Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
-207L1.1				0	0	2	=UNIT_01&EMZ++CONV+IND/2000
-207L1.2				0	0	2	=UNIT_01&EMZ++CONV+IND/2001
-207L1.3				0	0	2	=UNIT_01&EMZ++CONV+IND/2002
-211L1.1				0	0	2	=UNIT_01&EMZ++CONV+IND/2003
-211L1.2				0	0	2	=UNIT_01&EMZ++CONV+IND/2004
-211L1.3				0	0	2	=UNIT_01&EMZ++CONV+IND/2005
-217L1.1				0	0	2	=UNIT_01&EMZ++CONV+IND/2006
-217L1.2				0	0	2	=UNIT_01&EMZ++CONV+IND/2007
-217L1.3				0	0	2	=UNIT_01&EMZ++CONV+IND/2008

previous page:
&EMB++EXTERN+/1

next page:
2000

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CONV+IND-207L1.1

Cable name: -146W3
Cable type: F-CY-OZ (LiY-CY)

Function text				Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Page / column
INDUCTOR DC SUB 3_1 TEMPERATURE 3_1			1	++CT+CTRL_1.3-X5	13		•	-207L1.1	x2		&EFS++CT+/146.5
=			2	++CT+CTRL_1.3-X5	14		•	-207L1.1	x1		&EFS++CT+/146.5

Terminal diagram

Freqcon_F13_001_02

Strip
=UNIT_01++CONV+IND-207L1.2

Function text			-146W4 / F-CY-OZ (LiY-CY)	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type												Page / column
INDUCTOR DC SUB 3_2 TEMPERATURE 3_2			1		++CT+CTRL_1.3-X5	15		•	-207L1.2	x2													&EFS++CT+/146.7
=			2		++CT+CTRL_1.3-X5	16		•	-207L1.2	x1													&EFS++CT+/146.7

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CONV+IND-207L1.2	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CONV Converter / page: 2001
Date								+ IND Inductor cabinet / total: 498

Terminal diagram

Freqcon_F13_001_02

Function text			-147W1 / F-CY-OZ (LiY-CY)	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
					Strip =UNIT_01++CONV+IND-207L1.3							
INDUCTOR DC SUB 3_3 TEMPERATURE 3_3			1		++CT+CTRL_1.3-X5	17		•	-207L1.3	x2		&EFS++CT+/147.1
=			2		++CT+CTRL_1.3-X5	18		•	-207L1.3	x1		&EFS++CT+/147.1

Editor	Freqcon_DG	Statron	
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore	
Proved by			
Date			

FREQCON

Klemmenplan =UNIT_01++CONV+IND-207L1.3

20241105_V1.2

10354_23A2007

=	UNIT_01	Converter Container 1		
&	EMZ	Terminals		
++	CONV	Converter	page:	2002
+	IND	Inductor cabinet	total:	498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CONV+IND-211L1.1

Cable name: -145W4
Cable type: F-CY-OZ (LiY-CY)

Function text				Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
INDUCTOR DC SUB 2_1 TEMPERATURE 2_1			1		++CT+CTRL_1.3-X5	7		•	-211L1.1	x2		&EFS++CT+/145.7
=			2		++CT+CTRL_1.3-X5	8		•	-211L1.1	x1		&EFS++CT+/145.7

Editor	Freqcon_DG	Statron	Klemmenplan =UNIT_01++CONV+IND-211L1.1	20241105_V1.2	= UNIT_01	Converter Container 1
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore			& EMZ	Terminals
Proved by				10354_23A2007	++ CONV	Converter	page: 2003
Date					+ IND	Inductor cabinet	total: 498

Terminal diagram

Freqcon_F13_001_02

Function text			-146W1 / F-CY-OZ (LiY-CY)	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
					Strip =UNIT_01++CONV+IND-211L1.2							
INDUCTOR DC SUB 2_2 TEMPERATURE 2_2			1		++CT+CTRL_1.3-X5	9		•	-211L1.2	x2		&EFS++CT+/146.1
=			2		++CT+CTRL_1.3-X5	10		•	-211L1.2	x1		&EFS++CT+/146.1

Editor	Freqcon_DG	Statron	Klemmenplan =UNIT_01++CONV+IND-211L1.2
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore	20241105_V1.2
Proved by			10354_23A2007
Date			

FREQCON

=	UNIT_01	Converter Container 1	
&	EMZ	Terminals	
++	CONV	Converter	page: 2004
+	IND	Inductor cabinet	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CONV+IND-211L1.3

Cable name: -146W2
Cable type: F-CY-OZ (LiY-CY)

Function text				Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Page / column
INDUCTOR DC SUB 2_3 TEMPERATURE 2_3			1	++CT+CTRL_1.3-X5	11		•	-211L1.3	x2	&EFS++CT+/146.3
=			2	++CT+CTRL_1.3-X5	12		•	-211L1.3	x1	&EFS++CT+/146.3

Editor	Freqcon_DG		
Date	05.11.2024		
Proved by			
Date			

Statatron

Shell Crosswind BESS FQ 1MW 5MWh Offshore

Klemmenplan =UNIT_01++CONV+IND-211L1.3

20241105_V1.2

10354_23A2007

=	UNIT_01	Converter Container 1
&	EMZ	Terminals
++	CONV	Converter
+	IND	Inductor cabinet

page: 2005
total: 498

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CONV+IND-217L1.1

Cable name: -147W2
Cable type: F-CY-OZ (LiY-CY)

Function text				Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Page / column
INDUCTOR DC SUB 4_1 TEMPERATURE 4_1			1	++CT+CTRL_1.3-X5	19		•	-217L1.1	x2		&EFS++CT+/147.3
=			2	++CT+CTRL_1.3-X5	20		•	-217L1.1	x1		&EFS++CT+/147.3

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CONV+IND-217L1.2

Cable name: -148W1
Cable type: F-CY-OZ (LiY-CY)

Function text				Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Page / column
INDUCTOR DC SUB 4_2 TEMPERATURE 4_2			1		++CT+CTRL_1.3-X5	25		•	-217L1.2	x2		&EFS++CT+/148.3
=			2		++CT+CTRL_1.3-X5	26		•	-217L1.2	x1		&EFS++CT+/148.3

Editor	Freqcon_DG	Statron	Klemmenplan =UNIT_01++CONV+IND-217L1.2	20241105_V1.2	= UNIT_01 Converter Container 1	
Date	05.11.2024				& EMZ Terminals	
Proved by		Shell Crosswind BESS FQ 1MW 5MWh Offshore		10354_23A2007	++ CONV Converter	page: 2007
Date					+ IND Inductor cabinet	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CONV+IND-217L1.3

Cable name: -148W2
Cable type: F-CY-OZ (LiY-CY)

Function text				Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
INDUCTOR DC SUB 4_3 TEMPERATURE 4_3			1		++CT+CTRL_1.3-X5	29		▪	-217L1.3	x2		&EFS++CT+/148.7
=			2		++CT+CTRL_1.3-X5	30		▪	-217L1.3	x1		&EFS++CT+/148.7

Editor	Freqcon_DG	Statron	Klemmenplan =UNIT_01++CONV+IND-217L1.3
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore	20241105_V1.2
Proved by		FREQCON	10354_23A2007
Date			

=	UNIT_01	Converter Container 1	
&	EMZ	Terminals	
++	CONV	Converter	page: 2008
+	IND	Inductor cabinet	total: 498

Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
-227U1-X3.1	DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen	1	PE	1	0	18	=UNIT_01&EMZ++CONV+CIR/2000
-227U1-X3.2	=	1	PE	2	0	52	=UNIT_01&EMZ++CONV+CIR/2001
-231U1-X3.1	=	1	PE	1	0	18	=UNIT_01&EMZ++CONV+CIR/2003
-231U1-X3.2	=	1	PE	2	0	52	=UNIT_01&EMZ++CONV+CIR/2004
-237U1-X3.1	=	1	PE	1	0	18	=UNIT_01&EMZ++CONV+CIR/2006
-237U1-X3.2	=	1	PE	2	0	52	=UNIT_01&EMZ++CONV+CIR/2007

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next page: 2000

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CONV+CIR-227U1-X3.1

DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen

Function text			-227W4	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	-227U1-W5	Page / column
			0Z-500	Cable type							Cable type	1Z-500	
			1		++CT+CTRL_1.4-350X1.21	1	1	,	-227U1-X3.2	1		1	&EFS+/227.a.1
			2		++CT+CTRL_1.4-350X1.21	4	2	,	-227U1-X3.2	3		2	&EFS+/227.a.2
			3		++CT+CTRL_1.4-350X1.21	7	3	,	-227U1-X3.2	5		3	&EFS+/227.a.2
			4		++CT+CTRL_1.4-350X1.21	3	4	,	-227U1-X3.2	7		4	&EFS+/227.a.3
			5		++CT+CTRL_1.4-350X1.21	6	5	,	-227U1-X3.2	9		5	&EFS+/227.a.4
			6		++CT+CTRL_1.4-350X1.21	9	6	,	-227U1-X3.2	11		6	&EFS+/227.a.5
			7		++CT+CTRL_1.4-307K1	A1	7	,	-227U1-X3.2	13		7	&EFS+/227.a.5
			8		++CT+CTRL_1.4-307K3	A1	8	,	-227U1-X3.2	15		8	&EFS+/227.a.6
			9		++CT+CTRL_1.4-307K5	A1	9	,	-227U1-X3.2	17		9	&EFS+/227.a.6
			10		++CT+CTRL_1.4-307K2	A1	10	,	-227U1-X3.2	19		10	&EFS+/227.a.6
			11		++CT+CTRL_1.4-307K4	A1	11	,	-227U1-X3.2	21		11	&EFS+/227.a.7
			12		++CT+CTRL_1.4-307K6	A1	12	,	-227U1-X3.2	23		12	&EFS+/227.a.7
			13		++CT+CTRL_1.3-X3.11	11	13	,	-227U1-F1	2			&EFS+/227.a.7
			14		++CT+CTRL_1.3-X3.12	9	14	,	-227U1-F5	2			&EFS+/227.a.8
			15		++CT+CTRL_1.3-X3.12	11	15	,	-227U1-F9	2			&EFS+/227.a.8
			16		++CT+CTRL_1.3-X3.12	10	16	,	-227U1-F2	1			&EFS+/227.a.9
									-227U1-X3.2	24		13	
			17		++CT+CTRL_1.4-350X1.21	2	17	,	-227U1-X3.2	12		14	&EFS+/227.a.9
							PE	,	-227U1-X3.2	PE		GNYE	&EFS+/227.a.9

