

ACCESS TO: Front Only	PHASE: 3P4W	
CLASS: 2	AMPERE: 2000A	CODE: SD PT COMPT
LABEL: U/L SE	BUS MTL: Al 750A/in ²	UTILITY PER EUSERC PG. SG 517.15 & SG 517.16
VOLTAGE: 480/277V	PLATE: Tin Plate	METER PER EUSERC PG. SG 517.8 & SG 517.9
STYLE: ReliaGear	RATING: Fully Rated	UGPS PER PG 708, 708.1
BUS BRACING (RMS SYM): 65000A		LUG LANDING PER 706, 706.1
DEV.MIN.INT.RATING (RMS SYM): 65000A		

SwitchBoard / Device Information

Circuit No.	Device	Trip Amps	Sensor Amps	Poles	Nameplates	Lugs/Cable Size	Notes
1	XT1H	15	-	3		(1) - #10 - 2/0 AWG CU - Mech. AL	23,26
2	XT5H	600	600	3		(2) - 2/0 - 500 MCM AL - Mech. AL	19,21,22,23
3	XT5H	600	600	3		(2) - 2/0 - 500 MCM AL - Mech. AL	19,21,22,23
4	XT7H	1000	1200	3		(4) - 4/0 - 500 MCM AL - Mech. AL	14,16,20,23,24,25,27
5	XT5H	600	600	3		(2) - 2/0 - 500 MCM AL - Mech. AL	19,21,22,23
6	XT5H	600	600	3		(2) - 2/0 - 500 MCM AL - Mech. AL	19,21,22,23
7	XT5H	600	600	3		(2) - 2/0 - 500 MCM AL - Mech. AL	19,21,22,23
8	FBN6	15	-	2		(1) - #14 - #10 AWG CU - Mech. AL	17
9	FBN6	15	-	1		(1) - #14 - #10 AWG CU - Mech. AL	17
Main	E2.2SF	2000	2000	3			12,13,14,15,18,20,28,29,30,31,34,35,36,37,38,39

- 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.
 - 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.
 - EUSERC utility section(s) furnished with handles and sealing provisions per EUSERC specifications.
 - INSTALLATION NOTE: Caution: If switchboard is installed on a housekeeping slab greater than 2-1/2" the meter may be over the 6'3" maximum allowable meter height. Consult Utility if you need more information.
 - Shipping splits as indicated, ship sections separated and joined as indicated.
 - 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).
 - 4 wire GROUND FAULT Load.
 - Device furnished with padlocking provisions
 - Device requires RELT or ZSI feature if Authority having jurisdiction has adopted NEC 2014 code requirements.
 - Device Furnished with Ekip Touch (LSI) Programmer.
 - 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 Ekip Com Modbus RTU
 - Device Furnished with PII Fixed Padlock - Open
 - Device Furnished with Shunt Trip - 110-120V AC/DC
 - Device Furnished with 110-125V AC/DC motor operator
 - Device Furnished with Thermal-Magnetic Fixed Trip.
 - Device furnished with (4Q) Auxiliary Contacts - 24V
 - Device furnished with (YR) Remote Reset - 110V AC/DC

PROJECT NAME :

CUSTOMER:



Industrial
Solutions by ABB

DRAWING TITLE: Device Information

CREATED BY:

DATE: 03/02/2021 19:13:55

REVISION NO.: 58

PRODUCT NAME:

ReliaGear
Switchboard

DRAWING NO:

ITEM NO: 54

MARKS:

QUOTE NO:

SHEET: 1 of 4

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Switchboard / Device Information

NOTES: (continued)

30. Device furnished with (YC) Closing Coil - 110-120V AC/DC
31. Device furnished with (YO) Opening Coil - 110-120V AC/DC
32. Estimated total factory connected wiring points for the lineup 95.
33. Estimated shipping weight for the lineup is 3053 lbs.
34. Device furnished with DC Supply - 24V - 48V
35. Device furnished with Ekip Com Modbus TCP/IP
36. Device furnished with RELT-Ekip Signalling 2K3
37. Device furnished with Charging motor/Ekip com actuator - 100-130V AC
38. Device furnished with Padlock in open position
39. Device furnished with 1% accuracy Measuring Package
40. Miscellaneous Add-Ons:

