Life Is On Schneider Electric

GraybaR
works to your advantage

Prepared By:
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Proposal Name: ROOSEVELT E.S.

Quote Name: ROOSEVELT E.S.

Proposal Number: P-240109-4208838

Quote Number: Q-4656526

Quote Date: 02/01/2024

Through Addenda Number: 0

Sales Representative: Dave Bruun

Conditions of Sale

This Quotation is subject to Coordinated Project Terms. See https://www.se.com/us/en/download/document/0100PL0043/

Quoted price in currencies other than U.S. Dollars is per the annual Schneider Electric exchange guidance. Quote is valid for 30 days. Quoted lead times are approximate and subject to change.

Schneider Electric reserves the right to amend, withdraw or otherwise alter this submission without penalty or charge as a result of any event beyond its control arising from or due to the current Covid-19 epidemic or events subsequent to this epidemic / pandemic including changes in laws, regulations, by laws or direction from a competent authority.

panel PD: provide five 50/3 circuit breakers per schedule. Contractor erroneously submitted five 20/3 breakers

DPC Engineering, Inc.
SUBMITTAL REVIEW
[X] Approved [X] Note Markings
[ ] Rejected [ ] Submit Specified Items
[ ] Resubmit [ ] See Attached Comments
Corrections or comments made on the shop drawings during this submittal review does not relieve the contractor from compliance with the requirements of the drawings and specifications. This review is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of all other trades and performing his work in a safe and satisfactory manner.
Date 2-13-24 By GM

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Seq #	Qty	Product Description
1	1	**Designation :** MS **Product Details:** 1 - Square D Standard Swbd-QED-2 Switchboard --- Square D Standard Swbd Designed and Tested in accordance with: UL 891/NATIONAL ELECTRIC CODE/NEMA PB-2 System Voltage - 480Y/277V 3Ph 4W 60Hz System Ampacity - 1600A Source Description - Single Main Bussing - Aluminum Plated w/Tin and Copper Plated w/Silver Neutral Bus - 100% Max Available Fault Current (RMS) - 65kA Installed Location: Indoor Enclosure - Type 3R Non-Walk-in Accessibility: Front Only Rodent Barrier Exterior Paint Color - ANSI 49 Ground Lug provided for each device Aluminum Ground Bus Seismic Qualified Dimensions --- 2 - 42" Wide Section(s) 1 - 36" Wide Section(s) 1 - Dimensions: 120.00" W X 35.5" D X 91.5"H 3 - 35.5" Deep Enclosure(s) Approximate Weight: 2882.00 lbs / 1307.28 kgs Incoming Requirements --- Suitable for Use As Service Entrance Entry Point: Left of Lineup, Through the Bottom Connection Type: Cable Reverse Feed Hot Sequence Utility: Pacific Gas & Electric (CA) Standard Door Pattern 1-30in Door, 2 Sockets Mains --- 1 - 1600AS/1600AT 480V 100% Rated 65 kA 3 Pole UL, Fixed Mounted Electronic Trip Circuit Breaker: Type RK Power Trip Unit, Long Time, Short Time, Instantaneous, Ground Fault Padlock Attachment Energy Reduction Maintenance Switch Feeders --- 2 - 300AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Basic Electronic Trip Circuit Breaker: Type MJ 1 - 350AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Basic Electronic Trip Circuit Breaker: Type MJ Lug Kit AL800P6K 3 - 400AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Basic Electronic Trip Circuit Breaker: Type MJ Lug Kit AL800P6K 2 - 20AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ 1 - 30AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit

Breaker: Type BJ
3 - 100AT 480V 80% Rated 3 Pole UL, Group Mounted Thermal Magnetic Prepared
Space: Type BJ
1 - 100AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ
1 - 40AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ
1 - 15AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ

Seq #	Qty	Product Description
2	1	**Designation :** 400AMP DISC. **Product Details:** HU365R-SWITCH NONFUSIBLE HD 600V 400A 3P NEMA3R

Seq #	Qty	Product Description
3	1	**Designation :** TDP **Product Details:** 1 - EX225T3H-Transformer Dry Type 225kvVA 480D208Y Transformer Type: DOE 2016 EX or EXN Transformer Rating: 225kVA Transformer Phase: Three Phase Primary Voltage: 480V Delta Secondary Voltage: 208Y/120V Transformer Taps: 6 - 2.5% 2+4- Taps Frequency: 60Hz Transformer Winding Material: Aluminum Sound Level: 49DB Insulation & Temperature: Class 220 (H), 150 Deg C Enclosure Material: Standard Painted ANSI 49 Grey Enclosure Type: Type 1 UL Labeled 1 - 7400WS25J-WEATHERSHIELD CONVERT 25J TO TYPE 3R

Seq #	Qty	Product Description
4	1	**Designation :** PD **Product Details:** 1 - NF MB Panel (INTERIOR)-NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 400A/3P LA Circuit Breaker Incoming Conductors: 1 - #1 - 600,(2)#1 - 250 kcml AL Ground Bar Bus: 400A Rated Copper: Silver/Tin Plated 42 Circuit Interior Type 3R/5/12Box: 86H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH86WP Ref. Drawing: PBA555 Feeders: 1 - Sub-Feed One: 250A/3P JD 5 - 20A/3P EDB Optional Features: Standard Panel (Box Ahead),Seismic Qualification - IBC/ASCE7/CBC/NBCC,Standard Solid Neutral,Standard Ground Bar Branch User Placement 1 - MH86WP-PNLBD ENCLOSURE/BOX T-3R/12 86H 20W

Seq #	Qty	Product Description
5	1	**Designation :** PB **Product Details:** 1 - NF MB Panel (INTERIOR)-NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 300A/3P LA Circuit Breaker Incoming Conductors: 1 - #1 - 600,(2)#1 - 250 kcml AL Ground Bar Bus: 400A Rated Copper: Silver/Tin Plated 42 Circuit Interior Type 3R/5/12Box: 68H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH68WP Ref. Drawing: PBA555 Feeders: 6 - 50A/3P EDB 1 - 90A/3P EDB Optional Features: Standard Panel (Box Ahead),Seismic Qualification - IBC/ASCE7/CBC/NBCC,Standard Solid Neutral,Standard Ground Bar Branch User Placement 1 - MH68WP-PANELBOARD ENCL/BOX TYPE 3R/12 68H 20W

Seq #	Qty	Product Description
6	1	**Designation :** PE **Product Details:** 1 - NF MB Panel (INTERIOR)-NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 90A/3P HD Circuit Breaker Incoming Conductors: 1 - #14 - 3/0 AWG AL Ground Bar Bus: 125A Rated Copper: Silver/Tin Plated 42 Circuit Interior Type 3R/5/12Box: 50H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH50WP Ref. Drawing: PBA555 Feeders: 2 - 50A/3P EDB Optional Features: Standard Panel (Box Ahead),Seismic Qualification - IBC/ASCE7/CBC/NBCC,Standard Solid Neutral,Standard Ground Bar Branch User Placement 1 - MH50WP-PANELBOARD ENCL/BOX TYPE 3R/12 50H 20W

Seq #	Qty	Product Description
7	1	**Designation :** PC **Product Details:** 1 - NF MB Panel (INTERIOR)-NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 250A/3P JD Circuit Breaker Incoming Conductors: 1 - 3/0 - 350 kcmil AL Ground Bar Bus: 250A Rated Copper: Silver/Tin Plated 42 Circuit Interior Type 3R/5/12Box: 56H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH56WP Ref. Drawing: PBA555

Feeders:
5 - 50A/3P EDB
1 - 40A/2P EDB
Optional Features:
Standard Panel (Box Ahead),Seismic
Qualification -
IBC/ASCE7/CBC/NBCC,Standard Solid
Neutral,Standard Ground Bar
1 - MH56WP-PANELBOARD ENCL/BOX TYPE 3R/12 56H 20W