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Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CONV+CIR-227U1-X3.1	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CONV Converter — page: 2000
Date								+ CIR Circuit Breaker cabinet — total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CONV+CIR-227U1-X3.2

DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen

Function text				Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	-227U1-W5										Page / column
				Cable type							Cable type	JZ-500										
							1		-227U1-X3.1	1		1										&EFS+/227.a.1
							2															&EFS+/227.a.1
							3		-227U1-X3.1	2		2										&EFS+/227.a.2
							4															&EFS+/227.a.2
							5		-227U1-X3.1	3		3										&EFS+/227.a.2
							6															&EFS+/227.a.2
							7		-227U1-X3.1	4		4										&EFS+/227.a.3
							8															&EFS+/227.a.3
							9		-227U1-X3.1	5		5										&EFS+/227.a.4
							10															&EFS+/227.a.4
							11		-227U1-X3.1	6		6										&EFS+/227.a.5
							12		-227U1-X3.1	17		14										&EFS+/227.a.5
							13		-227U1-X3.1	7		7										&EFS+/227.a.5
							14															&EFS+/227.a.5
							15		-227U1-X3.1	8		8										&EFS+/227.a.6
							16															&EFS+/227.a.6
							17		-227U1-X3.1	9		9										&EFS+/227.a.6

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next page: 2002

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CONV+CIR-227U1-X3.2	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMZ	Terminals	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore				++ CONV	Converter	page: 2001
Date							10354_23A2007	+ CIR	Circuit Breaker cabinet	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip
=UNIT_01++CONV+CIR-227U1-X3.2
DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen

Cable name: -227U1-W5
Cable type: JZ-500

Function text	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	-227U1-W5 (JZ-500)	Page / column
			18					&EFS+/227.a.6
			19		-227U1-X3.1	10	10	&EFS+/227.a.6
			20					&EFS+/227.a.6
			21		-227U1-X3.1	11	11	&EFS+/227.a.7
			22					&EFS+/227.a.7
			23		-227U1-X3.1	12	12	&EFS+/227.a.7
			24		-227U1-X3.1	16	13	&EFS+/227.a.7
			PE					&EFS+/227.a.5
			PE		-227U1-X3.1	PE	GNYE	&EFS+/227.a.5

Editor: Freqcon_DG
Date: 05.11.2024
Proved by:
Date:
Statron
Shell Crosswind BESS FQ 1MW 5MWh Offshore
FREQCON
Klemmenplan
=UNIT_01++CONV+CIR-227U1-X3.2
20241105_V1.2
10354_23A2007
= UNIT_01 Converter Container 1
& EMZ Terminals
++ CONV Converter
+ CIR Circuit Breaker cabinet
page: 2002
total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CONV+CIR-231U1-X3.1

DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen

Function text			-231W4	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	-231U1-W5	Page / column
			0Z-500	Cable type							Cable type	JZ-500	
			1		++CT+CTRL_1.3-150X1	1	1	,	-231U1-X3.2	1		1	&EFS+/231.a.1
			2		++CT+CTRL_1.3-150X1	4	2	,	-231U1-X3.2	3		2	&EFS+/231.a.2
			3		++CT+CTRL_1.3-150X1	7	3	,	-231U1-X3.2	5		3	&EFS+/231.a.2
			4		++CT+CTRL_1.3-150X1	3	4	,	-231U1-X3.2	7		4	&EFS+/231.a.3
			5		++CT+CTRL_1.3-150X1	6	5	,	-231U1-X3.2	9		5	&EFS+/231.a.4
			6		++CT+CTRL_1.3-150X1	9	6	,	-231U1-X3.2	11		6	&EFS+/231.a.5
			7		++CT+CTRL_1.4-306K1	A1	7	,	-231U1-X3.2	13		7	&EFS+/231.a.5
			8		++CT+CTRL_1.4-306K3	A1	8	,	-231U1-X3.2	15		8	&EFS+/231.a.6
			9		++CT+CTRL_1.4-306K5	A1	9	,	-231U1-X3.2	17		9	&EFS+/231.a.6
			10		++CT+CTRL_1.4-306K2	A1	10	,	-231U1-X3.2	19		10	&EFS+/231.a.6
			11		++CT+CTRL_1.4-306K4	A1	11	,	-231U1-X3.2	21		11	&EFS+/231.a.7
			12		++CT+CTRL_1.4-306K6	A1	12	,	-231U1-X3.2	23		12	&EFS+/231.a.7
			13		++CT+CTRL_1.3-X3.10	9	13	,	-231U1-F1	2			&EFS+/231.a.7
			14		++CT+CTRL_1.3-X3.10	11	14	,	-231U1-F5	2			&EFS+/231.a.8
			15		++CT+CTRL_1.3-X3.11	9	15	,	-231U1-F9	2			&EFS+/231.a.8
			16		++CT+CTRL_1.3-X3.10	10	16	,	-231U1-F2	1			&EFS+/231.a.9
									-231U1-X3.2	24		13	
			17		++CT+CTRL_1.3-150X1	2	17	,	-231U1-X3.2	12		14	&EFS+/231.a.9
							PE	,	-231U1-X3.2	PE		GNYE	&EFS+/231.a.9

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Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CONV+CIR-231U1-X3.2

DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Cable type	Page / column
										-231U1-W5	JZ-500	
					1		-231U1-X3.1	1		1		&EFS+/231.a.1
					2							&EFS+/231.a.1
					3		-231U1-X3.1	2		2		&EFS+/231.a.2
					4							&EFS+/231.a.2
					5		-231U1-X3.1	3		3		&EFS+/231.a.2
					6							&EFS+/231.a.2
					7		-231U1-X3.1	4		4		&EFS+/231.a.3
					8							&EFS+/231.a.3
					9		-231U1-X3.1	5		5		&EFS+/231.a.4
					10							&EFS+/231.a.4
					11		-231U1-X3.1	6		6		&EFS+/231.a.5
					12		-231U1-X3.1	17		14		&EFS+/231.a.5
					13		-231U1-X3.1	7		7		&EFS+/231.a.5
					14							&EFS+/231.a.5
					15		-231U1-X3.1	8		8		&EFS+/231.a.6
					16							&EFS+/231.a.6
					17		-231U1-X3.1	9		9		&EFS+/231.a.6

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Terminal diagram

Freqcon_F13_001_02

Strip
=UNIT_01++CONV+CIR-231U1-X3.2
DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen

Function text	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name: -231U1-W5 / Cable type: JZ-500	Page / column
			18					&EFS+/231.a.6
			19		-231U1-X3.1	10	10	&EFS+/231.a.6
			20					&EFS+/231.a.6
			21		-231U1-X3.1	11	11	&EFS+/231.a.7
			22					&EFS+/231.a.7
			23		-231U1-X3.1	12	12	&EFS+/231.a.7
			24		-231U1-X3.1	16	13	&EFS+/231.a.7
			PE					&EFS+/231.a.5
			PE		-231U1-X3.1	PE	GNYE	&EFS+/231.a.5

Terminal diagram

Freqcon_F13_001_02

Function text			-237W4	Cable name	Strip =UNIT_01++CONV+CIR-237U1-X3.1 DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen						Cable name	-237U1-W5										Page / column
			0Z-500	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	JZ-500										
			1		++CT+CTRL_1.4-350X1.21	11	1	,	-237U1-X3.2	1		1										&EFS+/237.a.1
			2		++CT+CTRL_1.4-350X1.21	14	2	,	-237U1-X3.2	3		2										&EFS+/237.a.2
			3		++CT+CTRL_1.4-350X1.21	17	3	,	-237U1-X3.2	5		3										&EFS+/237.a.2
			4		++CT+CTRL_1.4-350X1.21	13	4	,	-237U1-X3.2	7		4										&EFS+/237.a.3
			5		++CT+CTRL_1.4-350X1.21	16	5	,	-237U1-X3.2	9		5										&EFS+/237.a.4
			6		++CT+CTRL_1.4-350X1.21	19	6	,	-237U1-X3.2	11		6										&EFS+/237.a.5
			7		++CT+CTRL_1.4-308K1	A1	7	,	-237U1-X3.2	13		7										&EFS+/237.a.5
			8		++CT+CTRL_1.4-308K3	A1	8	,	-237U1-X3.2	15		8										&EFS+/237.a.6
			9		++CT+CTRL_1.4-308K5	A1	9	,	-237U1-X3.2	17		9										&EFS+/237.a.6
			10		++CT+CTRL_1.4-308K2	A1	10	,	-237U1-X3.2	19		10										&EFS+/237.a.6
			11		++CT+CTRL_1.4-308K4	A1	11	,	-237U1-X3.2	21		11										&EFS+/237.a.7
			12		++CT+CTRL_1.4-308K6	A1	12	,	-237U1-X3.2	23		12										&EFS+/237.a.7
			13		++CT+CTRL_1.3-X3.13	8	13	,	-237U1-F1	2												&EFS+/237.a.7
			14		++CT+CTRL_1.3-X3.13	9	14	,	-237U1-F5	2												&EFS+/237.a.8
			15		++CT+CTRL_1.3-X3.13	11	15	,	-237U1-F9	2												&EFS+/237.a.8
			16		++CT+CTRL_1.3-X3.13	10	16	,	-237U1-F2	1												&EFS+/237.a.9
									-237U1-X3.2	24		13										
			17		++CT+CTRL_1.4-350X1.21	12	17	,	-237U1-X3.2	12		14										&EFS+/237.a.9
							PE	,	-237U1-X3.2	PE		GNYE										&EFS+/237.a.9

previous page:
2005

next page:
2007

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CONV+CIR-237U1-X3.1	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMZ	Terminals	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CONV	Converter	page: 2006
Date								+ CIR	Circuit Breaker cabinet	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CONV+CIR-237U1-X3.2

DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen

Function text				Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	-237U1-W5										Page / column
				Cable type							Cable type	JZ-500										
							1		-237U1-X3.1	1		1										&EFS+/237.a.1
							2															&EFS+/237.a.1
							3		-237U1-X3.1	2		2										&EFS+/237.a.2
							4															&EFS+/237.a.2
							5		-237U1-X3.1	3		3										&EFS+/237.a.2
							6															&EFS+/237.a.2
							7		-237U1-X3.1	4		4										&EFS+/237.a.3
							8															&EFS+/237.a.3
							9		-237U1-X3.1	5		5										&EFS+/237.a.4
							10															&EFS+/237.a.4
							11		-237U1-X3.1	6		6										&EFS+/237.a.5
							12		-237U1-X3.1	17		14										&EFS+/237.a.5
							13		-237U1-X3.1	7		7										&EFS+/237.a.5
							14															&EFS+/237.a.5
							15		-237U1-X3.1	8		8										&EFS+/237.a.6
							16															&EFS+/237.a.6
							17		-237U1-X3.1	9		9										&EFS+/237.a.6

previous page: 2006

next page: 2008

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CONV+CIR-237U1-X3.2

DC Schalter + Sicherungen-Ansteuerungen und Rückmeldungen

Cable name: -237U1-W5
Cable type: JZ-500

Function text	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	-237U1-W5 / JZ-500	Page / column
			18					&EFS+/237.a.6
			19		-237U1-X3.1	10	10	&EFS+/237.a.6
			20					&EFS+/237.a.6
			21		-237U1-X3.1	11	11	&EFS+/237.a.7
			22					&EFS+/237.a.7
			23		-237U1-X3.1	12	12	&EFS+/237.a.7
			24		-237U1-X3.1	16	13	&EFS+/237.a.7
			PE					&EFS+/237.a.5
			PE		-237U1-X3.1	PE	GNYE	&EFS+/237.a.5

Editor	Freqcon_DG	Statron	
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore	
Proved by			
Date			

FREQCON

Klemmenplan
=UNIT_01++CONV+CIR-237U1-X3.2

20241105_V1.2

10354_23A2007

=	UNIT_01	Converter Container 1	
&	EMZ	Terminals	
++	CONV	Converter	page: 2008
+	CIR	Circuit Breaker cabinet	total: 498

Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
-X3.43		1	20	0	0	60	=UNIT_01&EMZ++CONV+AC_DC/2000

previous page:
+CIR/2008

next page:
2000

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CONV+AC_DC-X3.43

Function text	-238W3 (OZ-500)	-238W2 (OZ-500)	-238W1 (OZ-500)	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	-238W7 (OZ-500)	Page / column
SURGE ARRESTER DC SUBSYSTEM 2_1			1		-238F1	11	1		++CT+CTRL_1.3-X3	5		1	&EFS+/238a.2
SURGE ARRESTER DC SUBSYSTEM 2_1			2		-238F1	12	2		-X3.43	3			&EFS+/238a.2
SURGE ARRESTER DC SUBSYSTEM 2_2		1			-238F2	11	3		-X3.43	2			&EFS+/238a.5
SURGE ARRESTER DC SUBSYSTEM 2_2		2			-238F2	12	4		-X3.43	5			&EFS+/238a.5
SURGE ARRESTER DC SUBSYSTEM 2_3	1				-238F3	11	5		-X3.43	4			&EFS+/238a.9
SURGE ARRESTER DC SUBSYSTEM 2_3	2				-238F3	12	6		-X3.43	7			&EFS+/238a.9

Editor	Freqcon_DG	Statron	Klemmenplan =UNIT_01++CONV+AC_DC-X3.43
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore	20241105_V1.2
Proved by			10354_23A2007
Date			

=	UNIT_01	Converter Container 1		
&	EMZ	Terminals		
++	CONV	Converter	page:	2000
+	AC_DC	AC and DC connection cabinet	total:	498

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CONV+AC_DC-X3.43

Function text	-228W3 OZ-500	-228W2 OZ-500	-228W1 OZ-500	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
SURGE ARRESTER DC SUBSYSTEM 3_1			1		-228F1	11	7		-X3.43	6		&EFS+/228.2
SURGE ARRESTER DC SUBSYSTEM 3_1			2		-228F1	12	8		-X3.43	9		&EFS+/228.2
SURGE ARRESTER DC SUBSYSTEM 3_2		1			-228F2	11	9		-X3.43	8		&EFS+/228.5
SURGE ARRESTER DC SUBSYSTEM 3_2		2			-228F2	12	10		-X3.43	11		&EFS+/228.5
SURGE ARRESTER DC SUBSYSTEM 3_3	1				-228F3	11	11		-X3.43	10		&EFS+/228.9
SURGE ARRESTER DC SUBSYSTEM 3_3	2				-228F3	12	12		-X3.43	13		&EFS+/228.9

Editor	Freqcon_DG	Statron	FREQCON	Klemmenplan =UNIT_01++CONV+AC_DC-X3.43	20241105_V1.2	= UNIT_01 Converter Container 1	
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore				& EMZ Terminals	
Proved by					10354_23A2007	++ CONV Converter	page: 2001
Date						+ AC_DC AC and DC connection cabinet	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CONV+AC_DC-X3.43

Function text	-238W6 OZ-500	-238W5 OZ-500	-238W4 OZ-500	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
SURGE ARRESTER DC SUBSYSTEM 4_1			1		-238F4	11	13		-X3.43	12		&EFS+/238b.2
SURGE ARRESTER DC SUBSYSTEM 4_1			2		-238F4	12	14		-X3.43	15		&EFS+/238b.2
SURGE ARRESTER DC SUBSYSTEM 4_2		1			-238F5	11	15		-X3.43	14		&EFS+/238b.5
SURGE ARRESTER DC SUBSYSTEM 4_2		2			-238F5	12	16		-X3.43	17		&EFS+/238b.5
SURGE ARRESTER DC SUBSYSTEM 4_3	1				-238F6	11	17		-X3.43	16		&EFS+/238b.9
SURGE ARRESTER DC SUBSYSTEM 4_3	2				-238F6	12	18		-X3.43	19		&EFS+/238b.9

Editor	Freqcon_DG	Statron	Klemmenplan =UNIT_01++CONV+AC_DC-X3.43	20241105_V1.2
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore		10354_23A2007
Proved by				
Date				

FREQCON

=	UNIT_01	Converter Container 1	
&	EMZ	Terminals	
++	CONV	Converter	page: 2002
+	AC_DC	AC and DC connection cabinet	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip
=UNIT_01++CONV+AC_DC-X3.43

Function text			-78W7 / OZ-500	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	-238W7 / OZ-500											Page / column
			2		-78F1	14	19		-X3.43	18													&EFS+/78.8
			1		-78F1	13	20		++CT+CTRL_1.3-X3	6		2											&EFS+/78.8

Editor	Freqcon_DG			Statron	Klemmenplan =UNIT_01++CONV+AC_DC-X3.43	20241105_V1.2
Date	05.11.2024			Shell Crosswind BESS FQ 1MW 5MWh Offshore		10354_23A2007
Proved by						
Date						

=	UNIT_01	Converter Container 1	
&	EMZ	Terminals	
++	CONV	Converter	page: 2003
+	AC_DC	AC and DC connection cabinet	total: 498

Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
-XT1		1	20	0	0	40	=UNIT_01&EMZ++CT/2000

previous page:
++CONV+AC_DC/2003

next page:
2000

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+-XT1

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
Gas confirmed FGS					1	,	+CTRL_1.3-138K1	14			&EFS/136.0
						,					
Gas confirmed FGS					2	,	+CTRL_1.3-138K1	11			&EFS/136.0
						,					
Smoke confirmed FGS					3	,	+CTRL_1.3-138K2	14			&EFS/136.1
						,					
Smoke confirmed FGS					4	,	+CTRL_1.3-138K2	11			&EFS/136.1
						,					
PLC fault status SIS					5	,	+CTRL_1.3-138K3	14			&EFS/136.2
						,					
PLC fault status SIS					6	,	+CTRL_1.3-138K3	11			&EFS/136.2
						,					
PLC fault status SIS					7	,	+CTRL_1.3-138K4	14			&EFS/136.2
						,					
Spare					8	,	+CTRL_1.3-138K4	11			&EFS/136.3
						,					
Spare					9	,	+CTRL_1.3-138K5	14			&EFS/136.3
						,					
Spare					10	,	+CTRL_1.3-138K5	11			&EFS/136.3
						,					
Spare					11	,	+CTRL_1.3-138K6	14			&EFS/136.4
						,					
Spare					12	,	+CTRL_1.3-138K6	11			&EFS/136.4
						,					
phase in sync					13	,	+CTRL_1.3-138K7	14			&EFS/136.5
						,					
phase in sync					14	,	+CTRL_1.3-138K7	11			&EFS/136.5
						,					
phase in sync					15	,	+CTRL_1.3-136K7	A2			&EFS/136.5
						,					
Shut-down to BESS					16	,	+CTRL_1.3-136K7	A1			&EFS/136.6
						,					
incoming CB is open					17	,	+CTRL_1.3-136K8	A2			&EFS/136.7
						,					
incoming CB is open					18	,	+CTRL_1.3-136K8	A1			&EFS/136.7

previous page: 1000

next page: 2001

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CT+-XT1

Function text	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
					•				
incoming CB is open				19	•	+CTRL_1.3-136K9	A2		&EFS/136.8
					•				
incoming CB is open				20	•	+CTRL_1.3-136K9	A1		&EFS/136.8
					•				

Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
-X1	Hauptsteuerstromkreis 400V/230V AC	1	PE	8	1	34	=UNIT_01&EMZ++CT+CTRL_1.3/2000
-X3	CONTROL VOLTAGE 24V DC	1	46	0	0	85	=UNIT_01&EMZ++CT+CTRL_1.3/2001
-X3.10	Rückmeldung DC Schütze Subsystem 1_4	1	12	0	0	24	=UNIT_01&EMZ++CT+CTRL_1.3/2004
-X3.11	=	1	12	0	0	24	=UNIT_01&EMZ++CT+CTRL_1.3/2005
-X3.12	=	1	12	0	0	24	=UNIT_01&EMZ++CT+CTRL_1.3/2006
-X3.13	Rückmeldung DC Schütze Subsystem 1_6	1	12	0	0	24	=UNIT_01&EMZ++CT+CTRL_1.3/2007
-X5	Kleinspannungssignale	1	30	0	0	60	=UNIT_01&EMZ++CT+CTRL_1.3/2008
-X5.1	DC Subsystem Spannungsmessung	1	2	0	0	6	=UNIT_01&EMZ++CT+CTRL_1.3/2010
-150X1	Subsysteme DC Schütz EIN	1	10	0	0	20	=UNIT_01&EMZ++CT+CTRL_1.3/2011
-XDC1	Steuerspannung 24VDC (USV) DC1	1	PE	2	0	23	=UNIT_01&EMZ++CT+CTRL_1.3/2012
-XDC2	Steuerspannung 24VDC (USV) DC2	1	4	0	0	12	=UNIT_01&EMZ++CT+CTRL_1.3/2014
-XDC3	Steuerspannung 24VDC (USV) DC3	1	4	0	0	12	=UNIT_01&EMZ++CT+CTRL_1.3/2017
-XDC4	Steuerspannung 24VDC (USV) DC4	1	4	0	0	12	=UNIT_01&EMZ++CT+CTRL_1.3/2018
-XDC5.1	Steuerspannung 24VDC (USV) DC5.1	1	1	0	0	3	=UNIT_01&EMZ++CT+CTRL_1.3/2019
-XDC5.2	Steuerspannung 24VDC (USV) DC5.2	1	1	0	0	3	=UNIT_01&EMZ++CT+CTRL_1.3/2020
-XE	Hauptstromversorgung 400V AC	1	6	3	4	14	=UNIT_01&EMZ++CT+CTRL_1.3/2021
-XT	Transfer Klemmenblock 24VDC/230VAC	1	16	6	0	38	=UNIT_01&EMZ++CT+CTRL_1.3/2022
-190XT1	230VAC Beleuchtung/Klimaanlage Container/Schrank	1	PE	8	4	24	=UNIT_01&EMZ++CT+CTRL_1.3/2024
-191XT1		1	PE	2	2	10	=UNIT_01&EMZ++CT+CTRL_1.3/2025
-XV	Suppression TVS Diode	1	4	0	0	36	=UNIT_01&EMZ++CT+CTRL_1.3/2026

previous page: +/2001

next page: 2000

Editor	Freqcon_DG			Statron	FREQCON	Klemmenleistenübersicht : =UNIT_01++CT+CTRL_1.3-X1 - =UNIT_01++CT+CTRL_1.3-XV	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMZ	Terminals	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT	Control cabinets	page: 1000
Date								+ CTRL_1.3	Main mounting plate	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X1

Hauptsteuerstromkreis 400V/230V AC

Function text			-181W1	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	Page / column
			1Z-600	Cable type							Cable type	
PUMP			1		++FAN-52G1-181X1	1:1	1	,	-139K2	2		&EFS+/181.1
								,				
PUMP			2		++FAN-52G1-181X1	2:1	2	,	-139K2	4		&EFS+/181.1
								,				
PUMP			3		++FAN-52G1-181X1	3:1	3	,	-139K2	6		&EFS+/181.1
								,				
PUMP			GNYE		++FAN-52G1-181X1	PE:1	PE	,	+.2-110U1-PE			&EFS+/181.1
								,				
FUSE FOR PUMP			4		++FAN-52G1-181X1	4:1	4	,	-139K1	2		&EFS+/181.3
								,				
HEATER			5		++FAN-52G1-181X1	5:1	5	,	-139K1	4		&EFS+/181.4
								,				
HEATER			6		++FAN-52G1-181X1	6:1	6	,	-139K1	6		&EFS+/181.4
								,				
HEATER			7		++FAN-52G1-181X1	7:1	7	,	-XE	N:1		&EFS+/181.4
								,				
HEATER							PE	,				&EFS+/181.4
								,				
FAN 1 HEAT EXCHANGER			8		++FAN-52G1-181X1	8:1	8	,	-139K3	2		&EFS+/182.1
								,				
FAN 1 HEAT EXCHANGER			9		++FAN-52G1-181X1	9:1	9	,	-139K3	4		&EFS+/182.1
								,				
FAN 1 HEAT EXCHANGER			10		++FAN-52G1-181X1	10:1	10	,	-139K3	6		&EFS+/182.1
								,				
FAN 1 HEAT EXCHANGER							PE	,				&EFS+/182.1
								,				
FAN 2 HEAT EXCHANGER OPTIONAL							11	,				&EFS+/182.3
								,				
FAN 2 HEAT EXCHANGER OPTIONAL							12	,				&EFS+/182.4
								,				
FAN 2 HEAT EXCHANGER OPTIONAL							13	,				&EFS+/182.4
								,				
FAN 2 HEAT EXCHANGER OPTIONAL							PE	,				&EFS+/182.4
								,				

previous page: 1000

next page: 2001

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X3

CONTROL VOLTAGE 24V DC

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	++CONV-80W1	++CONV-238W7	Page / column
										OZ-500	OZ-500		
CB 1 Tripped GRID			-DI_02	5	1		++CONV+CIR-80Q1	X7_13		1			&EFS+/127.1
CB 1 OFF GRID			-DI_02	4	2		++CONV+CIR-80Q1	X6_9		2			&EFS+/127.3
CB 1 ON GRID			-DI_02	3	3		++CONV+CIR-80Q1	X6_11		3			&EFS+/127.2
FUSE AND LIGHTNING PROTECTION					4		+.4-189X1	5					&EFS+/127.4
=			-XDC4	2	5		++CONV+AC_DC-X3.43	1			1		&EFS+/127.5
FUSE AND LIGHTNING PROTECTION			-DI_02	6	6		++CONV+AC_DC-X3.43	20			2		&EFS+/127.4
=			-X3	13	7		-134K1	11					&EFS+/127.5
CB 2 Tripped ISLAND GRID			-DI_04	12	8								&EFS+/128.1
CB 2 OFF ISLAND GRID			-DI_04	14	9								&EFS+/128.3
CB 2 ON ISLAND GRID			-DI_04	13	10								&EFS+/128.2
FUSE AND LIGHTNING PROTECTION 2					11								&EFS+/128.4
FUSE AND LIGHTNING PROTECTION 2			-DI_04	15	12								&EFS+/128.4
=			-X3	7	13								&EFS+/128.5
SPARE			-DI_04	1	14		+.2-18B1	4					&EFS+/133.1
SPARE			-DI_04	2	15		+.2-18B1	1					&EFS+/133.2
SPARE			-DI_04	3	16		+.2-18B1	4					&EFS+/133.3
Fuse 230V AC for Container Air Conditioning			-DI_04	11	17		-190F3	14					&EFS+/133.6

previous page: 2000

next page: 2002

Terminal diagram

Freqcon_F13_001_02

Function text	++CONV-80W1 OZ-500	-181W3 F-CY-OZ (LIY-CY)	++CONV-260W1 OZ-500	Cable name Cable type	Strip =UNIT_01++CT+CTRL_1.3-X3 CONTROL VOLTAGE 24V DC Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name Cable type	++TRA-629W1 OZ-500	++CONV-260W1 OZ-500	-181W3 F-CY-OZ (LIY-CY)	Page / column
Earthing switch in On Transformer 620V side					-DI_04	5	18	,	++CONV-18Q1	14		2			&EFS+/133.9
Smoke detector CON					-DI_02	7	19	,	++CONV+CON-260B1	4			1		&EFS+/134.0
								,							
								,							
Smoke detector CON			2		++CONV+CON-260B1	2	20	,	-XV	9					&EFS+/134.0
=			3		++CONV+CON-260B1	5	21	,	-XDC4	4					&EFS+/134.1
								,							
								,							
Smoke detector CON			4		++CONV+CON-260B1	6	22	,	-134K1	11					&EFS+/134.1
PRESSURE SWITCH					-182Q1	13	23	,	++FAN-52G1-181X3	1				1	&EFS+/181.7
								,							
								,							
PRESSURE SWITCH		2			++FAN-52G1-181X3	3	24	,	-AI_04	3					&EFS+/181.7
=		3			++FAN-52G1-181X3	2	25	,	-XDC1	7					&EFS+/181.7
Fuse 230V AC for Container Air Conditioning					-XDC2	1	29	,	++CONV-18Q1	13		1			&EFS+/133.8
								,							
								,							
TRIP					-DI_04	4	30	,	+.2-18B1	7					&EFS+/133.4
CB 1 GRID +24V	4				++CONV+CIR-80Q1	X6_12	31		-XDC3	2					&EFS+/188.1
								,							
CB 1 GRID +24V	5				++CONV+CIR-80Q1	X5_11	32		-XDC3	3					&EFS+/188.1
CB 2 ISLAND GRID +24V OPTIONAL							33		-137K1	11					&EFS+/188.2
								,							
CB 2 ISLAND GRID +24V OPTIONAL							34								&EFS+/188.2
=	6				++CONV+CIR-80Q1	X6_7	35	,	-137K1	14					&EFS+/188.4
								,							
								,							
CB 1 GRID	7				++CONV+CIR-80Q1	X6_14	36	,	-137K2	12					&EFS+/188.5
=	8				++CONV+CIR-80Q1	X5_12	37	,	-189K1	22					&EFS+/188.6
								,							
								,							
CB 1 GRID							38	,	-137K3	14					&EFS+/188.6
CB 2 ISLAND GRID OPTIONAL							39	,	-137K4	12					&EFS+/188.8

previous page: 2001

next page: 2003

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X3

CONTROL VOLTAGE 24V DC

Cable name: -195W1

Cable type: OZ-500

Function text	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	-195W1 / OZ-500	Page / column
CB 2 ISLAND GRID OPTIONAL			40		-189K1	21		&EFS+/188.8
SHUTDOWN CIRCUIT BREAKERS / DC CONTACTORS	-X3	42	41		+.1-84Q1	14	3	&EFS+/195.2
SHUTDOWN CIRCUIT BREAKERS / DC CONTACTORS	-195K3	IN1	42		-X3	41		&EFS+/195.2
=	-X3	44	43		+.1-84Q1	24	4	&EFS+/195.3
SHUTDOWN CIRCUIT BREAKERS / DC CONTACTORS	-195K3	IN2	44		-X3	43		&EFS+/195.3
=	-195K1	61	45		+.4-306K1	21		&EFS+/195.3
FAULT SIGNAL SAFETY RELAY	-195K3	IN	46		+.4-308K6	21		&EFS+/195.4

