



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0038

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Schneider Electric

Manufacturer's Technical Representative: Scott Littler

Mailing Address: 6700 Tower Circle, Suite 700, Franklin, TN 37067

Telephone: (615) 267-9407 Email: scott.littler@se.com

Product Information

Product Name: Square D Power-Style QED-6

Product Model Number(s): See Certified Product Listing Tables

Product Category: Switchgear/Switchboards

Product Sub-Category: Switchboards

General Description: Switchboards are integrated, low voltage, power and control systems and may include main switches and circuit breaker functions (see Certified Major Sub-Component Tables). Sheet metal framed enclosures come in NEMA Type 1 rating.

Mounting Description: Base Mounted Rigid -

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Pre Compliance

Contact Person: Galen Reid

Mailing Address: 36 SW Wall Street, Bend, OR 97702

Telephone: (541) 241-2310 Email: galen@go-pre.com

Title: Principal & Program Manager





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OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: PRE COMPLIANCE
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 36 SW Wall Street, Bend, OR 97702
Telephone: (415) 635-8461 Email: Andy@go-pre.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

Testing Laboratory

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)
Contact Person: Greg Mason
Mailing Address: 7800 Highway 20 West, Huntsville AL 35806
Telephone: (256) 837-4411 Email: Greg.Mason@nts.com

Company Name: UNIVERSITY OF BUFFALO (SEESL)
Contact Person: Yushan Fu
Mailing Address: 212 Ketter Hall, Buffalo NY 14260
Telephone: (716) 645-4377 Email: yushanfu@buffalo.edu

Company Name: WYLE LABORATORIES
Contact Person: Greg Mason
Mailing Address: 7800 Highway 20 West, Huntsville AL 35806
Telephone: (256) 837-4411 Email: Greg.Mason@nts.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.22 (SDS = 1.64g @ z/h=1.0); 0.95 (SDS = 2.11g @ z/h =0)

SDS (Design spectral response acceleration at short period, g) = 1.64 at z/h=1; 2.11 at z/h=0

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

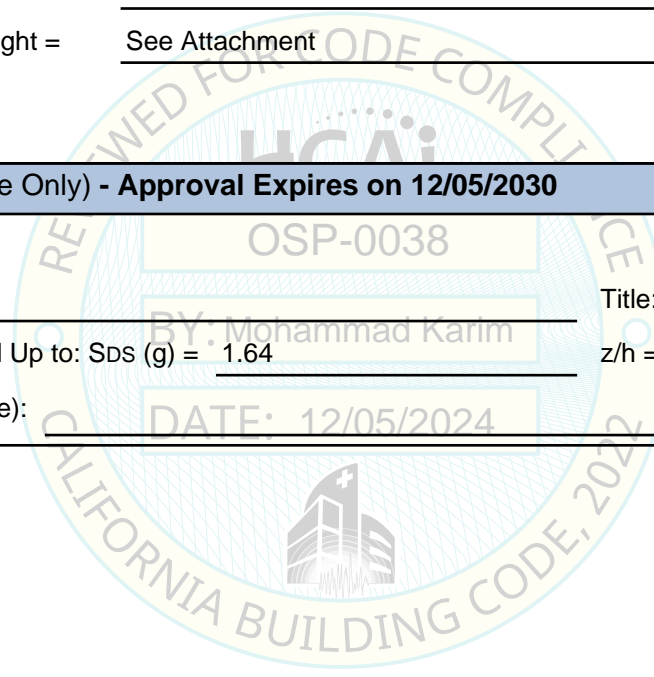
HCAI Approval (For Office Use Only) - Approval Expires on 12/05/2030

Date: 12/5/2024

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 1.64 z/h = 1

Condition of Approval (if applicable): DATE: 12/05/2024





SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC241547-01-R0

Manufacturer: Square D by Schneider Electric
Product Type: Switchboards - Low Voltage
Model Line: QED-6

Seismic Parameters
 $S_{DS} = 1.64g$ for $z/h=1$
 $S_{DS} = 2.11g$ for $z/h=0$
 $I_p = 1.5$

Building Codes
CBC 2022

TABLE 1a Mounting Configuration: Base Mounted - Rigid (Standalone)

Construction Summary

Options Summary

NEMA Type 1 enclosures constructed of carbon steel with powder coated finish.

