

ACCESS TO: Front Only	PHASE: 3P4W
CLASS: 2	AMPERE: 2000A
LABEL: U/L SE	BUS MTL: Al 750A/in²
VOLTAGE: 480/277V	PLATE: Tin Plate
STYLE: ReliaGear	RATING: Fully Rated
BUS BRACING (RMS SYM):	85000A
DEV.MIN.INT.RATING (RMS SYM):	85000A

1) Center Point Energy Utility Short Circuit Letter is not available. Proceeding at EA's direction. Core States accepts no risk. EA has accepted all risk.

2) ABB shall coordinate and meet all Center Point Energy Utility requirements.

3) Center Point Energy has not reviewed and approved the SWBD. Proceeding at EA's direction. Core States accepts no risk. EA has accepted all risk

CORE STATES	
☐ No Exception Taken	☐ Rejected
☒ Make Corrections as Noted	☐ Submit Specified Item
☐ Review and Resubmit	☐ Not Reviewed

Submittal is reviewed only as to the general conformity with design concept of the project and general compliance with the information given in the contract documents. Corrections and/or comments made as part of this submittal review do not relieve the contractor of responsibility from compliance with the contract documents, applicable codes, and laws - all of which have priority over this submittal. The design professional does not warrant or represent that the information within the submittal is either accurate or complete. Approval of a specific item shall not include approval of an assembly of which the item is a component. Sole responsibility for correct design, details, and dimensions shall remain with the party providing the submittal. Contractor is responsible for all dimensions, quantities and performance requirements to be confirmed and contained at the job site; for all information that pertains solely to the fabrication processes or to techniques of construction; for all coordination of the work of all trades; for ensuring consistency with the contract documents and for performing the work in a safe and satisfactory manner.

RC 29 July 2022
APPROVED AS NOTED
 Notes 1, 2, 3, 4, 5, 6, 7A, 7B

SwitchBoard / Device Information

Circuit No.	Device	Trip Amps	Sensor Amps	Poles	Nameplates	Lugs/Cable Size	Notes
1	FBN6	15	-	1		(1) - #14 - #10 AWG CU - Mech. AL	
2	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	16,17,18
3	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	16,17,18
4	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	16,17,18
5	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	16,17,18
6	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	16,17,18
7	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	16,17,18
8	FBN6	15	-	1		(1) - #14 - #10 AWG CU - Mech. AL	
Main	E2.2SF	2000	2000	3			10,11,12,13,14,15,19,20, 21,22,25,26,27,28,29,30

NOTES:

- Switchboard furnished with a rainproof **TYPE 3R** (non-walk-in) enclosure.
NOTE: See plan view for details. Need additional 1 inch space clearance on top and 1.5 inch clearance on the rear of the swbd.
- Equipment ground bus furnished with lugs.
- Switchboard qualified for Seismic Ratings per publication DET-463 and OSP-0044-10.
- Shipping splits between each section, ship each section separately.
- Switchboard furnished with **section space heaters**.
- Switchboard furnished with thermostat control for section space heaters.
- Switchboard furnished with **lightning arrestor**.
- Switchboard furnished with hinged gutter covers.
- Switchboard furnished with **fully rated panel**.
- Device is **100 percent rated**.
- Device furnished with **120V electric operator**.
- Device is furnished with **integral ground fault protection**.
- Device is furnished with **RELT (Reduced Energy Let Through)**.
- Device requires **RELT or ZSI** feature if Authority having jurisdiction has adopted NEC 2014 code requirements.
- Device Furnished with Ekip Hi-Touch (LSIG) Programmer
- Device Furnished with **(1) Open/close 250V AC/DC Auxiliary Contact + (1) Trip Signaling 250V AC/DC Auxiliary Contact**.
- Device Furnished with PII Fixed Padlock - Open
- Device Furnished with Thermal-Magnetic Adjustable Trip.
- Device furnished with **(4Q) Auxiliary Contacts - 24V**
- Device furnished with **(YR) Remote Reset - 110V AC/DC**
- Device furnished with **(YC) Closing Coil - 110-120V AC/DC**
- Device furnished with **(YO) Opening Coil - 110-120V AC/DC**
- Estimated total factory connected wiring points for the lineup 89.
- Estimated shipping weight for the lineup is 1867 lbs.
- Device furnished with DC Supply - 24V - 48V
- Device furnished with Ekip Com Modbus TCP/IP
- Device furnished with RELT-Ekip Signalling 2K3
- Device furnished with Charging motor/Ekip com actuator - 100-130V AC
- Device furnished with Padlock in open position
- Device furnished with 1% accuracy Measuring Package
- Miscellaneous Add-Ons:

4) Provide Dual Rated CU/AL Lugs as noted on page 2

5) Set LTPU = 0.7 for 1400AT

1 MOXA UC-3111-T-US-LX-QTC-ABB, 2904-0641-001

PROJECT NAME:		 Industrial Solutions by ABB	DRAWING TITLE: Device Information	PRODUCT NAME:	DRAWING NO:
CUSTOMER:			CREATED BY:	ReliaGear Switchboard	ITEM NO:
			DATE: 07/12/2022 16:44:43		MARKS:
			REVISION NO.: 58		QUOTE NO:
					SHEET: 1 of 4

