| CROSSWIND | HOLLANDSE KUST NOORD WIND PARK Project<br>Contract No. CW-I-WP4-2023-05 | ROSETTI MARINO |
|---|---|---|
| Document Title: | AC UPS - WIRING DIAGRAM & TERMINAL SCHEDULE INCLUDING EQUIPMENTS LIST & BILL OF MATERIAL | Sheet 4 of 303<br>Date: 03/10/2024<br>Rev: 03 |

# Base Load Power Hub (BLPH)

## AC UPS PAS - TAG: UP-200F3

## WIRING DIAGRAM & TERMINAL SCHEDULE

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|---|---|
| Project name | 1000007888_010 |
| Customer | ROSETTI MARINO |
| Key word | Hollandse Kust Noord (HKN) wind farm |

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|---|---|
| System | AC UPS PAS - TAG: UP-200F3 |
| Systems Type | System 40 kVA |
| Responsible for project | Ch.Peck |

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| Created on | 23.05.2024 | from Beckschäfer |
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| | | | | Date | 23.05.2024 | ROSETTI MARINO<br>Hollandse Kust Noord (HKN) wind farm | AEG POWER SOLUTIONS | System 40 kVA<br>Title page/Cover page | = | |
| | | | | Editor | Beckschäfer | | | | + | |
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System 40 kVA

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| | UPS2 | 15 | Terminal diagram | Terminal diagram =+UPS2-E4-X4 | Beckschäfer | | | |
| | UPS2 | 16 | Terminal diagram | Terminal diagram =+UPS2-F120 | Beckschäfer | | | |
| | UPS2 | 17 | Terminal diagram | Terminal diagram =+UPS2-F121 | Beckschäfer | | | |
| | UPS2 | 18 | Terminal diagram | Terminal diagram =+UPS2-PE | Beckschäfer | | | |
| | UPS2 | 19 | Terminal diagram | Terminal diagram =+UPS2-X12 | Beckschäfer | | | |
| | UPS2 | 20 | Terminal diagram | Terminal diagram =+UPS2-X13 | Beckschäfer | | | |
| | UPS2 | 21 | Terminal diagram | Terminal diagram =+UPS2-X14 | Beckschäfer | | | |
| | UPS2 | 22 | Terminal diagram | Terminal diagram =+UPS2-X15 | Beckschäfer | | | |
| | UPS2 | 23 | Terminal diagram | Terminal diagram =+UPS2-X114 | Beckschäfer | | | |
| | UPS2 | 24 | Terminal diagram | Terminal diagram =+UPS2-X120 | Beckschäfer | | | |


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| Stat | Alteration | Date | Name | Norm | |

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

System 40 kVA

Table of contents

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CAE EPLAN Electric P8

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# Structure identifier overview

| Full designation | Labeling | Structure description |
|---|---|---|
| +BAT1 | Installation location | Battery cabinet |
| +MBC1 | Installation location | Bypass transformer cabinet with manual bypass 40 kVA |
| +UPS1 | Installation location | Protect 8.33 40-400-210-400 |
| +UPS2 | Installation location | Protect 8.33 40-400-210-400 |
| &EAA | Document type | Title page/Cover page |
| &EAB | Document type | Table of contents |
| &EDB | Document type | Structure identifier overview |
| &EFA | Document type | Single-line diagram |
| &EFS | Document type | Circuit diagram |
| &EMA | Document type | Terminal diagram |

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

System 40 kVA

Structure identifier overview

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sheet 1
sheets 1

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CAE EPLAN Electric P8

AUXILIARY
From Lighting & Small Power DB BOP DP 200N1
(Cubicle 33-Q41)
1Ø1 240V/N/PE~50/60Hz

LINE A
From LV Switchgear SG-200N1
(Cubicle A3/Q1)
Mains
400V;3/PE~50Hz

From LV Switchgear SG 200N1
(Cubicle A7/Q2)
Bypass mains
400V;3/PE~50Hz

LINE B
From LV Switchgear SG 200N1
(Cubicle A4/Q1)
Mains 400V;3/PE~50Hz

back-up fuse gG10A 3G2.5mm2

gG63A 4G35mm2

gG63A 4G35mm2

gG63A 4G35mm2

Not included in the AEG shipment

| Code | Description |
|---|---|
| Q1 | Rectifier input mains breaker |
| T40 | Rectifier input isolation transformer |
| A1 | Rectifier |
| A2 | Inverter |
| T1 | Inverter output isolation transformer |
| A3-A4 | Static by-pass switch |
| A18 | Display control module |
| A85 | Heater |
| H1 | Light |

+MBC1
BY-200F3
Bypass transformer cabinet 40 kVA
1000007889.320
10039757

-X1 1U,1V,1W,PE
-X10 U,V,W,PE
-X13 U,N,PE
-X14 U,N
-X1 3U,3V,3W,PE
-A85
-H1
-Q10 L=80/65A I=0,8kA Icu=50kA
-T8 400V/400V 40kVA

-Q28.1 NC
-Q28.2 NC

-X1 2U,2V,2W,PE
-X4 1U,1V,1W,1N,PE
-X4 2U,2V,2W,2N,PE
-X1 4U,4V,4W,PE

+UPS1
BC-200F3A
Protect 8.33 40-400-210-400
1000007888.010
10039756

+UPS2
BC-200F3B
Protect 8.33 40-400-210-400
1000007889.310
10039755

-Q1 L=100/85A I=1,0kA Icu=50kA
-T40
-A1 REC
-A2 INV
-T1
-F1,-F2,-F3
-A18 Display
-A20 Parallel Adapter
-X3 INV CAN
-X5 INV Sync
-A3 SBS
-A4
-L11,-L12,-L13 Parallel preventive choke coil
-A12,-A13 Remote signaling
-A24.1 BLD PRO
-F91
-E1-X1 U,V,W,PE
-E2-X2 1L+,1L-,PE
-E3-X3 U,V,W,N,PE
-E4-X4 U,V,W,N,PE
-X15 2,3
-X130 1,2
-X2 1L+,1L-,PE
-X15 2,3
-X91 1M
-X5 1U,1V,1W,1N,PE
-X5 2U,2V,2W,2N,PE
-X2 2L+,2L-,PE
-X15 4,5
-X91 2M
-X130 1,2,1PE
-X2 3L+,3L-,PE
-X15 5,7
-X91 3M
-X130 3,4,2PE
-Q71 NC
-Q72 NC
-Q29 INV operation / Manual bypass
-F25
DP-200F3
-QF31 B32A 300mA
-QF32 B32A 300mA
-QF33 B32A 300mA
-QF34 B16A 300mA
5pc
-QF38 B16A 300mA
-QF39 B10A 300mA
4pc
-QF42 B13A 300mA
-QF43 B13A
8pc
-QF50 B10A
-QF51 B6A
-QF52 B6A
-X31 U,N,PE
-X32 U,N,PE
-X33 U,N,PE
-X34 U,N,PE
-X38 V,N,PE
-X39 V,N,PE
-X42 W,N,PE
-X43 W,N,PE
-X50 U,N,PE
-X51 V,N,PE
-X52 V,N,PE
-X2 4L+,4L-,PE
-X15 8,9
-X91 4M
-X130 3,4,2PE

Not included in the AEG shipment
max. gG16A
max. gG16A
Load
400/230V;3/N/PE~50Hz

2(1x70 mm2)
+BFB1
CB-200F3A
Battery fuse box 200 A
-Q2 L=200A
DC 24V max. 300W

2(1x70 mm2)
+BFB2
CB-200F3B
Battery fuse box 200 A
-Q2 L=200A
DC 24V max. 300W

2(1x70 mm2)
+BAT1
BA-200F3A
Batteries installed on rack
18 x FLG 12-150
Battery voltage 216V
Battery capacity 150Ah
string 1
-R81

2(1x70 mm2)
+BAT2
BA-200F3B
Batteries installed on rack
18 x FLG 12-150
Battery voltage 216V
Battery capacity 150Ah
string 1
-R81

*1 Attention! In the event of battery undervoltage < 130 V, the UPS automatically switches off battery isolator Q2.
If this happens, switch X15:3 must be switched into the open position (undervoltage trip blocked).
For restart, please refer to the chapter in the UPS operating instructions (charging the DC link capacitors) attached.
Unlock the tripped switch Q2 by switching to open position.
After charging the DC link capacitors, switch on Q2.
Attention! When the battery voltage reaches > 200 V, switch X15:3 must be switched back to the closed position.

*2 Connection cables are not included.

