

Seq #	Qty	Product Description
1	1	<p>Designation :</p> <p>Product Details :</p> <p>1 - Square D Custom Swbd-QED-2 Switchboard</p> <p>-----</p> <p>Square D Custom Swbd Designed and Tested in accordance with: UL 891/NATIONAL ELECTRIC CODE/NEMA PB-2 System Voltage - 480Y/277V 3Ph 4W 60Hz System Ampacity - 1200A Source Description - Single Main Bussing - Aluminum Plated w/Tin and Copper Plated w/Silver Neutral Bus - 100% Max Available Fault Current (RMS) - 65kA Enclosure - Type 3R Non-Walk-in Installed Location: Outdoor Accessibility: Front Only Rodent Barrier Exterior Paint Color - ANSI 49 Ground Lug provided for each device Strip Heaters - Internal Power Source with Thermostat Strip Heaters - Internal Power Source with Humidistat Bottom Closure Plates Aluminum Ground Bus Seismic Qualified</p> <p>Dimensions</p> <p>-----</p> <p>2 - 36" Wide Section(s) 1 - 54" Wide Section(s) 1 - Dimensions: 126.00" W X 47.5" D X 91.5"H 3 - 47.5" Deep Enclosure(s) Approximate Weight: 3006.00 lbs / 1363.52 kgs</p> <p>Incoming Requirements</p> <p>-----</p> <p>Suitable for Use As Service Entrance Entry Point: Left of Lineup, Through the Bottom Connection Type: Cable in Bussed Auxiliary Hot Sequence Utility: Southern Cal Edison (CA) Standard Door Pattern 1-30in Door, 2 Sockets Power Meter - PM5563RD 3 CTs PM5563 w/ Display - 3 phase 4 wire wye 1200A</p> <p>Mains</p> <p>-----</p> <p>1 - 1200AS/1200AT 480V 80% Rated 65 kA 3 Pole UL, Fixed Mounted Electronic Trip Circuit Breaker: Type PJ Power Trip Unit, Long Time, Short Time, Instantaneous, Ground Fault Padlock Attachment Energy Reduction Maintenance Switch</p> <p>Feeders</p> <p>-----</p> <p>2 - 100AT 480V 80% Rated 3 Pole UL, Group Mounted Thermal Magnetic Prepared Space: Type BJ 7 - 125AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ 1 - 450AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Basic Electronic Trip</p>

FINAL DESIGN
APPROVED FOR CONSTRUCTION
Michael Knudson
Wildomar Local planning
5/11/2024

	T-bus 19.5 in	T-bus 19.5 in	T-bus 27.0 in
1	1.0	1.0	1.0
2	1.0	1.0	1.0
3	1.0	1.0	1.0
4	1.0	1.0	1.0
5	1.0	1.0	1.0
6	1.0	1.0	1.0
7	1.0	1.0	1.0
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25	1.0	1.0	1.0
26	1.0	1.0	1.0
27	1.0	1.0	1.0
28	1.0	1.0	1.0
29	1.0	1.0	1.0
30	1.0	1.0	1.0
31	1.0	1.0	1.0
32	1.0	1.0	1.0
33	1.0	1.0	1.0
34	1.0	1.0	1.0
35	1.0	1.0	1.0
36	1.0	1.0	1.0
37	1.0	1.0	1.0
38	1.0	1.0	1.0
39	1.0	1.0	1.0
40	1.0	1.0	1.0
41	1.0	1.0	1.0
42	1.0	1.0	1.0
43	1.0	1.0	1.0
44	1.0	1.0	1.0
45	1.0	1.0	1.0
46	1.0	1.0	1.0
47	1.0	1.0	1.0
48	1.0	1.0	1.0
49	1.0	1.0	1.0
50	1.0	1.0	1.0
51	1.0	1.0	1.0
52	1.0	1.0	1.0
53	1.0	1.0	1.0
54	1.0	1.0	1.0
55	1.0	1.0	1.0
56	1.0	1.0	1.0
57	1.0	1.0	1.0
58	1.0	1.0	1.0
59	1.0	1.0	1.0
60	1.0	1.0	1.0
61	1.0	1.0	1.0
62	1.0	1.0	1.0
63	1.0	1.0	1.0
64	1.0	1.0	1.0
65	1.0	1.0	1.0
66	1.0	1.0	1.0
67	1.0	1.0	1.0
68	1.0	1.0	1.0
69	1.0	1.0	1.0
70	1.0	1.0	1.0
71	1.0	1.0	1.0
72	1.0	1.0	1.0
73	1.0	1.0	1.0
74	1.0	1.0	1.0
75	1.0	1.0	1.0
76	1.0	1.0	1.0
77	1.0	1.0	1.0
78	1.0	1.0	1.0
79	1.0	1.0	1.0
80	1.0	1.0	1.0
81	1.0	1.0	1.0
82	1.0	1.0	1.0
83	1.0	1.0	1.0
84	1.0	1.0	1.0
85	1.0	1.0	1.0
86	1.0	1.0	1.0
87	1.0	1.0	1.0
88	1.0	1.0	1.0
89	1.0	1.0	1.0
90	1.0	1.0	1.0
91	1.0	1.0	1.0
92	1.0	1.0	1.0
93	1.0	1.0	1.0
94	1.0	1.0	1.0
95	1.0	1.0	1.0
96	1.0	1.0	1.0