Main and Tie, Feeder Distribution and Auxiliary Switchboards. 600-6000A ampacity rating. Max 600VAC.

Model Line	Model	Max. Dimensions (in)			Wt. (lb)	Max C.G. Height	Notes	UUT
		D	W	H				
QED-6 Low Voltage Switchboards	22W	54	22	91.5	2635	48.5	UUT1: 2515 lbs.	Interp.
		60	22	91.5	2685	43.5		1,6
		72	22	91.5	2700	48.5		Interp.
		80	22	91.5	2750	48.5		Interp.
	30W	54	30	91.5	3100	48.5	Interp.	
		60	30	91.5	3200	48.5	Interp.	
		72	30	91.5	3300	48.5	Interp.	
		80	30	91.5	3400	48.5	Interp.	
	36W	54	36	91.5	3500	48.5	Interp.	
		60	36	91.5	3600	48.5	Interp.	
		72	36	91.5	3040	44.0	2	
		72	36	91.5	3900	48.5	Interp.	
	48W	80	36	91.5	4185	48.5	8	
		54	48	91.5	3800	48.5	Interp.	
		60	48	91.5	3850	48.5	Interp.	
		72	48	91.5	3930	46.0	3	
		80	48	91.5	3930	48.5	Interp.	

Notes:
 1. Section types: Main and Tie, Feeder Distribution, and Auxiliary
 2. Main bus ampacity for copper bus only
 3. Dimensions and weights are for individual sections. Section types may be installed alone or bayed together



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC241547-01-R0

Manufacturer: Square D by Schneider Electric
Product Type: Switchboards - Low Voltage
Model Line: QED-6

Seismic Parameters
 $S_{DS} = 1.64g$ for $z/h=1$
 $S_{DS} = 2.11g$ for $z/h=0$
 $I_p = 1.5$

Building Codes
CBC 2022

TABLE 1b Mounting Configuration: Base Mounted - Rigid (Ganged)

Construction Summary

Options Summary

NEMA Type 1 enclosures constructed of carbon steel with powder coated finish.

Main and Tie, Feeder Distribution and Auxiliary Switchboards. 600-6000A ampacity rating. Max 600VAC.

Model Line	Model	Max. Dimensions (in)			Wt. (lb)	Max C.G. Height	Notes	UUT
		D	W	H				
QED-6 Low Voltage Switchboards	22W	54	22	91.5	2635	48.5		Interp.
		60	22	91.5	2685	43.5	UUT7: 2508 lbs.	7
		72	22	91.5	2700	48.5		Interp.
		80	22	91.5	2750	48.5		Interp.
	30W	54	30	91.5	3100	48.5		Interp.
		60	30	91.5	3200	48.5		Interp.
		72	30	91.5	3300	48.5		Interp.
		80	30	91.5	2440	48.5		4
	36W	80	30	91.5	3400	48.5		Interp.
		54	36	91.5	3500	48.5		Interp.
		60	36	91.5	3600	48.5		Interp.
		72	36	91.5	3515	44.0		7
	48W	72	36	91.5	3900	48.5		Interp.
		80	36	91.5	4185	48.5	UUT4: 3515 lbs.	4
		54	48	91.5	3800	48.5		Interp.
		60	48	91.5	3850	48.5		Interp.
		72	48	91.5	3930	48.5		Interp.
		80	48	91.5	3930	48.5		Interp.

Notes:
 1. Section types: Main and Tie, Feeder Distribution, and Auxiliary
 2. Main bus ampacity for copper bus only
 3. Dimensions and weights are for individual sections. Section types must be installed in a bayed configuration.