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 1000002753 | 18.10.2024 | Razvan MN | Date | 14.05.2021 | ROSETTI MARINO | AEG | System 40 kVA | | | |
| 22 | 1000002989 | 07.10.2024 | Razvan MN | Editor | EEC | Hofarstein Kais Nord (400) wind farm | | System drawing | | | |
| Doc | Key words | Date | Status | Name | Cl's Pers | | | | 1000007888_010 en | A0 | 1/1 |

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REC mains

UPS1

Top entry

-X1 1U 1V 1W

-PE

PE busbar

Cu 40x5 mm

Door

GNYE 6 mm²

Rack

Rack

BK R16 mm²

BK R16 mm²

BK R16 mm²

GNYE R35 mm²

Bottom entry

-X1 2U 2V 2W

-PE

Cu 40x5 mm

+UPS1

Protect 8.33 40-400-210-400

1000007888.010

10009756

GZ1_1 +UPS1/1.2

GZ1_2 +UPS1/1.2

GZ1_3 +UPS1/1.2

REC mains

UPS2

Top entry

-X1 3U 3V 3W

-PE

BK R16 mm²

BK R16 mm²

BK R16 mm²

Bottom entry

-X1 4U 4V 4W

-PE

+UPS2

Protect 8.33 40-400-210-400

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GZ1_1 +UPS2/1.2

GZ1_2 +UPS2/1.2

GZ1_3 +UPS2/1.2

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| Stat | Alteration | Date | Name | Norm | |

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

REC mains
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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+ MBC1
& EFS

A3

sheet 1
sheets 17

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+UPS1
Protect 8.33 40-400-210-400
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GZ2_1 +UPS1/4.3
GZ2_2 +UPS1/4.2
GZ2_3 +UPS1/4.3
GZ15_2 +UPS1/12.8
GZ15_3 +UPS1/12.8
GZ91_1 +UPS1/19.3
GZ130_1 +UPS1/12.2
GZ130_2 +UPS1/12.2

TO SHEET 86
(A13)

-W208
LiYCY 3x0,5 mm²
WH
BN

Bottom entry
-X2 1L+
1L-
-PE
-X15 2
3
-X15 12
13
-X91 1M

BK R70 mm²
BK R70 mm²
BK R2,5 mm²
BK R2,5 mm²
BK R2,5 mm²

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Top entry
-X2 2L+
2L-
-PE
-X15 4
5
-X15 10
11
-X91 2M

* **
SEE DOC. EL-DG-00011 SHEET 12

Battery fuse
Battery MCCB
Shunt opening release
Battery central tapping

Top entry
-X130 1
2
1PE
OG 1,5 mm²

+BAT1
Battery cabinet
-R81
-X1 1
2

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

GR-Ausgang UPS1
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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sheet 2
sheets 17

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+UPS2
Protect 8.33 40-400-210-400
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GZ2_1 +UPS2/4.3
GZ2_2 +UPS2/4.2
GZ2_3 +UPS2/4.3
GZ15_2 +UPS2/12.8
GZ15_3 +UPS2/12.8
GZ91_1 +UPS2/19.3
GZ130_1
GZ130_2

TO SHEET 132
(A13)

-W209
LiYCY 3x0,5 mm²
WH
BN

Bottom entry
-X2 3L+
3L-
-PE
-X15 6
7
-X15 12
13
-X91 3M

BK R70 mm²
BK R70 mm²
BK R2,5 mm²
BK R2,5 mm²
BK R2,5 mm²

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Top entry
-X2 4L+
4L-
-PE
-X15 8
9
-X15 10
11
-X91 4M

* **

SEE DOC. EL-DG-00011 SHEET 12

Battery fuse
Battery MCCB
Shunt opening release
Battery central tapping

Top entry
-X130 3
4
2PE
OG 1,5 mm²

+BAT2
Battery cabinet
-R81
-X1 1
2

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

GR-Ausgang UPS2
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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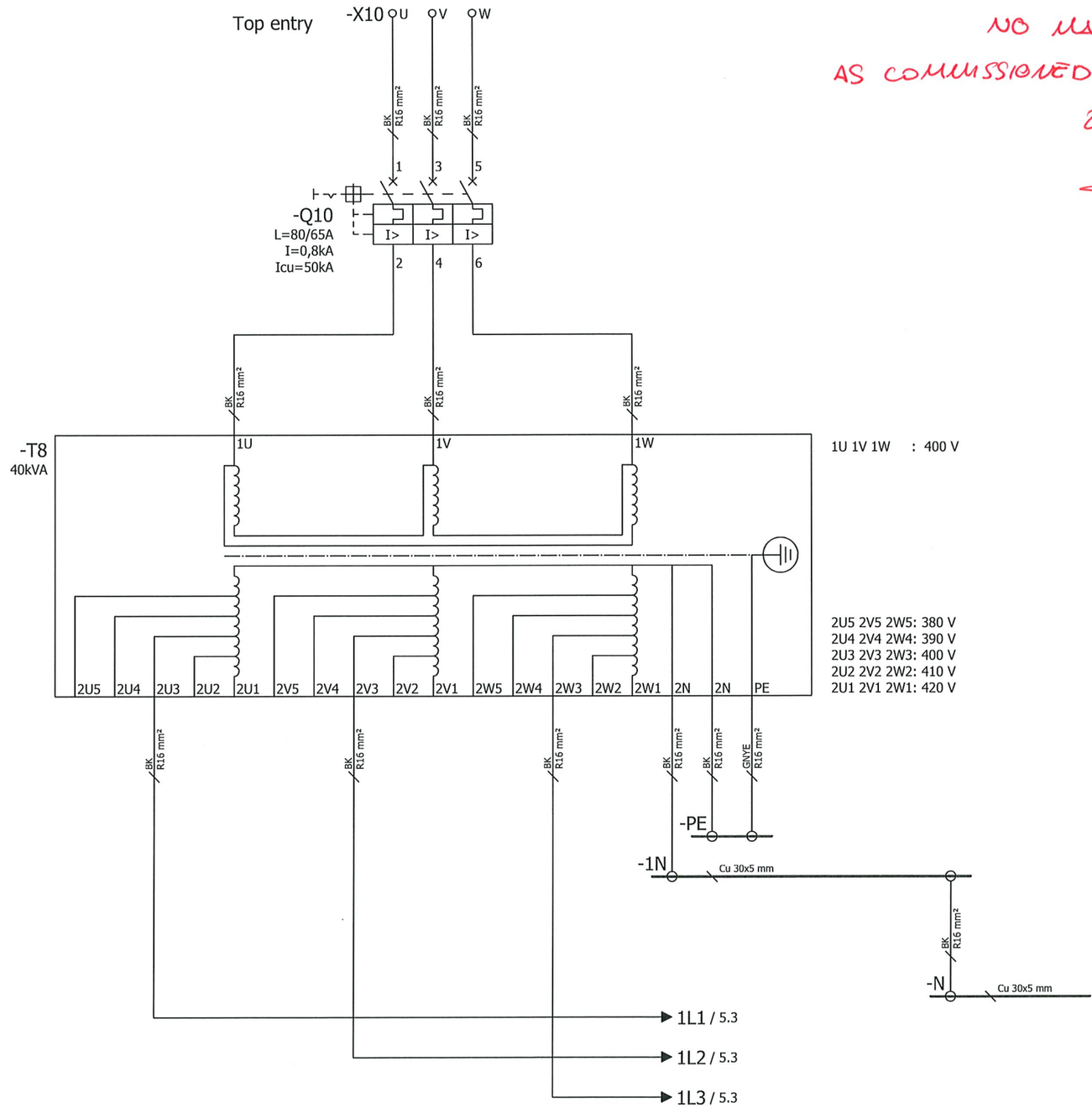
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sheets 17

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Mains
400V;3/PE~50Hz




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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Bypass Transformator
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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4.5 / 1L1 →
4.5 / 1L2 →
4.5 / 1L3 →

BK R16 mm²

-Q28.1 NH00 -

Bottom entry

-X4 1U 1V 1W 1N

-1N

-PE

GZ4_1 +UPS1/8.6
GZ4_2 +UPS1/8.6
GZ4_3 +UPS1/8.6
GZ4_4 +UPS1/8.6

+UPS1
Protect 8.33 40-400-210-400
1000007888.010
10009756

-Q28.2 NH00 -

Bottom entry

-X4 2U 2V 2W 2N

GZ4_1 +UPS2/8.6
GZ4_2 +UPS2/8.6
GZ4_3 +UPS2/8.6
GZ4_4 +UPS2/8.6

+UPS2
Protect 8.33 40-400-210-400
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→ 1L1 / 6.4
→ 1L2 / 6.4
→ 1L3 / 6.4

RLMU ✖ Yes ☐ No

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

SBS mains
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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A3 | sheet 5 | sheets 17

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CAE EPLAN Electric P8

+UPS1
Protect 8.33 40-400-210-400
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GZ3_1 +UPS1/8.2
GZ3_2 +UPS1/8.2
GZ3_3 +UPS1/8.2
GZ3_4 +UPS1/8.3

Bottom entry

-X5 1U 1V 1W 1N -PE

BK R16 mm²

-1N

-Q71
NH00
-
2 4 6
1 3 5

BK R16 mm²
BK R16 mm²
BK R16 mm²

+UPS2
Protect 8.33 40-400-210-400
1000007888.010
10009756

GZ3_1 +UPS2/8.2
GZ3_2 +UPS2/8.2
GZ3_3 +UPS2/8.2
GZ3_4 +UPS2/8.3

Bottom entry

-X5 2U 2V 2W 2N -PE

BK R16 mm²

-1N

-Q72
NH00
-
2 4 6
1 3 5

BK R16 mm²

Switch position
Q29

Top entry

-X12 1 2 3

BK R0,75 mm²

5.7 / 1L1
5.7 / 1L2
5.7 / 1L3

-Q29
115A
1 INV operation
2 Manual bypass
1 3 5 7 9 11 101 103
2/4 6/8 10/12
2 6 10 102 104