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X3.10

Rückmeldung DC Schütze Subsystem 1_4

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Cable type	Page / column
										++CONV-231W4	OZ-500	
SUBSYSTEM 2_1_DC + Contactor K1 is on			-DI_02	8	1		+.4-306K1	14				&EFS+/129.0
SUBSYSTEM 2_2_DC + Contactor K2 is on			+.4-306K3	14	2		-DI_02	10				&EFS+/129.2
SUBSYSTEM 2_1_DC -Contactor K7 is on			+.4-306K2	14	3		-DI_02	9				&EFS+/129.1
SUBSYSTEM 2_2_DC -Contactor K8 is on			+.4-306K4	14	4		-DI_02	11				&EFS+/129.3
SUBSYSTEM 2_3_DC + Contactor K3 is on			-DI_02	12	5		+.4-306K5	14				&EFS+/129.4
SUBSYSTEM 2_3_DC + SPARE			-DI_02	14	6							&EFS+/129.6
SUBSYSTEM 2_3_DC -Contactor K9 is on			-DI_02	13	7		+.4-306K6	14				&EFS+/129.5
SUBSYSTEM 2_DC -SPARE			-DI_02	15	8							&EFS+/129.7
SUBSYSTEM 2_1_DC FUSE OK			-DI_02	16	9		++CONV+CIR-231U1-X3.1	13		13		&EFS+/129.8
SUBSYSTEM 2_2_DC FUSE OK					10		++CONV+CIR-231U1-X3.1	16		16		&EFS+/129.9
SUBSYSTEM 2_2_DC FUSE OK			-DI_03	1	11		++CONV+CIR-231U1-X3.1	14		14		&EFS+/129.9
=			-XDC4	1	12							&EFS+/129.9

previous page: 2003

next page: 2005

Editor	Freqcon_DG			Statron		Klemmenplan =UNIT_01++CT+CTRL_1.3-X3.10	20241105_V1.2
Date	05.11.2024						
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007
Date							

=	UNIT_01	Converter Container 1	
&	EMZ	Terminals	
++	CT	Control cabinets	page: 2004
+	CTRL_1.3	Main mounting plate	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X3.11

Rückmeldung DC Schütze Subsystem 1_4

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Cable type	Page / column
										++CONV-231W4	OZ-500	
										++CONV-227W4	OZ-500	
SUBSYSTEM 3_1_DC + Contactor K1 is on			-DI_03	2	1		+.4-307K1	14				&EFS+/130.0
SUBSYSTEM 3_2_DC + Contactor K2 is on			+.4-307K3	14	2		-DI_03	4				&EFS+/130.2
SUBSYSTEM 3_1_DC -Contactor K7 is on			+.4-307K2	14	3		-DI_03	3				&EFS+/130.1
SUBSYSTEM 3_2_DC -Contactor K8 is on			+.4-307K4	14	4		-DI_03	5				&EFS+/130.3
SUBSYSTEM 3_3_DC + Contactor K3 is on			-DI_03	6	5		+.4-307K5	14				&EFS+/130.4
SUBSYSTEM 3_DC + SPARE			-DI_03	8	6							&EFS+/130.6
SUBSYSTEM 3_3_DC -Contactor K9 is on			-DI_03	7	7		+.4-307K6	14				&EFS+/130.5
SUBSYSTEM 3_DC -SPARE			-DI_03	9	8							&EFS+/130.7
SUBSYSTEM 2_DC FUSE OK			-DI_03	10	9		++CONV+CIR-231U1-X3.1	15		15		&EFS+/130.8
SUBSYSTEM 3_1_DC FUSE OK					10							&EFS+/130.9
SUBSYSTEM 3_1_DC FUSE OK			-DI_03	11	11		++CONV+CIR-227U1-X3.1	13			13	&EFS+/130.9
=			-XDC4	2	12							&EFS+/130.9

previous page: 2004

next page: 2006

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X3.12

Rückmeldung DC Schütze Subsystem 1_4

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name ++CONV-227W4	OZ-500	Page / column
SUBSYSTEM 4_1_DC + Contactor K1 is on			-DI_03	12	1		+.4-308K1	14				&EFS+/131.0
SUBSYSTEM 4_2_DC + Contactor K2 is on			+.4-308K3	14	2		-DI_03	14				&EFS+/131.2
SUBSYSTEM 4_1_DC -Contactor K7 is on			+.4-308K2	14	3		-DI_03	13				&EFS+/131.1
SUBSYSTEM 4_2_DC -Contactor K8 is on			+.4-308K4	14	4		-DI_03	15				&EFS+/131.3
SUBSYSTEM 4_3_DC + Contactor K3 is on			-DI_03	16	5		+.4-308K5	14				&EFS+/131.4
SUBSYSTEM 4_DC + SPARE			-DI_05	2	6							&EFS+/131.6
SUBSYSTEM 4_3_DC -Contactor K9 is on			-DI_05	1	7		+.4-308K6	14				&EFS+/131.5
SUBSYSTEM 4_DC -SPARE			-DI_05	3	8							&EFS+/131.7
SUBSYSTEM 3_2_DC FUSE OK			-DI_05	4	9		++CONV+CIR-227U1-X3.1	14		14		&EFS+/131.8
SUBSYSTEM 3_3_DC FUSE OK					10		++CONV+CIR-227U1-X3.1	16		16		&EFS+/131.9
=			-DI_05	5	11		++CONV+CIR-227U1-X3.1	15		15		&EFS+/131.9
SUBSYSTEM 3_3_DC FUSE OK			-XDC4	2	12							&EFS+/131.9

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Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X3.13

Rückmeldung DC Schütze Subsystem 1_6

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name ++CONV-237W4	OZ-500	Page / column
			-DI_05	6	1							&EFS+/132.0
					2		-DI_05	8				&EFS+/132.2
					3		-DI_05	7				&EFS+/132.1
					4		-DI_05	9				&EFS+/132.3
			-DI_05	10	5							&EFS+/132.4
			-DI_05	12	6							&EFS+/132.6
			-DI_05	11	7							&EFS+/132.5
SUBSYSTEM 4_1_DC FUSE OK			-DI_05	13	8		++CONV+CIR-237U1-X3.1	13		13		&EFS+/132.7
SUBSYSTEM 4_2_DC FUSE OK			-DI_05	14	9		++CONV+CIR-237U1-X3.1	14		14		&EFS+/132.8
SUBSYSTEM 4_3_DC FUSE OK					10		++CONV+CIR-237U1-X3.1	16		16		&EFS+/132.9
=			-DI_05	15	11		++CONV+CIR-237U1-X3.1	15		15		&EFS+/132.9
SUBSYSTEM 4_3_DC FUSE OK			-XDC4	2	12							&EFS+/132.9

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Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X5

Kleinspannungssignale

Function text				Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	++CONV-145W1	++CONV-145W2	++CONV-145W3	++CONV-145W4	++CONV-146W1	++CONV-146W2	++CONV-146W3	++CONV-146W4	++CONV-147W1			Page / column
				Cable type							Cable type	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)			
INDUCTOR GRID PHASE L1 TEMPERATURE 1_1					-AI_01	1	1	,	++CONV+IND-201L1			1											&EFS+/145.1
								,															
								,															
INDUCTOR GRID PHASE L1 TEMPERATURE 1_1					-AI_01	9	2	,	++CONV+IND-201L1			2											&EFS+/145.1
INDUCTOR GRID PHASE L2 TEMPERATURE 1_2					-AI_01	2	3	,	++CONV+IND-202L1				1										&EFS+/145.3
								,															
								,															
INDUCTOR GRID PHASE L2 TEMPERATURE 1_2					-AI_01	10	4	,	++CONV+IND-202L1				2										&EFS+/145.3
INDUCTOR GRID PHASE L3 TEMPERATURE 1_3					-AI_01	3	5	,	++CONV+IND-203L1					1									&EFS+/145.5
								,															
								,															
								,															
								,															
INDUCTOR GRID PHASE L3 TEMPERATURE 1_3					-AI_01	11	6	,	++CONV+IND-203L1					2									&EFS+/145.5
INDUCTOR DC SUB 2_1 TEMPERATURE 2_1					-AI_01	4	7	,	++CONV+IND-211L1.1						1								&EFS+/145.7
								,															
								,															
INDUCTOR DC SUB 2_1 TEMPERATURE 2_1					-AI_01	12	8	,	++CONV+IND-211L1.1						2								&EFS+/145.7
INDUCTOR DC SUB 2_2 TEMPERATURE 2_2					-AI_01	5	9	,	++CONV+IND-211L1.2							1							&EFS+/146.1
								,															
								,															
INDUCTOR DC SUB 2_2 TEMPERATURE 2_2					-AI_01	13	10	,	++CONV+IND-211L1.2							2							&EFS+/146.1
INDUCTOR DC SUB 2_3 TEMPERATURE 2_3					-AI_01	6	11	,	++CONV+IND-211L1.3								1						&EFS+/146.3
								,															
								,															
INDUCTOR DC SUB 2_3 TEMPERATURE 2_3					-AI_01	14	12	,	++CONV+IND-211L1.3								2						&EFS+/146.3
INDUCTOR DC SUB 3_1 TEMPERATURE 3_1					-AI_01	7	13	,	++CONV+IND-207L1.1									1					&EFS+/146.5
								,															
								,															
INDUCTOR DC SUB 3_1 TEMPERATURE 3_1					-AI_01	15	14	,	++CONV+IND-207L1.1									2					&EFS+/146.5
INDUCTOR DC SUB 3_2 TEMPERATURE 3_2					-AI_01	8	15	,	++CONV+IND-207L1.2										1				&EFS+/146.7
								,															
								,															
INDUCTOR DC SUB 3_2 TEMPERATURE 3_2					-AI_01	16	16	,	++CONV+IND-207L1.2										2				&EFS+/146.7
INDUCTOR DC SUB 3_3 TEMPERATURE 3_3					-AI_02	1	17	,	++CONV+IND-207L1.3											1			&EFS+/147.1
								,															
								,															

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Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X5

