160 Rev. 02

# AC UPS – PAS SINGLE LINE DIAGRAM(UP–200F3) DISTRIBUTION BOARD DETAILS

AC UPS DISTRIBUTION BOARD–PAS
DP–200F3




| REV. | DATE | DRN | CHKD | APPD | DESCRIPTION |
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ROSETTI MARINO

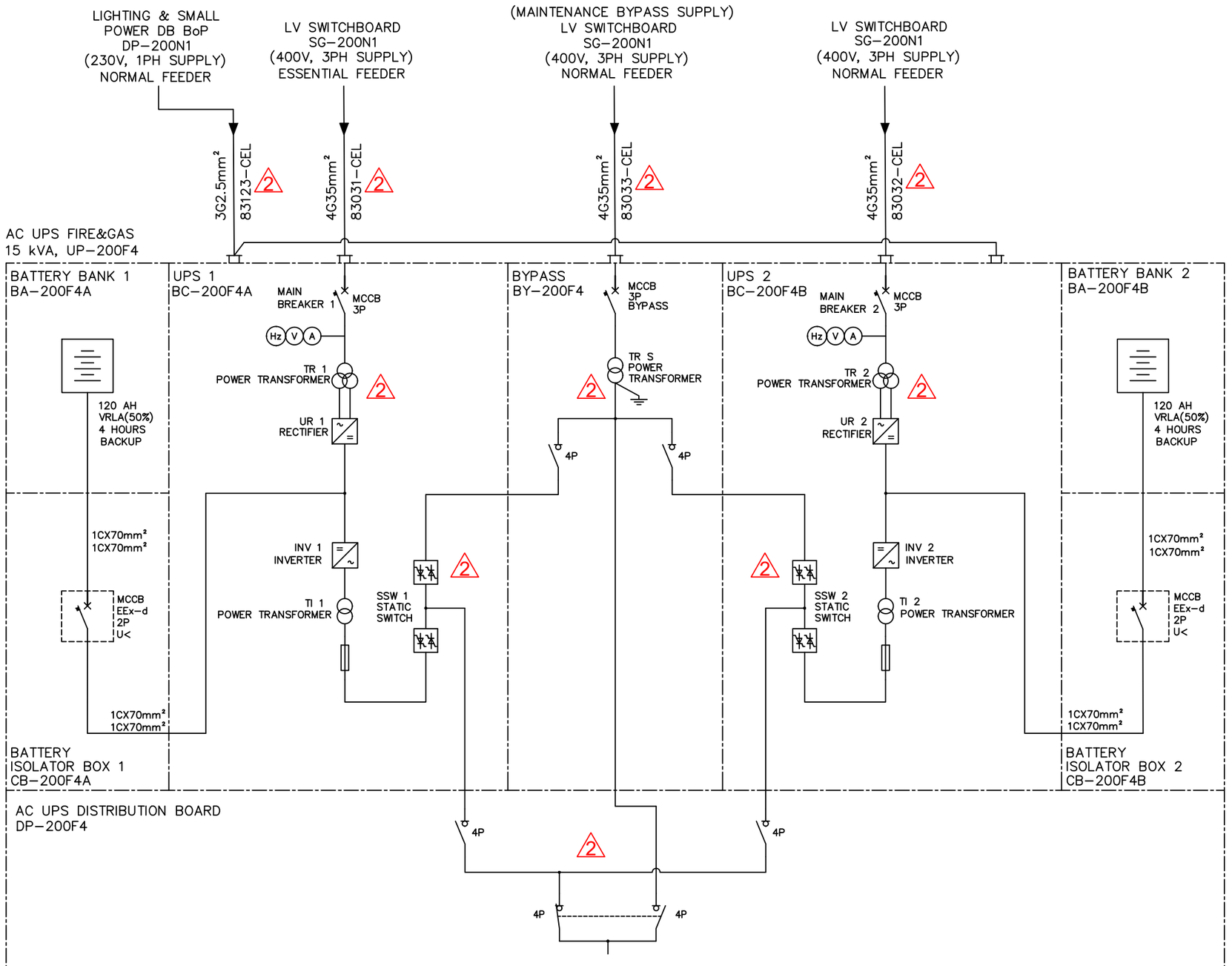
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
AC UPS – PAS DISTRIBUTION BOARD SLD (UP–200F3)

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90–DDL–EL–DG–20160 | SHEET 005 | REV. 02

File Name : 123A90–DDL–EL–DG–20160 Rev. 02

F.to UNI A3: 420mmx297mm




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CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL SINGLE LINE DIAGRAMS AC UPS SYSTEMS
AC UPS – FIRE & GAS SINGLE LINE DIAGRAM (UP–200F4)

