

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0046

HCAI Special Seismic Certification Preapproval (OSP)
Incar Special Seismic Certification Preapproval (USP)

Туре:

X Renewal

Manufacturer Information

New

Manufacturer: Square D by Schneider Electric

Manufacturer's Technical Representative: Scott Littler

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

None

Telephone: (615) 267-9407

Email: scott.littler@se.com

Product Information

Product Name: Switchgear/Switchboards Product Type: Switchgear - Medium Voltage

 Product Model Number:
 MasterClad (4.76kV to 38kV) and Arc Resisting MasterClad (4.76kV to 15kV) Switchgear systems with bus Ampacity ratings from 1200A to 3000A (see Certified Product Listing tables).

 General Description:
 Distribution and Auxiliary/Meter bay Metal-Clad Switchgear sections packaged in NEMA Type 1

and Type 3R sheet metal framed enclosures. Sub-components consist of VR Series vacuum interrupting circuit breakers, voltage transformers, control power transformers, meters, protective relays, and surge capacitors (see Certified Major Sub-Components table). The Arc Resistant offering includes arc flash mitigation and arc flash containment features.

Mounting Description: Rigid, Floor Mounted

Tested Seismic Enhancements:

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



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

"A healthier California where all receive equitable, affordable, and quality health care"

OSP-0046



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HCAi

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSP-0046



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design	Basis of Equipment or Components	$(F_p/W_p) = 1.40 \text{ (SDS} = 1.86); 0.95 $	SDS = 2.′	10)	
S	SDS (Design spectral response accele	eration at short period, g) = 1.86 (z/h =	1); 2.10 ((SDS = 0)	
a	ap (Amplification factor) =	2.5			
F	Rp (Response modification factor) =	6.0			
C	20 (System overstrength factor) =	2.0			
I	p (Importance factor) =	1.5			
z	z/h (Height ratio factor) =	1 and 0			
١					
(Dverall dimensions and weight =	See Attachment ODF	_		
	Rp (Response modification factor) = 6.0 Ω0 (System overstrength factor) = 2.0 lp (Importance factor) = 1.5 z/h (Height ratio factor) = 1 and 0 Natural frequencies (Hz) = See Attachment Overall dimensions and weight = See Attachment Verall distack distack dimension See Attachment<				
Date:	4/15/2024	OSP-0046	5		
Name:	Mohammad Karim		Title:	Supervisor, Health Facilities	
Special	l Seismic Certification Valid Up to: SE	ps(g) = 1.86	z/h =	1	
Conditi	on of Approval (if applicable):	DATE: 04/15/2024			
		PRIVIA BUILDING CODE	·202		



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OSP-0046



Manufacturer: Product Type: Model Line:

Square D by Schneider Electric Switchgear – Medium Voltage Masterclad

Seismic Parameters

Building Codes

S_{DS} = 1.86g for z/h=1 S_{DS} = 2.10g for z/h=0

CBC 2022

TABLE 1A

Mounting Configuration: Rigid Base Mounted - Standalone

Construction Summary

Masterclad: NEMA Type 1 and 3R enclosures constructed of carbon steel. Copper bus. Arc Resistant Masterclad: NEMA Type 1 enclosures with ANSI Type 2B Arc Resisting indoor rating. Constructed of carbon steel. Copper bus.

Options Summary

 $I_{\rm p} = 1.5$

Masterclad: Voltage rating from 4.76 kV to 27 kV. Bus Ampacity ratings from 1200A to 3000A. Arc Resistant Masterclad: Voltage rating from 4.76 kV to 15 kV. Bus Ampacity ratings from 1200A to 3000A. See tables 2-6 for a complete listing of optional

components.