Seq #	Qty	Product Description
8	1	**Designation :** **Product Details:** AL800P6K-CIRCUIT BREAKER MECHANICAL LUG KIT 3

Seq #	Qty	Product Description
9	1	**Designation :** DP **Product Details:** 1 - I-Line MB Panel (INTERIOR)-I-Line Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 800AS/800AT/3P MG Circuit Breaker 80% Rated Main Trip Function: LI Main Trip Unit: Standard Trip Unit Incoming Conductors: 1 - (3) 3/0 - 500 kcmil AL Ground Bar Bus: 800A Rated Copper: Tin Plated 36" of Mounting Inches Type 3R/5/12Box: 68H x 42W x 12.95D Incoming: Bottom Trim w/ Box Box Cat No: HC4268WP Ref. Drawing PBA412 Type: HCP Feeders: 1 - 400A/3P LA 5 - 100A/2P QB Optional Features: Standard Panel (Box Ahead),Seismic Qualification - IBC/ASCE7/CBC/NBCC,Standard Solid Neutral,Standard Ground Bar,Standard Mains and Feeders Mechanically Restrained 1 - HC4268WP-PNLBD ENCLOSURE/BOX T-3R/12 68H 42W

Seq #	Qty	Product Description
10	1	**Designation :** DP1 **Product Details:** 1 - NQ ML Panel (INTERIOR)-NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Main Lug Only: 400A Incoming Conductors: 1 - 1/0 - 750, (2) 1/0 - 350 kcmil AL Ground Bar Bus: 400A Rated Aluminum: Tin Plated 30 Circuit Interior Type 3R/5/12Box: 50H x 20W x 6.5D Incoming: Bottom Trim w/ Box Box Cat No: MH50WP Ref. Drawing: PBA711 Feeders: 5 - 100A/2P QOB Optional Features: Standard Panel (Box Ahead),Seismic Qualification - IBC/ASCE7/CBC/NBCC,Standard Solid

Neutral,Standard Ground Bar
1 - MH50WP-PANELBOARD ENCL/BOX TYPE 3R/12 50H 20W

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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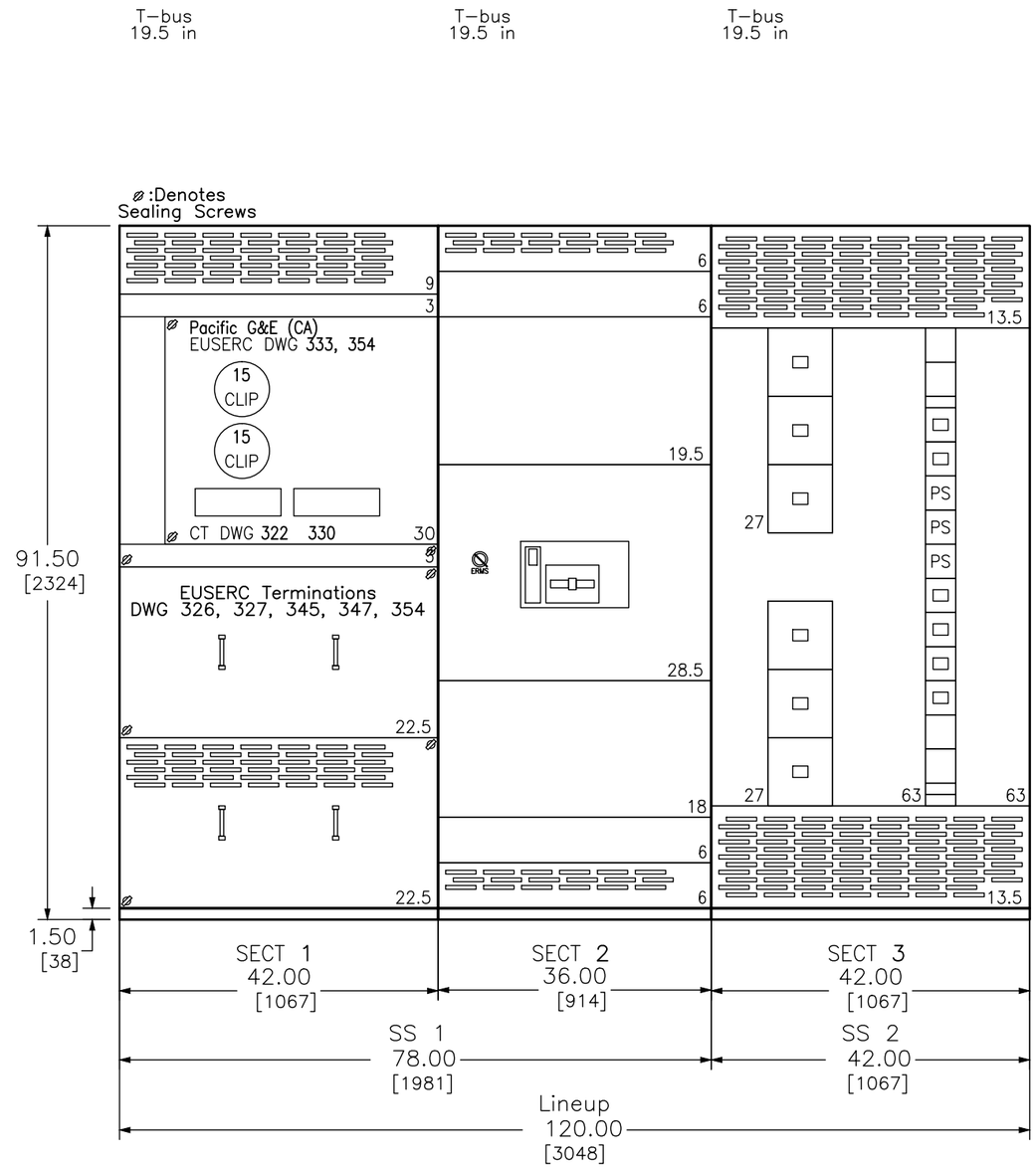

SWITCHBOARD GENERAL NOTES

PRODUCT DESCRIPTION & RATINGS

Power System Data

480Y/277V 3Ph 4W 60Hz / 3 Phase Wye
Solidly Grounded
System Short Circuit Current Rating: 65kA RMS
Incoming Section 1 Cable Through the Bottom Left of Lineup

Bus System Data

1600A Tin/Aluminum & Silver/Copper Main Bus
(4) .25x2.00 IN/6x51 mm Al Bus Bar Per Phase/Neutral
(1) .25x1.50 IN/6x38 mm Al Ground Bus

Enclosure Data

Type 3R Free Standing
Exterior Paint Color: ANSI 49
Front Accessibility Only Required
Handling: Rollers
Rodent barriers
1.5H Corrosion Resist Base Channels
Base channels cannot be removed from EUSERC switchboard line–ups
Utility sealing hardware installed for unmetered bus compartments

Estimated Shipping Weight

Shipping Split 1 1676.00 lbs / 760.23 kgs
Shipping Split 2 1206.00 lbs / 547.04 kgs
Complete Lineup 2882.00 lbs / 1307.28 kgs

Code Standards

U.L. Deadfront and suitable for use as Service Entrance
when not more than six (6) disconnecting means are provided.

