

Bill of Material(s)

Item No.	Quantity	Description
1	1	Switchboard, ReliaGear AV2
		4 Section(s) Service Entrance
		Estimated Shipping Weight:3832 lbs
1		Service Entrance Labeling
		3P4W/480/277V/60Hz
		2500A 65 kAIC Fully Rated
		Incoming Feed: Bottom
		Incoming Left Feeding Right
		Type 3R (non-walk-in) Enclosure
		Front/Rear Lineup
		Front Only Access
		Full Height Panel Bus Option
1		Hinged Wire Gutter Cover
1		ReliaGear Switchboard Lineup
		Estimated total factory connected wiring points for the lineup 54
1		Utility Termination Compartment Section 40W 40D 90H (Est.) lbs 711
1		Hot Utility Section 40W 40D 90H (Est.) lbs 1015
1		Evolution Main Section 35W 40D 90H (Est.) lbs 946
1		Group Mounted Feeder ReliaGear Panel Section 40W 40D 90H (Est.) lbs 1100
4		Bus Bracing 65000 AIC
3		Spectra - Fully Rated Aluminum Bus 750 A/Sq. in.
3		Evolution - Fully Rated Aluminum Bus 750 A/Sq. in.
4		Ground: Equipment U/L With Lugs
4		Seismic Rating
1		Lightning Arrestor
3		Space Heater 120 Volt
3		Full Height Side Barriers
		Utility
1		2500A Utility Compartment - PENN. POWER AND LIGHT PA.
		Main Breaker
1		2500A 3 Pole E4.2SF 100% Rated (2500A Frame) Indiv. Mtd. Main
		Manually Operated MAIN
		Programmer(EKIP Touch)
		LSIG
1		RELT
1		RELT-EKIP SIGNALLING 2K3
1		DC SUPPLY - 24V - 48V
1		(4Q) AUXILIARY CONTACTS - 400V
1		(YC) CLOSING COIL - 110-120V AC/DC
1		(YO) OPENING COIL - 110-120V AC/DC
1		PADLOCK IN OPEN POSITION
		Feeders
1		800A 3 Pole XT7H800 SPACE
1		Manually Operated
		Programmer (EKIP Touch)
		LSIG
5		600A 3 Pole XT5H600 (600A Frame)
5		Manually Operated
		Programmer (TMA/TMD) LI
5		PLL FIXED PADLOCK - OPEN
10		Mechanical AL Load Lugs

Bill of Material(s)

Item No.	Quantity	Description
	2	15A 1 Pole FBN6 (100A Frame)
	2	Manually Operated Programmer (None)
	2	Mechanical AL Load Lugs
		Monitoring/Control Devices
	1	Power Supply Plate - 10A
	1	Power Supply Plate
	1	Thermostat Control
	1	Control Power Transformer (Section Heater)
	1	Humidistat Control
	1	Control Power Transformer
		Others
	9	Engraved Nameplates
	9	Screw-On Nameplates
		Others
	1	Lifting Brackets
	1	Reliagear (C/B feeders only) 40X Bus Stack
	10	Neutral Lugs
	2	Neutral Lugs
	1	Bonding Jumper
	22	Equipment Ground Lugs
	1	Ground Lug
		Miscellaneous Add Ons:
	1	NEMA 3R Control Power XFMR 3kVA for 15A Receptacles (Old NEMA 3R Design Required) (Refer to Factory For Sizing) (Per Receptacle)
	3	Upsize to 3000A phase bus
	3	Upsize to 3000A neutral bus

ACCESS TO: Front Only	PHASE: 3P4W	
CLASS: 2	AMPERE: 2500A	
LABEL: U/L SE	BUS MTL: Al 750A/in ²	
VOLTAGE: 480/277V	PLATE: Tin Plate	
STYLE: ReliaGear	RATING: Fully Rated	
BUS BRACING (RMS SYM):	85000A	
DEV.MIN.INT.RATING (RMS SYM):	85000A	
C/T TYPE Window		
P/T TYPE STANDARD		
PER GE DWG 75C143992 PV19		
PER PWR CO SPEC. 75C323047A SH. 1		