Model Line	Model			ons (in)	Wt.	Notes	υυτ
		D	W	н	(lb)		
Masterclad MV Switchgear - Distribution and Auxiliary/Meter Bay	36W	92 BY:M	36 phamr	95 nad Ka	4572 rim	0	Interp.
		109 DATE	36 04/	109 15/202	4240 4		1
	48W	92	48	95	3800	S	Interp.
	Č	109	48	109	4000		Interp.
Arc Resistant Masterclad MV	36W	94 5	J ³⁶	DI 99G	8061		8
Switchgear - Distribution and Auxiliary/Meter		94	36	99	9164		Interp.
Bay		94	36	99	9164		7
		_					



Manufacturer: Product Type: Model Line:

Square D by Schneider Electric Switchgear – Medium Voltage Masterclad

Seismic Parameters

Building Codes

S_{DS} = 1.86g for z/h=1 S_{DS} = 2.10g for z/h=0

CBC 2022

TABLE 1B

Mounting Configuration: Rigid Base Mounted - Ganged

Construction Summary

Masterclad: NEMA Type 1 and 3R enclosures constructed of carbon steel. Copper bus. Arc Resistant Masterclad: NEMA Type 1 enclosures with ANSI Type 2B Arc Resisting indoor rating. Constructed of carbon steel. Copper bus.

Options Summary

 $I_{\rm p} = 1.5$

Masterclad: Voltage rating from 4.76 kV to 27 kV. Bus Ampacity ratings from 1200A to 3000A. Arc Resistant Masterclad: Voltage rating from 4.76 kV to 15 kV. Bus Ampacity ratings from 1200A to 3000A. See tables 2-6 for a complete listing of optional components.

Model Line	Model	Max. D	imensi	ons (in)	Wt.	Notes	υυτ
	MOUEI	D	W	н	(lb)	Notes	
		92	36	95	4572	4a (3778 lbs.); 4b (4572 lbs.)	4a,4b
	36W	R 109/	36 m	109	4146	5b is an HVL section	5a
	3077	111	36	95	4600		Interp
		127	36	109	4998	<mark>2a (4</mark> 692 lbs.); 2b (4998 lbs.)	2a,2b
		92 -	48	95	3800		Interp
	48W	109	48	109	4000	0	Interp
Masterclad MV	487	111	48	95	4300		Interp
Switchgear -		127	48	109	4350	· /	Interp
Distribution and Auxiliary/Meter		/92	60	95	4000	7	Interp
Bay	60W	109	60	109	4400		Interp
239		111	60	95	5000		Interp
		127	60	109	5400		Interp
	80W	92	80	95	4400		Interp
		109	80	109	4800		Interp
		111	80	95	5400		Interp
		127	80	109	5800		Interp
Arc Resistant Masterclad MV	36W	94	36	99	8061		Interp
Switchgear - Distribution and		94	36	99	9164		Interp
Auxiliary/Meter Bay		94	36	99	9164		Interp



 $I_{p} = 1.5$

Manufacturer: Product Type: Model Line: Square D by Schneider Electric Switchgear – Medium Voltage Masterclad

Seismic Parameters

Building Codes

S_{DS} = 1.86g for z/h=1 S_{DS} = 2.10g for z/h=0

CBC 2022

TABLE 2

Enclosure Extensions

Component (Manufacturer)	Model	Description	Notes	UUT
Plenum Assembly (Square D)	18"	Roof Exhaust Plenum Adds 18" to Height		7
		FOR CODE COA		
	AL			
		OSP-0046		
		SY: Mohammad Karim		
		DATE: 04/15/2024		
		BUILDING		



 $I_{p} = 1.5$

Manufacturer:SqProduct Type:SwModel Line:Ma

Square D by Schneider Electric Switchgear – Medium Voltage Masterclad

Seismic Parameters

Building Codes

S_{DS} = 1.86g for z/h=1 S_{DS} = 2.10g for z/h=0

CBC 2022

TABLE 3

Circuit Breakers

Component (Manufacturer)	Model	Description	Notes	UUT
	VR-05025-12	4.76kV, 40kA Interrupting, 1200A, 430 lbs.		1
	VR*	4.76kV, 40-63kA Interrupting, 1200-3000A, 800 lbs.		Interp.
Circuit Breakers (Schneider Electric)	VR*	8.25kV, 40-50kA Interrupting, 1200-3000A, 500 lbs.		Interp.
	VR-15050-20	15kV, 25kA Interrupting, 2000A, 430 lbs.		5
	VR*	15kV, 25-63kA Interrupting, 1200-3000A, 800 lbs.		Interp.
	VR-15150-30	15kV, 63kA Interrupting, 3000A, 800 lbs.		4
	VR*	27kV, 16-40kA Interrupting, 1200-2000A, 625 lbs.		Interp.
	VR-27040-20	27kV, 40kA Interrupting, 2000A, 650 lbs.		2
		BY: Mohammad Karim		
		DATE: 04/15/2024		
	2			
		BUILDING		