Power System Data

Power System Data

480Y/277V 3Ph 4W 60Hz / 3 Phase Wye
Solidly Grounded

Solidly Grounded

System Short Circuit Current Rating: 65kA RMS

Incoming Section 1 Cable Through the Bottom Left of Lineup

Bus System Data

1200A Tin/Aluminum & Silver/Copper Main Bus

(1)	(2)	(3)	(4)	(5)	(6)
25x4.00	.25x2.00	IN/6x51	mm	Al Bus Bar Per Phase/Neutral	

Enclosure Data

Type 3R Free Standing

Seismic Certified Based on Shake Table Testing to meet/exceed Calif. Intl. Bldg. Code

Exterior Paint Color: ANSI 49

Front Accessibility Only Required

Strip Heater w.

Rodent barriers

1.5H Corrosion Resist Base Channels

Steel Bottom Closure Plate

Utility sealing hardware installed for unmetered bus compartments

Utility sealing hardware cannot be removed from EUSERC switchboard line-ups

only securing hardware installed for unfiltered bus compartments

Test Only

Estimated Shipping Weight

Shipping Split 1 1754.00 lbs / 795.61 kgs

Shipping Split 2	1252.00 lbs /	567.91 kgs
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Complete Lineup 3006.00 lbs / 1363.52 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 1200A

ST3= Deckfront - Section Bus 1200A

PRODUCT INFORMATION

Wiring

All wiring to be Machine Tool Wire type

Instruction Bulletins

Reference 80043-055 For Handling, Installation,

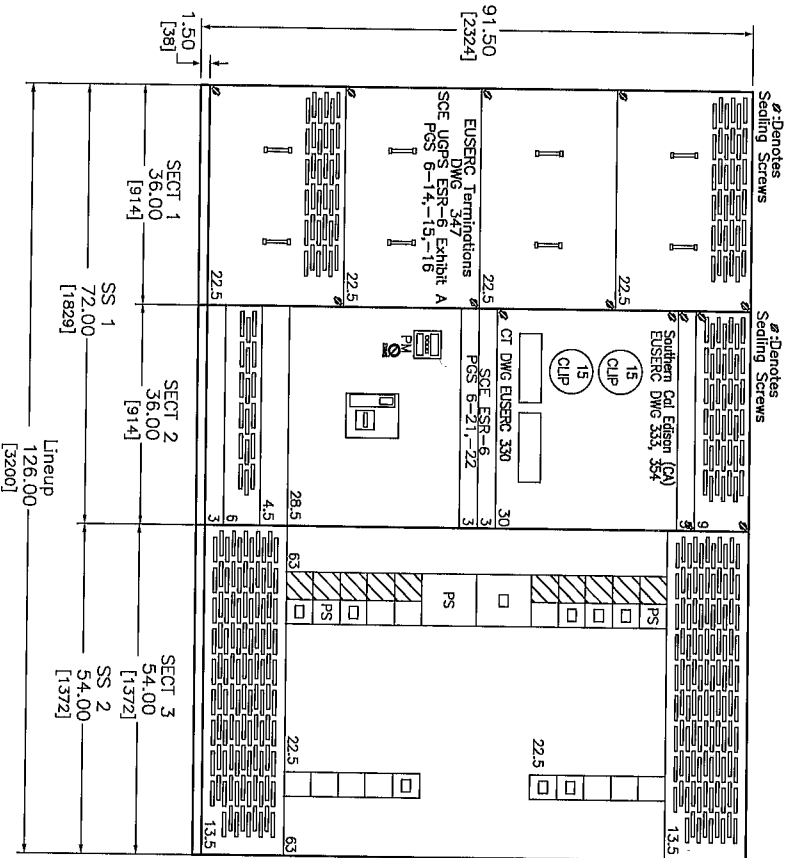
Anchoring, Inspection And Maintenance Information