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Switchboard / Device Information

1 SOLA POWER SUPPLY

1 1KVA UPS (needs 14H cover)

1 MOXA LPS69273NT-61SMAM antenna and RG58U-12-SMSF antenna cable

1 // ADD HUMISTAT TO HEATER CIRCUIT

1 2804-0726-001 SDS-3016-2GTX

32. Due to the presence of Miscellaneous Add-Ons, please review drawings with the factory to ensure accuracy.

33. Drawing Notes:

NEMA 3R to have rearward sloping roof. Insect screens on NEMA 3R enclosure over vent openings

Switchboard Doors: Open 90 degrees, can do split doors for 35" wide and wider sections

Factory installed 120V GFI 20A receptacle, need wire rated for 20Amp, behind any NEMA 3R doors

Ekip Com to be Modbus TCP/IP over CAT 5/6 cable, feeders STA

Breaker logic needs to be outage resilient, meaning breakers need to be able to communicate

status even in the event of an outage or after opening or trip. Provide UPS to accomplish.

Use UPS for control power ride through on utility main due to reverse power shut off.

Provide dual rated CU/AL lugs on the branch breakers.

All doors to be split doors for 35" section

Depth: **2000A depth 35"**

Please consolidate all X filler to the top of the distribution panel

34. As a result of Drawing Notes, this product may require modification to reflect correct footprint, price, cycle or UL certification.

PROJECT NAME :

CUSTOMER:



Industrial
Solutions **by ABB**

DRAWING TITLE: Device
Information

CREATED BY:

DATE: 07/12/2022 16:44:43

REVISION NO.: 58

PRODUCT NAME:

ReliaGear
Switchboard

DRAWING NO:

ITEM NO:

MARKS:

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SHEET:

2 of 4

The diagram shows the front view of a 1066 lbs (Est.) cabinet. The overall width is 70 inches, divided into three sections: 35 inches on the left, 70 inches in the center, and 35 inches on the right. The overall height is 90 inches. The cabinet features a central BUS BACK and a HINGED door on the left. Internal components include a Heater Control, Power Supply Plate, Control Power Transformer, E2.28F 2000A, and Main. The cabinet is labeled with UL, SE, and UL at the top. The bottom section is labeled RG1S and 40X. The weight is indicated as 1066 lbs (Est.) and 737 lbs (Est.).

Section	Component	Height (in)	Weight (lbs)
Top	Heater Control	14	
Top	Power Supply Plate	8	
Top	Control Power Transformer	8	
Top	E2.28F 2000A	8	
Top	Main	24	
Bottom	RG1S	16	
Bottom	40X	16	

1066 lbs (Est.) 737 lbs (Est.)

FRONT VIEW



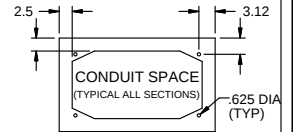
PROJECT NAME :
[REDACTED]
CUSTOMER:
[REDACTED]



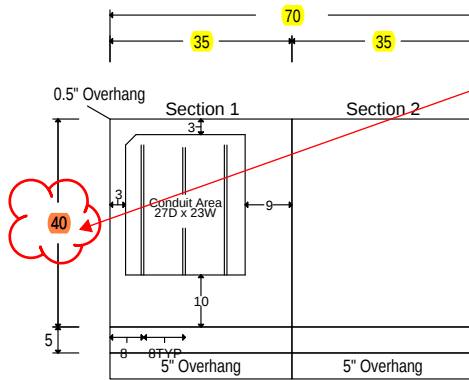
PRODUCT NAME:
**ReliaGear
Switchboard**

W2 Date:7/23/2022 9:03:05 PM

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Top Conduit Area

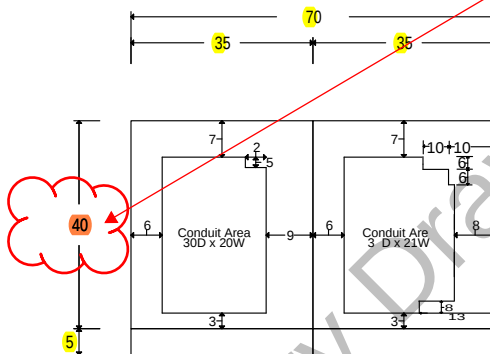


7A) SWBD
Depth shall
be 30" as
noted on
page 2. Total
depth shall
be 35"

Front Plan View

7B) SWBD
Depth shall
be 30" as
noted on
page 2. Total
depth shall
be 35"

Bottom Conduit Area



Front Plan View

PROJECT NAME :

CUSTOMER:



Industrial
Solutions by ABB

DRAWING TITLE: Conduit View

CREATED BY:

DATE: 07/12/2022 16:44:43

REVISION NO.: 58

PRODUCT NAME:

ReliaGear
Switchboard

DRAWING NO:

ITEM NO: 1

MARKS:

QUOTE NO:

SHEET: 4 of 4