 $I_{p} = 1.5$

Manufacturer: Product Type: Model Line: Square D by Schneider Electric Switchgear – Medium Voltage Masterclad

Seismic Parameters

Building Codes

S_{DS} = 1.86g for z/h=1 S_{DS} = 2.10g for z/h=0

CBC 2022

TABLE 4

Voltage Transformers

Component (Manufacturer)	Model	Description	Notes	UUT
	PTG3160242FGC1	2400V/120V; Cu Windings; 34 lbs.		1
	PT*	3000V/120V; Cu Windings; 34 lbs.		Interp.
	PT*	4200V/120V; Cu Windings; 34 lbs.		Interp.
	PT*	7200V/120V; Cu Windings; 85 lbs.		Interp.
	PT*	8400V/120V; Cu Windings; 85 lbs.		Interp.
	PT*	12000V/120V; Cu Windings; 85 lbs.		Interp.
N/ 11	PTG52SD02293FFG	12470V/120V; Cu Windings; 85 lbs.		5
Voltage Transformers	PT*	13200V/120V; Cu Windings; 125 lbs.		Interp.
(ITI/GE)	PT*	13800V/120V; Cu Windings; 125 lbs.		Interp.
(11,02)	PT*	16500V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	20780V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	22860V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	23000V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	24940V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	26400V/120V; Cu Windings; 125 lbs.		Interp.
	PTG61125SD03591	27000V/120V; Cu Windings; 125 lbs.		2
	V9*	2400V/120V; Cu Windings; 35 lbs.		Interp.
	V9-422FFGC2-01	4200V/120V; Cu Windings; 35 lbs.		9
	V9*	4200V/120V; Cu Windings; 35 lbs.		Interp.
	V9*	4800V/120V; Cu Windings; 35 lbs.		Interp.
	V21*	4200V/120V; Cu Windings; 90 lbs.		Interp.
	V21*	4800V/120V; Cu Windings; 90 lbs.		Interp.
	V21*	6600V/110V; Cu Windings; 90 lbs.		Interp.
	V21*	7200V/120V; Cu Windings; 90 lbs.		Interp.
Voltage Transformers	V21*	8400V/120V; Cu Windings; 90 lbs.		Interp.
(Amran)	V21.1-2-123FF	12000V/120V; Cu Windings; 90 lbs.		9
(, and any	V21*	12000V/120V; Cu Windings; 90 lbs.		Interp.
	V21*	12470V/120V; Cu Windings; 90 lbs.		Interp.
	V21*	13200V/120V; Cu Windings; 90 lbs.		Interp.
	V21*	13800V/120V; Cu Windings; 90 lbs.		Interp.
	V21*	14400V/120V; Cu Windings; 90 lbs.		Interp.
	V22*	10200V/120V; Cu Windings; 125 lbs.		Interp.
	V22*	12000V/120V; Cu Windings; 125 lbs.		Interp.
	V22*	13200V/120V; Cu Windings; 125 lbs.		Interp.