Product Accessories/Options

Seismic Qualified

Locally Mounted FBMS Switch

Locally Mounted ERMS Switch



DUAL DIMENSIONS:

INCHES	MILLIMETERS
1/8	3.18
1/4	6.35
3/8	9.53
1/2	12.70
5/8	15.88
3/4	19.05
7/8	22.23
1	25.40
1 1/8	28.58
1 1/4	31.75
1 3/8	34.93
1 1/2	38.10
1 5/8	41.28
1 3/4	44.45
1 7/8	47.63
2	50.80
2 1/8	53.98
2 1/4	57.15
2 3/8	60.33
2 1/2	63.50
2 5/8	66.68
2 3/4	69.85
2 7/8	73.03
3	76.20
3 1/8	79.38
3 1/4	82.55
3 3/8	85.73
3 1/2	88.90
3 5/8	92.08
3 3/4	95.25
3 7/8	98.43
4	101.60
4 1/8	104.78
4 1/4	107.95
4 3/8	111.13
4 1/2	114.30
4 5/8	117.48
4 3/4	120.65
4 7/8	123.83
5	127.00
5 1/8	130.18
5 1/4	133.35
5 3/8	136.53
5 1/2	139.70
5 5/8	142.88
5 3/4	146.05
5 7/8	149.23
6	152.40
6 1/8	155.58
6 1/4	158.75
6 3/8	161.93
6 1/2	165.10
6 5/8	168.28
6 3/4	171.45
6 7/8	174.63
7	177.80
7 1/8	180.98
7 1/4	184.15
7 3/8	187.33
7 1/2	190.50
7 5/8	193.68
7 3/4	196.85
7 7/8	199.93
8	203.20
8 1/8	206.38
8 1/4	209.55
8 3/8	212.73
8 1/2	215.90
8 5/8	219.08
8 3/4	222.25
8 7/8	225.43
9	228.60
9 1/8	231.78
9 1/4	234.95
9 3/8	238.13
9 1/2	241.30
9 5/8	244.48
9 3/4	247.65
9 7/8	250.83
10	254.00
10 1/8	257.18
10 1/4	260.35
10 3/8	263.53
10 1/2	266.70
10 5/8	269.88
10 3/4	273.05
10 7/8	276.23
11	279.40
11 1/8	282.58
11 1/4	285.75
11 3/8	288.93
11 1/2	292.10
11 5/8	295.28
11 3/4	298.45
11 7/8	301.63
12	304.80
12 1/8	307.98
12 1/4	311.15
12 3/8	314.33
12 1/2	317.50
12 5/8	320.68
12 3/4	323.85
12 7/8	327.03
13	330.20
13 1/8	333.38
13 1/4	336.55
13 3/8	339.73
13 1/2	342.90
13 5/8	346.08
13 3/4	349.25
13 7/8	352.43
14	355.60
14 1/8	358.78
14 1/4	361.95
14 3/8	365.13
14 1/2	368.30
14 5/8	371.48
14 3/4	374.65
14 7/8	377.83
15	381.00
15 1/8	384.18
15 1/4	387.35
15 3/8	390.53
15 1/2	393.70
15 5/8	396.88
15 3/4	399.95
15 7/8	403.13
16	406.40
16 1/8	409.58
16 1/4	412.75
16 3/8	415.93
16 1/2	419.10
16 5/8	422.28
16 3/4	425.45
16 7/8	428.63
17	431.80
17 1/8	434.98
17 1/4	438.15
17 3/8	441.33
17 1/2	444.50
17 5/8	447.68
17 3/4	450.85
17 7/8	454.03
18	457.20
18 1/8	460.38
18 1/4	463.55
18 3/8	466.73
18 1/2	469.90
18 5/8	473.08
18 3/4	476.25
18 7/8	479.43
19	482.60
19 1/8	485.78
19 1/4	488.95
19 3/8	492.13
19 1/2	495.30
19 5/8	498.48
19 3/4	501.65
19 7/8	504.83
20	508.00
20 1/8	511.18
20 1/4	514.35
20 3/8	517.53
20 1/2	520.70