Kleinspannungssignale

Function text				Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	++CONV-147W1	++CONV-147W2	-181W3	++CONV-148W1	++CONV-148W2							Page / column
				Cable type							Cable type	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)	F-CY-OZ (LIY-CY)							
INDUCTOR DC SUB 3_3 TEMPERATURE 3_3					-AI_02	9	18	,	++CONV+IND-207L1.3			2											&EFS+/147.1
INDUCTOR DC SUB 4_1 TEMPERATURE 4_1					-AI_02	2	19	,	++CONV+IND-217L1.1				1										&EFS+/147.3
								,															
								,															
INDUCTOR DC SUB 4_1 TEMPERATURE 4_1					-AI_02	10	20	,	++CONV+IND-217L1.1				2										&EFS+/147.3
CONVERTER CABINET TEMPERATURE					-AI_02	4	21	,	++CONV+CON-147B2	+													&EFS+/147.7
								,															
								,															
CONVERTER CABINET TEMPERATURE					-AI_02	12	22	,	++CONV+CON-147B2	-													&EFS+/147.7
COOLING WATER TEMPERATURE					-AI_02	5	23	,	++FAN-52G1-181X3	4				4									&EFS+/148.1
								,															
COOLING WATER TEMPERATURE					-AI_02	5	23	,	++FAN-52G1-181X3	4				4									&EFS+/148.1
								,															
								,															
COOLING WATER TEMPERATURE					-AI_02	13	24	,	++FAN-52G1-181X3	5				5									&EFS+/148.1
INDUCTOR DC SUB 4_2 TEMPERATURE 4_2					-AI_02	6	25	,	++CONV+IND-217L1.2						1								&EFS+/148.3
								,															
								,															
INDUCTOR DC SUB 4_2 TEMPERATURE 4_2					-AI_02	14	26	,	++CONV+IND-217L1.2						2								&EFS+/148.3
CIR CABINET TEMPERATURE					-AI_02	7	27	,	++CONV+CIR-148B3	+													&EFS+/148.5
								,															
								,															
CIR CABINET TEMPERATURE					-AI_02	15	28	,	++CONV+CIR-148B3	-													&EFS+/148.5
INDUCTOR DC SUB 4_3 TEMPERATURE 4_3					-AI_02	8	29	,	++CONV+IND-217L1.3							1							&EFS+/148.7
								,															
								,															
INDUCTOR DC SUB 4_3 TEMPERATURE 4_3					-AI_02	16	30	,	++CONV+IND-217L1.3							2							&EFS+/148.7

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next page: 2010

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-X5	20241105_V1.2
Date	05.11.2024						
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007
Date							

=	UNIT_01	Converter Container 1	
&	EMZ	Terminals	
++	CT	Control cabinets	page: 2009
+	CTRL_1.3	Main mounting plate	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-X5.1

DC Subsystem Spannungsmessung

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
DC_SUBSYSTEM 2_1.1 voltage			-AI_03	5	1		-AI_04	6			&EFS+/149.0
			-XDC1	6							
			-AI_03	6							
DC_SUBSYSTEM 2_3.1 voltage			-AI_03	7	2		+.4-149U1	14			&EFS+/149.2
			-AI_04	5							
			-AI_03	8							

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next page: 2011

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-150X1

Subsysteme DC Schütz EIN

Function text			++CONV-231W4	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	++CONV-231W4	Page / column
			OZ-500	Cable type							Cable type	OZ-500	
SUBSYSTEM 2_1 CONTACTOR DC+ ON			1		++CONV+CIR-231U1-X3.1	1	1	,	-150K1	14			&EFS+/150.2
								,					
								,					
SUBSYSTEM 2_1 CONTACTOR DC+ ON					-195K2	23	2	,	++CONV+CIR-231U1-X3.1	17		17	&EFS+/150.2
SUBSYSTEM 2_1 CONTACTOR DC-ON			4		++CONV+CIR-231U1-X3.1	4	3	,	-150K2	14			&EFS+/150.4
								,					
								,					
SUBSYSTEM 2_2 CONTACTOR DC+ ON			2		++CONV+CIR-231U1-X3.1	2	4	,	-151K1	14			&EFS+/151.1
=					-151K1	A2	5	,					&EFS+/151.1
								,					
								,					
								,					
SUBSYSTEM 2_3 CONTACTOR DC+ ON			5		++CONV+CIR-231U1-X3.1	5	6	,	-151K2	14			&EFS+/151.3
=			3		++CONV+CIR-231U1-X3.1	3	7	,	-151K3	14			&EFS+/151.4
								,					
								,					
SUBSYSTEM 2_3 CONTACTOR DC+ ON					-151K2	A2	8	,					&EFS+/151.4
SUBSYSTEM 2_3 CONTACTOR DC-ON			6		++CONV+CIR-231U1-X3.1	6	9	,	-151K4	14			&EFS+/151.6
								,					
								,					
SUBSYSTEM 2_3 CONTACTOR DC-ON							10	,					&EFS+/151.6

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Editor	Freqcon_DG			Statron		Klemmenplan	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024					=UNIT_01++CT+CTRL_1.3-150X1		& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore				++ CT Control cabinets
Date							10354_23A2007	+ CTRL_1.3 Main mounting plate

page: 2011

total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XDC1

Steuerspannung 24VDC (USV) DC1

Function text	-240W9	1Z-500	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Page / column
	Cable name	Cable type							
FUSE 24V DC CONTROL VOLTAGE	1		+CTRL_2.1-240U1	1	1		-103F1	2	&EFS+/103.2
			+CTRL_2.1-160U1	+					
			+.2-18B1	40					
FUSE 24V DC CONTROL VOLTAGE			-DO_01	L+	2		-101Q1	13	&EFS+/103.2
			-AI_01	L+					
			+.1-126S1	13					
FUSE 24V DC CONTROL VOLTAGE			-136K7	11	3		-103F1	13	&EFS+/103.2
			-84F2	13					
Main PLC, SPS, 24V contacts CONTROL VOLTAGE	2		+CTRL_2.1-240U1	3	4		-102G1	OUTPUT DC 24 V:-	&EFS+/103.3
			-120A1	-X80:2					
			-DI_01	M					
Main PLC, SPS, 24V contacts CONTROL VOLTAGE			-DO_01	M	5		+CTRL_2.1-160U1	-	&EFS+/103.3
			-AI_01	M					
			+.2-18B1	42					
Main PLC, SPS, 24V contacts CONTROL VOLTAGE			-84K1	A2	6		-X5.1	1	&EFS+/103.3
			+.1-140H1	X2					
			+.2-110U1	M					
Main PLC, SPS, 24V contacts CONTROL VOLTAGE			-AI_04	7	7				&EFS+/103.3
			-XDC2	3					
			-X3	25					
Main PLC, SPS, 24V contacts CONTROL VOLTAGE	GNYE		+CTRL_2.1-240U1	2	PE		-101T1	PE	&EFS+/103.4

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next page: 2013

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XDC1	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT Control cabinets page: 2012
Date								+ CTRL_1.3 Main mounting plate total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XDC1

Steuerspannung 24VDC (USV) DC1

Function text	-241W9 JZ-500	-112W1 JZ-500	-242W9 JZ-500	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	-243W9 JZ-500	Page / column
					-XE	PE:1							
					-101T1	-"							
Main PLC, SPS, 24V contacts CONTROL VOLTAGE					+.2-18B1	41	PE	,	+CTRL_2.1-243U1	2		GNYE	&EFS+/103.4
			GNYE		+CTRL_2.1-242U1	2							
		GNYE			+.1-112A1	PE							
	GNYE				+CTRL_2.1-241U1	2							

previous page: 2012

next page: 2014

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XDC1	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT Control cabinets — page: 2013
Date								+ CTRL_1.3 Main mounting plate — total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XDC2

Steuerspannung 24VDC (USV) DC2

Function text	-241W9 / JZ-500	-242W9 / JZ-500	-243W9 / JZ-500	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
Main PLC, SPS, 24V contacts CONTROL VOLTAGE			1		+CTRL_2.1-243U1	1	1		-103F2	2		&EFS+/103.4
		1			+CTRL_2.1-242U1	1						
					-X3	29						
BSU, SPARE CONTROL VOLTAGE	1				+CTRL_2.1-241U1	1	2					&EFS+/103.5

previous page: 2013

next page: 2015

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XDC2	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT Control cabinets — page: 2014
Date								+ CTRL_1.3 Main mounting plate — total: 498

Terminal diagram

Freqcon_F13_001_02

Strip
=UNIT_01++CT+CTRL_1.3-XDC2
Steuerspannung 24VDC (USV) DC2

Function text	-243W9 JZ-500	-242W9 JZ-500	-112W1 JZ-500	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
			1		+.1-112A1	L+						
BSU, SPARE CONTROL VOLTAGE					-186K1	A2	3		-XDC1	7		&EFS+/103.5
		2			+CTRL_2.1-242U1	3						
	2				+CTRL_2.1-243U1	3						

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XDC2

Steuerspannung 24VDC (USV) DC2

Function text		-112W1	-241W9	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	Page / column
		1Z-500	1Z-500	Cable type							Cable type	
BSU, SPARE CONTROL VOLTAGE			2		+CTRL_2.1-241U1	3	4		-XDC3	3		&EFS+/103.5
					-138K1	A2						
		2			+.1-112A1	M						

previous page: 2015

next page: 2017

Editor	Freqcon_DG	Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XDC2	20241105_V1.2	= UNIT_01	Converter Container 1
Date	05.11.2024					& EMZ	Terminals
Proved by		Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT	Control cabinets
Date						+ CTRL_1.3	Main mounting plate

page: 2016

total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XDC3

Steuerspannung 24VDC (USV) DC3

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
BSU, SPARE CONTROL VOLTAGE			-111A1	3	1		-103F3	2			&EFS+/103.6
			-173K3	21							
			+.2-114A1	-X80:1							
BSU, SPARE CONTROL VOLTAGE			-X3	31	2		+.4-306K1	11			&EFS+/103.6
			-195K1	83							
			-115A1	V+							
PRECHARGE CONTROL VOLTAGE			-X3	32	3		-XDC2	4			&EFS+/103.7
			-111A1	4							
			+.2-114A1	-X80:2							
PRECHARGE CONTROL VOLTAGE			-195K1	43	4		-XDC4	3			&EFS+/103.7
			+.4-171K1	x2							
			-115A1	V-							

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XDC3	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMZ	Terminals	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT	Control cabinets	page: 2017
Date								+ CTRL_1.3	Main mounting plate	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XDC4

Steuerspannung 24VDC (USV) DC4

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
PRECHARGE CONTROL VOLTAGE			-195K1	33	1		-103F4	2			&EFS+/103.8
			-195K3	A1							
			-X3.10	12							
PRECHARGE CONTROL VOLTAGE			-X3.11	12	2		-X3.13	12			&EFS+/103.8
			-X3	5							
			-X3.12	12							
DC CONTACTORS, RELAYS, CONTROL VOLTAGE			-139K2	A2	3		-XDC3	4			&EFS+/103.9
			-195K3	A2							
			-195K1	23							
DC CONTACTORS, RELAYS, CONTROL VOLTAGE			-X3	21	4						&EFS+/103.9
			+.4-306K1	A2							

previous page: 2017

next page: 2019

Editor	Freqcon_DG			Statron		Klemmenplan =UNIT_01++CT+CTRL_1.3-XDC4	20241105_V1.2	=	UNIT_01	Converter Container 1	
Date	05.11.2024							&	EMZ	Terminals	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore				++	CT	Control cabinets	page: 2018
Date							10354_23A2007	+	CTRL_1.3	Main mounting plate	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XDC5.1