Pre Compliance

(541) 241-2310

4/15/2024



 $I_{p} = 1.5$

Manufacturer:Square D by Schneider ElectricProduct Type:Switchgear – Medium VoltageModel Line:Masterclad

Seismic Parameters

Building Codes

S_{DS} = 1.86g for z/h=1 S_{DS} = 2.10g for z/h=0

CBC 2022

TABLE 4

Voltage Transformers

Component (Manufacturer)	Model	Description	Notes	UUT
	V22*	13800V/120V; Cu Windings; 125 lbs.		Interp.
	V22*	14400V/120V; Cu Windings; 125 lbs.		Interp.
	V22*	18000V/120V; Cu Windings; 125 lbs.		Interp.
Voltage	V22*	21000V/120V; Cu Windings; 125 lbs.		Interp.
Transformers	V22*	23000V/120V; Cu Windings; 125 lbs.		Interp.
(Amran)	V22*	24000V/120V; Cu Windings; 125 lbs.		Interp.
	V22.6-2 <mark>492</mark>	24900V/120V; Cu Windings; 125 lbs.		9
	V22*	24940V/120V; Cu Windings; 125 lbs.		Interp.
	V2 <mark>2*</mark>	25000V/120V; Cu Windings; 12 <mark>5 lbs</mark> .		Interp.
		BY: Mohammad Karim		
		DATE: 04/15/2024		
	2			
		BUILDING		



 $I_{p} = 1.5$

Manufacturer: Product Type: Model Line:

Square D by Schneider Electric Switchgear – Medium Voltage Masterclad

Seismic Parameters

Building Codes

S_{DS} = 1.86g for z/h=1 S_{DS} = 2.10g for z/h=0

CBC 2022

TABLE 5

Control Power Transformers

Component (Manufacturer)	Model	Description	Notes	UUT
	CPTS3605242A	5 kVA, 2400V/120V; Cu Windings; 165 lbs.		2
	CPTS36054161A	5 kVA, 4160V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS3605482A	5 kVA, 4800V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS5955722A	5 kVA, 7200V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS5955123A	5 kVA, 12000V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS59551242A	5 kVA, 12470V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS59551322A	5 kVA, 13200V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS36010242A	10 kVA, 2400V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS360104161A	10 kVA, 4160V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS36 <mark>0104</mark> 82A	10 kVA, 4800V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS59 <mark>5107</mark> 22A	10 kVA, 7200V/120V; Cu Windings; 250 lbs.		Interp.
Control Power Transformers	CPTS59510123A	10 kVA, 12000V/120V; Cu Windings; 250 lbs.		Interp.
(ITI/GE)	CPTS595101242A	10 kVA, 12470V/120V; Cu Windings; 250 lbs.		Interp.
(ITI/OE)	CPTS595101322A	10 kVA, 13200V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS36015242A	15 kVA, 2400V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS360154161A	15 kVA, 4160V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS36015482A	15 kVA, 4800V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS59515722A	15 kVA, 7200V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS59515123A	15 kVA, 12000V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS595151242A	15 kVA, 12470V/120V; Cu Windings; 290 lbs.		5
	CPTS595151322A	15 kVA, 13200V/120V; Cu Windings; 290 lbs.		Interp.
	CPT36025242A	25 kVA, 2400V/120V; Cu Windings; 411 lbs.		Interp.
	CPT360254161A	25 kVA, 4160V/120V; Cu Windings; 411 lbs.		2
	CPT36025482A	25 kVA, 4800V/120V; Cu Windings; 411 lbs.		Interp.
		Image: Constraint of the second se		



 $I_{p} = 1.5$

Manufacturer: Product Type: Model Line:

Square D by Schneider Electric Switchgear – Medium Voltage Masterclad

Seismic Parameters

Building Codes

S_{DS} = 1.86g for z/h=1 S_{DS} = 2.10g for z/h=0

CBC 2022

TABLE 6

Electrical Components

Component (Manufacturer)	Model	Description	Notes	UUT
	9L20FX003XHS	3kV; 2.9 lbs.		1
	9L*	6-12kV; 3.3-4.3 lbs.		Interp.
Surge Arresters	9L20FXX015XHS	15kV; 5.6 lbs. DF		5
(GE)	9L*	18-21kV; 5.6-6.2 lbs.	Pha	Interp.
High Frequency Transient Surge Suppressors (Simotech)	9L20FXX024XHS	24kV; 8.3 lbs.		2
	9L*	27kV; 8.7 lbs.	Similar weight, passive component	Interp.
	M*	3.3-7.2kV; 35.3 lbs.	2	Interp.
	M3-4. <mark>16kV</mark>	4.16kV; 35.3 lbs.046	L L L	3
	M*	11-13.8kV; 42 lbs.		Interp.
	M3-1 <mark>2.5k</mark> V	12.5kV; 42 lbs. ad Ka	rim 0	3
(Sinotech)	M*	22kV; 44 lbs.	Similar weight, passive component	Interp.
				Image: Constraint of the sector of