-1L3 Cu 30x5 mm
-1L2 Cu 30x5 mm
-1L1 Cu 30x5 mm

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Manual bypass
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

1000007888.020
10009757

1000007888_010 en

= 
+ MBC1
& EFS

A3

sheet 6
sheets 17

CAE EPLAN Electric P8

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123A90-FDL-1724000372-EL-DG-00009

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| 3_A | 15/11/24 | G.Randi |

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NO MARK UP

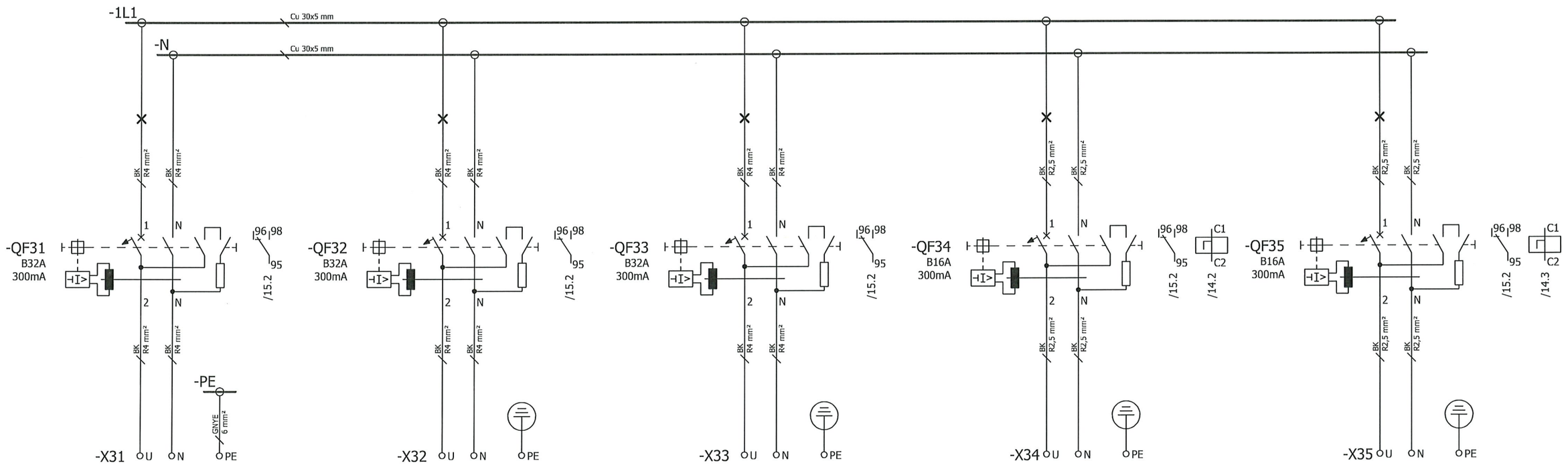
AS COMMISSIONED: MATTIA GINOZZI

24/3/25

ROSETTI MARINO **RED LINE AS BUILT STAMP**

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| RLMU | ✖ Yes ☐ No |
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Load
230V/N/PE~50Hz

SPARE

Load
230V/N/PE~50Hz

SPARE

Load
230V/N/PE~50Hz

SPARE

Load
230V/N/PE~50Hz

CP-630-E1
UCP-INSTRUMENT AIR PACKAGE
1.5KW

Load
230V/N/PE~50Hz

CP-640-E1
UCP-N2 PACKAGE
1.5KW

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|---|---|---|---|---|---|
| | | | | Date | 23.05.2024 |
| 01 | 500000002053 | 13.08.2024 | Beckschäfer | Editor | Beckschäfer |
| 02 | 500000002089 | 27.08.2024 | Beckschäfer | Checked | Ch.Peck |
| Stat | Alteration | Date | Name | Norm | |

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

1000007888.020
10009757

1000007888_010 en

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+ MBC1
& EFS

A3

sheet 7
sheets 17

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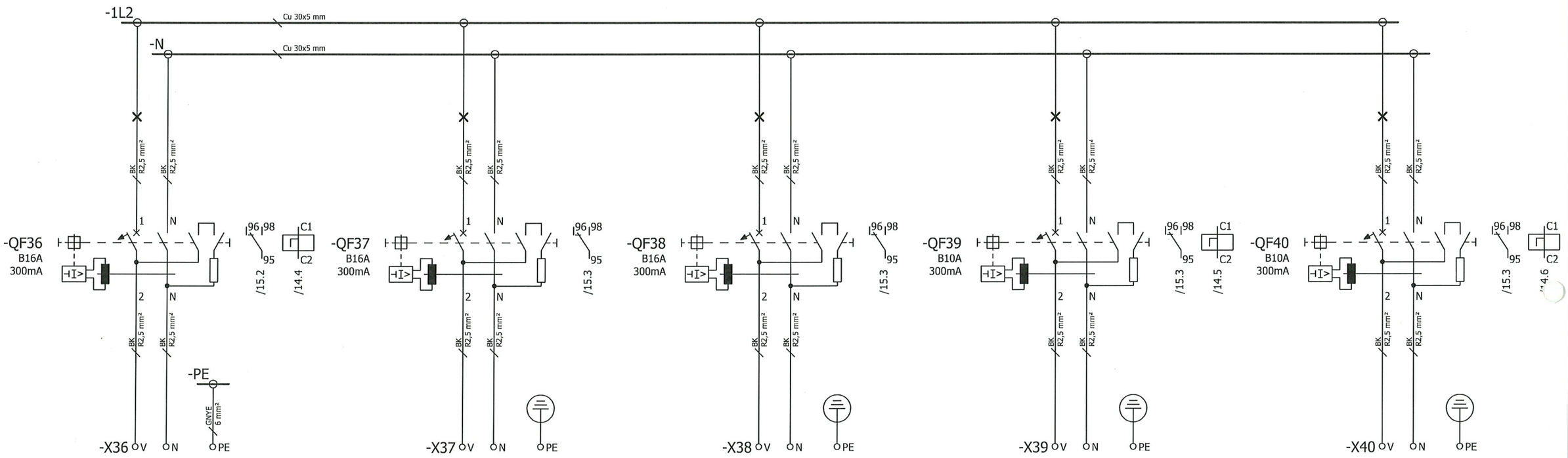
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NO MARK UP
AS COMMISSIONED: NATALIA GIROTTI
24/3/25




Load
230V/N/PE~50Hz

JB-500-F8
UCP WATER PACKAGE
2KW

Load
230V/N/PE~50Hz

B400-SRV-001
SERVER CABINET ITER - LINE A

Load
230V/N/PE~50Hz

B400-SRV-001
SERVER CABINET ITER - LINE B

Load
230V/N/PE~50Hz

B100-HSB-001
UCP-HVAC HV ROOM
0.5KW

Load
230V/N/PE~50Hz

B200-HSB-001
UCP-HVAC LV ROOM
0.5KW

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|---|---|---|---|---|---|
| | | | | Date | 23.05.2024 |
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| Stat | Alteration | Date | Name | Norm | |

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

1000007888.020
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& EFS

A3

sheet 8
sheets 17

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**ROSETTI MARINO SpA**

~~NO MARK UP~~

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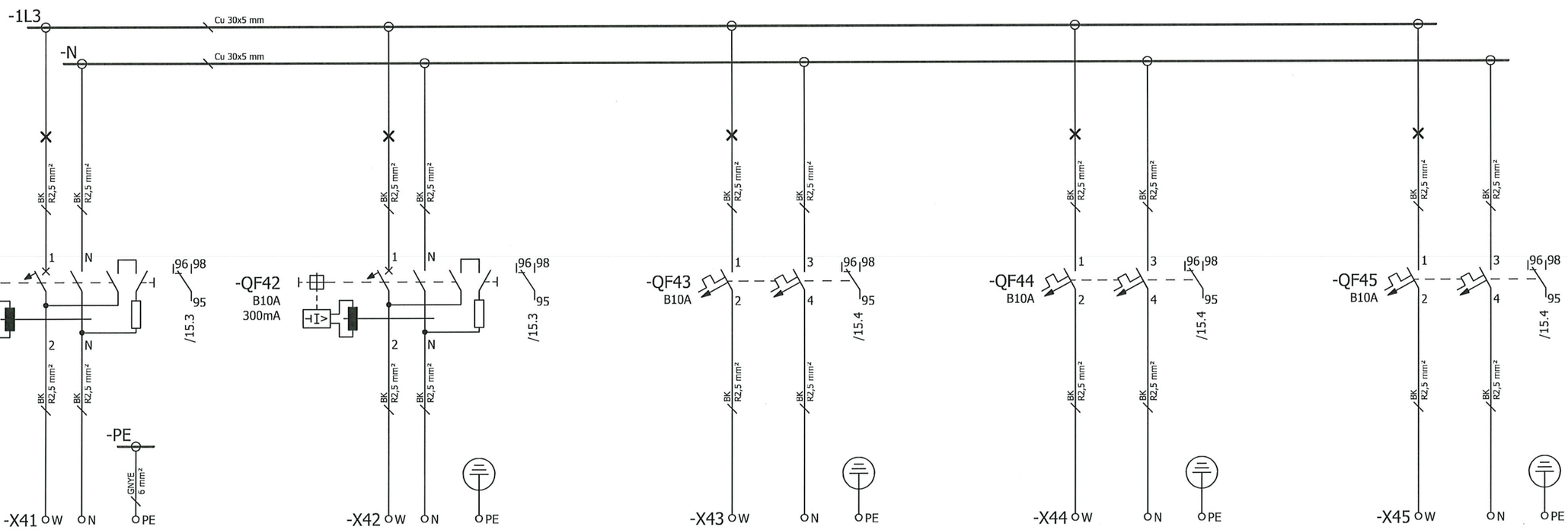
RLMU ✖ Yes ☐ No