3 Current Transformer (CT) 2000:5A (Non Revenue Grade)

3 Potential Transformer (PT) (.6% Accuracy) (Single PT) (Component Only)

1 MOXA UC-3111-T-US-LX-QTC-ABB

1 SOLA POWER SUPPLY

1 1KVA UPS (needs 14H cover)

1 Basler 32R relay BE1-32RD1EE1PA0S0F

2 Upsize to 3000A phase bus

2 Upsize to 3000A neutral bus

1 MOXA LPS69273NT-61SMAM antenna and RG58U-4-SMSF antenna cable

1 // ADD HUMISTAT TO HEATER CIRCUIT

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

42. 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

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.

Reverse power via relay when battery breaker in scope.

Battery back feed breaker with GF to be at end of bus, opposite end from utility main

XT7M to be 1200Amp frame with a 1000Amp rating plug

Battery Breaker: LSIG branch breaker to be XT7M with ability to remotely operate

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

All doors to be split doors

Width: 2000A main breaker section 30" wide when combined with utility doors, else 35"

Depth: 2000A depth 35"

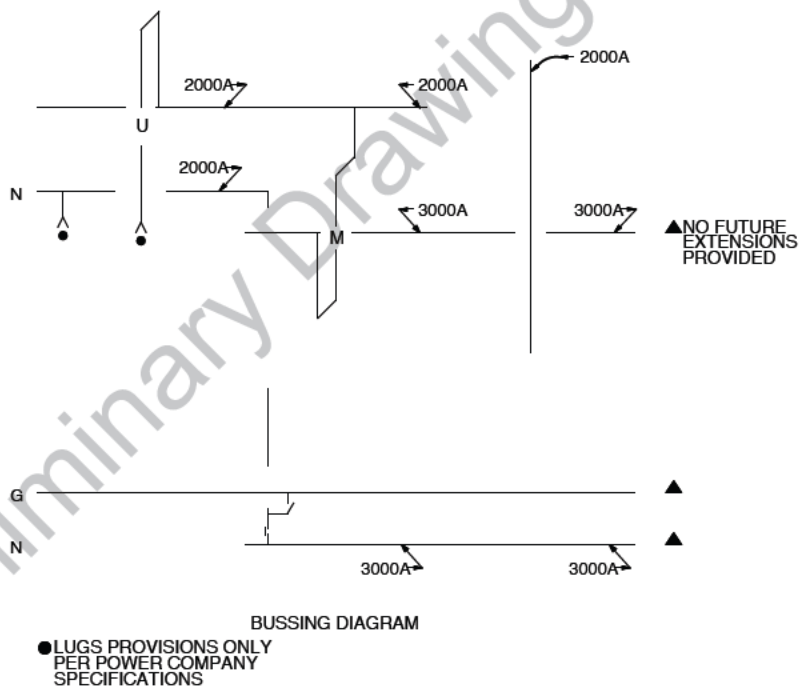
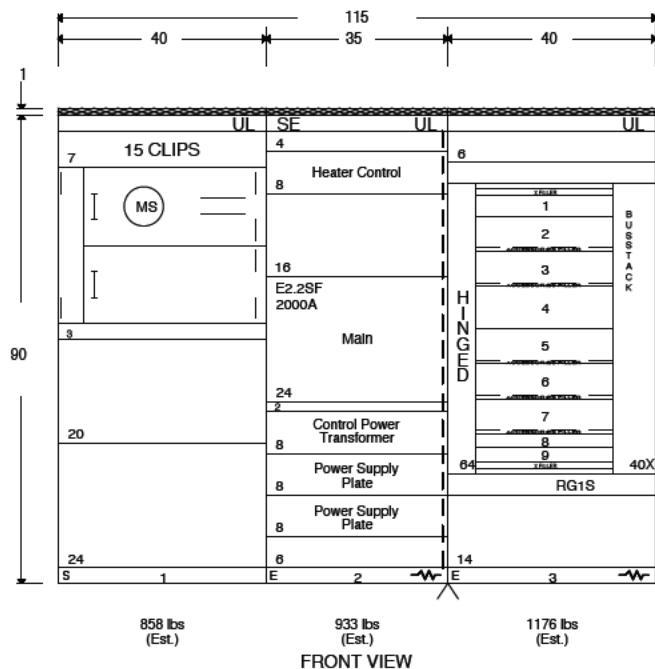
Horizontal and neutral bus to be 3000A for 2000A Main breaker