Pre No. CC241405-01-R0

UUT	Model	Test Report	Test Laboratory	S _{DS}	z/h	l _p
1	1-15kV, NEMA 3R, Non Walk-in Masterclad Switchgear	SEESL-2014-11 Rev 4 (UUT1)	SEESL	1.92 2.11	1 0	1.5
2	27-38kV, NEMA 3R, Non Walk-in Masterclad Switchgear	SEESL-2014-11 Rev 4 (UUT2)	SEESL	1.88 2.10	1 0	1.5
3	1-15kV, NEMA 1, HVL Load Interrupter Switchgear	SEESL-2014-11 Rev 4 (UUT4)	SEESL	1.88 2.10	1 0	1.5
4	5-15kV, NEMA 1, Masterclad Switchgear	70081R12 Rev A (UUT1)	Wyle (NTS Huntsville)	2.12 3.60	1 0	1.5
5	5-15kV, NEMA 3R, Non Walk-in Masterclad/HVL Switchgear	PEER-STI/2014-04R Rev01 (UUT1)	PEER	1.88 2.70	1 0	1.5
6		NOT USE	DMB			
7	5-15kV, Arc Resistant Masterclad Switchgear	70712R13 (UUT1)	Wyle (NTS Huntsville)	2.59 3.06	1 0	1.5
8	5-15kV, Arc Resistant Masterclad Switchgear	70712R13P-0046 (UUT2)	Wyle (NTS Huntsville)	2.35 3.01	1 0	1.5
9	15kV Main & Feeder Masterclad Switchgear	BTR241399-01-R0 ad Ka (UUT2)	rim ETL	1.86 2.98	1 0	1.5
		DATE: 04/15/202	24			
			2			
		RNIA BUILDING	CODE			
		BUILDING				
lotes:					1	



	UUT 1	Test Rep	ort# SEE (UU	SL-2014-1 T1)	1 Rev 4			
Manufacturer: Square D by Schneider El	ectric	Highest Pa	assed Te	stlevel				
Model Line: Masterclad	S _{DS}	z/h l _p		A _{flx-h} A _{rig-h} A _{flx-v}				
Model Number: FO# 34089617-006	1.92	1			0			
Serial Number: N/A	2.11	1.5 0	3.07	2.30 1.	41 0.57			
	2.11	Ū						
Dimensions/Weights		owest Natu	ral Frequ	ency (Hz))			
Depth (in) Width (in) Height (in) Weig	ht (lbs.) Front-Ba	ick S	ide-Side	V	ertical			
109 36 109 4	.240 13.9		7.5		22.0			
Building Codes Test Crit		Constructio						
CBC 2022 ICC-ES A		3R outdoor, r		n enclosure	9			
	constructed	of carbon ste	el.					
UUT Mounting Details:	OSP-0046	st of Includ	ed Subco	omponent	S			
	DSF-0040 Des	scription		Mode	el #			
	ammad Karim	Relay		SEL-30	00G			
		Relay		GE 23	39			
	Pov 04/15/2024	ver Meter	2	S7750A0C0	B6C1A0A			
	04/ 13/2024	Relay		S24	Ļ			
	Voltage	e Tr <mark>ansfor</mark> mer		PTG31602	42FGC1			
	Voltage	e Transformer		PTG42SD03	3823FFB			
	Circ	uit Breaker		VR-0502	25-12			
	Surg	e Arrester		9L20FXX0	03XHS			
	/ILDIN1200A Co	opper Main Bu	S	N/A				
	1							
	0.8							
- Anna -								
and the second s								
	in an							
Unit was base mounted using (4) 1/2" Grade	8 holts							
with Belleville conical spring washers torqued								
ftlbs.								
Unit maintained structural integrity and remai	ned							
operational per manufacturer requirement fol	lowing							