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Load
230V/N/PE~50Hz

B300-HSB-001
UCP-HVAC UPS ROOM
0.5KW

Load
230V/N/PE~50Hz

B 400
~~B300~~-HSB-001
UCP-HVAC ITER
0.5KW

Load
230V/N/PE~50Hz

B400-SIS-001
SIS-CONTROLLER AND I/O
CABINET-LINE A - 1KW

Load
230V/N/PE~50Hz

B400-SIS-001
SIS-CONTROLLER AND I/O
CABINET-LINE B - 1KW

Load
230V/N/PE~50Hz

B400-PCS-001
PCS-CONTROLLER AND I/O
CABINET-LINE A - 1.5KW

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| | | | | | |
|---|---|---|---|---|---|
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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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A3 | sheet 9 | sheets 17

CAE EPLAN Electric P8

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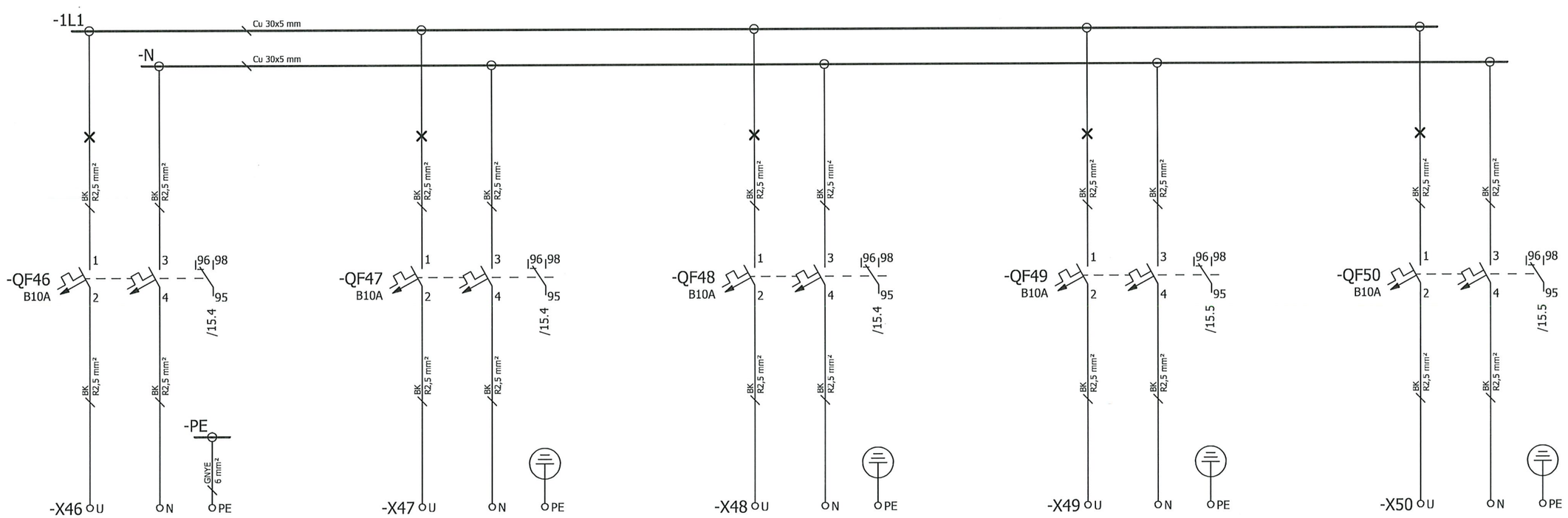
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DAVIDE ZUCCONELLI
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21/03/2025

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Load
230V/N/PE~50Hz

B400-PCS-001
PCS-CONTROLLER AND I/O
CABINET-LINE B - 1.5KW

Load
230V/N/PE~50Hz

B400-EMCS-001
EMCS-CONTROLLER AND I/O
CABINET-LINE A - 1KW

Load
230V/N/PE~50Hz

B400-EMCS-001
EMCS-CONTROLLER AND I/O
CABINET-LINE B - 1KW

Load
230V/N/PE~50Hz

SG-200-N1
LV SWITCHBOARD AUXILIARY
1KW

Load
230V/N/PE~50Hz

SPARE

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| | | | | | |
|---|---|---|---|---|---|
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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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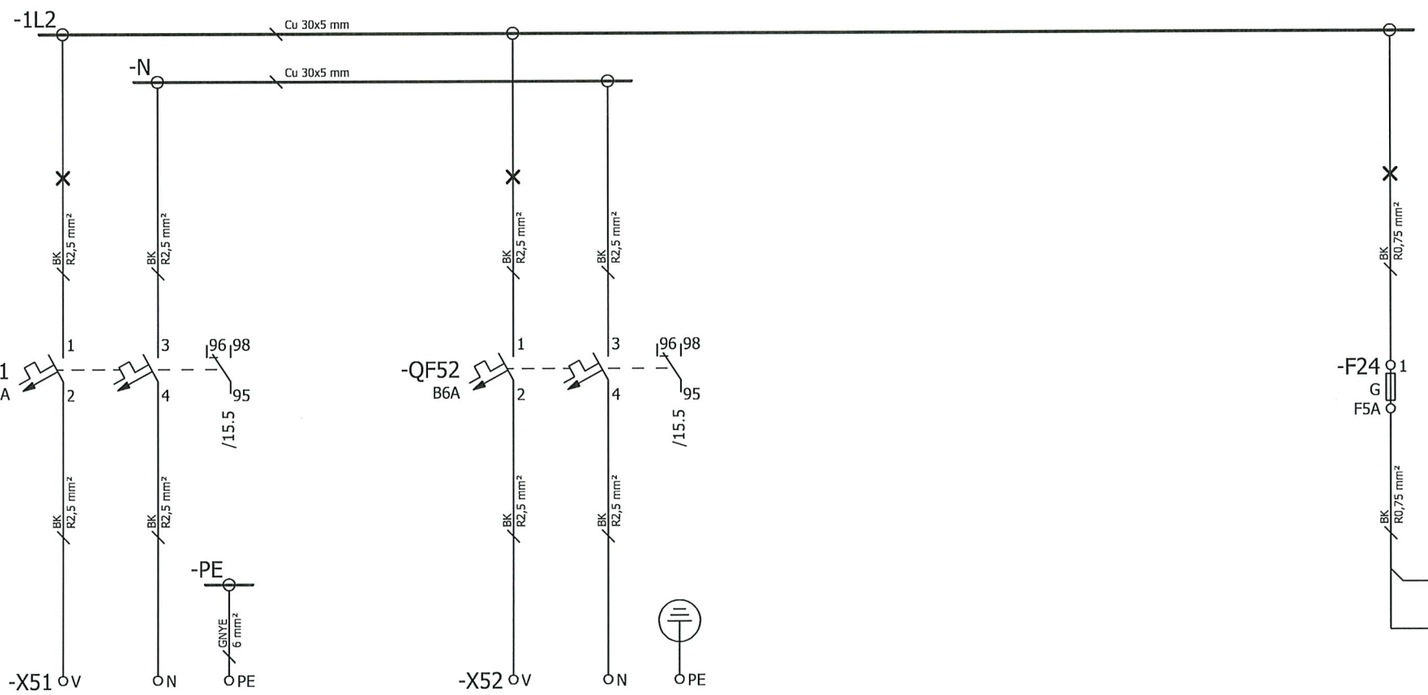
A3

sheet 10
sheets 17

CAE EPLAN Electric P8

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NO MARK UP
AS COMMISSIONED: MARIA GIROTTI
26/3/25




Load
230V/N/PE~50Hz

SG-200-D2
LV SWITCHBOARD
800/460V AUXILIARY

Load
230V/N/PE~50Hz

SPARE
0.5KW

| | | | | | |
|---|---|---|---|---|---|
| | | | | Date | 13.08.2024 |
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| Stat | Alteration | Date | Name | Norm | |

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Load
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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& EFS