Steuerspannung 24VDC (USV) DC5.1

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
DC CONTACTORS, RELAYS, CONTROL VOLTAGE			-186K1	1	1	,	-103F5	2			&EFS+/103.9
			-186K1	3							
						,					
						,					

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2018

next page:
2020

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XDC5.1	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT Control cabinets — page: 2019
Date								+ CTRL_1.3 Main mounting plate — total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XDC5.2

Steuerspannung 24VDC (USV) DC5.2

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
DC CONTACTORS, RELAYS, CONTROL VOLTAGE			+.2-110U1	+24V	1	,	-186K1	2			&EFS+/103.9
			-120A1	-X80:1							
			-DI_01	L+							
						,					
						,					

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Editor	Freqcon_DG	Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XDC5.2	20241105_V1.2	= UNIT_01	Converter Container 1
Date	05.11.2024					& EMZ	Terminals
Proved by		Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT	Control cabinets page: 2020
Date						+ CTRL_1.3	Main mounting plate total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XE

Hauptstromversorgung 400V AC

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
					1		-84F2	2			&EFS+/84.0
1-6					1						&EFA+++/2a.4
Supply Control Cabinet 3-phase 400V AC					N		-X1	7			&EFS+/84.1
=			-191XT1	4	N		-XT	2			&EFS+/84.1
=			-190F3	N	N		-191XT1	8			&EFS+/84.2
=			-190F2	N	N		-190F1	N			&EFS+/84.2
=					PE						&EFS+/84.2
=			-84F1	PE	PE		-XDC1	PE			&EFS+/84.2
=				PE	PE						&EFS+/84.3
			-101Q1	1	2		-190F2	1			&EFS+/84.0
					3		-84F2	4			&EFS+/84.0
Supply Control Cabinet 3-phase 400V AC			-101Q1	3	4		-190F3	1			&EFS+/84.1
=					5		-84F2	6			&EFS+/84.1
=			-101Q1	5	6		-190F1	1			&EFS+/84.1

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next page: 2022

Editor	Freqcon_DG			Statron		Klemmenplan =UNIT_01++CT+CTRL_1.3-XE	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMZ	Terminals	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore				++ CT	Control cabinets	page: 2021
Date							10354_23A2007	+ CTRL_1.3	Main mounting plate	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XT

Transfer Klemmenblock 24VDC/230VAC

Function text	-278W1	++CONV-281W1	++CONV-279W1	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	++CONV-279W1	++CONV-281W1	-278W1								Page / column
	1Z-500	1Z-500	1Z-500	Cable type							Cable type	1Z-500	1Z-500	1Z-500								
CON Fans 1-5 in door			1		++CONV+CON-279M1	L	1		-135K1	14												&EFS+/183.1
CON Fans 1-5 in door			2		++CONV+CON-279M1	N	2		-XE	N:1												&EFS+/183.1
=							PE		++CONV+CON-279M1	PE		GNYE										&EFS+/183.1
=		1			++CONV+CIR-281M1	L	3		-135K3	14												&EFS+/183.3
CIR Fans 1-3 in door		2			++CONV+CIR-281M1	N	4															&EFS+/183.4
=							PE		++CONV+CIR-281M1	PE			GNYE									&EFS+/183.4
FAN 1 CONTROL CABINET	1				+.1-278M1	L	5		-135K2	14												&EFS+/185.1
FAN 1 CONTROL CABINET	2				+.1-278M1	N	6															&EFS+/185.1
=							PE		+.1-278M1	PE			GNYE									&EFS+/185.1

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Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XT	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMZ	Terminals	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore				++ CT	Control cabinets	page: 2022
Date							10354_23A2007	+ CTRL_1.3	Main mounting plate	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XT

Transfer Klemmenblock 24VDC/230VAC

Function text	++CONV-80W2	-185W1	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	-185W1	++CONV-80W2	Page / column
	1Z-500	1Z-500	Cable type							Cable type	1Z-500	1Z-500	
HEATING CONTROL CABINET		1		+.2-185R1	1	7		-185B1	2				&EFS+/185.7
HEATING CONTROL CABINET		2		+.2-185R1	2	8							&EFS+/185.7
=						PE		+.2-185R1	PE		GNYE		&EFS+/185.7
230V AC for Circuit Breaker 1	1			++CONV+CIR-80Q1	X5_2	9		-187F1	2				&EFS+/187.1
230V AC for Circuit Breaker 1	2			++CONV+CIR-80Q1	X5_1	10							&EFS+/187.1
=						PE						GNYE	&EFS+/187.1
230V AC for Circuit Breaker Optional						11							&EFS+/187.2
230V AC for Circuit Breaker Optional						12							&EFS+/187.2
=						PE							&EFS+/187.2
24V DC for Circuit Breaker 2 Optional						13		-187F2	2				&EFS+/187.4
24V DC for Circuit Breaker 2 Optional						14		-101T1	-'				&EFS+/187.4
24V DC for Circuit Breaker Optional						15							&EFS+/187.5
24V DC for Circuit Breaker Optional						16							&EFS+/187.5

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next page: 2024

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-XT	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT Control cabinets page: 2023
Date								+ CTRL_1.3 Main mounting plate total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-190XT1

230VAC Beleuchtung/Klimaanlage Container/Schrank

Function text			+.5-190H1-W1	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
				Cable type									
SPARE							1	,	-190F1	2			&EFS+/190.1
								,					
SPARE							2	,	-190F1	N.			&EFS+/190.1
								,					
SPARE							PE	,					&EFS+/190.1
								,					
SPARE							3	,	-190F2	2			&EFS+/190.3
								,					
SPARE							4	,	-190F2	N.			&EFS+/190.3
								,					
SPARE							PE	,					&EFS+/190.3
								,					
SPARE							PE	,					&EFS+/190.3
								,					
Light Control cabinet			BN		+.5-190H1		5	,	-190F3	2			&EFS+/190.5
								,					
Light Control cabinet							PE	,	-190X10	PE			&EFS+/190.5
								,					
Light Control cabinet			LBU		+.5-190H1		6	,	-190F3	N.			&EFS+/190.5
								,					
230V AC for Container light, socket							7	,	-190X10	1			&EFS+/190.7
								,					
230V AC for Container light, socket							8	,	-190X10	2			&EFS+/190.7
								,					
230V AC for Container light, socket							PE	,					&EFS+/190.7
								,					

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Terminal diagram

Freqcon_F13_001_02

Function text				Cable name	Strip =UNIT_01++CT+CTRL_1.3-191XT1					Cable name												Page / column
				Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type												
400V AC for Container Air Conditioning 1							1	,	-191F1	2												&EFS+/191.1
=							2	,	-191F1	4												&EFS+/191.1
=							3	,	-191F1	6												&EFS+/191.1
=							4	,	-XE	N:2												&EFS+/191.2
=							PE	,														&EFS+/191.2
400V AC for Container Air Conditioning 2							5	,	-191F2	2												&EFS+/191.3
=							6	,	-191F2	4												&EFS+/191.3
=							7	,	-191F2	6												&EFS+/191.3
=							8	,	-XE	N:1												&EFS+/191.4
=							PE	,														&EFS+/191.4

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next page: 2026

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.3-191XT1	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT Control cabinets page: 2025
Date								+ CTRL_1.3 Main mounting plate total: 498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.3-XV

Suppression TVS Diode

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
Suppression TVS Diode bi-directional 47 V					1		-171K3	14			&EFS+/171.8
Suppression TVS Diode bi-directional 47 V					5						&EFS+/151.7
Suppression TVS Diode bi-directional 47 V					6						&EFS+/151.7
Suppression TVS Diode bi-directional 47 V					7						&EFS+/151.7
Suppression TVS Diode bi-directional 47 V					8						&EFS+/151.8
Suppression TVS Diode bi-directional 47 V					9						&EFS+/134.5
Suppression TVS Diode bi-directional 47 V					2		-173K3	14			&EFS+/173.9
Suppression TVS Diode bi-directional 47 V					3						&EFS+/150.7
Suppression TVS Diode bi-directional 47 V					4						&EFS+/150.7

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next page: 2027

Terminal diagram

Freqcon_F13_001_02

Strip
=UNIT_01++CT+CTRL_1.3-XV
Suppression TVS Diode

Function text				Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type												Page / column

Editor	Freqcon_DG			Statron	Klemmenplan =UNIT_01++CT+CTRL_1.3-XV	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024						& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore		10354_23A2007	++ CT Control cabinets — page: 2027
Date							+ CTRL_1.3 Main mounting plate — total: 498

Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
-350X1.21	Subsysteme DC Schütz EIN	1	19	0	0	38	=UNIT_01&EMZ++CT+CTRL_1.4/2000
-XE2	Gleichstromversorgung 1000VDC	1	11	0	0	11	=UNIT_01&EMZ++CT+CTRL_1.4/2002
-XV.20		1	12	0	0	48	=UNIT_01&EMZ++CT+CTRL_1.4/2003

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Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.4-350X1.21