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	19,20
3	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	19,20
4	XT7H	800	800	3	(SPACE AND BUS)	(4) - 4/0 - 500 MCM AL - Mech. AL	13,15,17,18
5	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	19,20
6	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	19,20
7	XT5H	600	-	3		(2) - 300 - 500 MCM AL - Mech. AL	19,20
8	FBN6	15	-	1		(1) - #14 - #10 AWG CU - Mech. AL	
Main	E4.2SF	2500	2500	3			12,13,14,16,18,21,22,23,26,27,28

NOTES:

1. 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.
2. Equipment ground bus furnished with lugs.
3. Switchboard qualified for Seismic Ratings per publication 1VAL0001-DTA and OSP-0044-10.
4. Shipping splits between each section, ship each section separately.
5. Switchboard furnished with section space heaters.
6. Switchboard furnished with thermostat control for section space heaters.
7. Switchboard furnished with lightning arrestor.
8. Switchboard furnished with hinged gutter covers.
9. Switchboard furnished with full height vertical bus for distribution sections.
10. Switchboard furnished with fully rated panel.
11. Switchboard furnished with Humidistat for section space heaters.
12. Device is 100 percent rated.
13. Device is furnished with integral ground fault protection.
14. Device is furnished with RELT (Reduced Energy Let Through).
15. 3 wire GROUND FAULT Load.
16. Device requires RELT or ZSI feature if Authority having jurisdiction has adopted NEC 2014 code requirements.
17. Lugs not furnished with SPACE AND BUS.
18. Device Furnished with Ekip Touch (LSIG) Programmer.
19. Device Furnished with PII Fixed Padlock - Open
20. Device Furnished with Thermal-Magnetic Adjustable Trip.
21. Device furnished with (4Q) Auxiliary Contacts - 400V
22. Device furnished with (YC) Closing Coil - 110-120V AC/DC
23. Device furnished with (YO) Opening Coil - 110-120V AC/DC
24. Estimated total factory connected wiring points for the lineup 54.
25. Estimated shipping weight for the lineup is 3832 lbs.
26. Device furnished with DC Supply - 24V - 48V
27. Device furnished with RELT-Ekip Signalling 2K3
28. Device furnished with Padlock in open position
29. Miscellaneous Add-Ons:
1 NEMA 3R Control Power XFMR 3kVA for 15A Receptacles (Old NEMA 3R Design Required) (Refer to Factory For Sizing) (Per Receptacle)
- 3 Upsize to 3000A phase bus
- 3 Upsize to 3000A neutral bus
30. Due to the presence of Miscellaneous Add-Ons, please review drawings with the factory to ensure accuracy.
31. Drawing Notes:
NEMA 3R to have rearward sloping roof. Insect screens on NEMA 3R enclosure over vent openings



DRAWING TITLE: Device Information	PRODUCT NAME: ReliaGear Switchboard	DRAWING NO: 1
CREATED BY:	MARKS:	ITEM NO:
DATE: 8/20/2024	QUOTE NO:	MARKS:
REVISION NO.: 76	SHEET: 1 of 4	

ACCESS TO: Front Only	PHASE: 3P4W	
CLASS: 2	AMPERE: 2500A	
LABEL: U/L SE	BUS MTL: Al 750A/in ²	CODE PL
VOLTAGE: 480/277V	PLATE: Tin Plate	C/T TYPE Window
STYLE: ReliaGear	RATING: Fully Rated	P/T TYPE STANDARD
BUS BRACING (RMS SYM):	65000A	PER GE DWG 75C143992 PV19
DEV.MIN.INT.RATING (RMS SYM):	65000A	PER PWR CO SPEC. 75C323047A SH. 1

Switchboard / Device Information

Switchboard Doors: Open 90 degrees, can do split doors for 35" wide and wider sections
All doors to be split doors
Factory installed 120V GFI 20A receptacle, need wire rated for 20Amp, behind any NEMA 3R doors
Provide dual rated CU/AL lugs on the branch breakers
Main breaker shunt trip to be wired

Horizontal and neutral bus to be 3000A for 2500A Main breaker
30. As a result of Drawing Notes, this product may require modification to reflect correct footprint, price, cycle or UL certification.

