BASE LOAD POWER HUB (BLPH)

"SG-200D2" LV SWBD 800V

ELECTRICAL
SINGLE LINE DIAGRAM

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
4	18/09/2024	Santinelli	Flamminio	Sigismondi	As Built (ASB)
3	08/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for Construction (AFC)
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0	15/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

DWG n° : 231298/SD/12
Item n° : PF1002669/3

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"
SINGLE LINE DIAGRAM
Cover

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00012

SHEET 001

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00012 Rev. 04

INDEX SHEETS

Sheet	Description	Revision 0	1	2	3	4	5	6	7	8	9
001	Cover	X	X	X	X	X					
002	Index	X	X	X	X	X					
003	Graphical Symbols	X	X	X	X	X					
004	Graphical Symbols	X	X	X	X	X					
005	Single Line Drawing	X	X	X	X	X					

Sheet	Description	Revision 0	1	2	3	4	5	6	7	8	9

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TITLE : "SG-200D2"

SINGLE LINE DIAGRAM

Index

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

SCALE : NTS

A3

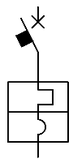
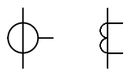
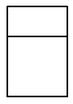
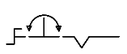
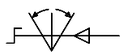
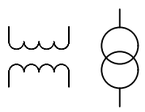
DRAWING NO. 1723002197-EL-DG-00012

SHEET 002

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00012 Rev. 04

GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION
	**CIRCUIT BREAKER WITH AUTOMATIC RELEASE**		**CAPACITOR (GENERAL SYMBOL)**		**BISTABLE RELAY**		**CHANGE-OVER BREAK BEFORE MAKE CONTACT**
	**CIRCUIT BREAKER WITH AUTOMATIC RELEASE AND BUILT-IN THERMOMAGNETIC RELEASE**		**CAPACITIVE VOLTAGE DIVIDER**		**COIL OF A MECHANICALLY LATCHED RELAY**		**DELAYED ACTION (IN THE DIRECTION OF MOVEMENT FROM THE ARC TOWARDS ITS CENTRE)**
			**CURRENT TRANSFORMER**		**INDICATOR, ELECTROMECHANICAL ELEMENT**		POSITION SWITCH (LIMIT SWITCH), MAKE CONTACT
	**SWITCH DISCONNECTOR**		RING CURRENT TRANSFORMER		**LAMP (GENERAL SYMBOL)**		**POSITION SWITCH (LIMIT SWITCH), MAKE CONTACT**
	**CONTACTOR**		**INDICATING INSTRUMENT GENERAL SYMBOL**		**SEMICONDUCTOR DIODE**		POSITION SWITCH (LIMIT SWITCH), BREAK CONTACT
	**LOCK WITH FREE KEY WHEN THE DEVICE IS IN OPEN POSITION**		**INTEGRATING INSTRUMENT (GENERAL SYMBOL)**		**LED**		**OPERATED BY TURNING**
	**LOCK WITH FREE KEY WHEN THE DEVICE IS IN CLOSE POSITION**		**DISCONNECTING FUSE, NOT WITH LIVE CIRCUIT AND WITH MECHANICAL LINKAGE (STRIKER FUSE))**		**TRANSDUCER OF ALTERNATING CURRENT MEASURE INTO DIRECT CURRENT SIGNAL**		**THREE HELD POSITIONS TURNING SWITCH**
	**PLUG AND SOCKET (MALE AND FEMALE)**		**OPERATING DEVICE (GENERAL SYMBOL)**		**EARTH, GROUND (GENERAL SYMBOL)**		**THREE POSITIONS TURNING SWITCH, WITH SPRING THROWBACK TO THE CENTRAL POSITION**
	**VOLTAGE TRANSFORMER WITH TWO WINDINGS**		**COIL OF A TIME DELAYED OPERATING RELAY**		**MAKE CONTACT**		MECHANICAL INTERLOCK BETWEEN TWO DEVICES
	**VOLTAGE TRANSFORMER WITH THREE WINDINGS**		**COIL OF A TIME DELAYED RELEASING RELAY**		**BREAK CONTACT**		

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Item n° : PF1002669/3

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE : "SG-200D2"
SINGLE LINE DIAGRAM
Graphical Symbols

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

SCALE : NTS

A3

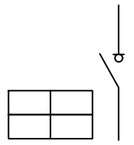
DRAWING NO. 1723002197-EL-DG-00012

SHEET 003

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00012 Rev. 04

GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION	GRAPHICAL SYMBOLS	DESCRIPTION
	RESISTOR (GENERAL SYMBOL)		AMPEROMETRIC TEST SOCKET				
	THERMISTOR (GENERAL SYMBOL)		3 PHASES LINE				
	HEATING ELEMENT		3 PHASES + NEUTRAL				
	INTERCONNECTION TERMINAL		SINGLE PHASE + NEUTRAL				
	WITHDRAWABLE TERMINAL SHORT-CIRCUITABLE ON C.T. SECONDARY CIRCUITS		CIRCUIT BREAKER SWITCH-DISCONNECTOR				
	WITHDRAWABLE TERMINAL FOR V.T. SECONDARY CIRCUITS						
	SWITCHBOARD TERMINAL	M	MOTOR FOR LOADING SPRINGS				
	ON - OFF SWITCH	YC	CLOSING COIL				
	SURGE ARRESTER	YO	OPENING COIL				
	VOLTMETRIC TEST SOCKET	YU	UNDERVOLTAGE COIL				

