

Telephone: (541) 241-2310

Title: Principal & Program Manager

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

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) 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 Switchboards are integrated, low voltage, power and control systems and may include main switches General Description: and circuit breaker functions (see Certified Major Sub-Component Tables). Sheet metal framed enclosures come in NEMA Type 1 rating. Base Mounted Rigid -Mounting Description: None Tested Seismic Enhancements: **Applicant Information** Applicant Company Name: Pre Compliance Contact Person: Galen Reid Mailing Address: 36 SW Wall Street, Bend, OR 97702

HC/

Email: galen@go-pre.com



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION 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					
Certification Method					
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3					
Other (Please Specify):					
EOR CODE CO					
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					
Company Name: UNIVERSITY OF BUFFALO (SEESL)					
Contact Person: Yushan Fu DATE: 12/05/2024					
Mailing Address: 212 Ketter Hall, Buffalo NY 14260					
Telephone: (716) 645-4377 Email: yushanfu@buffalo.edu					
Company Name: WYLE LABORATIORIES					
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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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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

ap (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 OSP-0038

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):



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



SPECIAL SEISMIC CERTIFICATION **CERTIFIED COMPONENTS**

Square D by Schneider Electric Manufacturer:

Building Codes

Product Type:

Switchboards - Low Voltage

 $S_{DS} = 1.64g \text{ for z/h=1}$ $S_{DS} = 2.11g \text{ for z/h=0}$

 $I_{p} = 1.5$

CBC 2022

Model Line: QED-6

Base Mounted - Rigid (Standalone) **Mounting Configuration:**

Seismic Parameters

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	Мах. [Dimensi	ons (in)	Wt.	Max C.G.	Notes	UUT
Model Lille	IVIOGEI	D	W	Н	(lb)	Height	110163	
		54	22	91.5	2635	48.5		Interp.
	22/1/	60	22	91.5	2685	43.5	UUT1: 2515 lbs.	1,6
	22W47	72	22'-	91.5	2700	48.5		Interp.
		80	22	91.5	2750	48.5		Interp.
		BY54\/	oh 30hn	91.5	3100	<mark>48.5</mark>		Interp.
	30W	60	30	91.5	3200	48.5		Interp.
	3000	72	30	91.5	3300	48.5		Interp.
QED-6 Low	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	80	30	91.5	3400	48.5		Interp.
Voltage		54	36	91.5	3500	48.5		Interp.
Switchboards	1	60	36	91.5	3600	48.5		Interp.
	36W	72	36	91.5	3040	44.0		2
		//72	36	91.5	3900	48.5		Interp.
		80	U36	91.5	4185	48.5		8
		54	48	91.5	3800	48.5		Interp.
	48W	60	48	91.5	3850	48.5		Interp.
	4000	72	48	91.5	3930	46.0		3
		80	48	91.5	3930	48.5		Interp.

OR CODE CO

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

Square D by Schneider Electric Manufacturer: **Product Type:**

Switchboards - Low Voltage

Model Line: QED-6 **Seismic Parameters**

Building Codes

 $S_{DS} = 1.64g \text{ for z/h=1}$

 $S_{DS} = 2.11g \text{ for z/h=0}$

 $I_{p} = 1.5$

CBC 2022

Base Mounted - Rigid (Ganged) Mounting Configuration:

Construction Summary

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

Options Summary

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

Model Line	Model	Max. [Dimensio	ons (in)	Wt.	Max C.G.	Notes	UUT
11100101 21110	IVIOGEI	D	W	Н	(lb)	Height	Notes	
22W	141	54	22	91.5	2635	48.5		Interp.
	22/4/	60	22	91.5	2685	43.5	UUT7: 2508 lbs.	7
	2200	72	22'-	91.5	2700	48.5		Interp.
		80	22	91.5	2750	48.5		Interp.
		BY54 //	oh30nn	91.5	3100	48.5		Interp.
		60	30	91.5	3200	48.5		Interp.
	30 <mark>W</mark>	72	30	91.5	3300	48.5		Interp.
055.01		80	30	91.5	2440	48.5		4
QED-6 Low		80	30	91.5	3400	48.5		Interp.
Voltage Switchboards		54	36	91.5	3500	48.5		Interp.
Switchboards		60	36	91.5	3600	48.5		Interp.
	36W	//72	36	91.5	3515	44.0		7
		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.
	40)4/	60	48	91.5	3850	48.5		Interp.
	48W	72	48	91.5	3930	48.5		Interp.
		80	48	91.5	3930	48.5		Interp.