PROJECT NAME :
CUSTOMER:



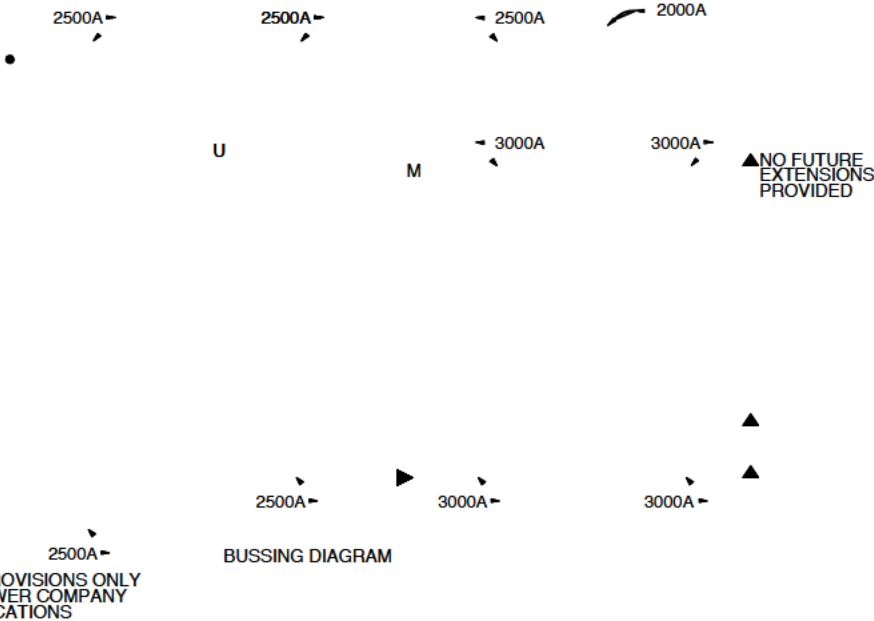
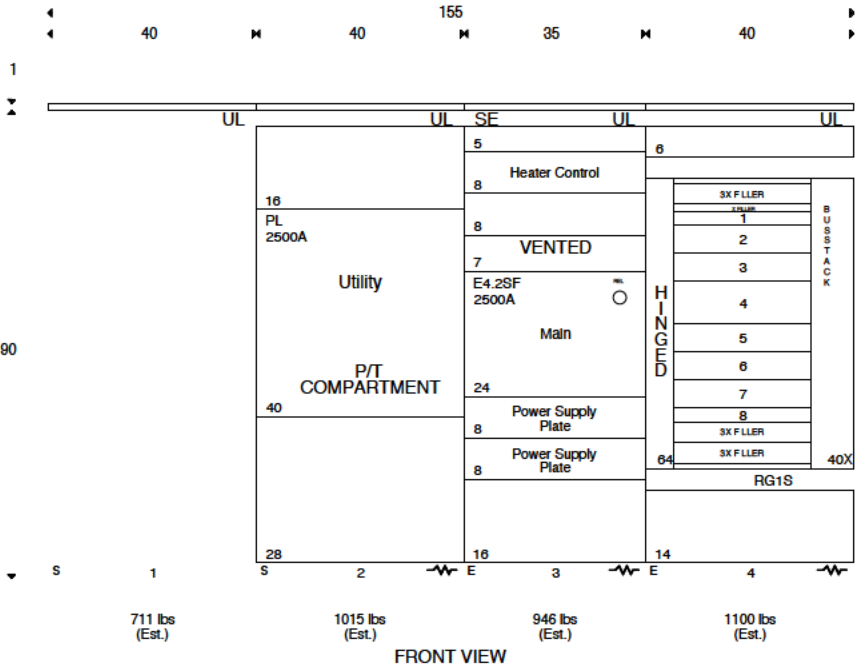
DRAWING TITLE: Device Information
CREATED BY:
DATE: 8/20/2024
REVISION NO.:
PRODUCT NAME: ReliaGear Switchboard

DRAWING NO:
ITEM NO:
MARKS:
QUOTE NO:
SHEET: 2 of 4

ACCESS TO: Front Only
CLASS: 2
LABEL: U/L SE
VOLTAGE: 480/277V
STYLE: ReliaGear
BUS BRACING (RMS SYM):
DEV.MIN.INT.RATING (RMS SYM):