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sheet 11
sheets 17

ROSETTI MARINO

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RLMU ✖ Yes ☐ No

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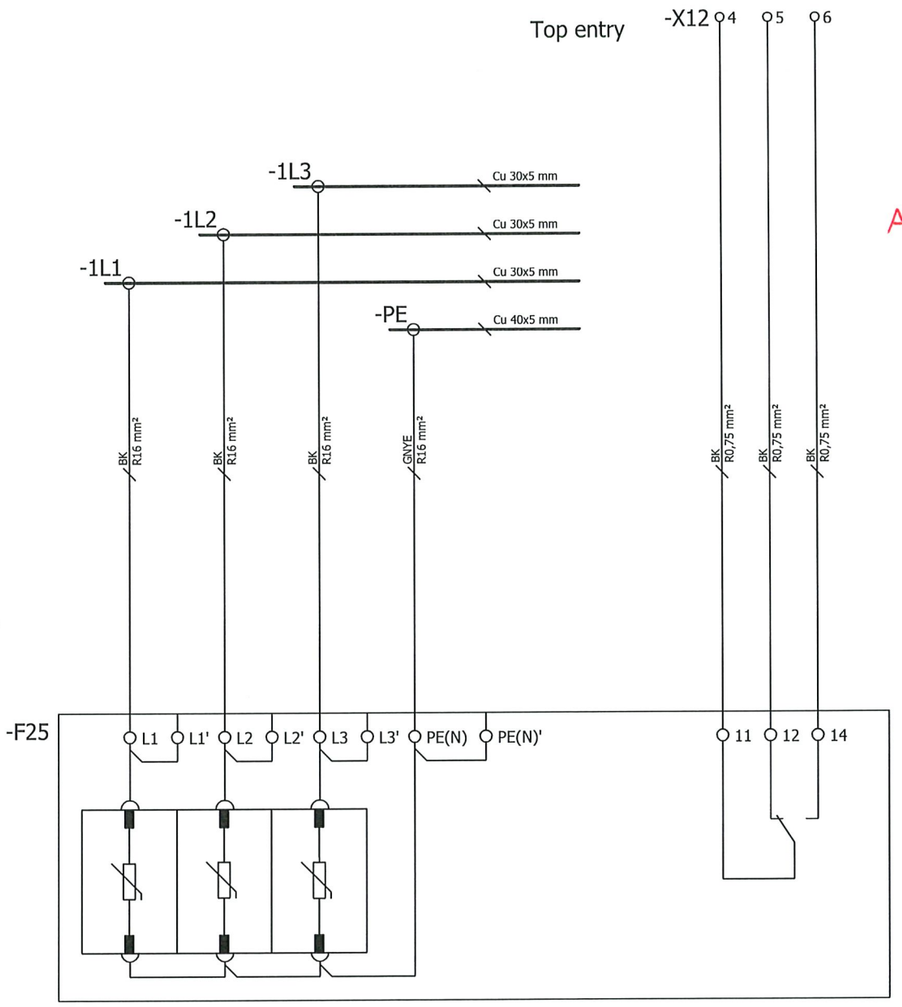
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status
Surge arrester

Top entry




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ROSETTI MARINO SpA

1000007

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Surge arrester
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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& EFS

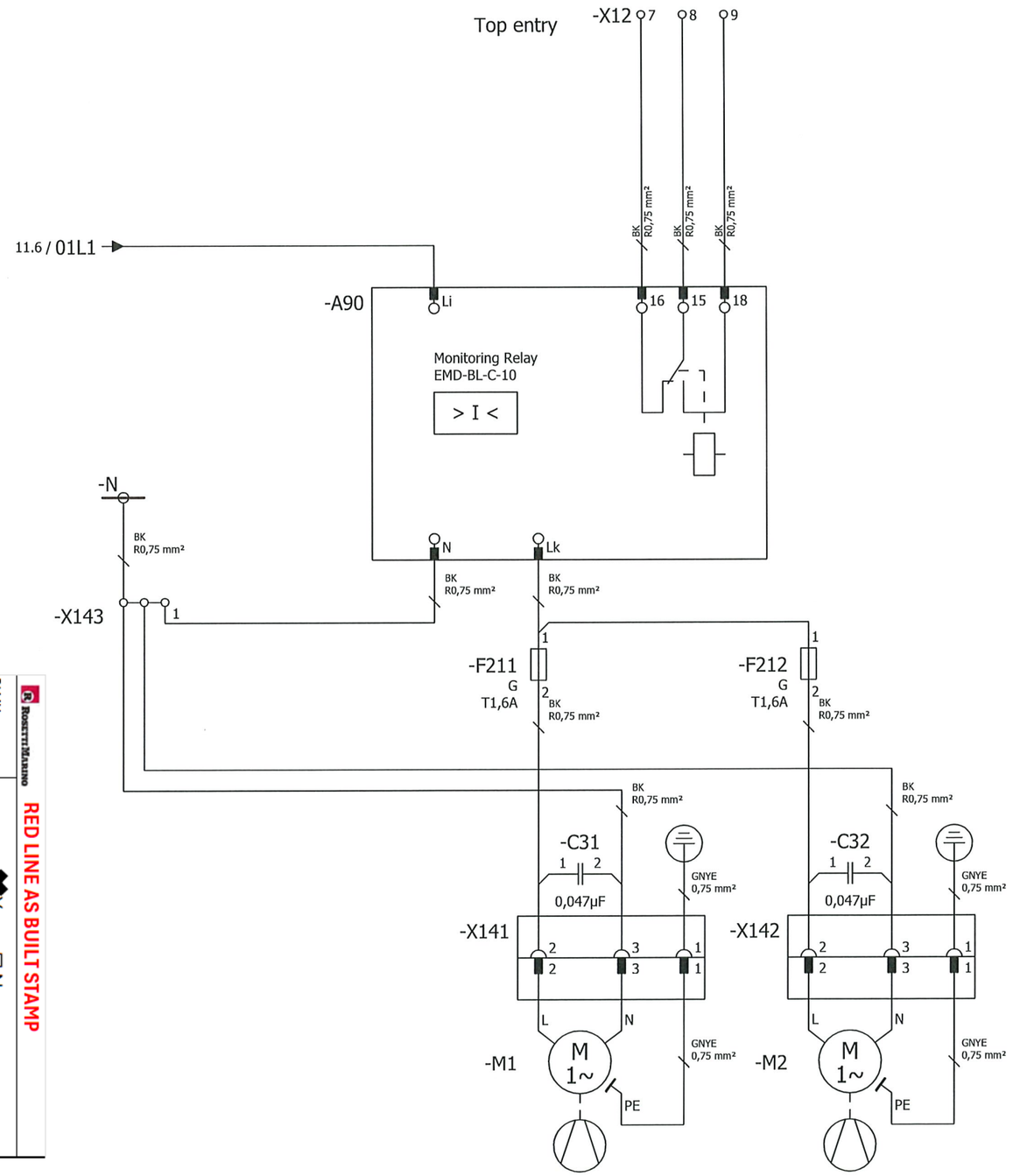
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# Fan fault




NO MARK UP

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| | | | | Date | 22.05.2024 |
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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Fan control
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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& EFS

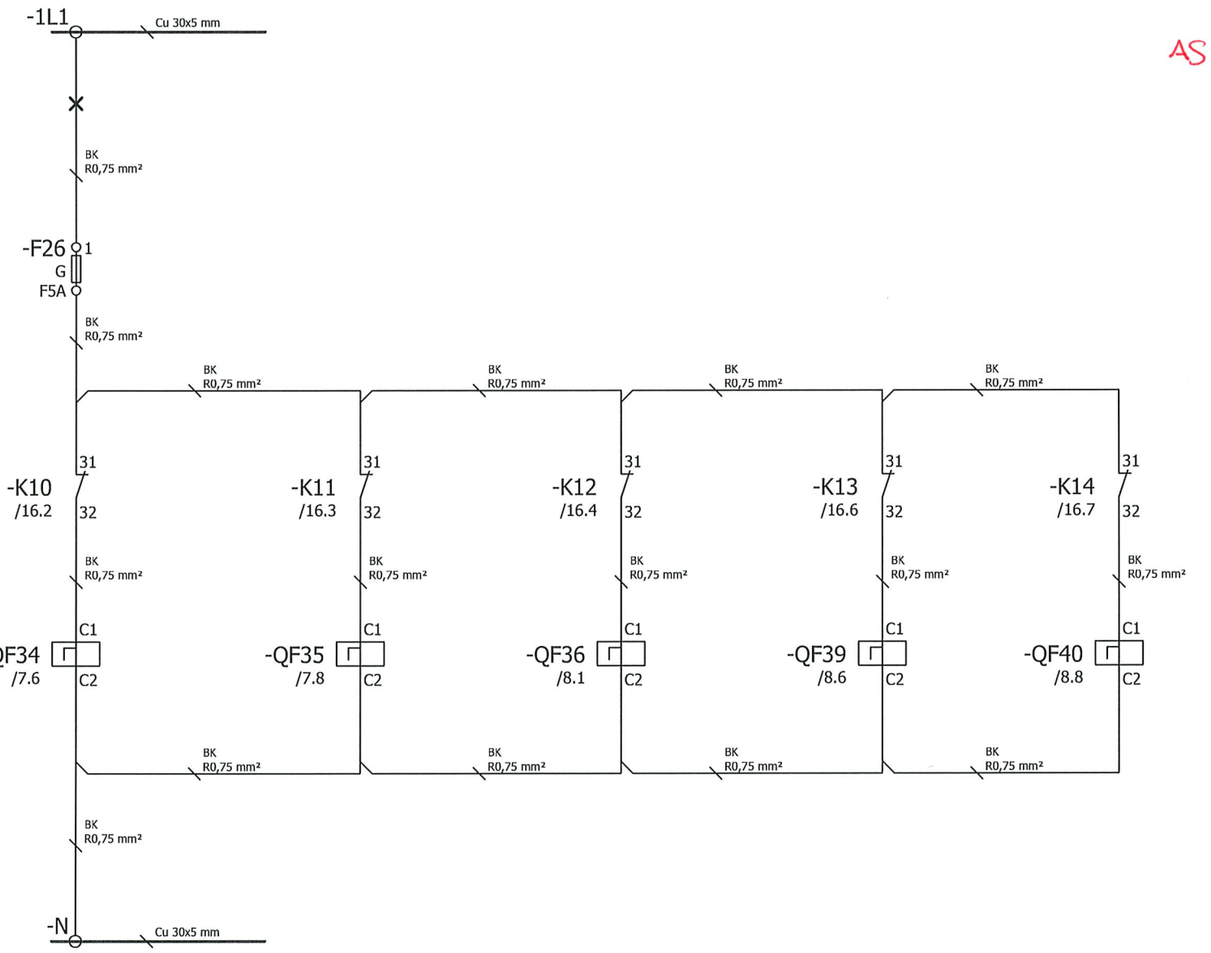
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sheet 13
sheets 17