Rating Nameplates

ST1– Deadfront – Section Bus 1600A
ST2– Service Entrance – Section Bus 1600A
ST3– Deadfront – Section Bus 1600A

PRODUCT INFORMATION

Wiring

All wiring to be Machine Tool Wire type

Instruction Bulletins

Reference 80043–055 For Handling, Installation,
Anchoring, Inspection And Maintenance Information

Product Accessories/Options

Seismic Qualified
24V Trip Unit Display Power
Locally Mounted ERMS Switch

DUAL DIMENSIONS: INCHES
MILLIMETERS

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	**MS**
JOB LOCATION:		EQUIPMENT TYPE:	QED–2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	GENERAL NOTES
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# **FQ–4656526–136243668–01**	PG 1 OF 2 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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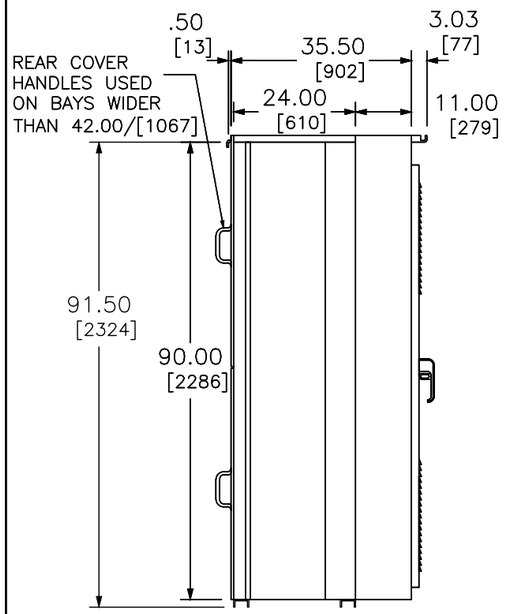
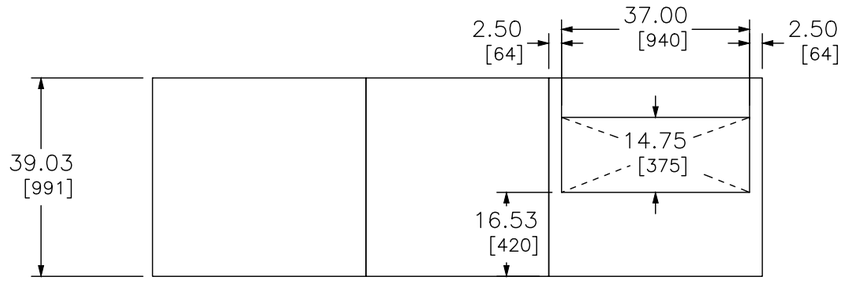
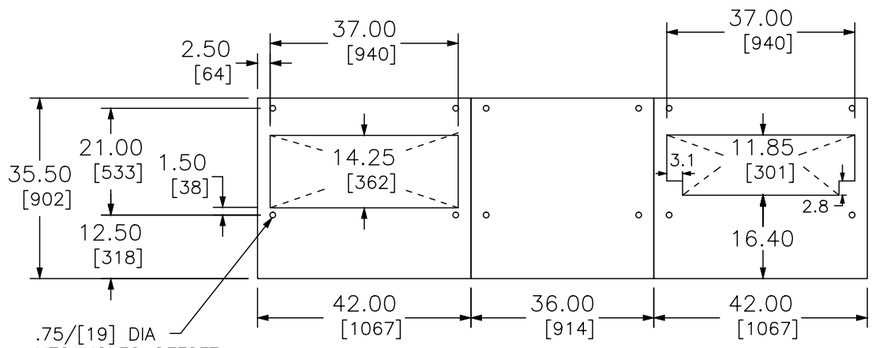


LEFT SIDE VIEW



TOP VIEW – FRONT



FLOOR PLAN – FRONT

NOTE:
A MINIMUM OF 2.00/[51] CLEARANCE BEHIND THE SWITCHBOARD IS REQUIRED FOR TOP COVER OVERHANG.

NOTE: ALL DEVICES REQUIRING DRILLING OR INSERTION IN MOUNTING PAD SUCH AS CONDUIT, ANCHORING STUDS, SLEEVE INSERTS, ETC. SHOULD BE INSTALLED BEFORE SETTING EQUIPMENT IN PLACE.

DUAL DIMENSIONS: INCHES / MILLIMETERS

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	**MS**
JOB LOCATION:		EQUIPMENT TYPE:	QED-2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	SIDE, TOP VIEW & FLOOR PLAN
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG#	**FQ-4656526-136243668-01**

PG 2 OF 2 | REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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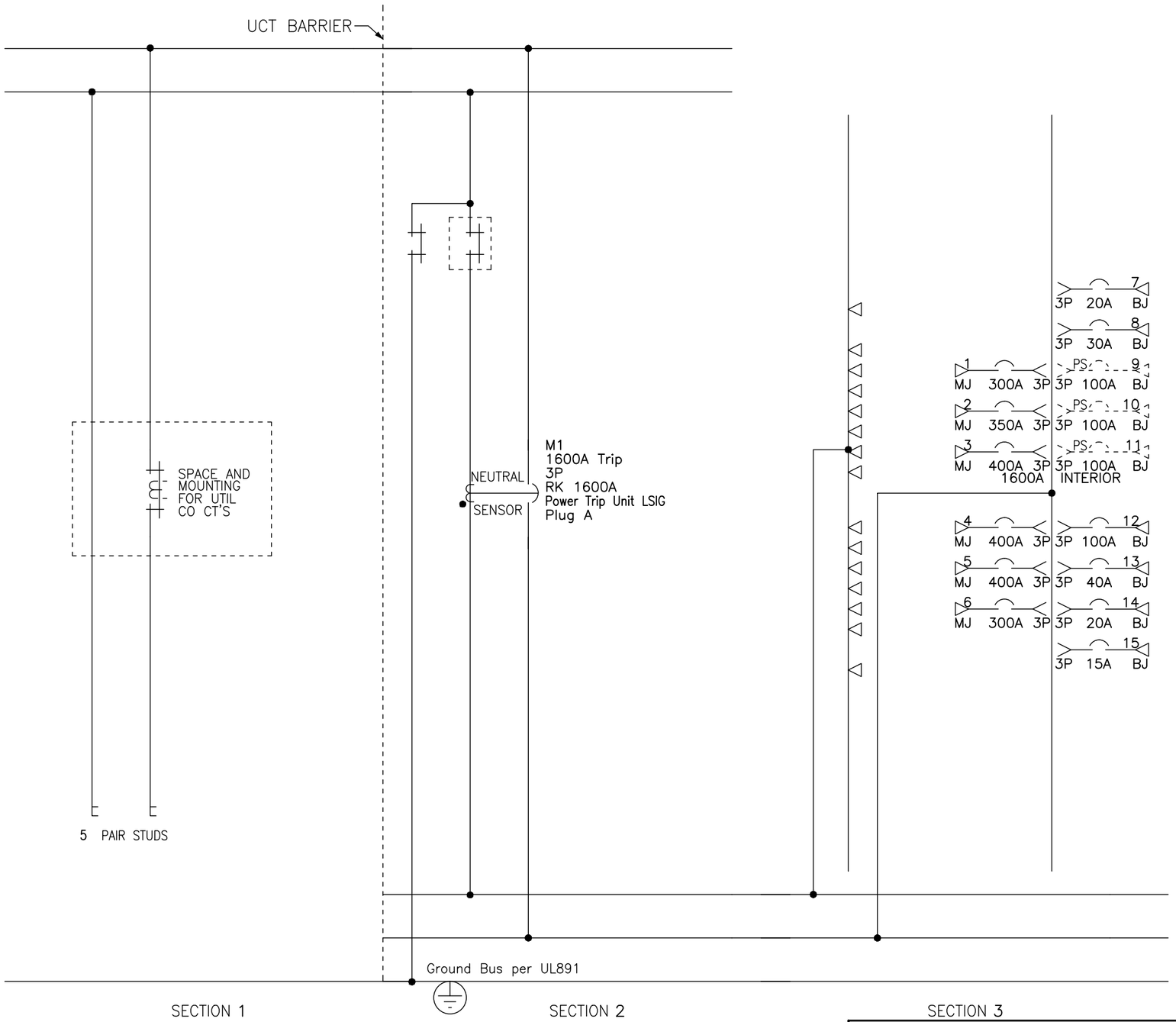