NOT FOR CONSTRUCTION

[illegible]

Figure 1 is a schematic diagram showing the layout of three vertical test specimens. The dimensions are given in millimeters (mm) in brackets. The specimens are labeled with their respective dimensions and a note indicating a 75/119 DIA hole.

- Left Specimen:** Total height 49.00 mm. Segments: 2.50 mm (top), 31.00 mm (middle), 16.40 mm (bottom). A 75/119 DIA hole is located in the middle segment.
- Middle Specimen:** Total height 47.50 mm. Segments: 3.00 mm (top), 33.00 mm (middle), 1.50 mm (bottom). A 75/119 DIA hole is located in the middle segment.
- Right Specimen:** Total height 54.00 mm. Segments: 3.1 mm (top), 11.10 mm (middle), 28.8 mm (bottom). A 75/119 DIA hole is located in the middle segment.

REAR COVER HANDLES USED ON BAYS WIDER THAN 42.00 / 1067

91.50 [2324]

47.50 [1207]

11.00 [279]

36.00 [914]

3.03 [77]



90.00 [2286]

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

FLOOR PLAN - FRONT

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:	commercial building	EQUIPMENT DESIGNATION:	QED-2 Switchboard
JOB LOCATION:		EQUIPMENT TYPE:	QED-2 Switchboard
DRAWN BY:	(J2C)	DRAWING TYPE:	SIDE TOP VIEW & FLOOR PLAN
ENGR:			
DATE:	April 01 2024		
DRAWING STATUS:	QUOTE	DWG#	PQ-4639836-135711975-01
	NOT FOR CONSTRUCTION		by  Date: _____
			SQUARE 
		Pg 2	OF 2
		REV -	

UCT BARRIER

Ground Bus per UL891

SECTION 1

SECTION 2

SECTION 3

4 PAR STUDS

SPACE AND MOUNTING FOR UNIT CO CTS

M1 1200A Trip

NEUTRAL 3P 1200A

Power Trip Unit LSIG

Not Required Plug A

Not Required Bus

Not Required & Neutral

FUTURE BUS EXN 27.0 m

1 100A 3P BU

2 125A 3P BU

3 125A 3P BU

4 125A 3P BU

5 125A 3P BU

6 450A 3P 125A BU

7 1200A INTERIOR

8 400A 3P 125A BU

9 125A 3P BU

10 125A 3P BU

11 125A 3P BU

12 125A 3P BU

13 125A 3P BU

14 125A 3P BU

15 125A 3P BU

16 125A 3P BU

17 125A 3P BU

18 125A 3P BU

19 125A 3P BU

20 125A 3P BU

21 125A 3P BU

22 125A 3P BU

23 125A 3P BU

24 125A 3P BU

25 125A 3P BU

26 125A 3P BU

27 125A 3P BU

28 125A 3P BU

29 125A 3P BU

30 125A 3P BU

31 125A 3P BU

32 125A 3P BU

33 125A 3P BU

34 125A 3P BU

35 125A 3P BU

36 125A 3P BU

37 125A 3P BU

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39 125A 3P BU

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41 125A 3P BU

42 125A 3P BU

43 125A 3P BU

44 125A 3P BU

45 125A 3P BU

46 125A 3P BU

47 125A 3P BU

48 125A 3P BU

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203 125A 3P BU

204 125A 3P BU

205 125A 3P BU

206 125A 3P BU

207 125A 3P BU

208 125A 3P BU

209 125A 3P BU

210 125A 3P BU

211 125A 3P BU

212 125A 3P BU

POWER STYLE QED-2 SWITCHBOARD

LEGEND	
ERMS	Energy Reduction Maintenance SW
GF	Ground Fault
PLA	Padlock Attachment-Fixed
PM5K	Power Meter PM55XX
SHR	Strip Header
TU	24V Trip Unit Display Power

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