1000007

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| | | | | Date | 03.06.2024 |
| 01 | 500000002053 | 13.08.2024 | Beckschäfer | Editor | Beckschäfer |
| 02 | 500000002089 | 27.08.2024 | Beckschäfer | Checked | Ch.Peck |
| Stat | Alteration | Date | Name | Norm | |

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Tripping
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

1000007888.020
10009757

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+ MBC1
& EFS

A3

sheet 14
sheets 17

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11.6 / 02L1

BK R0,75 mm²

-QF31 /7.2
-QF32 /7.3
-QF33 /7.4
-QF34 /7.6
-QF35 /7.8
-QF36
-QF37 /8.3
-QF38 /8.5
-QF39 /8.6
-QF40 /8.8
-QF41 /9.2
-QF42 /9.3
-QF43 /9.4
-QF44 /9.6
-QF45 /9.7
-QF46 /10.2
-QF47 /10.3
-QF48 /10.4
-QF49 /10.6
-QF50 /10.7
-QF51 /11.2
-QF52 /11.3

96 98 / 95

-K1 A1(+) A2(-)
-K2 A1(+) A2(-)
-N

PXC.2966207_PLC-RSC-230UC/21
14 – 11 /15.7
12

Common fault

QF31 - QF52

Top entry

-X12 10 11 12

-K1 /15.3
-K2 /15.5

12 14

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AS COMMISSIONED: MARIA GIRON

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| | | | | Editor | Beckschäfer |
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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Common fault
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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& EFS

A3

sheet 15
sheets 17

RLMU ✖ Yes ☐ No

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QF34 (C16A)

24V DC is permanently present in fault-free operation

QF35 (C16A)

24V DC is permanently present in fault-free operation

QF36 (C16A)

24V DC is permanently present in fault-free operation

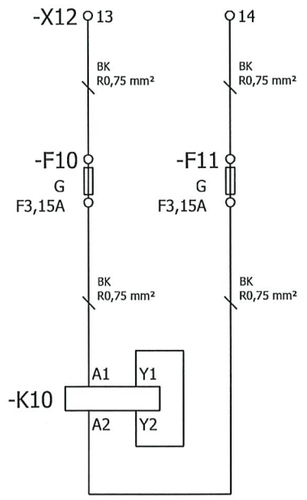
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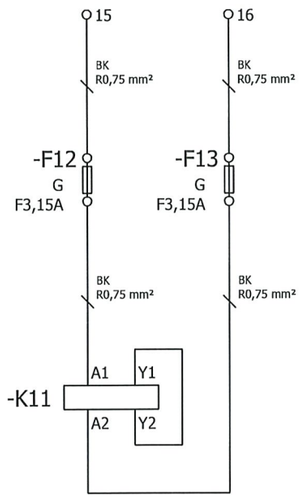
24V DC is permanently present in fault-free operation

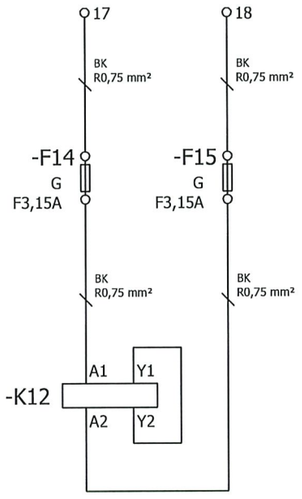
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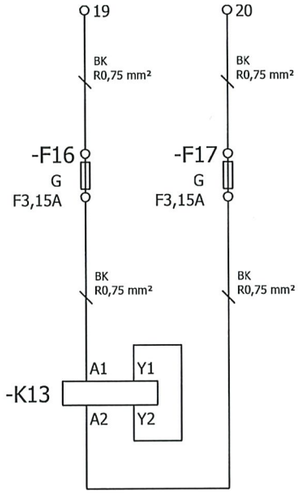
24V DC is permanently present in fault-free operation

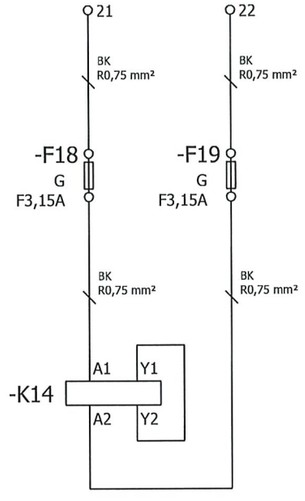
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AS COMMISSIONED: MATTIA GIROTTI
26/3/25

PXC.2981020_PSR-SCP- 24DC/ESP4/2X1/1X2
13 — 14
23 — 24
31 — 32 /14.2

PXC.2981020_PSR-SCP- 24DC/ESP4/2X1/1X2
13 — 14
23 — 24
31 — 32 /14.3

PXC.2981020_PSR-SCP- 24DC/ESP4/2X1/1X2
13 — 14
23 — 24
31 — 32 /14.4

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13 — 14
23 — 24
31 — 32 /14.5

PXC.2981020_PSR-SCP- 24DC/ESP4/2X1/1X2
13 — 14
23 — 24
31 — 32 /14.6

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|---|---|---|---|---|---|
| | | | | Date | 03.06.2024 |
| 01 | 500000002053 | 13.08.2024 | Beckschäfer | Editor | Beckschäfer |
| 02 | 500000002089 | 27.08.2024 | Beckschäfer | Checked | Ch.Peck |

ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Remote signaling
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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= 
+ MBC1
& EFS

A3

sheet 16
sheets 17

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+UPS1
Protect 8.33 40-400-210-400
1000007888.010
10009756

GZ13_1
+UPS1/23.7

GZ13_2
+UPS1/23.7

+UPS2
Protect 8.33 40-400-210-400
1000007888.010
10009756

GZ13_1
+UPS2/23.2

GZ13_2
+UPS2/23.3

BK
R1,5 mm²

BK
R1,5 mm²

Top entry

-X13 U U N N PE PE

BK
R0,75 mm²

BK
R0,75 mm²

-F100 1
G
T6,3A

BK
R0,75 mm²

L

-F85
I> 3 2

BK
R0,75 mm²

-A85 -X1 3 2

-R1

Top entry

-X14 U U N N

BK
R0,75 mm²

-F110 1
G
T6,3A 2

BK
R0,75 mm²

BK
R0,75 mm²

-X114 U N

-W100
H05VV
2x1 mm²
3 m

L N

-H1
Enclosure light

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

external connection
Bypass transformer cabinet
with manual bypass 40 kVA
Circuit diagram

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sheet 17
sheets 17

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# Terminal diagram

bar
=+MBC1-PE

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | PE | | | | | | +MBC1&EFS/1.3 |
| | | | | PE | | | | | | +MBC1&EFS/1.3 |
| | | | | PE | | | | | | +MBC1&EFS/1.6 |
| | | | | PE | | | | | | +MBC1&EFS/1.6 |
| | | +UPS1-PE | PE | PE | | | | | | +MBC1&EFS/2.3 |
| | | | | PE | | | | | | +MBC1&EFS/2.3 |
| | | +UPS2-PE | PE | PE | | | | | | +MBC1&EFS/3.3 |
| | | | | PE | | | | | | +MBC1&EFS/3.3 |
| | | | | PE | | | | | | +MBC1&EFS/5.4 |
| | | | | PE | | | | | | +MBC1&EFS/5.7 |
| | | | | PE | | | | | | +MBC1&EFS/6.3 |
| | | | | PE | | | | | | +MBC1&EFS/6.6 |

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-PE
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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= | + MBC1 | & EMA | A3 | sheet 1 | sheets 34