JOB NAME: ROOSEVELT E S	EQUIPMENT DESIGNATION: MS
JOB LOCATION:	EQUIPMENT TYPE: QED-2 Switchboard
DRAWN BY: (Q2C)	DRAWING TYPE: ONE LINE
ENGR:	SQUARE D by Schneider Electric
DATE: February 01 2024	
DRAWING STATUS: QUOTE	DWG# OQ-4656526-136243668-01 | PG 1 OF 2 | REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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POWER STYLE QED–2 SWITCHBOARD

SECT NO	CKT NO	IMD /GMD CONFIG	DEVICE/FRAME RATING	TRIP AMP	FUSE/ TRIP	#P	DESIGNATION	N/P	LUG/WIRE INFORMATION				ACCESSORIES / NOTES
									QTY	PHASE WIRE RANGE	QTY	NEUT WIRE RANGE	
1	UCT	–	1600A	–	–	–	Pacific G&E (CA)	No	5	Pair Studs	5	Pair Studs	
2	M1	FIX	RK 1600A Plug A 100%	1600A	P–LSIG	3P		No	–	–	–	–	GF PLA,ERMS,TU
3	1	9 in	MJ	300A	–	3P		No	1	3/0 – 500 kcmil	1	3/0 – 500kcmil	
3	2	9 in	MJ	350A	–	3P		No	1	600 kcmil	1	600 kcmil	LK1
3	3	9 in	MJ	400A	–	3P		No	1	600 kcmil	1	600 kcmil	LK1
3	4	9 in	MJ	400A	–	3P		No	1	600 kcmil	1	600 kcmil	LK1
3	5	9 in	MJ	400A	–	3P		No	1	600 kcmil	1	600 kcmil	LK1
3	6	9 in	MJ	300A	–	3P		No	1	3/0 – 500 kcmil	1	3/0 – 500kcmil	
3	7	4.5 in	BJ	20A	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	
3	8	4.5 in	BJ	30A	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	
3	9	4.5 in	BJ (PS)	(100A)	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	
3	10	4.5 in	BJ (PS)	(100A)	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	
3	11	4.5 in	BJ (PS)	(100A)	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	
3	12	4.5 in	BJ	100A	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	
3	13	4.5 in	BJ	40A	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	
3	14	4.5 in	BJ	20A	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	
3	15	4.5 in	BJ	15A	–	3P		No	1	#14 – 1/0 AWG	1	#14 – 1/0 AWG	

LEGEND	
ERMS	Energy Reduction Maintenance SW
GF	Ground Fault
LK1	AL800P6K Lug Kit
PLA	Padlock Attachment–Fixed
TU	24V Trip Unit Display Power

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	MS
JOB LOCATION:		EQUIPMENT TYPE:	QED–2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	SCHEDULE
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ–4656526–136243668–01	PG 2 OF 2 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--	–	----	--	--/--/--
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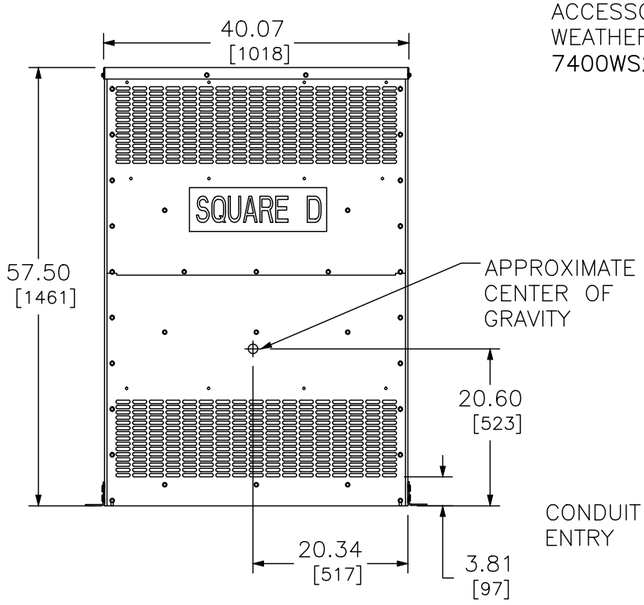

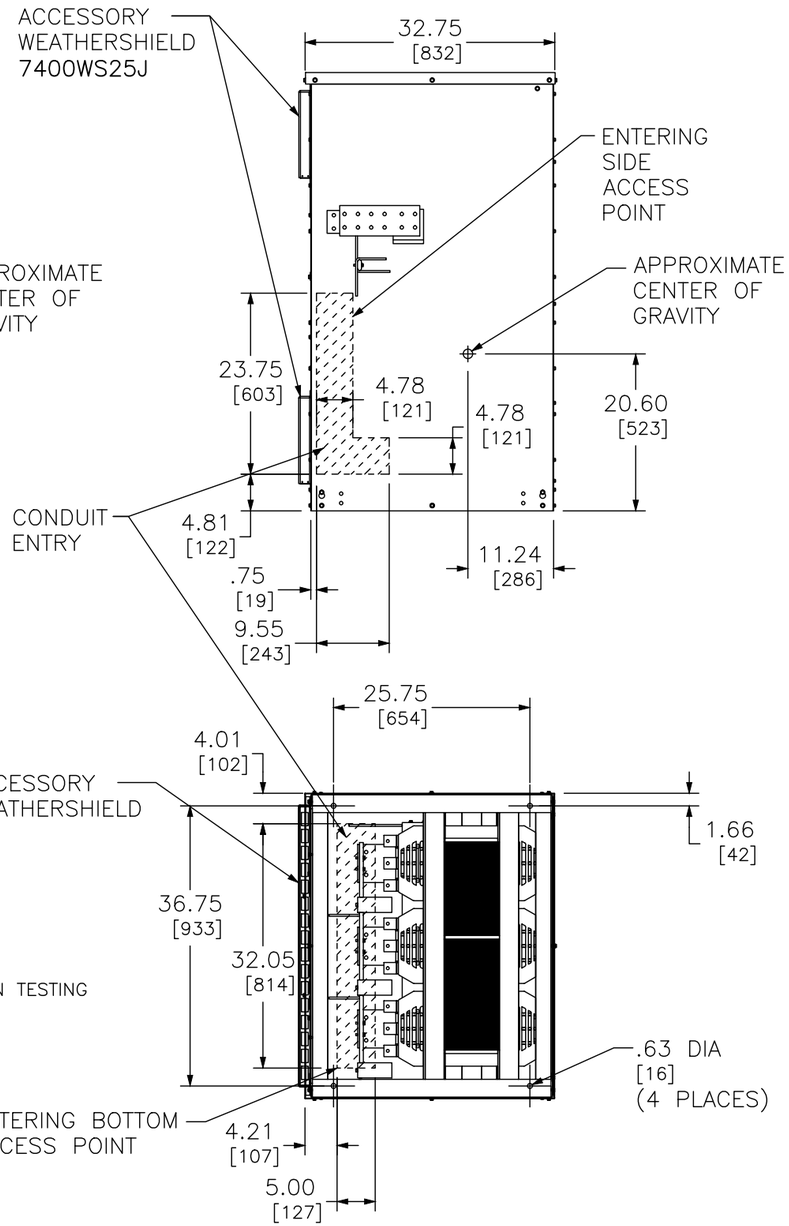

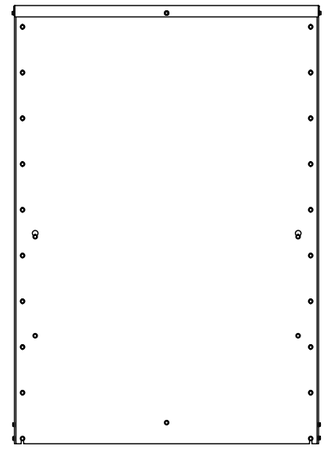

SEISMIC QUALIFICATION

TO BE COMPLIANT WITH THE SEISMIC REQUIREMENTS OF ASCE/SEI 7,
THIS UNIT IS SELF CERTIFIED TO ICS ES AC156 BY SHAKE TABLE QUALIFICATION TESTING
THE ENCLOSURE ABOVE IS 25J.