OR CODE CO

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.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Pre No. CC241547-01-R0

Manufacturer: Square D by Schneider Electric

Product Type: Switchboards - Low Voltage

Model Line: QED-6

Seismic Parameters

Building Codes

 $S_{DS} = 1.64g \text{ for z/h=1}$

 $S_{DS} = 2.11g \text{ for z/h=0}$

 $I_p = 1.5$

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	H*	150A H-Frame	3 Pole	4.8 lbs.	Interp.
(Schneider Electric)	HJ 150	150A H-Frame	3 Pole	4.8 lbs.	13
J-Frame	J*	250A J-Frame	2 Dala	5.3 lbs.	Interp.
(Schneider Electric)	JJ 2 <mark>50</mark>	250A J-Frame	3 Pole	5.3 lbs.	13
N.T.74 D	MTZ <mark>1 08</mark>	800A T-Frame		31 lbs.	Interp.
MTZ1 Breakers (Schneider Electric)	MTZ <mark>1 12</mark>	RV M 1200A T-Frame rim	3 Pole	31 lbs.	Interp.
(Scrineider Electric)	MTZ <mark>1 16</mark>	1600A T-Frame		31 lbs.	Interp.
	NT <mark>08</mark>	800A T-Frame		31 lbs.	Interp.
T-Frame Breakers (Schneider Electric)	NT12	1200A T-Frame	3 Pole	31 lbs.	Interp.
(Scrineider Electric)	NT16	1600A T-Frame	0	31 lbs.	Interp.
	MTZ1 08	800A T-Frame		40 lbs.	Interp.
MTZ1 Breakers (Schneider Electric)	MTZ1 12	1200A T-Frame	4 Pole	40 lbs.	4
(Scrineider Electric)	MTZ1 16	1600A T-Frame		40 lbs.	Interp.
	NT08	800A T-Frame		40 lbs.	4
T-Frame Breakers (Schneider Electric)	NT12	1200A T-Frame	4 Pole	40 lbs.	Interp.
(Schneider Electric)	NT16	1600A T-Frame		40 lbs.	Interp.
	MTZ2 08	800A MTZ2 Frame		109 lbs.	Interp.
	MTZ2 16	1600A MTZ2 Frame		109 lbs.	Interp.
MTZ2 Breakers (Schneider Electric)	MTZ2 20	2000A MTZ2 Frame	3 Pole	109 lbs.	Interp.
(Scrineider Electric)	MTZ2 32	3200A MTZ2 Frame		127 lbs.	7
	MTZ2 40	4000A MTZ2 Frame		127 lbs.	Interp.
	NW08	800A W-Frame		109 lbs.	1,6,7
<u>-</u>	NW16	1600A W-Frame		109 lbs.	Interp.
W-Frame Breakers	NW20	2000A W-Frame	3 Pole	109 lbs.	1,4,6
(Schneider Electric)	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, L1, L1F, LF, N, N1, NA. Circuit Breakers, Automatic Switches, and Non-Automatic Switches rated 254-635 VAC: 50/60 Hz