Manufacturer: Square D by Schneider Electric
Product Type: Switchboards - Low Voltage
Model Line: QED-6

Seismic Parameters
 $S_{DS} = 1.64g$ for $z/h=1$ $I_p = 1.5$
 $S_{DS} = 2.11g$ for $z/h=0$

Building Codes
CBC 2022

TABLE 2 Table Description: Circuit Breakers

Component (Manufacturer)	Model	Description	Configuration	Weight	UUT
H-Frame (Schneider Electric)	H*	150A H-Frame	2 Pole	4.8 lbs.	Interp.
J-Frame (Schneider Electric)	J*	250A J-Frame	2 Pole	5.3 lbs.	Interp.
H-Frame (Schneider Electric)	H*	150A H-Frame	3 Pole	4.8 lbs.	Interp.
	HJ 150	150A H-Frame		4.8 lbs.	13
J-Frame (Schneider Electric)	J*	250A J-Frame	3 Pole	5.3 lbs.	Interp.
	JJ 250	250A J-Frame		5.3 lbs.	13
MTZ1 Breakers (Schneider Electric)	MTZ1 08	800A T-Frame	3 Pole	31 lbs.	Interp.
	MTZ1 12	1200A T-Frame		31 lbs.	Interp.
	MTZ1 16	1600A T-Frame		31 lbs.	Interp.
T-Frame Breakers (Schneider Electric)	NT08	800A T-Frame	3 Pole	31 lbs.	Interp.
	NT12	1200A T-Frame		31 lbs.	Interp.
	NT16	1600A T-Frame		31 lbs.	Interp.
MTZ1 Breakers (Schneider Electric)	MTZ1 08	800A T-Frame	4 Pole	40 lbs.	Interp.
	MTZ1 12	1200A T-Frame		40 lbs.	4
	MTZ1 16	1600A T-Frame		40 lbs.	Interp.
T-Frame Breakers (Schneider Electric)	NT08	800A T-Frame	4 Pole	40 lbs.	4
	NT12	1200A T-Frame		40 lbs.	Interp.
	NT16	1600A T-Frame		40 lbs.	Interp.
MTZ2 Breakers (Schneider Electric)	MTZ2 08	800A MTZ2 Frame	3 Pole	109 lbs.	Interp.
	MTZ2 16	1600A MTZ2 Frame		109 lbs.	Interp.
	MTZ2 20	2000A MTZ2 Frame		109 lbs.	Interp.
	MTZ2 32	3200A MTZ2 Frame		127 lbs.	7
	MTZ2 40	4000A MTZ2 Frame		127 lbs.	Interp.
W-Frame Breakers (Schneider Electric)	NW08	800A W-Frame	3 Pole	109 lbs.	1,6,7
	NW16	1600A W-Frame		109 lbs.	Interp.
	NW20	2000A W-Frame		109 lbs.	1,4,6
	NW32	3200A W-Frame		127 lbs.	7
	NW40	4000A W-Frame		127 lbs.	Interp.

Notes: Breaker configurations include H, H1, H2, H3, HA, HB, HC, HD, HF, HG, HJ, HL, HR, JD, JG, JJ, JL, JR, L, L1, L1F, LF, N, N1, NA. Circuit Breakers, Automatic Switches, and Non-Automatic Switches rated 254-635 VAC: 50/60 Hz

Manufacturer: Square D by Schneider Electric
Product Type: Switchboards - Low Voltage
Model Line: QED-6

Seismic Parameters

$S_{DS} = 1.64g$ for $z/h=1$ $I_p = 1.5$
 $S_{DS} = 2.11g$ for $z/h=0$

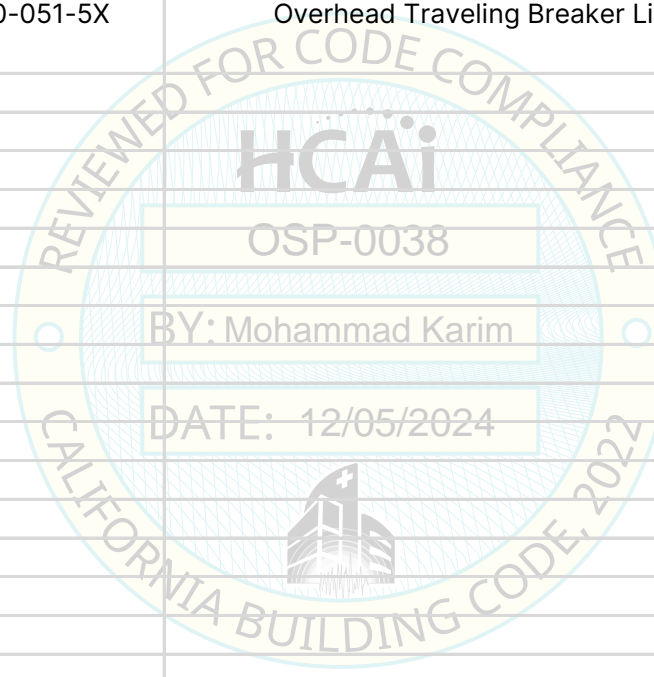
Building Codes

CBC 2022

TABLE 4

Table Description: Accessories

Component (Manufacturer)	Model	Description	Notes	UUT
Traveling Lifter Assembly (Square D)	80280-051-5X	Overhead Traveling Breaker Lifter		2



