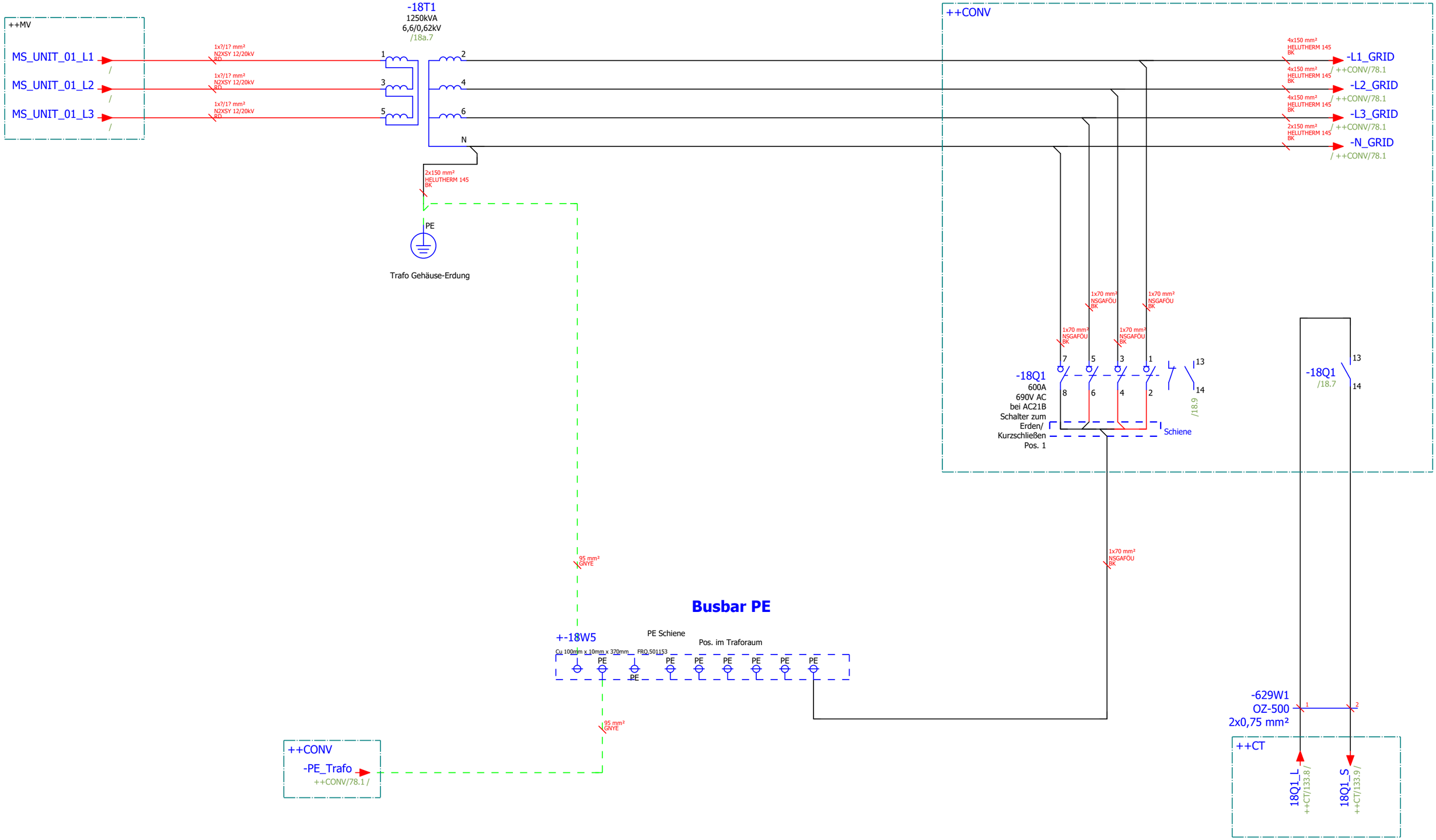


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&ELU++/5a

next page:
18a

Editor	Freqcon_DG			Statron	FREQCON	MV-TRANSFORMER UNIT_01+02	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EFS Circuit diagram
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ TRA medium voltage transformer page: 18
Date								+ total: 498

Grid Busbars L1, L2, L3

++TRA

-L1_GRID ++TRA/18.9 /
-L2_GRID ++TRA/18.9 /
-L3_GRID ++TRA/18.9 /

+AC_DC-78W1 GRID L1 Pos. 1/ Links
Cu 100mm x 10mm x 370mm FRQ.52163 &EFA++/1a.0
+AC_DC-78W2 GRID L2 Pos. 1/ Mitte
Cu 100mm x 10mm x 370mm FRQ.52163
+AC_DC-78W3 GRID L3 Pos. 1/ Rechts
Cu 100mm x 10mm x 370mm FRQ.52163

4x50 mm² NSGAFöu BK → -L1CON1 / 80.0
4x50 mm² NSGAFöu BK → -L2CON1 / 80.0
4x50 mm² NSGAFöu BK → -L3CON1 / 80.0

25 mm² NSGAFöu BK

+AC_DC -78F1 690Vac 100A gL/gG NH00 /78.8
1 3 5 13 21 / 2 4 6 14 22

-1F2 / ++CT/127.4
F3 / 238b.9

-238W7 OZ-500 2x0,75 mm² /238a.2
0,75 mm² BU
+AC_DC -X3.43 20 19
-78W7 OZ-500 2x0,75 mm²
+AC_DC -78F1 /78.6 13 14

+AC_DC -78F2 Typ 1 + Typ 2 400/690 V~ L1 L2 L3 PE PE
+AC_DC -78F3 20A, aR 1 3 5 / 2 4 6
-78W6 OZ-600 3x2,5 mm² 0,6kV/1kV 1 2 3

-CHA_L1 ++CT/85.1 /
-CHA_L2 ++CT/85.1 /
-CHA_L3 ++CT/85.1 /

35 mm² GNYE

Busbars N

-N_GRID ++TRA/18.9 /

+AC_DC-78W4 GRID N &EFA++/1a.1 Pos. unten Links
Cu 50mm x 10mm x 370mm FRQ.50622
2x50 mm² NSGAFöu BK → GRID_N / 99.5

16 mm² NSGA Föu BK
-AC_F_N.1 83.3 /
-AC_F_N.2 83.3 /
-AC_F_N.3 83.3 /

Busbars PE

Einspeisung_IEC_Seite 78
Einbauort_Sicherung in Connection cabinet

+AC_DC-78W5 GRID PE &EFA++/1a.1 Pos. unten rechts
Cu 100mm x 10mm x 370mm FRQ.50070

-PE_Trafo ++TRA/18.2 /

PE PE PE PE PE PE PE PE PE PE PE PE PE PE

95 mm² GNYE
35 mm² GNYE

PE_2_1 238a.1 /
PE_2_2 238a.4 /
PE_2_3 238a.8 /
PE_3_1 228.1 /
PE_3_2 228.4 /
PE_3_3 228.8 /
PE_4_1 238b.1 /
PE_4_2 238b.4 /
PE_4_3 238b.8 /

=UNIT_02 PE_BAT_CONV_1 =UNIT_02++Container/278.5 /
=UNIT_03 PE_BAT_CONV_2 =UNIT_03++Container/278.5 /

PE Container
PE Cabinet base frame front side
PE Cabinet base frame back side

400V TYP 1

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Editor	Freqcon_JD			Statron	FREQCON	GRID CONNECTION	20241105_V1.2	= UNIT_01	Converter Container 1
Date	18.06.2024							& EFS	Circuit diagram
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CONV	Converter
Date								+	

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