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# Terminal diagram

bar

## =+MBC1-X1

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1U | ' | -X1 | 2U | | | +MBC1&EFS/1.3 |
| | | | | 1V | ' | -X1 | 2V | | | +MBC1&EFS/1.3 |
| | | | | 1W | ' | -X1 | 2W | | | +MBC1&EFS/1.3 |
| | | +UPS1-E1-X1 | U | 2U | ' | -X1 | 1U | | | +MBC1&EFS/1.3 |
| | | +UPS1-E1-X1 | V | 2V | ' | -X1 | 1V | | | +MBC1&EFS/1.3 |
| | | +UPS1-E1-X1 | W | 2W | ' | -X1 | 1W | | | +MBC1&EFS/1.3 |
| | | | | 3U | ' | -X1 | 4U | | | +MBC1&EFS/1.6 |
| | | | | 3V | ' | -X1 | 4V | | | +MBC1&EFS/1.6 |
| | | | | 3W | ' | -X1 | 4W | | | +MBC1&EFS/1.6 |
| | | +UPS2-E1-X1 | U | 4U | ' | -X1 | 3U | | | +MBC1&EFS/1.6 |
| | | +UPS2-E1-X1 | V | 4V | ' | -X1 | 3V | | | +MBC1&EFS/1.6 |
| | | +UPS2-E1-X1 | W | 4W | ' | -X1 | 3W | | | +MBC1&EFS/1.6 |

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X1
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

A3

sheet 2
sheets 34

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# Terminal diagram

bar

## =+MBC1-X2

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | +UPS1-E2-X2 | L+ | 1L+ | ' | -X2 | 2L+ | | | +MBC1&EFS/2.2 |
| | | +UPS1-E2-X2 | L- | 1L- | ' | -X2 | 2L- | | | +MBC1&EFS/2.3 |
| | | | | 2L+ | ' | -X2 | 1L+ | | | +MBC1&EFS/2.2 |
| | | | | 2L- | ' | -X2 | 1L- | | | +MBC1&EFS/2.3 |
| | | +UPS2-E2-X2 | L+ | 3L+ | ' | -X2 | 4L+ | | | +MBC1&EFS/3.2 |
| | | +UPS2-E2-X2 | L- | 3L- | ' | -X2 | 4L- | | | +MBC1&EFS/3.3 |
| | | | | 4L+ | ' | -X2 | 3L+ | | | +MBC1&EFS/3.2 |
| | | | | 4L- | ' | -X2 | 3L- | | | +MBC1&EFS/3.3 |

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X2
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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+ MBC1
& EMA

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# Terminal diagram

bar

## =+MBC1-X4

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable type | Cable name | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | +UPS1-E4-X4 | U | 1U | ' | -Q28.1 | 2 | | | +MBC1&EFS/5.3 |
| | | +UPS1-E4-X4 | V | 1V | ' | -Q28.1 | 4 | | | +MBC1&EFS/5.3 |
| | | +UPS1-E4-X4 | W | 1W | ' | -Q28.1 | 6 | | | +MBC1&EFS/5.3 |
| | | +UPS1-E4-X4 | N | 1N | ' | -1N | | | | +MBC1&EFS/5.4 |
| | | +UPS2-E4-X4 | U | 2U | ' | -Q28.2 | 2 | | | +MBC1&EFS/5.6 |
| | | +UPS2-E4-X4 | V | 2V | ' | -Q28.2 | 4 | | | +MBC1&EFS/5.6 |
| | | +UPS2-E4-X4 | W | 2W | ' | -Q28.2 | 6 | | | +MBC1&EFS/5.6 |
| | | +UPS2-E4-X4 | N | 2N | ' | -1N | | | | +MBC1&EFS/5.6 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X4
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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# Terminal diagram

bar

## =+MBC1-X5

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | +UPS1-E3-X3 | U | 1U | ' | -Q71 | 2 | | | +MBC1&EFS/6.3 |
| | | +UPS1-E3-X3 | V | 1V | ' | -Q71 | 4 | | | +MBC1&EFS/6.3 |
| | | +UPS1-E3-X3 | W | 1W | ' | -Q71 | 6 | | | +MBC1&EFS/6.3 |
| | | +UPS1-E3-X3 | N | 1N | ' | -1N | | | | +MBC1&EFS/6.3 |
| | | +UPS2-E3-X3 | U | 2U | ' | -Q72 | 2 | | | +MBC1&EFS/6.5 |
| | | +UPS2-E3-X3 | V | 2V | ' | -Q72 | 4 | | | +MBC1&EFS/6.5 |
| | | +UPS2-E3-X3 | W | 2W | ' | -Q72 | 6 | | | +MBC1&EFS/6.6 |
| | | +UPS2-E3-X3 | N | 2N | ' | -1N | | | | +MBC1&EFS/6.6 |

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X5
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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# Terminal diagram

| Cable name | bar =+MBC1-X10 | | | | | | Cable name | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable type | | | | Position / Page |
| | | | U | ' | -Q10 | 1 | | | | | +MBC1&EFS/4.4 |
| | | | V | ' | -Q10 | 3 | | | | | +MBC1&EFS/4.5 |
| | | | W | ' | -Q10 | 5 | | | | | +MBC1&EFS/4.5 |

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Hollandse Kust Noord (HKN) wind farm

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Terminal diagram =+MBC1-X10
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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sheet 6
sheets 34

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# Terminal diagram

bar
=+MBC1-X12

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable type | Cable name | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1 | ' | -Q29 | 103 | | | +MBC1&EFS/6.7 |
| | | | | 2 | ' | -Q29 | 104 | | | +MBC1&EFS/6.7 |
| | | | | 3 | ' | -Q29 | 102 | | | +MBC1&EFS/6.7 |
| | | | | 4 | ' | -F25 | 11 | | | +MBC1&EFS/12.6 |
| | | | | 5 | ' | -F25 | 12 | | | +MBC1&EFS/12.6 |
| | | | | 6 | ' | -F25 | 14 | | | +MBC1&EFS/12.6 |
| | | | | 7 | ' | -A90 | 16 | | | +MBC1&EFS/13.4 |
| | | | | 8 | ' | -A90 | 15 | | | +MBC1&EFS/13.4 |
| | | | | 9 | ' | -A90 | 18 | | | +MBC1&EFS/13.4 |
| | | | | 10 | ' | -K1 | 12 | | | +MBC1&EFS/15.7 |
| | | | | 11 | ' | -K1 | 11 | | | +MBC1&EFS/15.7 |
| | | | | 12 | ' | -K2 | 14 | | | +MBC1&EFS/15.7 |
| | | | | 13 | ' | -F10 | 1:1 | | | +MBC1&EFS/16.2 |
| | | | | 14 | ' | -F11 | 1:1 | | | +MBC1&EFS/16.2 |
| | | | | 15 | ' | -F12 | 1:1 | | | +MBC1&EFS/16.3 |
| | | | | 16 | ' | -F13 | 1:1 | | | +MBC1&EFS/16.3 |
| | | | | 17 | ' | -F14 | 1:1 | | | +MBC1&EFS/16.4 |
| | | | | 18 | ' | -F15 | 1:1 | | | +MBC1&EFS/16.5 |
| | | | | 19 | ' | -F16 | 1:1 | | | +MBC1&EFS/16.6 |
| | | | | 20 | ' | -F17 | 1:1 | | | +MBC1&EFS/16.6 |
| | | | | 21 | ' | -F18 | 1:1 | | | +MBC1&EFS/16.7 |
| | | | | 22 | ' | -F19 | 1:1 | | | +MBC1&EFS/16.8 |

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X12
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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# Terminal diagram

bar
## =+MBC1-X13

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | +UPS1-X14 | U | U | ● | -F100 | 1:1 | | | +MBC1&EFS/17.2 |
| | | -X14 | U | U | ● | | | | | +MBC1&EFS/17.2 |
| | | +UPS1-X14 | N | N | ● | -A85 | -X1:2 | | | +MBC1&EFS/17.3 |
| | | -X14 | N | N | ● | | | | | +MBC1&EFS/17.3 |
| | | | | PE | ' | | | | | +MBC1&EFS/17.3 |
| | | | | PE | ' | | | | | +MBC1&EFS/17.3 |

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

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Terminal diagram =+MBC1-X13
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

bar

## =+MBC1-X14

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | -X13 | U | U | | -F110 | 1:2 | | | +MBC1&EFS/17.6 |
| | | +UPS2-X13 | U | U | | | | | | +MBC1&EFS/17.6 |
| | | -X13 | N | N | | -X114 | N | | | +MBC1&EFS/17.7 |
| | | +UPS2-X13 | N | N | | | | | | +MBC1&EFS/17.7 |

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Hollandse Kust Noord (HKN) wind farm

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Terminal diagram =+MBC1-X14
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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# Terminal diagram

bar
=+MBC1-X15

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | +UPS1-X15 | 2 | 2 | ' | -X15 | 4 | | | +MBC1&EFS/2.4 |
| | | +UPS2-X15 | 2 | 6 | ' | -X15 | 8 | | | +MBC1&EFS/3.4 |
| | | | | 4 | ' | -X15 | 2 | | | +MBC1&EFS/2.4 |
| | | | | 8 | ' | -X15 | 6 | | | +MBC1&EFS/3.4 |
| | | +UPS1-X15 | 3 | 3 | ' | -X15 | 5 | | | +MBC1&EFS/2.4 |
| | | +UPS2-X15 | 3 | 7 | ' | -X15 | 9 | | | +MBC1&EFS/3.4 |
| | | | | 5 | ' | -X15 | 3 | | | +MBC1&EFS/2.4 |
| | | | | 9 | ' | -X15 | 7 | | | +MBC1&EFS/3.4 |