Pre Compliance

unit per operating conditions.

shake table test. All contents were included in the



		UUT	Г 2	Test	: Repo	rt# ^{SEE} (UL	SL-201 IT2)	4-11 Re	v 4
Manufacturer:	Square D by Schne	eider Electric			-	ssed Te			
Model Line:	Masterclad	4	S _{DS}	z/h	۱ _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
Model Number: Serial Number:	FO# 34089617-00 N/A		1.88	1 0	1.5	3.01	2.26	1.41	0.57
Senai Number.	N/A		2.10	0					
Dir	nensions/Weight	S		Lowest	Natur	al Frequ	Jencv (Hz)	
Depth (in) Width		Weight (lbs.)	Front-B			de-Side		Vertio	cal
127 72	109	9690	10.3			5.1		16.0)
Building Code	es Te	est Criteria				/Option			
CBC 2022	IC	C-ES AC156	NEMA Type carbon steel						
		St.	Distribution Steel						
			to a 36" wide	e x 127" d	eep Ma	sterclad,	2000A 1-	-High,	
	II II		Distribution S	Section w	reighing	4,998 lbs	s. (UUT-2	2b).	
11117	T Mounting Detail	s. 03F-	0040	ist of l		d Subc	ompon	onte	
00							_		
	11	BV -Mohamr	nau Kar D e	escription	on		M	odel #	
				Relay			7	805D	
(Least)		. 04/	15/2024	Relay	V/		G	E C60	
1 3	178		Pc	ower Met	er			870	
1			Cir	cuit Breal	ker		VR-2	27040-20	C
			Voltag	ge Transf	ormer		PT6112	25SD035	591
			Control P			r	CPTS	3605242	2A
		UIL	1 1 1	cuit Brea				26250C	
		2	Control P			er		6025416	1A
2 a	2b		2000A (Copper N	lain Bus			N/A	_
2				Fuse			9F60	DNJ007	/
100	- 50								
and the second s	and a								
		-							
		12							
	unted using (6) 1/2"								
with Belleville coni ftlbs.	cal spring washers	torqued to 107							
	ructural integrity and	d remained							
	anufacturer requirem								
	Il contents were inc	-							

Pre Compliance

unit per operating conditions.



		UUT	۲3		Repo	rt# (UL	SL-201 IT4)		v 4
Model Line: Mas	are D by Schne terclad 34206074-00		S_{DS} 1.88 2.10	Highe z/h 1 0	est Pas I _p 1.5	ssed Te A _{flx-h} 3.01	est Leve A _{rig-h} 2.26	A_{flx-v} 1.41	A _{rig-v} 0.57
Dimens Depth (in) Width (in) 54.5 76	ions/Weights Height (in) 90	Weight (Ibs.) 2975	Front-B 15.5			al Frequ le-Side 8.9	uency (Hz) Vertic >33.	
Building Codes CBC 2022 UUT Mo		st Criteria C-ES AC156 HC OSP-	NEMA Type / steel. Consis weighing 1,50 deep distribu	I, non wa ts of a 38 05 lbs. (U ition sect	Ik-in end " wide > IUT-3a), ion weig	k 54.5" de , connect	onstructe eep distri ed to a 3 70 lbs. (U	ed of car bution s 8" wide UT-3b)	ection
		RV •Mohamr	nad Kari <mark>be</mark> 15/2024	Switch	on V		4403	odel # 6-340-5 0-803-5	
-				e Suppre e Suppre Fuse Fuse			M3 155GX	-12.5kV -4.16kV QSJD20 D815A47	
-	1790	BUIL	ING Sur	ge Arrest Relay	ter		9L20F	XX018XF T87	
	3a	3b		or Opera				8-650-5 N/A	0
				Fuse			423	D815A47	
Unit was base mounted with Belleville conical sp ftlbs.	-								