SPECIAL SEISMIC CERTIFICATION **CERTIFIED SUBCOMPONENTS**

Pre No. CC241547-01-R0

Manufacturer: Square D by Schneider Electric **Product Type:**

Switchboards - Low Voltage

Model Line: QED-6 **Seismic Parameters**

Building Codes

 $S_{DS} = 1.64g \text{ for z/h=1}$

 $S_{DS} = 2.11g \text{ for z/h=0}$

 $I_p = 1.5$

CBC 2022

TABLE 2

Table Description: Circuit Breakers

Component (Manufacturer)	Model	Description	Configuration	Weight	UUT
	MTZ2 08	800A MTZ2 Frame		142 lbs.	Interp.
	MTZ2 16	1600A MTZ2 Frame		142 lbs.	Interp.
MTZ2 Breakers (Schneider Electric)	MTZ2 20	2000A MTZ2 Frame	4 Pole	142 lbs.	Interp.
(Scrineider Electric)	MTZ2 32	3200A MTZ2 Frame		165 lbs.	Interp.
MTZ2 40		4000A MTZ2 Frame		165 lbs.	Interp.
	NW08	800A W-Frame	7	142 lbs.	Interp.
	NW16	1600A W-Frame	2	142 lbs.	Interp.
W-Frame Breakers (Schneider Electric)	NW20	2000A W-Frame	4 Pole	142 lbs.	10
(Scrineider Electric)	NW32	3200A W-Frame		165 lbs.	Interp.
	NW40	4000A W-Frame		165 lbs.	Interp.
MT70 Dundless	MTZ <mark>3 40</mark>	4000A MTZ3 Frame		227 lbs.	Interp.
MTZ3 Breakers (Schneider Electric)	MTZ3 50	5000A MTZ3 Frame	6 Pole	227 lbs.	7,8
(Schilleider Liectric)	MTZ3 60	6000A MTZ3 Frame		227 lbs.	Interp.
Y-Frame Breakers (Schneider Electric)	NW40	4000A Y-Frame	207	227 lbs.	Interp.
	NW50	5000A Y-Frame	6 Pole	227 lbs.	2,4
(Schilleider Liectric)	NW60	6000A Y-Frame	Y	227 lbs.	Interp.
MT72 Duankous	MTZ3 40	4000A MTZ3 Frame		300 lbs.	Interp.
MTZ3 Breakers (Schneider Electric)	MTZ3 50	5000A MTZ3 Frame	8 Pole	300 lbs.	Interp.
(Schilleider Liectric)	MTZ3 60	6000A MTZ3 Frame		300 lbs.	Interp.
V France Due alsone	NW40	4000A Y-Frame		300 lbs.	Interp.
Y-Frame Breakers (Schneider Electric)	NW50	5000A Y-Frame	8 Pole	300 lbs.	3
(Scrineider Electric)	NW60	6000A Y-Frame		300 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

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SPECIAL SEISMIC CERTIFICATION **CERTIFIED SUBCOMPONENTS**

Manufacturer: Square D by Schneider Electric **Product Type:**

Switchboards - Low Voltage

Model Line: QED-6 **Seismic Parameters**

Building Codes

 $S_{DS} = 1.64g \text{ for z/h=1}$

 $S_{DS} = 2.11g \text{ for z/h=0}$

 $I_p = 1.5$

CBC 2022

TABLE 3

Table Description: Electrical Components

Component (Manufacturer)	Model	Description	Notes	UUT
	9070T500D1	0.5 kVA, Single Phase, Cu Windings, 13 lbs.		Interp.
	9070T*	0.5-3kVA, Single Phase, Cu Windings, 13-66 lbs.		Interp.
	9070T1000D1	1 kVA, Single Phase, Cu Windings, 22 lbs.		3,7
O a matural Danner	9070T2000D1	2 kVA, Single Phase, Cu Windings, 49 lbs.		Interp.
Control Power Transformers	9070T3000D1	3 kVA, Single Phase, Cu Windings, 66 lbs.		2
(Square D)	5S1HFOC	5 kVA, Single Phase, Al Windings, 66 lbs.		4
(oquare b)	H*	5-15kVA, Single Phase, Al Windings, 66-140 lbs.		Interp.
	7S1HFOC	7.5 kVA, Single Phase, Al Windings, 80 lbs.		2
	10S1HFOC	10 kVA, Single Phase, Al Windings, 140 lbs.		3
	EE15S3HOC	15 kVA, Single Phase, Al Windings, 140 lbs.		4,8
	HL2IM <mark>A12C</mark> 1	120 kA, 22 lbs.		11
O Due to etime	HR*, HL*	120-240 kA, 22 lbs.		Interp.
Surge Protective Devices	HL4IMA12C1	120 kA, 22 lbs.		15
(Square D)	TVS4IMA16B1	160 kA, 8.5 lbs.		14
(Square D)	TVS*	120-480 kA, 8.5 <mark>-17 lb</mark> s.		Interp.
	TVS4IMA48B	480 kA, 17 lbs.		12
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		BUILDING		

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Square D by Schneider Electric

Switchboards - Low Voltage

Model Line: QED-6

Seismic Parameters

I_p = 1.5

Building Codes

CBC 2022

TABLE 4

Product Type:

Table Description: Accessories

 $S_{DS} = 1.64g \text{ for z/h=1}$

 $S_{DS} = 2.11g \text{ for z/h=0}$

Component (Manufacturer)	Model	Description	Notes	UUT
Traveling Lifter Assembly (Square D)	80280-051-5X	Overhead Traveling Breaker Lifter		2
		OSP-0038		
		BY: Mohammad Karim		
	C C	DATE: 12/05/2024		
	P	VIA BUILDING CO		



SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

UUT	Model	Test Report	Test Laboratory	S _{DS}	z/h	l _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	1.5
5		OR CNOTUSE	D			
6	Arc Resisting PZ4 - Feeder Section, 5kA	1900465-TR-001 R1	MA 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	BY _{71052R13} (UUT 2)	rim 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) DING	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:						

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UUT

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric

Model Line:

Model Number: PZ4 - 4 High Feeder Section 5kA

Serial Number: 41324718-001

Highest Passed Test Level z/h I_p A_{flx-h} A_{riq-h} A_{flx-v} A_{riq-v}

1.65 1 1.5 2.64 1.98 1.67 0.67

0 2.50

SDS

Dimensions/Weights

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

UUT Mounting Details:

Front-Back 9.1

Lowest Natural Frequency (Hz) Side-Side 5.8

Vertical 13.6

Building Codes

Test Criteria

Construction/Option Summary

CBC 2022

ICC-ES AC156

Carbon steel enclosure with powder coated finish.

st of Included Subcomponents

BUILDING

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



UUT 2

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric

Model Line:

Model Number: PZ4 -Main Section, 5kA, 3P

Serial Number: 41324718-002

Highest Passed Test Level z/h I_p A_{riq-h} A_{flx-h}

SDS $\boldsymbol{A}_{rig\text{-}v}$ A_{flx-v} 1.65 1 1.5 2.64 1.98

0 2.50

1.67 0.67

Dimensions/Weights

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

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical 10.4 15.44 5.8

Building Codes

Test Criteria

Construction/Option Summary

ICC-ES AC156 CBC 2022

Carbon steel enclosure with powder coated finish.

st of Included Subcomponents

UUT Mounting Details:



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

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 3

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric

Model Line:

Model Number: PZ4 -Main Section, 5kA, 4P

Serial Number: 41324718-003

Highest Passed Test Level z/h I_p A_{flx-h} A_{riq-h} A_{flx-v}

 A_{riq-v} 1.65 1 1.5 2.64 1.98 1.67

0 2.50

SDS

0.67

Dimensions/Weights

Depth (in) Width (in) Height (in) Weight (lbs.)

48 91.5 3930 72

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical 9.9 10.6 4.1

Building Codes CBC 2022

Test Criteria

ICC-ES AC156

Construction/Option Summary

Carbon steel enclosure with powder coated finish.

st of Included Subcomponents

UUT Mounting Details:



Description Description	Model #	Wt. (lbs.)
hammad Masterpact Breaker	NW50H2	300
1kVA CPT	9070T1000D1	22
10kVA CPT	10S1HFOC	140
2/03/2024		

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 4

SDS

Test Report# 1900465-TR-001 R1

A_{rig-v}

0.67

Manufacturer: Square D by Schneider Electric

Model Line: PZ4

Model Number: PZ4 -Main & Feeder Lineup, 5kA

Serial Number: 41324718-004

Highest Passed Test Level z/h I_p A_{flx-h} A_{rig-h} A_{flx-v}

1.64 1 2.50 0 1.5 2.62 1.97 1.67

Dimensions/Weights¹

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.

List of Included Subcomponents

UUT Mounting Details:



Description	Model #	Wt. (lbs.)
ad Masterpact Breaker	NW50L1	227
Masterpact B <mark>reak</mark> er	NW20H1	109
Masterpact Breaker	MTZ1-12L1	40
Masterpact Breaker	NT08	40
5kVA CPT	5S1HFOC	66
15k <mark>VA C</mark> PT	EE15S3HOC	140
3		

¹Dimensions and weights listed are for the entire ganged UUT assembly. Inividual 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:

Model Number: Arc Resisting PZ4-Feeder Section, 5kA

Serial Number: 41324718-005 **Highest Passed Test Level**

SDS z/h I_p A_{flx-h} A_{riq-h} A_{flx-v} A_{riq-v}

1.64 1 1.5 2.62 1.97 1.67 0.67 0 2.50

Dimensions/Weights

Depth (in) Width (in) Height (in) Weight (lbs.) 91.5 2685 22

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical 7.1 17.5 2.3

Building Codes

CBC 2022

60

Test Criteria

Construction/Option Summary

ICC-ES AC156

Carbon steel enclosure with powder coated finish.