UUT	Model	Test Report	Test Laboratory	S _{DS}	z/h	I _p
1	PZ4 - 4 High Feeder Section, 5kA	1900465-TR-001 R1	SEESL	1.65 2.50	1 0	1.5
2	PZ4 - Main Section, 5kA, 3P	1900465-TR-001 R1	SEESL	1.65 2.50	1 0	1.5
3	PZ4 - Main Section, 5kA, 4P	1900465-TR-001 R1	SEESL	1.65 2.50	1 0	1.5
4	PZ4 - Main & Feeder Lineup, 5kA	1900465-TR-001 R1	SEESL	1.64 2.50	1 0	1.5
5	NOT USED					
6	Arc Resisting PZ4 - Feeder Section, 5kA	1900465-TR-001 R1	SEESL	1.64 2.50	1 0	1.5
7	Arc Resisting PZ4 - Main & Feeder Lineup, 5kA	1900465-TR-001 R1	SEESL	2.00 2.50	1 0	1.5
8	Arc Resisting PZ4 - Main Section, 5kA	1900465-TR-001 R1	SEESL	1.65 2.50	1 0	1.5
9	Arc Resisting PZ4 - Feeder Section, 5kA w/plenum	71052R13 (UUT 2)	Wyle	2.11 2.11	1 0	1.5
10	QED-2 LV Switchboard, 2kA, Draw-out ATS	PR077369-TR-18 (UUT 1)	NTS Huntsville	1.65 2.50	1 0	1.5
11	54W I-Line QED-2 Power-Style LV Switchboard	PR051315-TR-16 (UUT 2)	NTS Huntsville	2.02 2.28	1 0	1.5
12	36W QED-2 Power-Style LV Switchboard	No. 55636R08 (UUT 2)	NTS Huntsville	1.73 2.96	1 0	1.5
13	Single Section QED-2 Switchboard (Combo 2kA I-line)	1800444-TR-001 (UUT 1)	SEESL	1.68 2.69	1 0	1.5
14	2-Section QED-2 Switchboard (3.2kA Main-Tie & Feeder)	1800444-TR-001 (UUT 3)	SEESL	1.78 2.84	1 0	1.5
15	QED-2 LV Switchboard, 3kA I-Line Distribution Section	2200538-TR-001 (UUT 1a)	SEESL	2.05 2.73	1 0	1.5

Notes:

UUT 1

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric
Model Line: PZ4
Model Number: PZ4 - 4 High Feeder Section 5kA
Serial Number: 41324718-001

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.65	1	1.5	2.64	1.98	1.67	0.67
2.50	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
60	22	91.5	2515

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
9.1	5.8	13.6

Building Codes

CBC 2022

Test Criteria

ICC-ES AC156

Construction/Option Summary

Carbon steel enclosure with powder coated finish.

UUT Mounting Details:

List of Included Subcomponents



Description	Model #	Wt. (lbs.)
Masterpact Breaker	NW08H1	109
Masterpact Breaker	NW08H1	109
Masterpact Breaker	NW20H1	109
Masterpact Breaker	NW20H1	109

UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 2

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric
Model Line: PZ4
Model Number: PZ4 -Main Section, 5kA, 3P
Serial Number: 41324718-002

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.65	1	1.5	2.64	1.98	1.67	0.67
2.50	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
72	36	91.5	3040

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
10.4	5.8	15.44

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details: List of Included Subcomponents



UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

Description	Model #	Wt. (lbs.)
Masterpact Breaker	NW50L1	227
3kVA CPT	9070T3000D1	66
7.5kVA CPT	7S1HFOC	80
Overhead Traveling Breaker Lifter	80280-051-5X	75

UUT 3

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric
Model Line: PZ4
Model Number: PZ4 -Main Section, 5kA, 4P
Serial Number: 41324718-003

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.65	1	1.5	2.64	1.98	1.67	0.67
2.50	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
72	48	91.5	3930

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
9.9	4.1	10.6

Building Codes
 CBC 2022

Test Criteria
 ICC-ES AC156

Construction/Option Summary
 Carbon steel enclosure with powder coated finish.