PHASE: 3P4W
AMPERE: 2500A
BUS MTL: Al 750A/in²
PLATE: Tin Plate
RATING: Fully Rated
85000A
85000A

CODE PL
C/T TYPE Window
P/T TYPE STANDARD
PER GE DWG 75C143992 PV19
PER PWR CO SPEC. 75C323047A SH. 1



● LUGS PROVISIONS ONLY
PER POWER COMPANY
SPECIFICATIONS

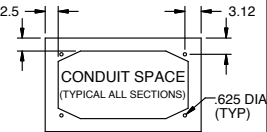


DRAWING TITLE: Front View/
Bussing
CREATED BY: Snider, Toni
DATE: 8/20/2024
REVISION NO.: 76

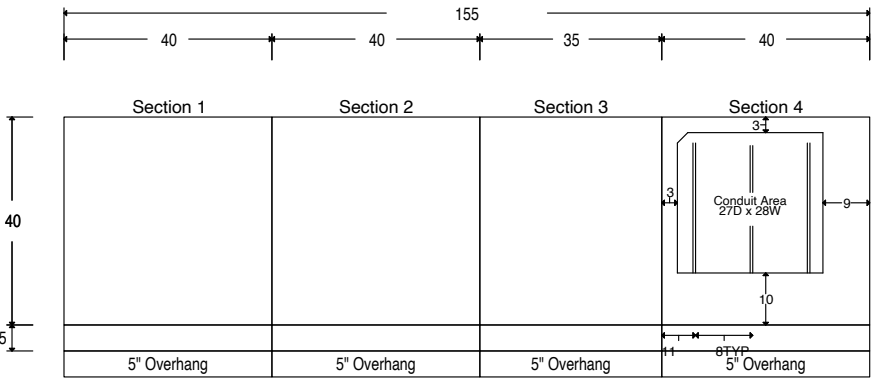
PRODUCT NAME:
ReliaGear
Switchboard

DRAWING NO:
ITEM NO: 1
MARKS: PA240389 MECHANICSBU
QUOTE NO: U72-00047349
SHEET: 3 of 4

ACCESS TO: Front Only	PHASE: 3P4W	
CLASS: 2	AMPERE: 2500A	CODE PL
LABEL: U/L SE	BUS MTL: Al 750A/in ²	C/T TYPE Window
VOLTAGE: 480/277V	PLATE: Tin Plate	P/T TYPE STANDARD
STYLE: ReliaGear	RATING: Fully Rated	PER GE DWG 75C143992 PV19
BUS BRACING (RMS SYM):	65000A	PER PWR CO SPEC. 75C323047A SH. 1
DEV.MIN.INT.RATING (RMS SYM):	65000A	

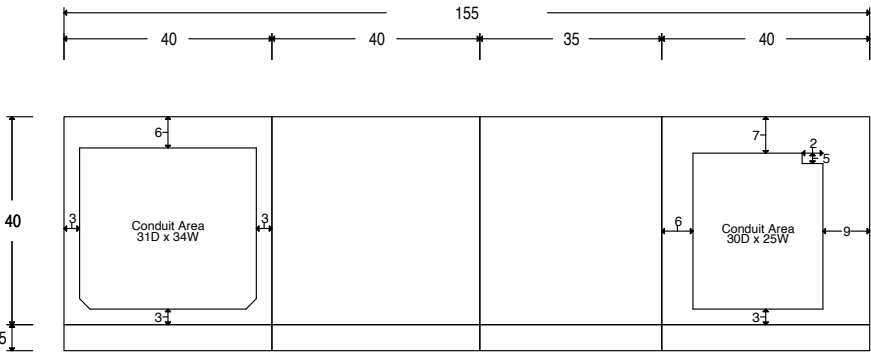


Top Conduit Area



Front Plan View

Bottom Conduit Area



Front Plan View

PROJECT NAME : [REDACTED]		DRAWING TITLE: Conduit View	PRODUCT NAME:	DRAWING NO:
CUSTOMER: [REDACTED]		CREATED BY: [REDACTED]	ReliaGear	ITEM NO: 1
		DATE: 8/20/2024	Switchboard	MARKS: [REDACTED]
		REVISION NO.: 76		QUOTE NO: [REDACTED]
				SHEET: 4 of 4