NOTES:
cULus LISTED TO UL1561 AND C22. 2No47, FILE NUMBER E6868
NEMA ST–20 (2014) ROUTINE TESTS ARE COMPLETED ON ALL UNITS.
MANUFACTURED IN ISO9001 FACILITIES
GREEN PREMIUM (RoHS/REACH COMPLIANT, PRODUCT ENVIRONMENTAL PROFILE)
REGISTERED TO DOE VIA 10 CFR 429 & NRCAN
MINIMUM SIDE AND REAR CLEARANCE 1/2 INCH PER UL1561 ALCOVE TESTING.
FRONT ACCESS MUST COMPLY WITH NEC WORK SPACE REQUIREMENTS.
WIRE ACCESS SHOWN SHADED ABOVE. LOCATIONS ARE FRONT SIDES AND FRONT BOTTOM.

TRANSFORMER SPECIFICATION

225kVA 3 PHASE 60 HERTZ 49DB
PRIMARY VOLTAGE: 480V Delta, 6 – 2.5% 2+4– Taps
SECONDARY VOLTAGE: 208Y/120V
150 Deg C RISE ABOVE 40 Deg C AMBIENT
220 Deg C INSULATION SYSTEM Aluminum WINDING
MAXIMUM WEIGHT: 2,091 LBS
Type 1 Standard Painted ANSI 49 Grey
MINIMUM EFFICIENCY 98.94% @ 35% LOADING 75 Deg C
COMPLYING WITH 10 CFR 431 (78 FR 23335–APRIL 18, 2013)

DUAL DIMENSIONS: INCHES
MILLIMETERS

EX225T3H

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	TDP
JOB LOCATION:		EQUIPMENT TYPE:	LV DISTRIBUTION TRANSFORMER
DRAWN BY:	(Q2C)	DRAWING TYPE:	ELEVATION VIEW
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE NOT FOR CONSTRUCTION	DWG#	FQ-4656526-136246663-01 PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
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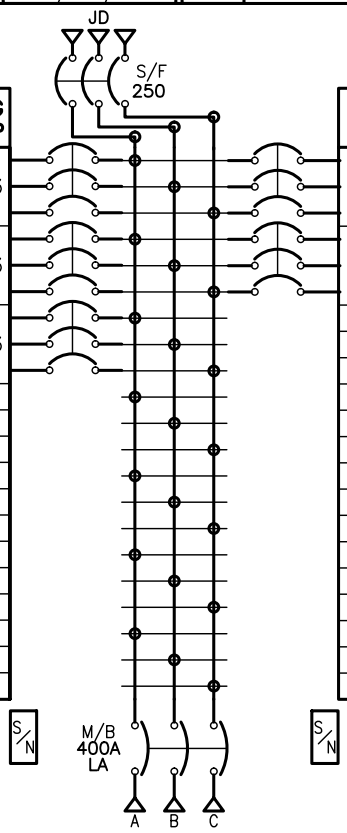
CKT NO	ACCESSORIES	TYPE	RATING AMP/P
1		EDB	20/3
3			
5			
7		EDB	20/3
9			
11			
13		EDB	20/3
15			
17			
19	BLANK		
21	BLANK		
23	BLANK		
25	BLANK		
27	BLANK		
29	BLANK		
31	BLANK		
33	BLANK		
35	BLANK		
37	BLANK		
39	BLANK		
41	BLANK		



RATING AMP/P	TYPE	ACCESSORIES	CKT NO
			2
20/3	EDB		4
			6
			8
20/3	EDB		10
			12
		BLANK	14
		BLANK	16
		BLANK	18
		BLANK	20
		BLANK	22
		BLANK	24
		BLANK	26
		BLANK	28
		BLANK	30
		BLANK	32
		BLANK	34
		BLANK	36
		BLANK	38
		BLANK	40
		BLANK	42

PHYSICAL DATA

ENCLOSURE Type 3R/5/12
FRONT CAT#: Trim w/Box
BOX CAT#: MH86WP

DIMENSIONS:
86''(2184mm)Hx20"(508mm)Wx6.5''(165mm)D

WIRE BENDING SPACE:
TOP – 12.25"(312)mm
BOTTOM – 15"(381)mm
SIDE – 4.1"(105)mm
PBA: 555

BUSSING: 400A RATED COPPER BUS
Silver/Tin Plated

OPTIONAL FEATURES:
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC
BRANCH USER PLACEMENT
ALUMINUM SOLID NEUTRAL
ALUMINUM GROUND BAR
Maximum Panel Weight 296.
Depth Center of Gravity 6.5
Elevation Center of Gravity 43.0
Vertical Center of Gravity 10.0

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz
System Ampacity: 400A
10kA SYMS. SCCR
Fully Rated

MAIN: MAIN BREAKER LA 400A
Bottom FEED
30kA AIR
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:
Wire Bending Space:
Phase Lugs:1 – #1 – 600,(2)#1 – 250 kcml

----------BRANCH SUMMATION----------

1 – 250A/3P JD
5 – 20A/3P EDB

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	PD
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ-4656526-137301556-01	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
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REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I–LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

GUIDELINES:

1) BOLT–ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN. MADE IN ACCORDANCE WITH THE APPROVED SIESMIC ANCHORING DETAILS. ALL POST–INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

CENTER OF GRAVITY:

THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 43.0 "ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 6.5 "FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 10.0 "FROM LEFT WALL OF ENCLOSURE

SECTION WEIGHT:

THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING. SEISMIC ANCHORING REQUIREMENTS

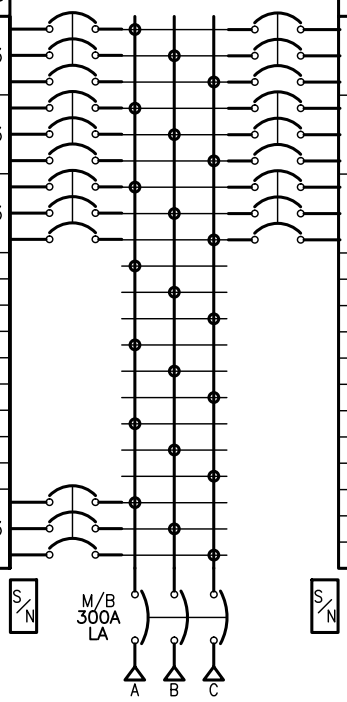
MAXIMUM PANEL WEIGHT: 296. LBS / 134.KGS

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	PD
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ–4656526–137301556–S1	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

CKT NO	ACCESSORIES	TYPE	RATING AMP/P
1		EDB	50/3
3			
5			
7		EDB	50/3
9			
11			
13		EDB	50/3
15			
17			
19	BLANK		
21	BLANK		
23	BLANK		
25	BLANK		
27	BLANK		
29	BLANK		
31	BLANK		
33	BLANK		
35	BLANK		
37		EDB	90/3
39			
41			

RATING AMP/P	TYPE	ACCESSORIES	CKT NO
			2
50/3	EDB		4
			6
			8
50/3	EDB		10
			12
			14
50/3	EDB		16
			18
		BLANK	20
		BLANK	22
		BLANK	24
		BLANK	26
		BLANK	28
		BLANK	30
		BLANK	32
		BLANK	34
		BLANK	36
		BLANK	38
		BLANK	40
		BLANK	42



PHYSICAL DATA

ENCLOSURE Type 3R/5/12
FRONT CAT#: Trim w/Box
BOX CAT#: MH68WP
DIMENSIONS:
68''(1727mm)Hx20"(508mm)Wx6.5''(165mm)D
WIRE BENDING SPACE:
TOP – 12.25"(312)mm
BOTTOM – 15"(381)mm
SIDE – 4.1"(105)mm
PBA: 555
BUSSING: 400A RATED COPPER BUS
Silver/Tin Plated
OPTIONAL FEATURES:
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC
BRANCH USER PLACEMENT
ALUMINUM SOLID NEUTRAL
ALUMINUM GROUND BAR
Maximum Panel Weight 234.
Depth Center of Gravity 6.5
Elevation Center of Gravity 34.0
Vertical Center of Gravity 10.0