Subsystem DC Schütz EIN

Function text		++CONV-237W4 OZ-500	++CONV-227W4 OZ-500	Cable name Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name Cable type	++CONV-227W4 OZ-500	++CONV-237W4 OZ-500	Page / column
SUBSYSTEM 3_1 CONTACTOR DC+ ON			1		++CONV+CIR-227U1-X3.1	1	1	,	-350K1	14				&EFS+/350.2
								,						
								,						
SUBSYSTEM 3_1 CONTACTOR DC+ ON					-350K1	A2	2	,	++CONV+CIR-227U1-X3.1	17		17		&EFS+/350.2
SUBSYSTEM 3_1 CONTACTOR DC-ON			4		++CONV+CIR-227U1-X3.1	4	3	,	-350K2	14				&EFS+/350.4
								,						
								,						
			2		++CONV+CIR-227U1-X3.1	2	4	,	-351K1	14				&EFS+/351.1
					+.3-195K2	43	5	,						&EFS+/351.1
								,						
								,						
								,						
								,						
SUBSYSTEM 3_3 CONTACTOR DC+ ON			5		++CONV+CIR-227U1-X3.1	5	6	,	-351K2	14				&EFS+/351.3
=			3		++CONV+CIR-227U1-X3.1	3	7	,	-351K3	14				&EFS+/351.4
								,						
								,						
SUBSYSTEM 3_3 CONTACTOR DC-ON							8	,						&EFS+/351.5
=			6		++CONV+CIR-227U1-X3.1	6	9	,	-351K4	14				&EFS+/351.6
								,						
								,						
SUBSYSTEM 3_3 CONTACTOR DC-ON							10	,						&EFS+/351.7
SUBSYSTEM 4_3 CONTACTOR DC-ON							10	,						&EFS+/353.6
SUBSYSTEM 4_1 CONTACTOR DC+ ON		1			++CONV+CIR-237U1-X3.1	1	11	,	-352K1	14				&EFS+/352.1
SUBSYSTEM 4_1 CONTACTOR DC-ON					-352K1	A2	12	,	++CONV+CIR-237U1-X3.1	17			17	&EFS+/352.2
=		4			++CONV+CIR-237U1-X3.1	4	13	,	-352K2	14				&EFS+/352.3
								,						
								,						
SUBSYSTEM 4_2 CONTACTOR DC+ ON		2			++CONV+CIR-237U1-X3.1	2	14	,	-353K1	14				&EFS+/353.1
=					-353K1	A2	15	,						&EFS+/353.1
								,						
								,						
SUBSYSTEM 4_3 CONTACTOR DC+ ON		5			++CONV+CIR-237U1-X3.1	5	16	,	-353K2	14				&EFS+/353.3
=		3			++CONV+CIR-237U1-X3.1	3	17	,	-353K3	14				&EFS+/353.4
								,						
								,						
SUBSYSTEM 4_3 CONTACTOR DC+ ON					-353K2	A2	18	,						&EFS+/353.4

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Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.4-350X1.21

Subsysteme DC Schütz EIN

Function text			++CONV-237W4	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	Page / column
			0Z-500	Cable type							Cable type	
SUBSYSTEM 4_3 CONTACTOR DC-ON			6		++CONV+CIR-237U1-X3.1	6	19	,	-353K4	14		&EFS+/353.6
								,				
								,				

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2000

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2002

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.4-350X1.21	20241105_V1.2
Date	05.11.2024						
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007
Date							

=	UNIT_01	Converter Container 1		
&	EMZ	Terminals		
++	CT	Control cabinets	page:	2001
+	CTRL_1.4	Right side	total:	498

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.4-XE2

Gleichstromversorgung 1000VDC

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
RESISTORS FOR DISCHARGING UDC+			-173R2		1		-173R1				&EFS+/173.2
RESISTORS FOR DISCHARGING UDC-			-173R4		2		-173R3				&EFS+/173.3
=			-173R4		3		+CTRL_2.1-160U1	15			&EFS+/173.3
=			-173R2		4		+CTRL_2.1-160U1	44			&EFS+/173.3
=			+CTRL_2.1-162U1	15	5		+CTRL_2.1-161U1	15			&EFS+/173.3
=			+CTRL_2.1-162U1	44	6		+CTRL_2.1-161U1	44			&EFS+/173.3
=			+CTRL_2.1-163U1	15	7		-189X1	4			&EFS+/173.4
=			+CTRL_2.1-163U1	44	8		+CTRL_2.1-164U1	44			&EFS+/173.4
=			+CTRL_2.1-164U1	15	9		++CONV+CON-N	N			&EFS+/173.4
=					10		+CTRL.4-173R6				&EFS+/173.5
=					11		+CTRL.4-173R8				&EFS+/173.5

previous page: 2001

next page: 2003

Editor	Freqcon_DG	Statron	FREQCON	Klemmenplan =UNIT_01++CT+CTRL_1.4-XE2	20241105_V1.2	= UNIT_01	Converter Container 1
Date	05.11.2024					& EMZ	Terminals
Proved by		Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT	Control cabinets
Date						+ CTRL_1.4	Right side

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++CT+CTRL_1.4-XV.20

Function text	Cable name	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Cable name	Page / column
Suppression TVS Diode bi-directional 47 V					1						&EFS+/350.7
Suppression TVS Diode bi-directional 47 V					2						&EFS+/350.7
Suppression TVS Diode bi-directional 47 V					3						&EFS+/351.7
Suppression TVS Diode bi-directional 47 V					4						&EFS+/351.7
Suppression TVS Diode bi-directional 47 V					5						&EFS+/351.8
Suppression TVS Diode bi-directional 47 V					6						&EFS+/351.8
Suppression TVS Diode bi-directional 47 V					7						&EFS+/352.7
Suppression TVS Diode bi-directional 47 V					8						&EFS+/352.7
Suppression TVS Diode bi-directional 47 V					9						&EFS+/353.7

previous page: 2002

next page: 2004

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CT+CTRL_1.4-XV.20

Function text	Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
Suppression TVS Diode bi-directional 47 V				10					&EFS+/353.7
Suppression TVS Diode bi-directional 47 V				11					&EFS+/353.7
Suppression TVS Diode bi-directional 47 V				12					&EFS+/353.8

Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
-149X1		1	6	0	0	6	=UNIT_01&EMZ++CT+CTRL_2.1/2000

previous page:
+CTRL_1.4/2004

next page:
2000

Editor	Freqcon_DG			Statron	FREQCON	Klemmenleistenübersicht : =UNIT_01++CT+CTRL_2.1-149X1 - =UNIT_01++CT+CTRL_2.1-149X1	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMZ	Terminals	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT	Control cabinets	page: 1000
Date								+ CTRL_2.1	Cabinet door	total: 498

Terminal diagram

Freqcon_F13_001_02

Strip =UNIT_01++CT+CTRL_2.1-149X1

Function text				Cable name / Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name / Cable type	Page / column
					-161U1	19	1	▪				&EFS+/161.4
					-161U1	23	2	▪				&EFS+/161.5
					-161U1	27	3	▪				&EFS+/161.5
					-161U1	32	4	▪				&EFS+/161.6
					-161U1	36	5	▪				&EFS+/161.7
					-161U1	40	6	▪				&EFS+/161.8

Editor	Freqcon_DG	Statron	Klemmenplan =UNIT_01++CT+CTRL_2.1-149X1	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024	Shell Crosswind BESS FQ 1MW 5MWh Offshore			& EMZ Terminals
Proved by				10354_23A2007	++ CT Control cabinets — page: 2000
Date					+ CTRL_2.1 Cabinet door — total: 498

Terminal-strip overview

F14_001

Terminal strip	Terminal strip definition text	Terminals					Graphical page of terminal diagrams
		first	last	Total PE	Total N	Total number	
-52G1-181X1	400VAC Wassersystem	1	PE	3	1	14	=UNIT_01&EMZ++FAN/2000
-52G1-181X3		1	GND	0	0	10	=UNIT_01&EMZ++FAN/2001

previous page:
++CT+CTRL_2.1/2000

next page:
2000

Terminal diagram

Freqcon_F13_001_02

Strip

=UNIT_01++FAN+-52G1-181X1

400VAC Wassersystem

Function text	-52G1-182W1	-52G1-181W5	-52G1-181W2	Cable name	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name	++CT-181W1	Page / column
	1Z-600	1Z-600	1Z-600	Cable type							Cable type	1Z-600	
PUMP			1		-52G1-181M1	U1	1	,	++CT+CTRL_1.3-X1	1		1	&EFS++CT/181.1
=			2		-52G1-181M1	V1	2	,	++CT+CTRL_1.3-X1	2		2	&EFS++CT/181.1
=			3		-52G1-181M1	W1	3	,	++CT+CTRL_1.3-X1	3		3	&EFS++CT/181.1
FUSE FOR PUMP		1			-52G1-181R1	x1	4	,	++CT+CTRL_1.3-X1	4		4	&EFS++CT/181.3
HEATER		2			-52G1-181R1	x3	5	,	++CT+CTRL_1.3-X1	5		5	&EFS++CT/181.4
=		3			-52G1-181R1	x5	6	,	++CT+CTRL_1.3-X1	6		6	&EFS++CT/181.4
=		4			-52G1-181R1	x6	7	,	++CT+CTRL_1.3-X1	7		7	&EFS++CT/181.4
								,					
FAN 1 HEAT EXCHANGER	1				-52G1-182M1	U1	8	,	++CT+CTRL_1.3-X1	8		8	&EFS++CT/182.1
=	2				-52G1-182M1	V1	9	,	++CT+CTRL_1.3-X1	9		9	&EFS++CT/182.1
=	3				-52G1-182M1	W1	10	,	++CT+CTRL_1.3-X1	10		10	&EFS++CT/182.1
PUMP			GNYE		-52G1-181M1	PE	PE	,	++CT+CTRL_1.3-X1	PE		GNYE	&EFS++CT/181.1
HEATER		GNYE			-52G1-181R1	PE	PE	,					&EFS++CT/181.4
FAN 1 HEAT EXCHANGER	GNYE				-52G1-182M1	PE	PE	,					&EFS++CT/182.1

previous page: 1000

next page: 2001

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++FAN+-52G1-181X1	20241105_V1.2
Date	05.11.2024			Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007
Proved by							
Date							

=	UNIT_01	Converter Container 1	
&	EMZ	Terminals	
++	FAN	FAN	page: 2000
+			total: 498

Terminal diagram

Freqcon_F13_001_02

Function text			++CT-181W3	Cable name	Strip =UNIT_01++FAN+-52G1-181X3					Cable name	++CT-181W3										Page / column
			F-CY-OZ (LIY-CY)	Cable type	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	F-CY-OZ (LIY-CY)										
PRESSURE SWITCH			1		++CT+CTRL_1.3-X3	23	1	,	-52G1	1												&EFS++CT/181.7
								,														
								,														
PRESSURE SWITCH					-52G1	2	2	,	++CT+CTRL_1.3-X3	25		3										&EFS++CT/181.7
=					-52G1	3	3	,	++CT+CTRL_1.3-X3	24		2										&EFS++CT/181.7
COOLING WATER TEMPERATURE			4		++CT+CTRL_1.3-X5	23	4	,	-52G1-148B1	+												&EFS++CT/148.1
								,														
								,														
COOLING WATER TEMPERATURE			5		++CT+CTRL_1.3-X5	24	5	,	-52G1-148B1	-												&EFS++CT/148.1
PRESSURE SWITCH					-52G1	SH	GND	,														&EFS++CT/181.7
PRESSURE SWITCH					-52G1	SH	GND	,														&EFS++CT/181.7

previous page: 2000

next page: =UNIT_02&EAA++/1

Editor	Freqcon_DG			Statron	FREQCON	Klemmenplan =UNIT_01++FAN+-52G1-181X3	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMZ Terminals
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ FAN FAN page: 2001
Date								+ total: 498