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IMESA ELECTRICAL ENGINEERING

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CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

SINGLE LINE DIAGRAM

Graphical Symbols

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SCALE : NTS

A3

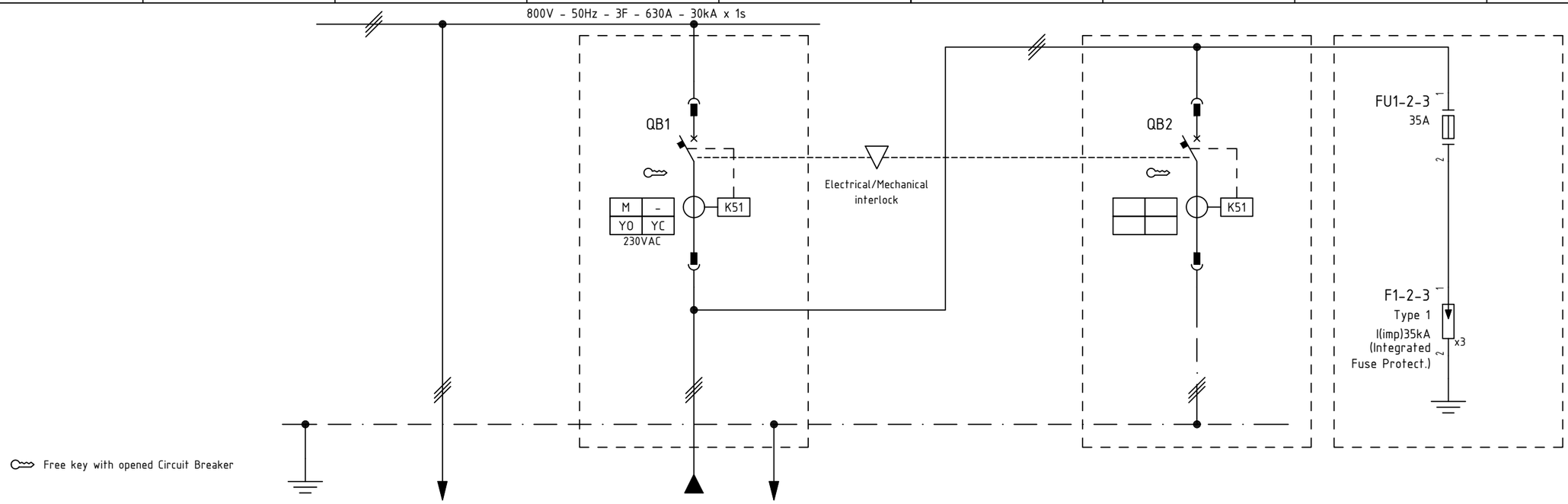
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SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00012 Rev. 04



ITEM			1	-		-			-	-	
UTILITY			2	OUTGOING		INCOMING FROM SOLAR FARM			EARTHING SWITCH	SURGE ARRESTER	
COLUMN/CUBICLE			3	CL01 / 06		CL01 / 02			CL01 / 04	CL01 / 06	
RATED POWER | RATED CURRENT			4/5	-	-	-	-		-	-	-	-	
TYPICAL FUNCTIONAL			6	-		-			-	-	
CIRCUIT BREAKER (ABB)	TYPE		7	-		E1.2N/E9-1250 3P			E1.2N/E9-1250 3P	-	
	VERSION		8	-		WITHDRAWABLE			WITHDRAWABLE	-	
	TRIP UNITS		9	-		Ekip Hi Touch LSIG = 1250A			Ekip Touch LSIG = 1250A (with Rating Plug L=OFF)	-	
	Icu	KA	10	-		35KA			35KA	-	
OVERLOAD	L	Range A	11	-		0.4 ÷ 1 In			0.4 ÷ 1 In [EXCLUDABLE]	-	
		Range t	12	-		t=k/I^2			t=k/I^2	-	
SEL. SHORT-CIRCUIT	S	Range A	13	-		0.6 ÷ 10 In			0.6 ÷ 10 In [EXCLUDABLE]	-	
		Range t	14	-		t=k / t=k/I^2			t=k / t=k/I^2	-	
INST. SHORT-CIRCUIT	I	Range A	15	-		1.5 ÷ 15 In			1.5 ÷ 15 In [EXCLUDABLE]	-	
		Range t	16	-		instantaneous			instantaneous	-	
EARTH FAULT PROTECTION	G	Range A	17	-		0.1 ÷ 1 In			-	-	
		Range t	18	-		t=k / t=k/I^2			-	-	
CONTACTOR (ABB)			19	-		-			-	-	
THERMAL OVERLOAD RELAY (ABB)			20	-		-			-	-	
SURGE ARRESTERS (DEHN)			21	-		-			-	DBM 1 CI 440 FM (961146)	
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-		-			-	-	
FUSE HOLDER (ITALWEBER)			23	-		-			-	Fuses NH-00 35A gG / 800V	
INSULATION SYSTEM (BENDER)			24	-		-			-	-	
VOLTMETER			25	-		-			-	-	
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-		-			-	-	
	PERFORMANCE/CLASS		27	-		-			-	-	
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-		-			-	-	
	PERFORMANCE/CLASS		29	-		-			-	-	
LOCK-OUT RELAY (-)			30	-		-			-	-	
POWER CONDUCTOR		mmq	31	3x(1x300)		3x(1x300)			-	-	

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IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-200D2"

SINGLE LINE DIAGRAM

Single Line Drawing

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SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00012

SHEET 005

REV. 04

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