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



		UUJ	۲4	Test	Repo	rt#)81R12 F IT1)	Rev A	
Model Line: N	Iodel Line: Masterclad				est Pa: I _p	ssed Te A _{flx-h}	st Leve A _{rig-h}	el A _{flx-v}	A _{rig-v}
	O# 28258835 I/A		2.12 3.60	1 0	1.5	3.39	2.54	2.41	0.97
	ensions/Weights				Natur	al Frequ	uency (Hz)	
Depth (in) Width (ir 92 72	ו) Height (in) 95	Weight (Ibs.) 8350	Front-B 9.9	ack	Sic	d e-Side 7.7		Vertio 24.0	
Building Codes	Те	st Criteria		Constr	uction	/Option	Summ	ary	
CBC 2022 UUT N	ICC Vounting Details	C-ES AC156	NEMA Type steel. Consis High Distribu connected to 2-High, Distr	ts of a 36 tion Sect a 36" wi ibution S	6" wide x ion weig ide x 92 ection w	x 92" dee ghing 3,77 " deep Ma	p Master 78 lbs. (L asterclac 1,572 lbs	clad, 30 IUT-4a), I, 2000A . (UUT-4	00A 1- /1200A
		RV · Mohamr	nad Kari <mark>b</mark> a	scriptio	on l		M	odel #	
			Circ	cuit Breal	ker		VR-1	5150-30)
And in case of the local division of the loc		E: 04/	15/2024 Circ	cuit Breal	ker		VR-1	5150-20)
			Circ	cuit Breal	ker		VR-2	15150-12	2
			Sur	ge Arres	ter		9L20F	XX005XI	HS
	-	BUIL	3000A C	Copper M	lain Bus			N/A	
4a	4b								
Unit was base mount with Belleville conical lbs. Unit maintained struc operational per manu	l spring washers to ctural integrity and	orqued to 70 ft I remained							
shake table test. All c	contents were incl	uded in the							

Pre Compliance

unit per operating conditions.



			UU	Г 5	Test	Repo	rt#	R-STI/2 01 (UU		IR
Manufacture Model Line: Model Numb	Mast	are D by Schne terclad 17-30209756		S_{DS} 1.88	Higho z/h 1	est Pas I _p 1.5	ssed Te A _{flx-h} 3.01	est Leve A _{rig-h} 2.26	el A _{flx-v} 1.81	Α_{rig-v} 0.73
Serial Numb	er: N/A			2.70	0	1.5	5.01	2.20	1.01	0.75
		ions/Weights				Natur	al Frequ	uency (Hz)	
Depth (in) W 109	/ idth (in) 84	Height (in) 109	Weight (Ibs.) 7700	Front-B 7.0	ack	Sid	de-Side 5.1		Vertio 17.8	
Building C CBC 20	22		est Criteria C-ES AC156 ACC OSP- S:	NEMA Type 3 carbon steel. 2000A 1-Hig 5a), connecto Auxiliary Met	3R outdo Consists h Distribu ed to a 4 ering Sec	or, non s of a 36 ition Seo 8" wide ction we	6" wide x ⁻ ction weig x 109" de	nclosure 109" dee ghing 4,1 ep HVL/I 554 lbs. (construc p Master 46 lbs. (I Mastercl (UUT-5b	rclad, UUT- ad
			RY: Mohamr						odel #	
			E: 04/	5/202 Sur Sur Control P	cuit Breal ge Arres ower Tra	ker ter nsforme	Pr	9L20F CPTS5	15150-20 XX015XH 9515124	HS ·2A
				Voltag	le Transfo Relay	onnei			D02293 S24	FFG
-	Rast.	-		Power Meter				S7330A0B0B0E0A0		
÷.	e birti		BUILI	DING	Switch			4403	9-398-5	2
	5a	5b		2000A C	Copper M	ain Bus			N/A	
Unit was base fillet welds, (3 Unit maintaine operational pe shake table te) in front a ed structur er manufac	nd (3) in back al integrity and turer requirem	d remained nent following							

Pre Compliance

unit per operating conditions.