UUT Mounting Details:



UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description	Model #	Wt. (lbs.)
Masterpact Breaker	NW50H2	300
1kVA CPT	9070T1000D1	22
10kVA CPT	10S1HFOC	140

UUT 4

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric
Model Line: PZ4
Model Number: PZ4 -Main & Feeder Lineup, 5kA
Serial Number: 41324718-004

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.64	1	1.5	2.62	1.97	1.67	0.67
2.50	0					

Dimensions/Weights ¹			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
80	66	91.5	5955

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
9.3	6.4	27.1

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #	Wt. (lbs.)
Masterpact Breaker	NW50L1	227
Masterpact Breaker	NW20H1	109
Masterpact Breaker	MTZ1-12L1	40
Masterpact Breaker	NT08	40
5kVA CPT	5S1HFOC	66
15kVA CPT	EE15S3HOC	140

¹Dimensions and weights listed are for the entire ganged UUT assembly. Individual section weights and dimensions are as follows:

- Section 1 (left) - 36W x 80D x 91.5H, 3,515 lbs.
- Section 2 (right) - 30W x 80D x 91.5H, 2,440 lbs.

UUT was rigid base mounted using (12) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 6

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric
Model Line: PZ4
Model Number: Arc Resisting PZ4-Feeder Section, 5kA
Serial Number: 41324718-005

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.64	1	1.5	2.62	1.97	1.67	0.67
2.50	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
60	22	91.5	2685

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
7.1	2.3	17.5

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #	Wt. (lbs.)
Masterpact Breaker	NW08H1	109
Masterpact Breaker	NW08H1	109
Masterpact Breaker	NW20H1	109
Masterpact Breaker	NW20H1	109
Roof Baffle	80280-029-50	-

UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 7

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric
Model Line: PZ4
Model Number: Arc Resisting PZ4-Main + Feeder, 5kA
Serial Number: 32816854-001

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.00	1	1.5	3.20	2.40	1.67	0.67
2.50	0					

Dimensions/Weights ¹			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
72	58	91.5	6023

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
8.8	4.0	9.0

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #	Wt. (lbs.)
Masterpact Breaker	MTZ3-50 H	227
Masterpact Breaker	MTZ2-32 H3	127
Masterpact Breaker	NW32H1	127
Masterpact Breaker	NW32H1	127
Masterpact Breaker	NW08H2	109
Masterpact Breaker	NW08H1	109
1kVA CPT	9070T1000D1	22

¹Dimensions and weights listed are for the entire ganged UUT assembly. Individual section weights and dimensions are as follows:

- Section 1 (left) - 36W x 72D x 91.5H, 3,515 lbs.
- Section 2 (right) - 22W x 60D x 91.5H, 2,508 lbs.

UUT was rigid base mounted using (8) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.



SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

Pre No. CC241547-01-R0

UUT 8

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric
Model Line: PZ4
Model Number: Arc Resisting PZ4-Main Section, 5kA
Serial Number: 31232009-002

Highest Passed Test Level

S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.65	1		2.64	1.98	1.67	0.67
2.50	0	1.5				

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
80	36	91.5	4185

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
9.9	4.1	11.9

Building Codes

CBC 2022

Test Criteria

ICC-ES AC156

Construction/Option Summary

Carbon steel enclosure with powder coated finish.