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz
System Ampacity: 300A
10kA SYMS. SCCR
Fully Rated
MAIN: MAIN BREAKER LA 300A
Bottom FEED
30kA AIR
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:
Wire Bending Space:
Phase Lugs:1 – #1 – 600,(2)#1 – 250 kcml
----------BRANCH SUMMATION----------
6 – 50A/3P EDB
1 – 90A/3P EDB

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	PB
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ-4656526-137302411-01	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
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REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I–LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

GUIDELINES:

1) BOLT–ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN. MADE IN ACCORDANCE WITH THE APPROVED SIESMIC ANCHORING DETAILS. ALL POST–INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

CENTER OF GRAVITY:

THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 34.0 "ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 6.5 "FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 10.0 "FROM LEFT WALL OF ENCLOSURE

SECTION WEIGHT:

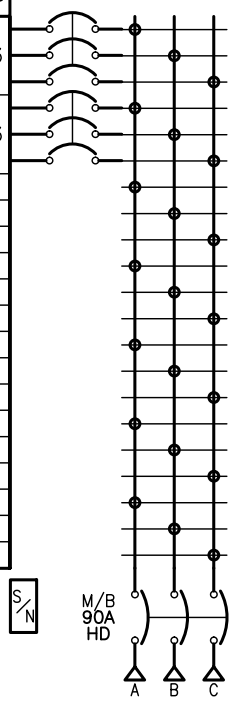
THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING. SEISMIC ANCHORING REQUIREMENTS

MAXIMUM PANEL WEIGHT: 234. LBS / 106.KGS

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	PB
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ–4656526–137302411–S1	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

CKT NO	ACCESSORIES	TYPE	RATING AMP/P
1		EDB	50/3
3			
5			
7		EDB	50/3
9			
11			
13	BLANK		
15	BLANK		
17	BLANK		
19	BLANK		
21	BLANK		
23	BLANK		
25	BLANK		
27	BLANK		
29	BLANK		
31	BLANK		
33	BLANK		
35	BLANK		
37	BLANK		
39	BLANK		
41	BLANK		



RATING AMP/P	TYPE	ACCESSORIES	CKT NO
		BLANK	2
		BLANK	4
		BLANK	6
		BLANK	8
		BLANK	10
		BLANK	12
		BLANK	14
		BLANK	16
		BLANK	18
		BLANK	20
		BLANK	22
		BLANK	24
		BLANK	26
		BLANK	28
		BLANK	30
		BLANK	32
		BLANK	34
		BLANK	36
		BLANK	38
		BLANK	40
		BLANK	42

PHYSICAL DATA

ENCLOSURE Type 3R/5/12
FRONT CAT#: Trim w/Box
BOX CAT#: MH50WP
DIMENSIONS:
50''(1270mm)Hx20"(508mm)Wx6.5''(165mm)D
WIRE BENDING SPACE:
TOP – 6.25"(159)mm
BOTTOM – 9.5"(242)mm
SIDE – 4.1"(105)mm
PBA: 555
BUSSING: 125A RATED COPPER BUS
Silver/Tin Plated
OPTIONAL FEATURES:
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC
BRANCH USER PLACEMENT
ALUMINUM SOLID NEUTRAL
ALUMINUM GROUND BAR
Maximum Panel Weight 172.
Depth Center of Gravity 6.5
Elevation Center of Gravity 25.0
Vertical Center of Gravity 10.0

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz
System Ampacity: 90A
10kA SYMS. SCCR
Fully Rated
MAIN: MAIN BREAKER HD 90A
Bottom FEED
18kA AIR
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:
Wire Bending Space:
Phase Lugs:1 – #14 – 3/0 AWG
----------BRANCH SUMMATION----------
2 – 50A/3P EDB

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	PE
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ-4656526-137307272-01	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
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REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I–LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

GUIDELINES:

1) BOLT–ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN. MADE IN ACCORDANCE WITH THE APPROVED SIESMIC ANCHORING DETAILS. ALL POST–INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

CENTER OF GRAVITY:

THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 25.0 "ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 6.5 "FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 10.0 "FROM LEFT WALL OF ENCLOSURE

SECTION WEIGHT:

THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING. SEISMIC ANCHORING REQUIREMENTS

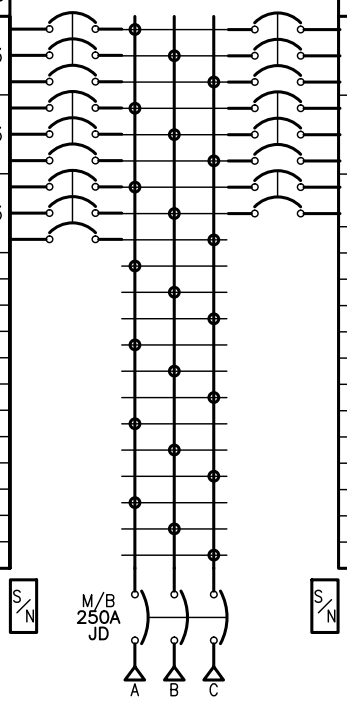
MAXIMUM PANEL WEIGHT: 172. LBS / 78.2KGS

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	PE
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ–4656526–137307272–S1	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

CKT NO	ACCESSORIES	TYPE	RATING AMP/P
1		EDB	50/3
3			
5			
7		EDB	50/3
9			
11			
13		EDB	50/3
15			
17			
19	BLANK		
21	BLANK		
23	BLANK		
25	BLANK		
27	BLANK		
29	BLANK		
31	BLANK		
33	BLANK		
35	BLANK		
37	BLANK		
39	BLANK		
41	BLANK		

RATING AMP/P	TYPE	ACCESSORIES	CKT NO
			2
50/3	EDB		4
			6
			8
50/3	EDB		10
			12
			14
40/2	EDB		16
		BLANK	18
		BLANK	20
		BLANK	22
		BLANK	24
		BLANK	26
		BLANK	28
		BLANK	30
		BLANK	32
		BLANK	34
		BLANK	36
		BLANK	38
		BLANK	40
		BLANK	42



PHYSICAL DATA

ENCLOSURE Type 3R/5/12
FRONT CAT#: Trim w/Box
BOX CAT#: MH56WP
DIMENSIONS:
56''(1422mm)Hx20"(508mm)Wx6.5''(165mm)D
WIRE BENDING SPACE:
TOP – 5"(127)mm
BOTTOM – 12.75"(324)mm
SIDE – 4.1"(105)mm
PBA: 555
BUSSING: COPPER BUS
Silver/Tin Plated
OPTIONAL FEATURES:
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC
ALUMINUM SOLID NEUTRAL
ALUMINUM GROUND BAR
Maximum Panel Weight 193.
Depth Center of Gravity 6.5
Elevation Center of Gravity 28.0
Vertical Center of Gravity 10.0

ELECTRICAL DATA

SYSTEM: 480Y/277V 3Ph 4W 60Hz
System Ampacity: 250A
10kA SYMS. SCCR
Fully Rated
MAIN: MAIN BREAKER JD 250A
Bottom FEED
18kA AIR
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:
Wire Bending Space:
Phase Lugs:1 – 3/0 – 350 kcmil
----------BRANCH SUMMATION----------
5 – 50A/3P EDB
1 – 40A/2P EDB

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	PC
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ-4656526-137307734-01	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
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REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I–LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

GUIDELINES:

1) BOLT–ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN. MADE IN ACCORDANCE WITH THE APPROVED SIESMIC ANCHORING DETAILS. ALL POST–INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

CENTER OF GRAVITY:

THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 28.0 "ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 6.5 "FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 10.0 "FROM LEFT WALL OF ENCLOSURE