List of Included Subcomponents

UUT Mounting Details:



Description 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	-
AXXXXXXXXX V		

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

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric

Model Line:

Model Number: Arc Resisting PZ4-Main + Feeder, 5kA

Serial Number: 32816854-001 **Highest Passed Test Level**

z/h A_{rig-v} I_p A_{flx-h} A_{riq-h} A_{flx-v}

0.67

2.00 1 1.5 3.20 2.40 1.67 0 2.50

Dimensions/Weights¹

Depth (in) Width (in) Height (in) Weight (lbs.)

72 6023 58 91.5

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical 8.8 4.0 9.0

Building Codes CBC 2022

Test Criteria

Construction/Option Summary

ICC-ES AC156 Carbon steel enclosure with powder coated finish.

SDS

UUT Mounting Details:



List of included Subcomponents		
Description	Model #	Wt. (lbs.)
Masterpact Breaker	MTZ3-50 H	227
Masterpact B <mark>reake</mark> r	MTZ2-32 H3	127
Masterpact Breaker	NW32H1	127
Masterpact Breaker	NW32H1	127
Masterpact Breaker	NW08H2	109
Masterpact Breaker	NW08H1	109
1kVA CPT	9070T1000D1	22
No		

¹Dimensions and weights listed are for the entire ganged UUT assembly. Inividual 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.

Pre Compliance (541) 241-2310 www.go-pre.com



UUT 8

Test Report# 1900465-TR-001 R1

Manufacturer: Square D by Schneider Electric

Model Line:

Model Number: Arc Resisting PZ4-Main Section, 5kA

Serial Number: 31232009-002

Highest Passed Test Level z/h I_p A_{flx-h} A_{riq-h} A_{flx-v}

SDS A_{riq-v} 1.65 1 2.64

0 2.50

1.5

1.98 1.67 0.67

Wt.

Dimensions/Weights

Depth (in) Width (in) Height (in) Weight (lbs.)

Front-Back

Lowest Natural Frequency (Hz) Side-Side

Vertical

80

36

91.5

4185

9.9

4.1

11.9

Building Codes

Test Criteria

ICC-ES AC156

Construction/Option Summary

List of Included Subcomponents

CBC 2022

Carbon steel enclosure with powder coated finish.



Description	Model #	(lbs.)
hammad Masterpact Breaker	MTZ3-50 H	227
15kVA CPT	EE15S3HOC	140
: 12/05/2024		
UILDING		

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:

Model Number: Arc Resisting PZ4-Feeder Section,

5kA w/Plenum

Serial Number: 31232009-002

Dimensions/Weights

Depth (in) Width (in) Height (in) Weight (lbs.) 80

91.5 4125 36

Highest Passed Test Level SDS z/h I_p A_{flx-h} A_{riq-h} A_{flx-v} A_{riq-v} 2.11 1 1.5 3.38 2.53 1.41 0.57 0 2.11

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical 11.2 >33.3 7.5

Building Codes CBC 2022

Test Criteria ICC-ES AC156 **Construction/Option Summary**

Carbon steel enclosure with powder coated finish.

UUT Mounting Details:



-00	Description	Model #	Wt. (lbs.)
mad	Masterpact Breaker	NW50H3	227
	Roof Exhaust <mark>Plenu</mark> m	15"	-

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.



 I_p

1.5

UUT 10

SDS

1.65

2.50

z/h

1

0

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

 A_{riq-h}

1.98

 A_{flx-v}

1.67

 A_{riq-v}

0.67

Manufacturer: Square D by Schneider Electric

Model Line: QED-2

Model Number: QED-2 LV Switchboard, 2kA Drawout

ATS

Serial Number: 40663090-001

Dimensions/Weights

 Depth (in)
 Width (in)
 Height (in)
 Weight (lbs.)

 48
 36
 91.5
 1723

Lowest Natural Frequency (Hz)

Highest Passed Test Level

 A_{flx-h}

2.64

Front-Back Side-Side Vertical 9.0 4.2 26.0

Building Codes
CBC 2022

Test Criteria

Construction/Option Summary

ICC-ES AC156

Carbon steel enclosure with powder coated finish.