UUT	7 Test	t Repor	t# 707 (UU	/12R13 JT1)		
Manufacturer: Square D by Schneider Electric	High	est Pas	sed Te	est Leve	el	
Model Line: Masterclad	S _{DS} z/h	۱ _p	-			A _{rig-v}
Model Number: FO# R00008-11	2.59 1	1.5	4.14	3.11	2.05	0.83
Serial Number: N/A	3.06 0					
Dimensions/Weights	Lowest	t Natura	l Frequ	uency (Hz)	
Depth (in) Width (in) Height (in) Weight (lbs.)	Front-Back		e-Side		Vertio	al
94 36 99 9164	9.9		7.0		26.0)
	Constr NEMA Type 1, non-wa steel. 18" tall plenum		losure co	onstructe	ed of car	
UUT Mounting Details: P-(steel List of I	ncludeo	d Subce	ompone	ents	
	Descripti	on		M	odel #	
	ad Karim Circuit Brea	ker		VR-1	5150-20)
	Circuit Brea				15150-12	
	S/202 Surge Arres	ter		9L20F	XX015XH	IS
	2000A Copper N	lain Bus			N/A	
	ING CODE					
Unit was base mounted using (4) 1/2" Grade 5 bolts and (2) 7/16" Grade 5 bolts, all with Belleville conical spring washers torqued to 65 ftlbs. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.						



	UU [.]	T 8 Tes	t Report# ⁷⁰³ (Ul	712R13 JT2)
Model Line: Mas	are D by Schneider Electric terclad R00008-11	High S _{DS} z/h 2.35 1 3.01 0	nest Passed Te I _p A _{flx-h} 1.5 3.76	est Level A _{rig-h} A _{flx-v} A _{rig-v} 2.82 2.02 0.81
Dimens Depth (in) Width (in) 94 36	ions/Weights Height (in) Weight (Ibs.) 99 8061	Lowes Front-Back 9.0	t Natural Freq Side-Side 7.1	
Building Codes CBC 2022	Test Criteria	NEMA Type 1, non-w		n Summary constructed of carbon ucted of 10 ga. Carbon
UUT Mou	unting Details: P-	List of	Included Subc	omponents
	ham	Descript mad Karim	ion	Model #
	Ulall	Circuit Brea	aker	VR-15150-40
	• 04	Surge Arre 3000A Copper I	O L	9L20FXX015XHS N/A
and (2) 7/16" Grade 5 bo spring washers torqued Unit maintained structur operational per manufac	al integrity and remained cturer requirement following tents were included in the			



	UU	Т9	Test	t Repo	rt# ^{TR2}	241399- JT2)	·01-R0	
Manufacturer: Square D	by Schneider Electric		High	est Pa	ssed Te	est Leve	el	
Model Line: Mastercl		S _{DS}	z/h	۱ _p	A _{flx-h}	A_{rig-h}	A _{flx-v}	A _{rig-v}
Model Number: 2019009 Serial Number: N/A	11-001	1.86 2.98	1 0	1.5	2.98	2.23	2	0.8
		2.50	U					
Dimensions					al Frequ	uency (
Depth (in) Width (in) He 91 72	ight (in) Weight (lbs.) 95 5979	Front-B 6.49		Sie	de-Side		Verti	
91 72	95 5979	0.48)		6.97		9.15	0
Building Codes	Test Criteria				/Option			
CBC 2022	ICC-ES AC156	15kVAC rate a NEMA Type					em packa	aged in
	NE			II SLEEL	enciosure	•		
			Y2					
UUT Mountir	ng Details: P	- [ist of l	nclude	d Subc	ompon	ents	
		De	escripti	on		M	odel #	
	onam	Amra	n Transfo	ormer		V9-42	2FFGC2	-01
	- 04	115/2021	n Transfo				-2-123F	
		O/20Amra	n Transfo	V		V22	.6-2492	
		3000A (Copper N	lain Bus			N/A	
			~~/					
		C C))/					
		DING						
Sarah I								
	THE							
No.	TU							
	The							
Unit was base mounted using	g (9) 1/2"-13 Grade 5							
bolts and flat washers torque	ed to 65 ftlbs.							
Unit maintained structural in operational per manufacture								
shake table test. All contents								
unit per operating conditions	5.							