SECTION WEIGHT:

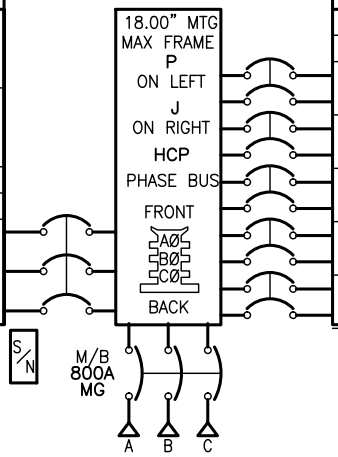
THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING. SEISMIC ANCHORING REQUIREMENTS

MAXIMUM PANEL WEIGHT: 193. LBS / 87.6KGS

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	PC
JOB LOCATION:		EQUIPMENT TYPE:	NF (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ–4656526–137307734–S1	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

CKT NO	ACCESSORIES	TYPE	RATING AMP/P	PHASE BUS CONN
	4.50" BLANK			
	4.50" BLANK			
	1.50" BLANK			
	1.50" BLANK			
1		LA	400/3	A B C



PHASE BUS CONN	RATING AMP/P	TYPE	ACCESSORIES	CKT NO
			1.50" BLANK	
			1.50" BLANK	
B A	100/2	QB		2
C A	100/2	QB		4
C B	100/2	QB		6
B A	100/2	QB		8
C A	100/2	QB		10

PHYSICAL DATA

ENCLOSURE Type 3R/5/12
FRONT CAT#: Trim w/Box
BOX CAT#: HC4268WP
DIMENSIONS:
68''(1727mm)Hx42"(1067mm)Wx12.95''(329mm)D
WIRE BENDING SPACE:
TOP – 11.66"(296mm)
BOTTOM – 16.18"(411mm)
LEFT SIDE – 8.66"(220mm)
RIGHT SIDE – 8.77"(223mm)
PBA: 412
BUSSING: 800A RATED COPPER BUS
Tin Plated
OPTIONAL FEATURES:
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC
ALUMINUM SOLID NEUTRAL
ALUMINUM GROUND BAR
Maximum Panel Weight 660.
Depth Center of Gravity 12.9
Elevation Center of Gravity 34.0
Vertical Center of Gravity 21.0

ELECTRICAL DATA

SYSTEM: 208Y/120V 3Ph 4W 60Hz
System Ampacity: 800A
10kA SYMS. SCCR
Fully Rated
MAIN: MAIN BREAKER MG 800AS/800AT
ACC: STD LI
Bottom FEED
65kA AIR
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:
Wire Bending Space:
Phase Lugs:1 – (3) 3/0 – 500 kcmil
----------BRANCH SUMMATION----------
1 – 400A/3P LA
5 – 100A/2P QB

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	DP
JOB LOCATION:		EQUIPMENT TYPE:	I–Line (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ-4656526-138329990-01	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I–LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

GUIDELINES:

1) BOLT–ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN. MADE IN ACCORDANCE WITH THE APPROVED SIESMIC ANCHORING DETAILS. ALL POST–INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

CENTER OF GRAVITY:

THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

ELEVATION CENTER OF GRAVITY: 34.0 "ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 12.9 "FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 21.0 "FROM LEFT WALL OF ENCLOSURE

SECTION WEIGHT:

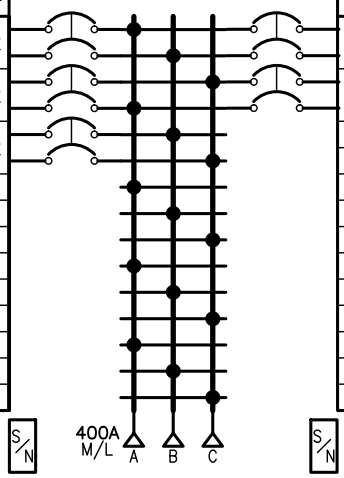
THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING. SEISMIC ANCHORING REQUIREMENTS

MAXIMUM PANEL WEIGHT: 660. LBS / 299.KGS

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	DP
JOB LOCATION:		EQUIPMENT TYPE:	I–Line (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ–4656526–138329990–S1	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

CKT NO	ACCESSORIES	TYPE	RATING AMP/P
1		QOB	100/2
3			
5		QOB	100/2
7			
9		QOB	100/2
11			
13	BLANK		
15	BLANK		
17	BLANK		
19	BLANK		
21	BLANK		
23	BLANK		
25	BLANK		
27	BLANK		
29	BLANK		



RATING AMP/P	TYPE	ACCESSORIES	CKT NO
100/2	QOB		2
			4
100/2	QOB		6
			8
		BLANK	10
		BLANK	12
		BLANK	14
		BLANK	16
		BLANK	18
		BLANK	20
		BLANK	22
		BLANK	24
		BLANK	26
		BLANK	28
		BLANK	30

PHYSICAL DATA

ENCLOSURE Type 3R/5/12
FRONT CAT#: Trim w/Box
BOX CAT#: MH50WP
DIMENSIONS:
50''(1270mm)Hx20"(508mm)Wx6.5''(165mm)D
WIRE BENDING SPACE:
TOP – 12.25"(312)mm
BOTTOM – 17.1"(435)mm
SIDE – 5.9"(150)mm
PBA: 711
BUSSING: 400A RATED ALUMINUM BUS
Tin Plated
OPTIONAL FEATURES:
SEISMICALLY QUALIFIED : IBC/ASCE7/CBC/NBCC
ALUMINUM SOLID NEUTRAL
ALUMINUM GROUND BAR
Maximum Panel Weight 137.
Depth Center of Gravity 6.5
Elevation Center of Gravity 25.0
Vertical Center of Gravity 10.0

ELECTRICAL DATA

SYSTEM: 208Y/120V 3Ph 4W 60Hz
System Ampacity: 400A
10kA SYMS. SCCR
Fully Rated
MAIN: MAIN LUGS : 400A
Bottom FEED
INCOMING CONDUCTORS(S) PER NEC, CEC, NOM:
Wire Bending Space:
Phase Lugs:1 – 1/0 – 750, (2) 1/0 – 350 kcmil
----------BRANCH SUMMATION----------
5 – 100A/2P QOB

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	DP1
JOB LOCATION:		EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			SQUARE D by Schneider Electric
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ-4656526-138331122-01	PG 1 OF 1 REV –

REV	DESCRIPTION	BY	DATE	–	----	--	--/--/--
–	----	--	--/--/--	–	----	--	--/--/--

REQUIREMENTS FOR SEISMIC RATING

SQUARE D PANELBOARDS HAVE BEEN TESTED TO IBC/ASCE7/CBC/NBCC.

THE PANELBOARD TYPES LISTED BELOW MEET THE IBC/ASCE7/CBC/NBCC.

PANELBOARD TYPE	ENCLOSURE TYPE
NQ	TYPE 1, 3R, 5, 12, 4/4X (SS)
NQ COLUMN WIDTH	TYPE 1
NF (STANDARD OR COLUMN WIDTH)	TYPE 1, 3R, 5, 12, 4/4X (SS)
I–LINE	TYPE 1, 3R, 5, 12, 4/4X (SS)
QMB	TYPE 1, 3R, 5, 12, 4/4X (SS)

GUIDELINES:

1) BOLT–ON CIRCUIT BREAKERS ARE REQUIRED ON NQ AND NF PANELBOARDS.
2) ENCLOSURES MUST BE SECURED TO THE WALL OR STRUCTURE BY UTILIZING ALL MOUNTING HOLES PROVIDED IN THE ENCLOSURE AND SECURED WITH SAE GRADE 5 STEEL BOLTS SIZED PER THE MOUNTING HOLES.