List of Included Subcomponents

UUT Mounting Details:



	Description	Model #	(lbs.)
amma	Masterpact Breaker	NW20HF	142
	Masterpact B <mark>reake</mark> r	NW20HF	142
40/05	10004		

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

12/05/2024

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

Dimensions/Weights

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

UUT Mounting Details:

Highest Passed Test Level SDS z/h I_p A_{flx-h} A_{riq-h} A_{flx-v} A_{rig-v} 2.02 1 1.5 3.23 2.42 1.52 0.61 0 2.28

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical 10.0 >33.3 7.5

Building Codes CBC 2022

Test Criteria

Construction/Option Summary

ICC-ES AC156

Carbon steel enclosure with powder coated finish.

Wt.

(lbs.)

22

HL2IMA12C1



List of Included Subcomponents '-0038 Description Model#

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.

L. Go-pro com	(541) 24	11_2210
.go-pre.com	(341) 22	+1-2310



 I_p

UUT 12

SDS

1.73

2.96

z/h

Test Report# No. 55636R08 (UUT2)

 A_{riq-h}

 A_{flx-v}

 $\boldsymbol{A}_{rig\text{-}v}$

Wt.

(lbs.)

17

Manufacturer: Square D by Schneider Electric

Model Line: QED-2

Model Number: 36W QED-2 Power-Style LV

Switchboard

FO# 085-24861930-001 Serial Number:

Dimensions/Weights

Depth (in) Width (in) Height (in) Weight (lbs.) 24

91.5 895 36

UUT Mounting Details:

1 1.5 2.96 2.08 1.97 0.79 0

 A_{flx-h}

Lowest Natural Frequency (Hz)

Highest Passed Test Level

Front-Back Side-Side Vertical 7.3 7.8 7.7

Building Codes

Test Criteria

Construction/Option Summary

ICC-ES AC156 CBC 2022

Carbon steel enclosure with powder coated finish.

List of Included Subcomponents



Description Model# ohamm Surge Protective Device (SPD) TVS4IMA48B

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.



 I_p

1.5

UUT 13

SDS

1.68

2.69

z/h

1

0

Description

Molded Case Breakers

Test Report# 1800444-TR-001 (UUT1)

 A_{riq-h}

2.02

Model#

HJ150

JJ250

 A_{flx-v}

1.79

A_{rig-v}

0.72

Wt.

(lbs.)

5

5

Manufacturer: Square D by Schneider Electric

Model Line: QED-2

Model Number: Single Section QED-2 Switchboard

(Combo 2kA I-line)

Serial Number: R7L05301

Dimensions/Weights

 Depth (in)
 Width (in)
 Height (in)
 Weight (lbs.)

 60
 48
 91.5
 2176

UUT Mounting Details:

Lowest Natural Frequency (Hz)

Highest Passed Test Level

 A_{flx-h}

2.69

Front-Back Side-Side Vertical 8.6 4.0 21.0

Building Codes
CBC 2022

Test Criteria

Construction/Option Summary

ICC-ES AC156

Carbon steel enclosure with powder coated finish.



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.

ac pro com	(5.41) 2.4	11 2210



 I_p

1.5

UUT 14

 S_{DS}

1.78

2.84

Test Report# 1800444-TR-001 (UUT3)

 A_{riq-h}

2.14

 A_{flx-v}

1.89

A_{rig-v}

0.76

Wt.

(lbs.)

8.5

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

Dimensions/Weights

 Depth (in)
 Width (in)
 Height (in)
 Weight (lbs.)

 60
 72
 91.5
 5,000

Lowest Natural Frequency (Hz)

z/h

1

0

Front-Back Side-Side Vertical 8.2 5.3 18.7

Highest Passed Test Level

 A_{flx-h}

2.85

Building Codes

Test Criteria

Construction/Option Summary

CBC 2022 ICC-ES AC156

UUT Mounting Details:

Carbon steel enclosure with powder coated finish.

List of Included Subcomponents



Description Model #
TVS4IMA16B1

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

2200538-TR-001 **Test Report#**

Highest Passed Test Level

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

Dimensions/Weights

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

SDS z/h $\mathbf{A}_{\text{flx-v}}$ I_p A_{flx-h} A_{riq-h} A_{riq-v} 2.05 1 1.5 3.28 2.46 1.82 0.73 0 2.73

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical 10.1 20.9 7.98

Building Codes

Test Criteria

Construction/Option Summary

ICC-ES AC156 CBC 2022

Carbon steel enclosure with powder coated finish.

List of Included Subcomponents

Model#

HL4IMA12C1

Description

Wt.

(lbs.)

22



E: 12/0	05/2024	
	DING CO	
BUTLE	ING	
ade		
ng		
)		

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

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