UUT Mounting Details:

List of Included Subcomponents



Description	Model #	Wt. (lbs.)
Masterpact Breaker 15kVA CPT	MTZ3-50 H	227
	EE15S3HOC	140

UUT was rigid base mounted using (4) 1/2"-13 Grade 5 bolts.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 9

Test Report# 71052R13 (UUT 2)

Manufacturer: Square D by Schneider Electric
Model Line: PZ4
Model Number: Arc Resisting PZ4-Feeder Section, 5kA w/Plenum
Serial Number: 31232009-002

Highest Passed Test Level

S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.11	1	1.5	3.38	2.53	1.41	0.57
2.11	0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
80	36	91.5	4125

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
11.2	7.5	>33.3

Building Codes

CBC 2022

Test Criteria

ICC-ES AC156

Construction/Option Summary

Carbon steel enclosure with powder coated finish.

UUT Mounting Details:



List of Included Subcomponents

Description	Model #	Wt. (lbs.)
Masterpact Breaker	NW50H3	227
Roof Exhaust Plenum	15"	-

UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 10

Test Report# PR077369-TR-18 (UUT 1)

Manufacturer: Square D by Schneider Electric
Model Line: QED-2
Model Number: QED-2 LV Switchboard, 2kA Drawout
 ATS
Serial Number: 40663090-001

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.65	1	1.5	2.64	1.98	1.67	0.67
2.50	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
48	36	91.5	1723

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
9.0	4.2	26.0

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
Carbon steel enclosure with powder coated finish.

UUT Mounting Details:

List of Included Subcomponents



Description	Model #	Wt. (lbs.)
Masterpact Breaker	NW20HF	142
Masterpact Breaker	NW20HF	142

UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 11

Test Report# PR051315-TR-16 (UUT2)

Manufacturer: Square D by Schneider Electric
Model Line: QED-2
Model Number: 54W I-Line QED-2 Power-Style LV Switchboard
Serial Number: 38064461-001

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.02	1		3.23	2.42	1.52	0.61
2.28	0	1.5				

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
36	54	91.5	1404

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
10.0	7.5	>33.3

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details:	List of Included Subcomponents
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UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.
Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

Description	Model #	Wt. (lbs.)
Surge Protective Device (SPD)	HL2IMA12C1	22

UUT 12

Test Report# No. 55636R08 (UUT2)

Manufacturer: Square D by Schneider Electric
Model Line: QED-2
Model Number: 36W QED-2 Power-Style LV Switchboard
Serial Number: FO# 085-24861930-001

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.73	1	1.5	2.96	2.08	1.97	0.79
2.96	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
24	36	91.5	895

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
7.3	7.7	7.8

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details: List of Included Subcomponents



Description	Model #	Wt. (lbs.)
Surge Protective Device (SPD)	TVS41MA48B	17

UUT was rigid base mounted using (4) 1/2"-13 Grade 5 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 13

Test Report# 1800444-TR-001 (UUT1)

Manufacturer: Square D by Schneider Electric
Model Line: QED-2
Model Number: Single Section QED-2 Switchboard (Combo 2kA I-line)
Serial Number: R7L05301

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.68	1	1.5	2.69	2.02	1.79	0.72
2.69	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
60	48	91.5	2176

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
8.6	4.0	21.0

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details: List of Included Subcomponents



UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

Description	Model #	Wt. (lbs.)
Molded Case Breakers	HJ150	5
	JJ250	5

UUT 14

Test Report# 1800444-TR-001 (UUT3)

Manufacturer: Square D by Schneider Electric
Model Line: QED-2
Model Number: 2-Section QED-2 Switchboard (3.2kA Main-Tie & Feeder)
Serial Number: R7L05301; R7L05302

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.78	1	1.5	2.85	2.14	1.89	0.76
2.84	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
60	72	91.5	5,000

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
8.2	5.3	18.7

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #	Wt. (lbs.)
Surge Protective Device (SPD)	TVS4IMA16B1	8.5

UUT was rigid base mounted using (12) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 15

Test Report# 2200538-TR-001
(UUT1a)

Manufacturer: Square D by Schneider Electric
Model Line: QED-2
Model Number: QED-2 LV Switchboard, 3kA I-Line Distribution Section
Serial Number: 44383040-001

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.05	1	1.5	3.28	2.46	1.82	0.73
2.73	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
36	54	91.5	1,421

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
10.1	7.98	20.9

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Carbon steel enclosure with powder coated finish.

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #	Wt. (lbs.)
Surge Protective Device (SPD)	HL41MA12C1	22

UUT was rigid base mounted using (6) 1/2"-13 Grade 5 bolts.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.