ANCHORING CONDITIONS

TO MAINTAIN SEISMIC QUALIFICATIONS, EQUIPMENT MUST BE INSTALLED PER MANUAL (SEE GENERAL NOTES) IN ADDITION TO ANY SEISMIC ANCHORING DETAILS PROVIDED BY OTHERS. DO NOT INSTALL EQUIPMENT BEFORE APPROVED SEISMIC ANCHORING DETAILS HAVE BEEN OBTAINED AND SITE PREPARATIONS HAVE BEEN. MADE IN ACCORDANCE WITH THE APPROVED SIESMIC ANCHORING DETAILS. ALL POST–INSTALLED ANCHORS SHALL BE APPROVED FOR SEISMIC LOADS.

CENTER OF GRAVITY:

THE CG INFORMATION PROVIDED BELOW SHOULD ONLY BE USED FOR SEISMIC ANCHORING CALCULATIONS.

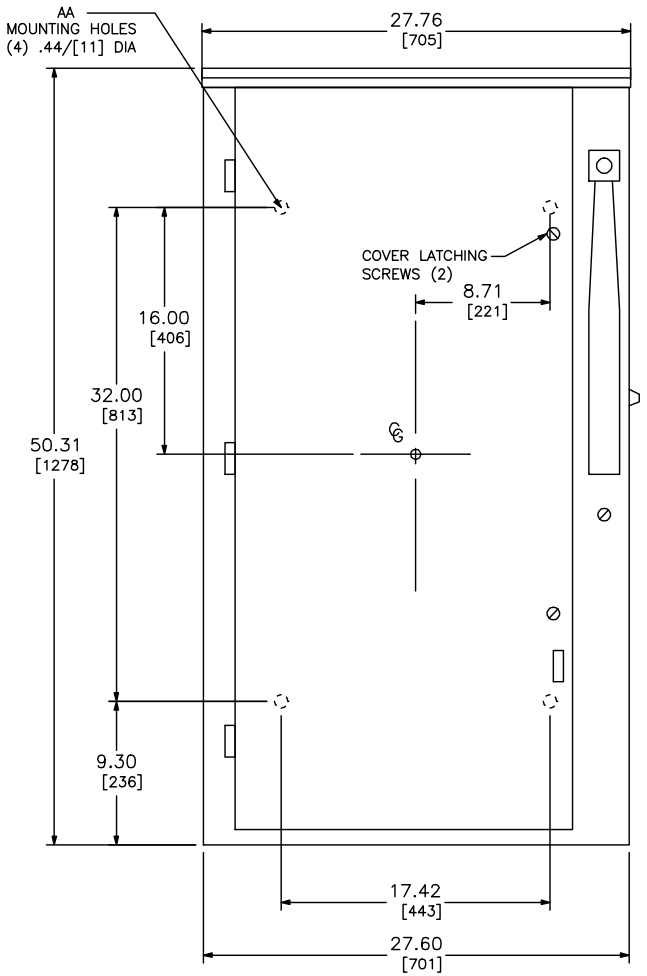
ELEVATION CENTER OF GRAVITY: 25.0 "ABOVE BOTTOM OF ENCLOSURE
DEPTH CENTER OF GRAVITY: 6.5 "FROM BACK WALL OF ENCLOSURE
VERTICAL CENTER OF GRAVITY: 10.0 "FROM LEFT WALL OF ENCLOSURE

SECTION WEIGHT:

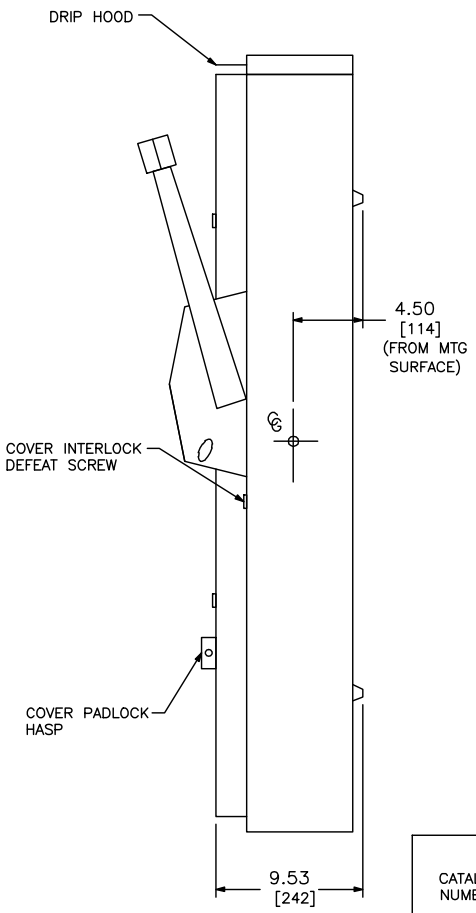
THE WEIGHTS GIVEN BELOW ARE THE MAXIMUM FOR EACH SECTION AND SHOULD BE USED FOR CALCULATING. SEISMIC ANCHORING REQUIREMENTS

MAXIMUM PANEL WEIGHT: 137. LBS / 62.4KGS

JOB NAME:	ROOSEVELT E S	EQUIPMENT DESIGNATION:	DP1
JOB LOCATION:		EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	February 01 2024		
DRAWING STATUS:	QUOTE	DWG# OQ–4656526–138331122–S1	PG 1 OF 1 REV –



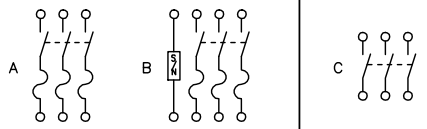
NEMA TYPE 3R
NO KNOCKOUTS



NOTE: SIDE
HINGED DOOR

WIRING DIAGRAMS

FUSIBLE	NOT FUSIBLE
A B	C



TERMINAL LUGS DATA			
AMPERE	MAX WIRE	MIN WIRE	TYPE
400	(1) 750 KCMIL OR (2) 300 KCMIL	(1) #1/0 AWG OR (2) #1/0 AWG	AL OR CU

SEISMIC NOTES:
USE (4) 3/8" DIA GRADE 5 STEEL MOUNTING BOLTS @ HOLES AA
MAX CONFIGURED WEIGHT 179 LB FOR THE PURPOSE OF DETERMINING SEISMIC ANCHORAGE REQUIREMENTS. FOR ALL OTHER APPLICATIONS, CONTACT SCHNEIDER ELECTRIC.

DUAL DIMENSIONS: INCHES / MILLIMETERS

CATALOG NUMBER	VOLTAGE RATINGS	WIRING DIAG	HORSEPOWER RATINGS							
			240VAC		480VAC		600VAC		250 VDC	600 VDC
			STD	MAX	STD	MAX	STD	MAX		
			3Ø	3Ø	3Ø	3Ø	3Ø	3Ø	STD	STD
H325NR	240VAC;250VDC	B	50	125	–	–	–	–	50	–
H325R	240VAC;250VDC	A	50	125	–	–	–	–	50	–
H365NR	600VAC;600VDC	B	50	125	100	250	125	350	50	50
H365R	600VAC;600VDC	A	50	125	100	250	125	350	50	50
HU365R	600VAC;600VDC	C	–	125	–	250	–	350	50	50

NOTES:
FINISH – GRAY BAKED ENAMEL
UL LISTED – FILE E–154828
ALL NEUTRALS – INSULATED GROUNDABLE
SUITABLE FOR USE AS SERVICE EQUIPMENT
SHORT CIRCUIT CURRENT RATINGS:
10,000 AMPERES WHEN USED WITH OR PROTECTED BY CLASS H OR K FUSES.
200,000 AMPERES WHEN USED WITH OR PROTECTED BY CLASS R FUSES HAVING CLASS R REJECTION KITS INSTALLED OR CLASS J FUSES.

HEAVY DUTY SAFETY SWITCHES
VISIBLE BLADE TYPE
400 AMPERE – SERIES E5
ENCLOSURE – NEMA TYPE 3R RAINPROOF (SUFFIX R)
SEISMIC

SQUARE D
by Schneider Electric

DWG# NO. 3455S

MARCH 2011

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