Add (1) 15Amp 1pole breaker to the distribution panel, for a total of (2) 15 Amp 1pole

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

PROJECT NAME : [REDACTED]	 Industrial Solutions by ABB	DRAWING TITLE: Device Information	PRODUCT NAME:	DRAWING NO:
CUSTOMER: [REDACTED]		CREATED BY: [REDACTED]	ReliaGear	ITEM NO: 54
		DATE: 03/02/2021 19:13:55	Switchboard	MARKS: [REDACTED]
		REVISION NO.: 58		QUOTE NO: [REDACTED]
				SHEET: 2 of 4

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PROJECT NAME :
 CUSTOMER:

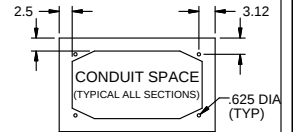


DRAWING TITLE: Front View/
 Bussing
 CREATED BY:
 DATE: 03/02/2021 19:13:55
 REVISION NO.: 58

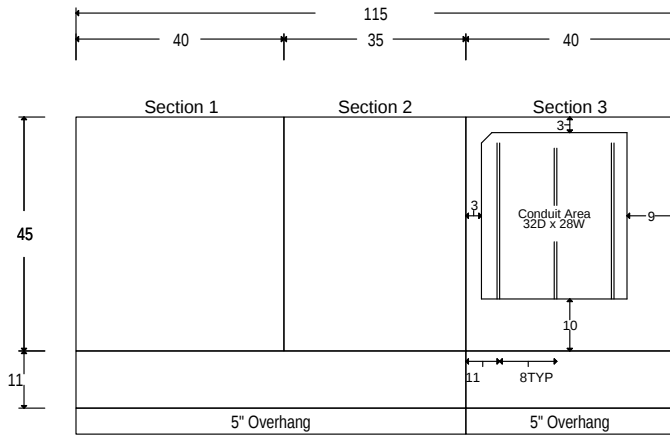
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 ReliaGear
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DRAWING NO:
 ITEM NO: 54
 MARKS:
 QUOTE NO:
 SHEET: 3 of 4

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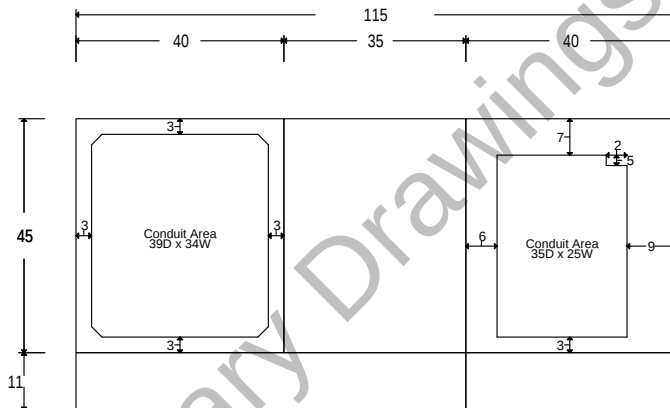


Top Conduit Area



Front Plan View

Bottom Conduit Area



Front Plan View

PROJECT NAME :

CUSTOMER:



Industrial
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DRAWING TITLE: Conduit View

CREATED BY:

DATE: 03/02/2021 19:13:55

REVISION NO.: 58

PRODUCT NAME:

ReliaGear
Switchboard

DRAWING NO:

ITEM NO: 54

MARKS:

QUOTE NO:

SHEET: 4 of 4