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

SCALE : 1:X

A3

DRAWING NO. 123A90–DDL–EL–DG–20160

SHEET 006

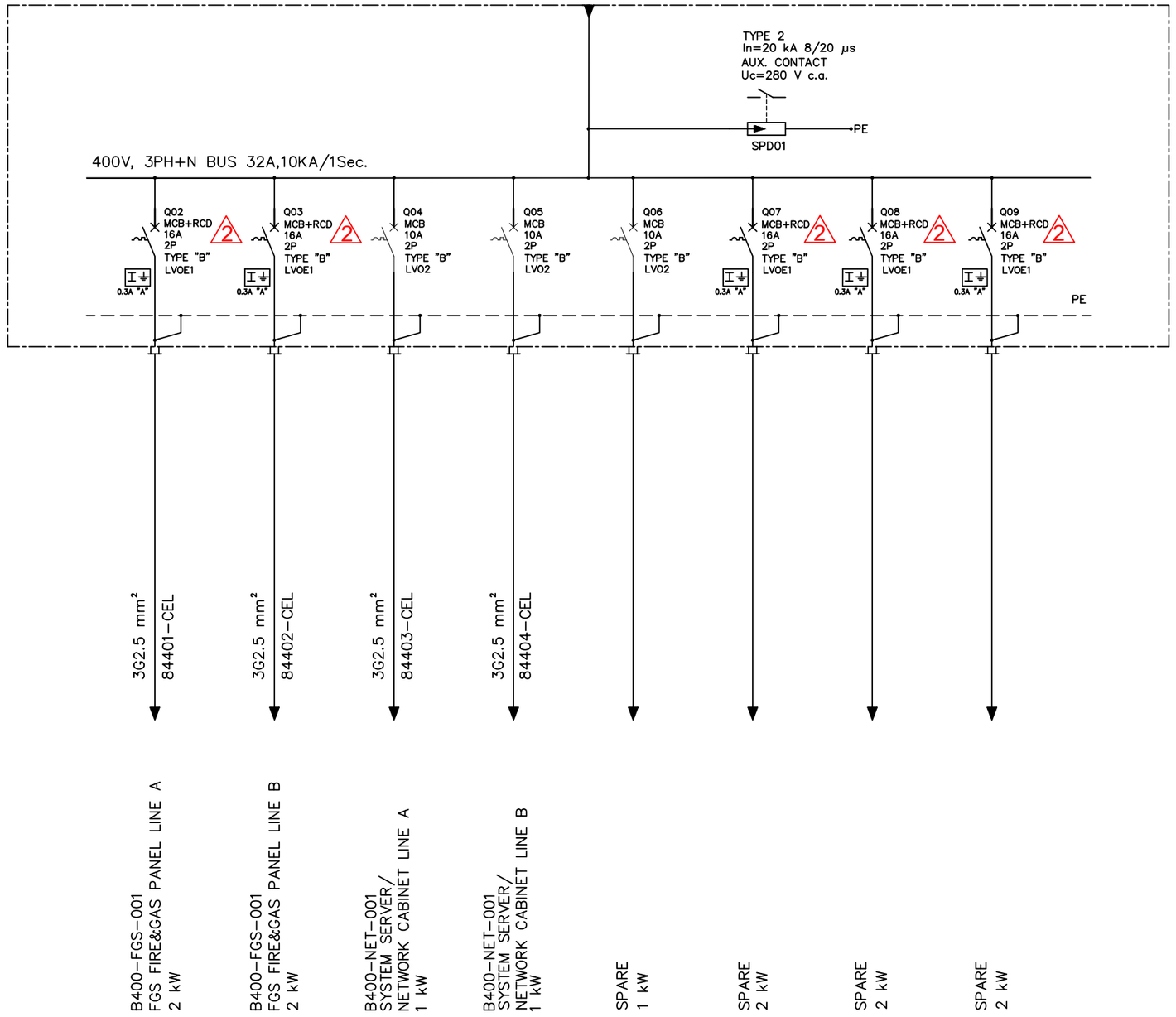
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20160 Rev. 02

# AC UPS – FIRE & GAS SINGLE LINE DIAGRAM (UP–200F4) DISTRIBUTION BOARD DETAILS

AC UPS DISTRIBUTION BOARD FIRE & GAS
DP–200F4




| REV. | DATE | DRN | CHKD | APPD | DESCRIPTION |
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AC UPS DISTRIBUTION BOARD FIRE & GAS (UP–200F4)

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90–DDL–EL–DG–20160 | SHEET 007 | REV. 02

File Name : 123A90–DDL–EL–DG–20160 Rev. 02

F.to UNI A3: 420mmx297mm