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

bar
=+MBC1-X31

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF31 | 2 | | | +MBC1&EFS/7.2 |
| | | | | N | ' | -QF31 | N | | | +MBC1&EFS/7.2 |
| | | | | PE | ' | -PE | | | | +MBC1&EFS/7.2 |

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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# Terminal diagram

bar

## =+MBC1-X32

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF32 | 2 | | | +MBC1&EFS/7.3 |
| | | | | N | ' | -QF32 | N | | | +MBC1&EFS/7.3 |
| | | | | PE | ' | | | | | +MBC1&EFS/7.3 |

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with manual bypass 40 kVA
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# Terminal diagram

bar

## =+MBC1-X33

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF33 | 2 | | | +MBC1&EFS/7.4 |
| | | | | N | ' | -QF33 | N | | | +MBC1&EFS/7.5 |
| | | | | PE | ' | | | | | +MBC1&EFS/7.5 |

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

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## =+MBC1-X34

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF34 | 2 | | | +MBC1&EFS/7.6 |
| | | | | N | ' | -QF34 | N | | | +MBC1&EFS/7.6 |
| | | | | PE | | | | | | +MBC1&EFS/7.6 |

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

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## =+MBC1-X35

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF35 | 2 | | | +MBC1&EFS/7.8 |
| | | | | N | ' | -QF35 | N | | | +MBC1&EFS/7.8 |
| | | | | PE | | | | | | +MBC1&EFS/7.8 |
| | | | | | | | | | | |
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# Terminal diagram

bar
## =+MBC1-X36

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable type | Cable name | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | V | ' | -QF36 | 2 | | | +MBC1&EFS/8.1 |
| | | | | N | ' | -QF36 | N | | | +MBC1&EFS/8.2 |
| | | -PE | | PE | | | | | | +MBC1&EFS/8.2 |

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

Cable name

Cable type

bar

=+MBC1-X37

| Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|
| | | V | ' | -QF37 | 2 | | | +MBC1&EFS/8.3 |
| | | N | ' | -QF37 | N | | | +MBC1&EFS/8.3 |
| | | PE | | | | | | +MBC1&EFS/8.3 |

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Terminal diagram

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# Terminal diagram

bar

## =+MBC1-X39

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | V | ' | -QF39 | 2 | | | +MBC1&EFS/8.6 |
| | | | | N | ' | -QF39 | N | | | +MBC1&EFS/8.6 |
| | | | | PE | | | | | | +MBC1&EFS/8.6 |

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

bar
=+MBC1-X40

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | V | ' | -QF40 | 2 | | | +MBC1&EFS/8.8 |
| | | | | N | ' | -QF40 | N | | | +MBC1&EFS/8.8 |
| | | | | PE | | | | | | +MBC1&EFS/8.8 |

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

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## =+MBC1-X41

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | W | ' | -QF41 | 2 | | | +MBC1&EFS/9.2 |
| | | | | N | ' | -QF41 | N | | | +MBC1&EFS/9.2 |
| | | -PE | | PE | | | | | | +MBC1&EFS/9.2 |

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

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## =+MBC1-X42

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | W | ' | -QF42 | 2 | | | +MBC1&EFS/9.3 |
| | | | | N | ' | -QF42 | N | | | +MBC1&EFS/9.3 |
| | | | | PE | | | | | | +MBC1&EFS/9.3 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X42
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

1000007888_010 en

=
+ MBC1
& EMA

A3

sheet 22
sheets 34

1000007

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# Terminal diagram

NO MARK UP
AS COMMISSIONED : MATTIA GIROTTI 26/3/25

bar
=+MBC1-X43

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable type | Cable name | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | W | ' | -QF43 | 2 | | | +MBC1&EFS/9.4 |
| | | | | N | ' | -QF43 | 4 | | | +MBC1&EFS/9.5 |
| | | | | PE | | | | | | +MBC1&EFS/9.5 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X43
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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+ MBC1
& EMA

A3 | sheet 23 | sheets 34

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NO MARK UP

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# Terminal diagram

bar

## =+MBC1-X44

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | W | ' | -QF44 | 2 | | | +MBC1&EFS/9.6 |
| | | | | N | ' | -QF44 | 4 | | | +MBC1&EFS/9.6 |
| | | | | PE | | | | | | +MBC1&EFS/9.6 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X44
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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sheet 24
sheets 34

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NO MARK UP

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# Terminal diagram

bar

## =+MBC1-X45

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | W | ' | -QF45 | 2 | | | +MBC1&EFS/9.7 |
| | | | | N | ' | -QF45 | 4 | | | +MBC1&EFS/9.8 |
| | | | | PE | | | | | | +MBC1&EFS/9.8 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X45
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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sheet 25
sheets 34

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# Terminal diagram

NO MARK UP
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bar
## =+MBC1-X46

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable type | Cable name | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF46 | 2 | | | +MBC1&EFS/10.2 |
| | | | | N | ' | -QF46 | 4 | | | +MBC1&EFS/10.2 |
| | | -PE | | PE | | | | | | +MBC1&EFS/10.2 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X46
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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sheets 34

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# Terminal diagram

bar

## =+MBC1-X47

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF47 | 2 | | | +MBC1&EFS/10.3 |
| | | | | N | ' | -QF47 | 4 | | | +MBC1&EFS/10.3 |
| | | | | PE | | | | | | +MBC1&EFS/10.4 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X47
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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# Terminal diagram

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bar
## =+MBC1-X48

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF48 | 2 | | | +MBC1&EFS/10.4 |
| | | | | N | ' | -QF48 | 4 | | | +MBC1&EFS/10.5 |
| | | | | PE | | | | | | +MBC1&EFS/10.5 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X48
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

A3 | sheet 28 | sheets 34

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# Terminal diagram

bar
## =+MBC1-X49

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF49 | 2 | | | +MBC1&EFS/10.6 |
| | | | | N | ' | -QF49 | 4 | | | +MBC1&EFS/10.6 |
| | | | | PE | | | | | | +MBC1&EFS/10.6 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

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Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

A3

sheet 29
sheets 34

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# Terminal diagram

bar

## =+MBC1-X50

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 1 2 3 | Destination mark Internal | Connection | Cable type | Cable name | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | ' | -QF50 | 2 | | | +MBC1&EFS/10.7 |
| | | | | N | ' | -QF50 | 4 | | | +MBC1&EFS/10.8 |
| | | | | PE | | | | | | +MBC1&EFS/10.8 |

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Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X50
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

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& EMA

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sheets 34

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# Terminal diagram

bar
## =+MBC1-X51

| Cable name | Cable type | Destination mark External | Connection | Terminal | Bridge 123 | Destination mark Internal | Connection | Cable name | Cable type | Position / Page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | V | ' | -QF51 | 2 | | | +MBC1&EFS/11.2 |
| | | | | N | ' | -QF51 | 4 | | | +MBC1&EFS/11.2 |
| | | -PE | | PE | | | | | | +MBC1&EFS/11.2 |

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Terminal diagram =+MBC1-X51
Bypass transformer cabinet
with manual bypass 40 kVA
Terminal diagram

1000007888_010 en

=
+ MBC1
& EMA

A3

sheet 31
sheets 34

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Three-phase input
Attention! Observe sequence of wires, L1, L2, L3 -->
See technical data sheet for required mains fuses

Power section rectifier

Note: Reinforced insulated wire
0,75 mm² unmarked wires

mains transformer -L61 N=2

Measurement REC Interface -A9-A50-X2
Supply REC Interface -A9-A50-X3

01L1 / 12.6
01L2 / 12.6
01L3 / 12.6
02L1 / 11.1
02L2 / 11.1
02L3 / 11.1

-L22 -T40 -L85.1

1L1 / 2.1
1L2 / 2.1
1L3 / 2.1
2L1 / 3.1
2L2 / 3.1
2L3 / 3.1

-L85.2

-C101.1 -C101.2 -C101.3
-Q3 /12.3
-Q1 L=100/85A I=1,0kA Icu=50kA
C1 C2 /12.4
-L23 -L24 -L25
-C23 -C24 -C25 -R23 -R24 -R25
3xR6 mm²

-A80 -A81
Suppression 81 82 83
-R86 -R87 -R88
-R81 -R82 -R83
-V81.1-V81.6
-R84.1 -R84.2
90 89
-C84 -C85

-E1
-X1 U V W
-A2 -A1
EMI capacitor 4-pole 8000022634 STR
-C4 -C5 -C1 -C6 -C2 -C7 -C3 -C8 -C9 -C10
-X1 -X2 -X3
-L92

Mains
400V;3/PE~50HZ

+MBC1
Bypass transformer cabinet
with manual bypass 40 kVA
1000007888.020
10009757

GZ1_1 +MBC1/1.3
GZ1_2 +MBC1/1.3
GZ1_3 +MBC1/1.3

-PE PE busbar Cu 40x5 mm
Rack
Rack GNYE 6 mm² Tür links
Rack GNYE 6 mm² Pivot plate

NO MA
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26/3/

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ROSETTI MARINO
Hollandse Kust Noord (HKN) wind farm

AEG POWER SOLUTIONS

Rectifier input
Protect 8.33 40-400-210-400

Circuit diagram

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=
+ UPS1
& EFS

A3

sheet 1
sheets 23

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